

P230: Proposed changes to BSC Codes of Practice

Changes are required to the BSC Codes of Practice ('CoPs') to make them relevant to the Supply Licence requirement for installation of specific Metering Equipment. This will be done by adding a clause to each CoP's scope to state whether it is relevant to P230. CoPs 1-3, 5-7 and 10 are relevant; CoPs 8 and 9 are not.

Changes have been drafted against the latest conformed versions of the Codes of Practice.

CoP1, Issue 2 Version 4.1

1. SCOPE

This Code of Practice states the practices that shall be employed, and the facilities that shall be provided for the measurement and recording of the quantities required for Settlement purposes on each circuit where the rated capacity exceeds 100MVA.

It derives force from the Code, and in particular the metering provisions (Section L), to which reference should be made. It should also be read in conjunction with any relevant BSC Procedures.

Metering Equipment that meets the requirements of this Code of Practice is also applicable where the Registrant is required by its Supply Licence (and as referenced in Section L 3.2.6) to install Metering Equipment that is capable of providing measured electricity consumption data for multiple periods (at least half hourly) and providing the Registrant with remote access to such data.

This Code of Practice does not contain the calibration, testing and commissioning requirements for Metering Equipment used for Settlement purposes. These requirements are detailed in Code of Practice Four – “Code of Practice for Calibration, Testing and Commissioning Requirements for Metering Equipment for Settlement Purposes”.

Metering Dispensations from the requirements of this Code of Practice may be sought in accordance with the Code and BSCP32.

Meters and Outstations referred to in this Code of Practice shall only achieve successful compliance in respect of any testing detailed in this Code of Practice if the requirements set out in accordance with BSCP601 are also observed and successfully completed or the Registrant has been granted a valid Metering Dispensation covering any departure from the requirements as detailed in this Code of Practice.

In the event of an inconsistency between the provisions of this Code of Practice and the Code, the provisions of the Code shall prevail.

CoP2, Issue 4 Version 4.1

1. SCOPE

This Code of Practice states the practices that shall be employed, and the facilities that shall be provided for the measurement and recording of the quantities required for Settlement purposes on each circuit where the rated capacity does not exceed 100MVA.

It derives force from the Code, and in particular the metering provisions (Section L), to which reference should be made. It should also be read in conjunction with any relevant BSC Procedures.

Metering Equipment that meets the requirements of this Code of Practice is also applicable where the Registrant is required by its Supply Licence (and as referenced in Section L 3.2.6) to install Metering Equipment that is capable of providing measured electricity consumption data for multiple periods (at least half hourly) and providing the Registrant with remote access to such data.

This Code of Practice does not contain the calibration, testing and commissioning requirements for Metering Equipment used for Settlement purposes. These requirements are detailed in Code of Practice Four - "Code of Practice for Calibration, Testing and Commissioning Requirements for Metering Equipment for Settlement Purposes".

Metering Dispensations from the requirements of this Code of Practice may be sought in accordance with the Code and BSCP32.

Meters and Outstations referred to in this Code of Practice shall only achieve successful compliance in respect of any testing detailed in this Code of Practice if the requirements set out in accordance with BSCP601 are also observed and successfully completed or the Registrant has been granted a valid Metering Dispensation covering any departure from the requirements as detailed in this Code of Practice.

In the event of an inconsistency between the provisions of this Code of Practice and the Code, the provisions of the Code shall prevail.

1. SCOPE

This Code of Practice states the practices that shall be employed, and the facilities that shall be provided for the measurement and recording of the quantities required for Settlement purposes on each circuit where the rated capacity does not exceed 10MVA.

It derives force from the Code, and in particular the metering provisions (Section L), to which reference should be made. It should also be read in conjunction with the BSC Procedures.

Metering Equipment that meets the requirements of this Code of Practice is also applicable where the Registrant is required by its Supply Licence (and as referenced in Section L 3.2.6) to install Metering Equipment that is capable of providing measured electricity consumption data for multiple periods (at least half hourly) and providing the Registrant with remote access to such data.

This Code of Practice does not contain the calibration, testing and commissioning requirements for Metering Equipment used for Settlement purposes. These requirements are detailed in Code of Practice Four - "Code of Practice for Calibration, Testing and Commissioning Requirements for Metering Equipment for Settlement Purposes".

Metering Dispensations from the requirements of this Code of Practice may be sought in accordance with the Code and BSCP32.

Meters and Outstations referred to in this Code of Practice shall only achieve successful compliance in respect of any testing detailed in this Code of Practice if the requirements set out in accordance with BSCP601 are also observed and successfully completed or the Registrant has been granted a valid Metering Dispensation covering any departure from the requirements as detailed in this Code of Practice.

