

CP1303 Attachment REDLINE TEXT CHANGES TO BSCP502 V18 SECTION 4.2 – SEE BELOW:

Section 1 to section 4.1 are not impacted by CP1303.

4.2 Data Estimation.

Data will be estimated for Import and Export Metering using one of the following data estimation methods in the order of precedence specified below and will apply equally to above and below 100kW MSs. Data will be flagged appropriately as indicated below. Alternatively, the Revenue Protection Service may advise on required adjustments. Missing Reactive Power period values will also be estimated in accordance with 4.2.3 below.

When the HHDC receives information from the MOA, Revenue Protection Service, site reports or other sources concerning metered data which has been or will be collected and processed, the Meter Period Value data shall be estimated in accordance with this BSCP where the HHDC believes the data to be in error. The HHDC shall inform the Supplier where an error might affect a different Supplier or data affects the Final Reconciliation Volume Allocation Run.

The HHDC shall retain any original value collected, whether such value is processed before or after receipt of any details of invalid data from the MOA, Revenue Protection Service, site reports or other source, and any alarms set up at the Meter.

Details of all data estimations and the rational behind using the chosen method must be recorded for Audit purposes.

The HHDC will notify the relevant Supplier and (where appropriate) the LDSO of the data estimation method in accordance with 4.2.~~43~~ below.

Data estimation shall, wherever possible, be constructed using previous actual 1 Metered Data and not previously estimated data.

HHDCs should take particular care when carrying out data estimation using, or during, public holiday periods, e.g. Christmas and New Year, where abnormal consumption patterns may be experienced. Profiles from similar periods in previous years may be used where applicable and available.

HHDCs should consider local information, where available, when carrying out estimations and use appropriate actual historical data if this is considered to give a more accurate data estimation, e.g. when estimating consumption of energy for a building known to be a school during the month of August, the average load shape could be based on actual data for the same day of week and Settlement Periods from the previous year.

Having estimated data using one of the methods below, a report is to be produced in accordance with 4.2.~~43~~ below.

¹ 'Actual' data means collected Metered Data – 'A' flagged – which has successfully passed a main / check data comparison (in accordance with Appendix 4.1.7) and Maximum validation (in accordance with Appendix 4.1.6).

If a data estimation has been completed and submitted to the HHDA and actual 'A' flag data OR information leading to more accurate estimated data becomes available, this revised data shall be notified to the Supplier and LDSO and submitted to the HHDA for use in the next Volume Allocation Run.

Where a MAR has failed, in accordance with Appendix 4.7, due to a data estimation being included in the period of reconciliation, that period of data estimation shall be re-estimated.

4.2.1 Standard Methods – Import Metering Systems

- a. Main Meter data available but check Meter data missing.
Data from main Meter used providing that data is in line with previous load shape for same day of week and Settlement Periods.
Data Flag 'A'
- b. Main Meter data missing and check Meter installed.
Data copied from the check Meter providing that data is in line with previous load shape for same day of week and Settlement Periods.
Data Flag 'A'

Note that a. and b. **do not apply** where main and check data is collected, but the data fails the main / check validation as described in Appendix 4.1.7.
- c. One Settlement Period missing or incorrect where a prime Meter register reading can be taken.
Missing or incorrect Settlement Period data calculated from the prime Meter register advance and the other actual HH data recorded for the specific period of the calculation. Note that the prime Meter register advance will not correlate to Settlement Periods.
Data Flag 'A'
- d. Two or three Settlement Periods missing or incorrect for prime Meter register or one Settlement Period missing or incorrect where a prime Meter register reading cannot be taken.
Manual values may be entered which ensure a match with real data trends.
Data Flag 'E'
- e. Meter advance available.
kWh and/or kvarh consumption calculated in the order of precedence below:
 - (i) HH data constructed by using the average load shape based on **actual** Metered Data for the same day of week and Settlement Periods over the previous or following month taking into account weekends and public holidays.
 - (ii) HH data constructed by using the average load shape based on **actual** Metered Data for the same day of week and Settlement Periods over the previous or following 2-3 weeks taking into account weekends and public holidays.
 - (iii) HH data constructed by using the average load shape based on **actual** Metered Data for the same day of week and Settlement Periods over

the previous or following week taking into account weekends and public holidays.

