Change Proposal – F40/01	**CP No: 1042** ***Version No: 3.0***

Title: Clarification on the Meter Advance Reconciliation tolerance calculation

Description of Problem / Issue

BSCP502 'Half Hourly Data Collection for SVA Metering Systems Registered in SMRS', section 4.7 'Meter Advance Reconciliation' requires that the Half Hourly Data Collection (HHDC) Agent performs the Meter Advance Reconciliation ('MAR') to ensure that the Half Hourly (HH) data taken into Settlements sums to the meter advance read on site from the prime registers for the same interval "within a tolerance of 0.1%".

It has been observed previously during discussions with two of the HHDC Agents that they have applied a different interpretation of the tolerance indicated in BSCP502. One considers the tolerance to be within 0.1% of the sum of Half Hourly data taken into Settlements, and the other considers the tolerance to be within 0.1% of the Meter advance read.

The current wording of BSCP502 is sufficiently ambiguous to allow either interpretation. Although there have been changes to BSCP502 in relation to MAR, there have been no changes to clarify this requirement.

In addition to this, the wording around section 4.1.5 'Cumulative/Total Consumption Comparison' contains the requirement to perform a tolerance check using the same methodology and could become subject to similar issues.

Proposed Solution(s)

The intention of the tolerance check is to get most accurate picture of the variation between the sum of HH period energy volumes and the Meter Advance energy volume over the same time interval. In keeping with this, use of the Meter Advance as the denominator in the required equation is the most accurate method and was always the intended way of calculating the discrepancy for performing a tolerance check.

Therefore, the following equation should be added at the end of section 4.7.1 i) of BSCP502 to describe how the discrepancy should be calculated when performing tolerance checks.

$$Discrepancy = \left(\frac{\sum HHE - MA}{MA} \right) \times 100\%$$

Where:

? HHE is the sum of HH Energy volumes in kWh; and

MA is the corresponding Meter Advance, i.e.

$$MA = M_2 - M_1$$

Where:

M_2 is the Meter register reading taken during the recent site visit; and

M_1 is the Meter register reading taken during the site visit prior to the recent site visit (e.g. 3 months prior for a 100kW+ Metering System)

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Similar wording should be added to the end of 4.1.5 i) to describe how the discrepancy should be calculated when performing the Cumulative / Total consumption comparison, however the definition of M_2 and M_1 will be different, i.e.

$$Discrepancy = \left(\frac{\sum HHE - MA}{MA} \right) \times 100\%$$

Where:

? HHE is the sum of HH Energy volumes in kWh; and

MA is the corresponding Meter Advance, i.e.

$$MA = M_2 - M_1$$

Where:

M_2 is the cumulative reading returned from the last time that the Meter was interrogated; and

M_1 is the cumulative reading returned from the previous time that the Meter was interrogated over the same time period as the sum of HH period energy.

Justification for Change *(mandatory by originator)*

Accuracy of the Tolerance check is lost if the Meter Advance is not used as the denominator in the required equation.

Reported by the Auditor as a Market issue in performing the MAR. Also highlighted in the audit report under Statement of Significant Matters 8.

Configurable Items Potentially Affected by Proposed Solution(s)

Impact on Core Industry Documents

Related Changes and/or Projects

Requested Implementation Date

Reason:

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Agreed Target Release / Implementation Date	
Originator's Details: ***Name*** ***Alec Thompson*** ***Organisation*** ***ELEXON*** ***Email Address*** ***alec.thompson2@elexon.co.uk*** ***Date*** ***19/01/04***	
Attachments: (No. of Pages attached:)	