Generic Metering Dispensations applicable to this Code of Practice are located on the BSCCo website (www.elexon.co.uk).

In the event of an inconsistency between the provisions of this Code of Practice and the Code, the provisions of the Code shall prevail.

1. SCOPE

This Code of Practice states the practices that shall be employed, and the facilities that shall be provided for the measurement and recording of the quantities required for Settlement purposes.

This Code of Practice specifically applies to the Metering Equipment to be installed on each circuit where the Maximum Demand of the electricity being transferred does not exceed 1MW

This Code of Practice applies equally to "whole current" metering and metering supplied via measurement transformers operating at high or low voltages.

It derives force from the Code, and in particular the metering provisions (Section L, to which reference should be made. It should also be read in conjunction with the relevant BSC Procedures.

Metering Equipment that meets the requirements of this Code of Practice is also applicable where the Registrant is required by its Supply Licence (and as referenced in Section L 3.2.6) to install Metering Equipment that is capable of providing measured electricity consumption data for multiple periods (at least half hourly) and providing the Registrant with remote access to such data.

Outstations shall, as a minimum, be capable of interrogation by the Settlement instation. In addition, Outstations may deliver metering data to the Settlement instation providing that the requirements of this Code of Practice are met.

This Code of Practice does not contain the calibration, testing and commissioning requirements for Metering Equipment used for Settlement purposes. These requirements are detailed in Code of Practice Four - "Code of Practice for Calibration, Testing and Commissioning Requirements for Metering Equipment for Settlement Purposes".

Dispensations from the requirements of this Code of Practice may be sought in accordance with the Code and BSCP32.

Meters and Outstations referred to in this Code of Practice shall only achieve successful compliance in respect of any testing detailed in this Code of Practice if the requirements set out in accordance with BSCP601 are also observed and successfully completed or the Registrant has been granted a valid Metering Dispensation covering any departure from the requirements as detailed in this Code of Practice.

Generic Metering Dispensations applicable to this Code of Practice are located on the BSCCo website (www.elexon.co.uk).

In the event of an inconsistency between the provisions of this Code of Practice and the Code, the provisions of the Code shall prevail.

2. SCOPE

This Code of Practice states the practices that shall be employed, and the facilities that shall be provided for the measurement and recording of the quantities required for Settlement purposes.

This Code of Practice specifically applies to Direct Connected Metering Equipment to be installed **FOR THE METERING OF ENERGY IMPORTS VIA LOW VOLTAGE CIRCUITS FUSED AT 100 AMPS OR LESS PER PHASE.**

Reactive energy measurement is not specifically covered within this Code, where kVA and/or kvar are required Code of Practice Five equipment shall be used.

It will be noted that this Code of Practice and Code of Practice Seven apply to the same circuit consumption. For clarity the distinction is that Code of Practice Six sets out the requirements for Settlement Metering Equipment and Code of Practice Seven specifies the settlement requirements as part of a wider metering and data collection infrastructure providing data to the Data Processing Interface. Code of Practice Seven does not require Code of Practice Six Meters to be used. It would however be possible to construct a Code of Practice Seven system using Code of Practice Six Metering.

The Metering Equipment shall be categorised into polyphase and single phase metering and one of the following types, dependent upon the period for which the equipment is able to record the Settlement information:

- i) Code of Practice Six (a) - minimum storage period of 20 days;
- ii) Code of Practice Six (b) - minimum storage period of 100 days;
- iii) Code of Practice Six (c) - minimum storage period of 250 days; or
- iv) Code of Practice Six (d) - minimum storage period of 450 days.

This Code of Practice derives force from the metering provisions of the Code and in particular Section L, to which reference should be made and should also be read in conjunction with the relevant BSC Procedures for, inter alia, operation of the data collection systems.

Metering Equipment that meets the requirements of this Code of Practice is also applicable where the Registrant is required by its Supply Licence (and as referenced in Section L 3.2.6) to install Metering Equipment that is capable of providing measured electricity consumption data for multiple periods (at least half hourly) and providing the Registrant with remote access to such data.

This Code of Practice does not contain the calibration, testing and commissioning requirements for Metering Equipment used for Settlement purposes. These requirements are detailed in Code of Practice Four - "Code of Practice for Calibration, Testing and Commissioning Requirements for Metering Equipment for Settlement Purposes".

Dispensations from the requirements of this Code of Practice may be sought in accordance with the Code and BSCP32.

Meters and Outstations referred to in this Code of Practice shall only achieve successful compliance in respect of any testing detailed in this Code of Practice if the requirements set out in accordance with BSCP601 are also

observed and successfully completed or the Registrant has been granted a valid Metering Dispensation covering any departure from the requirements as detailed in this Code of Practice.