- (iv) Where actual Metered Data is not available to satisfy the criteria for (i), (ii) or (iii) above, the HH data shall be constructed using the average load shape based on **actual** data for the same day of week and Settlement Periods over the nearest 4 week period to that for which a data estimation is required.
- (v) Operational data or additional information will be used to construct the load shape supplied from another source (MOA, Supplier). Information to be supplied by the Supplier to the HHDC in a format agreed by both parties.

Data Flag ‘E’ except in (v), where the data is automatically retrieved by the MOA via an Interrogation Unit, in which case it will have an ‘A’ flag.

f. Meter advance unavailable.

kWh and/or kvarh consumption calculated in the order of precedence below:

- (i) The average energy values and load shape will be constructed based on **actual** Metered Data for the same day of week and Settlement Periods over the previous or following month taking into account weekends and public holidays.
- (ii) The average energy values and load shape will be constructed based on **actual** Metered Data for the same day of week and Settlement Periods over the previous or following 2-3 weeks taking into account weekends and public holidays.
- (iii) The average energy values and load shape will be constructed based on **actual** Metered Data for the same day of week and Settlement Periods over the previous or following week taking into account weekends and public holidays.
- (iv) Where actual data is not available to satisfy the criteria for (i), (ii) or (iii) above, the average energy values and load shape will be constructed based on **actual** Metered Data for the same day of week and Settlement Periods over the nearest 4 week period to that for which a data estimation is required.
- (v) Operational data or additional information will be used to construct the load shape supplied from another source (MOA, Supplier). Information to be supplied by the Supplier to the HHDC in a format agreed by both parties.

Data Flag ‘E’

g. No Meter advance, historical data, operational data or additional information available.

The HHDC will use the EAC and Profile Class Id provided by the Supplier together with the Default Period Profile Class Coefficients (DPPCCs) provided in Market Domain Data (MDD), to perform the estimation of consumption. For the avoidance of doubt, DPPCCs are defined in clock time (British Summer Time during the summer months) and therefore the estimated data based upon this method will also be in clock time.

When estimating Reactive Energy consumption the HHDC will use the Default EAC and Default Period Profile Class Coefficients (DPPCCs) provided in Market Domain Data (MDD) in conjunction with a default power factor of 0.9 to determine missing Reactive Import values. The default power factor of 0.9 shall not be used when estimating Reactive Export values, in these instances a value of zero shall be submitted.

Data Flag ‘E’

- h. No EAC or Profile Class Id available.

Where the Supplier has not provided the data specified in ‘g’, the HHDC will use the DPPCCs for Profile Class 6 ‘Non Domestic Maximum Demand Load Factor Band 20 – 30 %’, and with the HH Default EAC provided in MDD, derive the HH estimates for the missing Settlement Periods.

When estimating Reactive Energy consumption the HHDC will use the procedure specified above in conjunction with a default power factor of 0.9 to derive the Reactive Import estimates for the missing Settlement Periods. The default power factor of 0.9 shall not be used when estimating Reactive Export values, in these instances a value of zero shall be submitted.

Data Flag ‘E’

SECTION 4.2.2 IS NOT IMPACTED BY CP1303.

4.2.3 Standard Methods – Reactive Power

Standard methods 4.2.1(b) through to 4.2.1(h) are also applicable to Reactive Import and Reactive Export, and the HHDC will use these methods where possible to provide estimates of missing Reactive Power data.

The HHDC may vary the standard methods 4.2.1(b) to 4.2.1(h) to use available Active Power in estimating Reactive Power values.

Where it is not possible to use the above methods to provide estimates of missing Reactive Power data, the HHDC shall not provide estimated data. In particular, zero estimates shall be provided only when these represent genuine estimates of the missing Reactive Power data, and not as a method of signalling that estimates could not be provided.

4.2.43 Reporting

The report identifies all MSs for which Meter period estimated data (‘E’ flag data only) has been used, showing the dates and Settlement Periods affected. The HHDC will additionally provide full details of the data estimation method used to the Supplier, and where appropriate, to the LDSO (this information may be provided by any method agreed with the Supplier and the LDSO).²

SECTION 4.3 – TO THE END OF THE DOCUMENT WILL NOT BE IMPACTED BY CP1303.

² For the avoidance of doubt, the data estimation method may be provided using the D0022 Additional Information Field, or by any other method agreed between the HHDC, Supplier and LDSO (e.g. spreadsheets, emails) providing that an audit trail of such information is maintained.