Change Proposal – BSCP40/01	**CP No: 1153** ***Version No: 1.0***

Title *(mandatory by originator)*
Changes to the Meter Advance Reconciliation Processes as detailed in BSCP05

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

The Code places an obligation on the Central Data Collection Agent (CDCA) to undertake Meter Advance Reconciliations (MARs) for each CVA Metering System in accordance with BSCP05 'Meter Advance Reconciliation For Central Volume Allocation'. BSCP05 details the scope of the service to be provided by the CDCA.

A MAR is the reconciliation of the advance of a Meter's register compared with the summation of the relevant Settlement Period data as collected by the CDCA from the Outstation associated with that Meter over a given period of time. The Meter register readings are obtained by the CDCA at site whereas the Half Hour demand periods are collected by the Instation at the CDCA's offices.

At vesting, all CVA Metering Systems consisted of Meters and separate stand alone Outstations. The Outstations collect and store data from the Meters in the form of pulses. The pulses are proportional to the amount of energy the Meter measures and the Outstation stores the pulse count in half hour blocks which are date and time stamped in accordance with the relevant Code of Practice. The Outstation pulse counts were then collected every night by the CDCA (known as the Settlement System Administrator (SSA) under the Pooling and Settlement Agreement (P&SA)) who then calculated the equivalent energy values the pulse counts represent and processed the data according to the P&SA rules. This method of Metering continues to be utilised.

When the P&SA was being drafted, there was a concern that a Meter register and its associated Outstation channel could become mismatched e.g. the Meter could develop a fault and only transmit a proportion of the pulses to the Outstation or that a change is made to the metering as part of routine maintenance. To address this concern the P&SA introduced the concept of MAR and Agreed Procedure 05 (AP05) 'Meter Advance Reconciliation' which detailed the processes and procedures to support the calculation of the MAR. The processes and procedures detailed in AP05 are virtually identical to the processes and procedures detailed in BSCP05.

Since vesting and the introduction of MARs there have been considerable advances in metering technology, specifically the introduction of electronic Meters and Meters with their own integral Outstation. Not only do these integral Outstations store half hour period data, they also generally store cumulative register data which can be collected by the CDCA. This cumulative register data is derived from the same source as the Meter register and can be collected by the CDCA every time the Meter is dialled. Therefore the CDCA could perform an effective MAR without the need to physically visit a site and manually collect Meter register data and also could perform a MAR every time the Meter is dialled (i.e. when the half hourly values and cumulative register data are obtained).

Currently BSCP05 obliges the CDCA to visit a site every three months to carry out a MAR. In the four years since the introduction of NETA, the CDCA has not identified a single instance where an Outstation has stored erroneous data due to a problem with the pulsing from a Meter. If a problem were to occur it would be identified within 24 hours as a result of the Main / Check Meter comparison which the CDCA carries out as part of its validation procedures. All CVA Metering Systems have Main and Check Meters. A three monthly MAR therefore appears to be a significant commitment in time and resources for little benefit. As the theory behind carrying out a MAR continues to apply for Metering Systems that have external outstations, the time in between the Meter Readings could be extended to one year (i.e. a MAR would be carried out once a year as opposed to once every three months for Metering Systems with external outstations) with no obvious Settlement impact.

It should be noted that in the SVA Market, where a Meter has an integral outstation that provide a cumulative reading of the prime Meter register equivalent to the total consumption or production of that Meter, the MAR

requirement is that a daily or weekly MAR should be carried out when the Meter is dialled and the Half Hourly values and cumulative Meter reading is obtained. Where a Meter does not have an integral outstation, a MAR must be carried out on a three monthly or yearly basis, depending on the capacity of the Metering System using Meter register readings obtained from a site visit.

Proposed Solution(s) *(mandatory by originator)*

The current MAR procedures within BSCP05 should be amended as follows:

Meters with integral outstations (that provide a cumulative reading of the prime Meter register equivalent to the total consumption or production of that Meter)

It is proposed that the CDCA is not required to carry out a site visit to obtain Meter register data at sites where the Meters have integral Outstations which provide an electronic cumulative reading of the prime Meter register equivalent to the total consumption or production of the Meter.

Instead, the CDCA shall carry out an in-house daily MAR using the period half hour data and associated cumulative register data collected as part of the routine dial-up process. The tolerance for this daily MAR will be ±5% in line with the corresponding tolerance in the SVA market.

Meters with external outstations (or those with integral outstations that do not provide a cumulative reading of the prime Meter register equivalent to the total consumption or production of that Meter)

It is proposed that the MAR site visit to obtain Meter register data for Meters with either separate Outstations or integral Outstations which do not provide an electronic cumulative reading of the prime Meter register equivalent to the total consumption or production of the Meter be reduced from every three months to once per year, i.e. the MAR would be carried out on a yearly basis for these Metering Systems.

Justification for Change *(mandatory by originator)*

This change recognises the advances made in metering technology since vesting and the benefits these advances could bring to Settlements. It also recognises the proven accuracy of those Metering Systems that have separate outstations.

Initial discussions with the CDCA have indicated that a 16% saving on the MAR processes could be made if this Change Proposal was approved and implemented.

Is the Change being proposed a Housekeeping Change? *(optional by originator)*

No

Configurable Items Potentially Affected by Proposed Solution(s) *(optional by originator)*

BSCP05 'Meter Advance Reconciliation For Central Volume Allocation'
CDCA Service Description

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

None

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

None

Requested Implementation Date ***(mandatory by originator)***

June 2006 release

Reason:

Other changes to CDCA documents are planned for this release. This includes the first proposed Implementation Date for Proposed Modification P190 'Removal of the obligation on the CDCA to provide a witnessing and sealing service in respect of all Metering Equipment associated with CVA Metering Systems' (noting that this Modification is currently with the Authority for decision)

Agreed Release/Implementation Date ***(mandatory by BSCCo)***

Originator's Details:

BCA Name

Organisation ELEXON

Email Address

Date 4 November 2005

Attachments: No