In the event of an inconsistency between the provisions of this Code of Practice and the Code, the provisions of the Code shall prevail.

CoP7, Issue 2 Version 4.1

2. SCOPE

This Code of Practice states the practices that shall be employed, and the facilities that shall be provided for the measurement, recording and collection of the quantities required for Settlement purposes.

This Code of Practice specifically applies to Metering and Data Collection Systems (MDCS) to be installed **FOR THE METERING OF ENERGY IMPORTS VIA LOW VOLTAGE CIRCUITS FUSED AT 100 AMPS OR LESS PER PHASE.**

Reactive energy measurement is not covered within this Code of Practice, where kVA and/or kvar is required Code of Practice Five equipment shall be used.

It will be noted that this Code of Practice and Code of Practice Six apply to the same circuit consumption. For clarity, the distinction is that Code of Practice Six sets out the requirements for a Settlement Metering Equipment and Code of Practice Seven specifies the settlement requirements as part of a wider metering and data collection infrastructure providing data to the Data Processing interface. Code of Practice Seven does not require Code of Practice Six Meters to be used. It would, however, be possible to construct a Code of Practice Seven system using Code of Practice Six Metering.

It derives force from the metering provisions (Section L) of the Balancing and Settlement Code, to which reference should be made. It should also be read in conjunction with the relevant BSC Procedures for, inter alia, operation of the data collection systems.

Metering Equipment that meets the requirements of this Code of Practice is also applicable where the Registrant is required by its Supply Licence (and as referenced in Section L 3.2.6) to install Metering Equipment that is capable of providing measured electricity consumption data for multiple periods (at least half hourly) and providing the Registrant with remote access to such data.

This Code of Practice does not contain the calibration, testing and commissioning requirements for Metering Equipment used for Settlement purposes. These requirements are detailed in Code of Practice Four - "Code of Practice for Calibration, Testing and Commissioning Requirements for Metering Equipment for Settlement Purposes".

Dispensations from the requirements of this Code of Practice may be sought in accordance with the Code and the BSC Procedure BSCP32.

In the event of an inconsistency between the provisions of this Code of Practice and the Code, the provisions of the Code shall prevail.

1. SCOPE

This Code of Practice states the practices that shall be employed and the facilities that shall be provided for the measurement and recording of the quantities required for Settlement purposes.

This Code of Practice specifically applies to directly connected and transformer operated Metering Equipment to be installed **FOR THE METERING OF IMPORT ACTIVE ENERGY VIA LOW VOLTAGE CIRCUITS FOR NON-HALF HOURLY SETTLEMENT PURPOSES.**

This Code of Practice only applies to "whole current" and transformer operated Metering Equipment for Import Active Energy measured in kWh. No provision is made for the measurement of Reactive or Apparent Energy or any Maximum Demand.

This Code of Practice defines the extent of Metering Equipment to be installed by a Meter Operator Agent in fulfilling its role in the provision of equipment and data for Non-Half Hourly Settlement purposes.

This Code of Practice derives force from the Balancing and Settlement Code, and in particular the metering provisions contained in Section L, to which reference should be made. It should also be read in conjunction with the relevant BSC Procedures.

Metering Equipment that meets the requirements of this Code of Practice is not applicable where a Registrant is required by its Supply Licence (and as referenced in Section L 3.2.6) to install Metering Equipment that is capable of providing measured electricity consumption data for multiple periods (at least half hourly) and providing the Registrant with remote access to such data.

This Code of Practice does not contain the calibration, testing and commissioning requirements for Metering Equipment used for Settlement purposes. These requirements are detailed in Code of Practice Four¹ - "Code of Practice for Calibration, Testing and Commissioning Requirements for Metering Equipment for Settlement Purposes".

Any device that is not covered by SI1679 shall not be involved in deriving the kWh value for settlement purposes. To clarify, an integral outstation may be used but a remote outstation (peripheral device) that derives a kWh value (e.g. via pulsed outputs) shall not be used. A remote outstation that transfers the kWh value of the primary register in accordance with the manufacturers protocol may be used.

Dispensations from the requirements of this Code of Practice may be sought in accordance with the Balancing and Settlement Code and BSC Procedure BSCP32.

In the event of an inconsistency between the provisions of this Code of Practice and the Balancing and Settlement Code, the provisions of the Balancing and Settlement Code shall prevail.

Meters manufactured prior to 1 April 2003 that have been tested and received type approval by the Authority (Ofgem or its predecessors) to a standard not less than Class 2 applicable at the time of type approval shall be deemed compliant with this Code of Practice.

