

**Code of Practice 4: redlined changes for CP1351**

## 5.5 Commissioning

The purpose of Commissioning is to ensure that the energy flowing across a Defined Metering Point is accurately recorded by the associated Metering System. The following tests and checks are provided to Commissioning engineers to help ensure this requirement is met (the detail involved in the tests and checks carried out will largely depend on the quantities of energy measured by the associated Metering System).

Commissioning shall be performed on all new Metering Equipment which is to provide metering data for Settlement, and on any existing Metering Equipment in which individual items of Metering Equipment are replaced or reconnected.

### 5.5.2 Commissioning Tests

Commissioning tests on site shall be performed to confirm and record where appropriate the following:

- That the current transformers are of the correct ratio and polarity and correctly located to record the required power flow;
- The voltage transformers are the correct ratio and polarity and correctly located to record the required power flow;
- The relationships between voltages and currents are correct and that phase rotation is standard at the Meter terminals;
- The burdens on the measurement transformers are within the correct limits;
- The Meters are set to the same current transformer and voltage transformer ratios as the installed measurement transformers;
- The Meters have the correct Compensation for errors in the measurement transformers/connections and losses in power transformers where appropriate;
- The output of the Metering System correctly records the energy in the primary system at the Defined Metering Point;
- The Metering Equipment detects phase failure and operates the required alarms.

Where individual items of Metering Equipment are ~~to be replaced~~ or reconnected the whole Metering System is required to be Commissioned by the Meter Operator Agent on behalf of the Registrant. then only those items are required to be Commissioned. ~~For clarification, Metering Systems in their entirety need not be re-Commissioned when items are replaced within that system.~~

### 5.5.4 Records

The MOA shall provide such evidence, as BSCCo may require, to confirm that, following its Commissioning, Metering Equipment shall meet the requirements of the Code and relevant Codes of Practice. This evidence must be Traceable and dated.

Where the date of Commissioning is on or after 23 February 2012 the MOA shall provide, on completion of a Commissioning test for a Half Hourly Metering System, a copy of the Commissioning record to BSCCo. BSCCo will monitor records at its discretion for accuracy, completeness, and compliance with requirements. BSCCo shall periodically report to the BSC Panel as to the state of Commissioning tests and records. In addition BSCCo will monitor at its discretion the provision of Commissioning records for new sites.

If Metering Equipment is changed, then its Commissioning record should be retained by the MOA and provided to BSCCo if required. Where new Metering Equipment is installed, including changes to existing Metering Equipment, the Commissioning record shall be retained by the MOA and a copy provided to BSCCo. A copy of any Commissioning record shall be provided to BSCCo on request.

The evidence provided shall contain, as a minimum and where applicable, the following information:

- Site name
- Site address
- Metering System Identifier (MSID/MPAN)
- Meter Operator Agent organisation name
- Date of Commissioning
- Name of person responsible for undertaking Commissioning (and organisation)
- Reason for Commissioning
- Code of Practice applicable (including version)
- Metering Dispensations applicable
- Meter details (including any Certificate identity)
- Current transformers details (including any Certificate identity)
- Voltage transformers details (including any Certificate identity)
- Circuit name (where more than one)
- Results of inspections, tests and observations.

## **5.6 Proving**

- In order to ensure that the metering data recorded by the Metering Systems Outstation(s) can be transferred to Settlements, a Proving Test shall be carried out on all new Metering Systems and where any change is made to, or work takes place on, the electrical connections of existing Metering Equipment performed in accordance with BSCP514 or BSCP02 as appropriate.