¹ The current Issue 5 of Code of Practice Four may require minor amendments to accommodate Non-Half Hourly Metering Systems.

1. SCOPE

This Code of Practice states the practices that shall be employed and the facilities that shall be provided for the measurement and recording of the quantities required for Settlement and other purposes. This Code of Practice does not currently cover the measurement of gross generation.

This Code of Practice specifically applies to whole current and transformer operated Metering Equipment to be installed **FOR THE METERING OF IMPORT AND EXPORT ACTIVE ENERGY VIA LOW VOLTAGE CIRCUITS FOR NON-HALF HOURLY SETTLEMENT PURPOSES.**

This Code of Practice only applies to whole current and current transformer operated Metering Equipment for Import and Export Active Energy measured in kWh. No provision is made for the measurement of Reactive or Apparent Energy or any Maximum Demand.

The following areas are not specified within this Code of Practice:

- MOA arrangements where more than one MOA exists at a Site;
- Prepayment Metering;
- Complex Tariff Arrangements;
- Revenue Protection/Security; and
- Data Communications.

This Code of Practice defines the extent of Metering Equipment to be installed by a Meter Operator Agent in fulfilling its role in the installation and maintenance of equipment for Non-Half Hourly Settlement purposes.

This Code of Practice derives force from the Balancing and Settlement Code, and in particular the metering provisions contained in Section L, to which reference should be made. It should also be read in conjunction with the relevant BSC Procedures.

Metering Equipment that meets the requirements of this Code of Practice is not applicable where a Registrant is required by its Supply Licence (and as referenced in Section L 3.2.6) to install Metering Equipment that is capable of providing measured electricity consumption data for multiple periods (at least half hourly) and providing the Registrant with remote access to such data.

This Code of Practice does not contain the calibration, testing and commissioning requirements for Metering Equipment used for Settlement purposes. These requirements are detailed in Code of Practice Four - "Code of Practice for Calibration, Testing and Commissioning Requirements for Metering Equipment for Settlement Purposes".

Any device that is not covered by SI1679 shall not be involved in deriving the kWh value for settlement purposes. To clarify, an integral outstation may be used but a remote outstation (peripheral device) that derives a kWh value (e.g. via pulsed outputs) shall not be used. An integral outstation that transfers the kWh value of the primary register in accordance with the manufacturers protocol may be used.

Dispensations from the requirements of this Code of Practice may be sought in accordance with the Balancing and Settlement Code and BSC Procedure BSCP32.

In the event of an inconsistency between the provisions of this Code of Practice and the Balancing and Settlement Code, the provisions of the Balancing and Settlement Code shall prevail.

Compliance with this Code of Practice may be attained by the use one of the following techniques:

- (i) a single Meter containing measuring elements for Import and Export ; or
- (ii) two separate Meters containing a single measuring element for each of Import and Export.

CoP10, Issue 1 Version 1.0

1. SCOPE

This Code of Practice states the practices that shall be employed, and the facilities that shall be provided for the measurement and recording of the quantities required for Settlement purposes.

Additional features may be incorporated within or associated with the Metering Equipment provided but these must not interfere with or put at risk the operation of the Settlement process.

This Code of Practice specifically applies to whole current metering of energy via low voltage circuits for Settlement purposes. Metering Equipment compliant with this Code of Practice can be traded either elective Half Hourly (Measurement Class E) or Non-Half Hourly.

It derives force from the Code, and in particular the metering provisions (Section L), to which reference should be made. It should also be read in conjunction with the relevant BSC Procedures.

Metering Equipment that meets the requirements of this Code of Practice is also applicable where the Registrant is required by its Supply Licence (and as referenced in Section L 3.2.6) to install Metering Equipment that is capable of providing measured electricity consumption data for multiple periods (at least half hourly) and providing the Registrant with remote access to such data.

Outstations shall, as a minimum, be capable of interrogation by the Settlement instation. In addition, Outstations may deliver metering data to the Settlement instation providing that the requirements of this Code of Practice are met.

This Code of Practice does not contain the calibration, testing and commissioning requirements for Metering Equipment used for Settlement purposes. These requirements are detailed in Code of Practice Four - "Code of Practice for Calibration, Testing and Commissioning Requirements for Metering Equipment for Settlement Purposes".

Dispensations from the requirements of this Code of Practice may be sought in accordance with the Code and BSC Procedure BSCP32 'Metering Dispensations'.

Generic Metering Dispensations applicable to this Code of Practice are located on the BSCCo website ([ELEXON Website](#)).

In the event of an inconsistency between the provisions of this Code of Practice and the Code, the provisions of the Code shall prevail.