

**Balancing and Settlement Code**

**BSC PROCEDURE**

**Technical Assurance of Half Hourly Metering Systems for Settlement  
Purposes**

**BSCP27**

**Version 10.0**

**Date: 25 June 2009**

**BSC PROCEDURE 27**

**relating to**

**Technical Assurance of Half Hourly Metering Systems for Settlement Purposes**

1. Reference is made to the Balancing and Settlement Code dated Code Effective Date and, in particular, to the definition of “BSC Procedure” in Section X, Annex X-1 thereof.
2. This is BSC Procedure 27 Version 10.0 relating to Technical Assurance of Half Hourly Metering Systems for Settlement Purposes.
3. This BSC Procedure is effective from 25 June 2009.
4. This BSC Procedure has been approved by the BSC Panel.

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## AMENDMENT RECORD

Version	Date	Changes	CPs Included	Mods Panel Ref
1.0	01/06/04	New BSCP (This BSCP supersedes BSCP526 and BSCP26)	CP998	
2.0	BETTA Effective Date	BETTA 6.3 and SVA February 2005 Release	CP1091 and BETTA 6.3	SVG/48/004
3.0	02/11/05	CVA Nov 05 Release	CP1062 version 1	SVG/56/014
4.0	22/02/07	Reformatted and Changes for CP1176 Updated following industry review	CP1164 CP1172 CP1176	SVG/68/04 ISG/69/01 ISG/66/06 SVG/66/04 ISG/68/002 SVG/67/002
5.0	23/08/07	P197 Release	P197	
6.0	01/11/07	November 07 Release	CP1195  CP1210	ISG77/03 SVG77/04 ISG79/02 SVG79/02
7.0	28/02/08	February 08 Release	CP1212	ISG81/01 SVG81/01
8.0	26/06/08	June 08 Release	CP1223	SVG84/02, ISG84/01, TDC109/01, PAB84/11
9.0	26/11/08	P207 Release	P207	ISG91/01 SVG91/06
10.0	25/06/09	June 09 Release	CP1265	ISG97/01 SVG97/01

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## **1 Introduction**

### **1.1 Purpose and Scope of the Procedure**

This BSC Procedure (BSCP) defines the process of inspections of Supplier Volume Allocation (SVA) Half Hourly Metering Systems registered in a Supplier Meter Registration System (SMRS) and Central Volume Allocation (CVA) Metering Systems registered in the Central Meter Registration Service (CMRS).

It describes the key interfaces and timetable responsibilities for the role of the Technical Assurance Agent (TAA) and interested parties in the inspection of Metering Systems. The primary aim of Technical Assurance is to monitor Registrants' and Party Agents' compliance with their obligations as defined in the Balancing and Settlement Code (the Code) and Code Subsidiary Documents (CSDs) to ensure that the Active Energy Imported and/or Active Energy Exported through Boundary Points and System Connection Points is complete and accurate.

### **1.2 Risk Based Performance Assurance Framework**

Performance Assurance Techniques (PAT) will be applied to Performance Assurance Parties (PAP) based on the net significance of the applicable Settlement Risk and an assessment of the PAP's contribution to the Settlement Risk.

Settlement Risks and their net significance are captured on the Risk Evaluation Register (RER). All the Settlement Risks identified are rated in terms of severity of impact and probability (including a weighting for the strength of controls).

The Settlement Risks are assigned PATs to mitigate those risks and these PATs are recorded in the Risk Operating Plan (ROP) against each Settlement Risk.

The RER and the ROP are produced for a Performance Assurance Operating Period in accordance with the Annual Performance Assurance Timetable and the agreed Risk Evaluation Methodology (REM), which details the processes used to identify and evaluate the Settlement Risks and assess their materiality.

A Risk Management Plan (RMP) is created for each PAP based on the RER and the ROP and in accordance with the REM. The RMP will detail the PATs that will be deployed to a PAP during the course of a Performance Assurance Operating Period based on the Settlement Risks that are applicable to that PAP and the extent that the Settlement Risk applies to the PAP. If a PAP disagrees with their RMP, then there are provisions within the Code for them to query or appeal against it.

At the end of a Performance Assurance Operating Period, the Performance Assurance Board (PAB) will prepare an Annual Performance Assurance Report for the Panel detailing the assurance that has been provided during the course of the period, the extent to which Settlement Risks have been mitigated, and BSCCo costs of providing that assurance.

Technical Assurance is a Performance Assurance Technique and will be deployed to a PAP in relation to relevant Settlement Risks in accordance with the agreed RMP.

### 1.3 Main Users of the Procedure and their Responsibilities

This Procedure should be used by the following for each type of Metering System:

CVA Metering Systems	SVA Metering Systems
<ul style="list-style-type: none"> <li>▪ BSCCo</li> <li>▪ Central Data Collection Agent (CDCA)</li> <li>▪ Market Participants</li> <li>▪ Meter Operator Agents (MOA)</li> <li>▪ Panel</li> <li>▪ Panel Committees</li> <li>▪ Performance Assurance Administrator (PAA)</li> <li>▪ Registrants</li> <li>▪ Technical Assurance Agent (TAA)</li> </ul>	<ul style="list-style-type: none"> <li>▪ BSCCo</li> <li>▪ Half Hourly Data Collectors (HHDCs)</li> <li>▪ Licensed Distribution System Operators (LDSOs)</li> <li>▪ Market Participants</li> <li>▪ Meter Operator Agents (MOAs)</li> <li>▪ Panel</li> <li>▪ Panel Committees</li> <li>▪ Performance Assurance Administrator (PAA)</li> <li>▪ Registrants</li> <li>▪ Supplier Meter Registration Agents (SMRAs)</li> <li>▪ Technical Assurance Agent (TAA)</li> </ul>

### 1.4 Use of the Procedure

The Registrant is responsible for ensuring the compliance of its Party Agents, in particular the MOA and DC, with the Code and CSDs.

The TAA shall determine a Metering System to be non-compliant if the Code or CSDs are not being adhered to, subject to any Metering Dispensations applicable to the Metering Equipment.

Throughout this procedure, where a timescale is stated, it refers to the number of Working Days (WD) by which the activity described shall be completed.

### 1.5 Key Milestones

The key milestones in this procedure are:

- Extracts from CDCA and SMRA for the sampling of Metering Systems as detailed in section 1.10.
- 20WD<sup>2</sup> notice to the Registrant and MOA of a TAA Inspection-Visit.

## 1.6 Balancing and Settlement Code Provision

This BSCP has been produced in accordance with the provisions of the Code and in particular Section L. In the event of an inconsistency between the provisions of this BSCP and the Code, the provisions of the Code shall prevail.

## 1.7 Associated BSC Procedures

This BSCP interfaces with:

CVA Metering Systems	SVA Metering Systems
<ul style="list-style-type: none"> <li>▪ BSCP02 – Proving Test Requirements for CVA Metering Systems</li> <li>▪ BSCP06 – CVA Meter Operations for Metering Systems Registered in CMRS</li> <li>▪ BSCP11 – Trading Queries and Trading Disputes</li> <li>▪ BSCP20 – Registration of Metering Systems for Central Volume Allocation</li> <li>▪ BSCP32 – Metering Dispensations</li> <li>▪ BSCP537 – Qualification Process for SVA Parties, SVA Party Agents and CVA MOAs</li> <li>▪ BSCP538 – Error and Failure Resolution</li> <li>▪ BSCP601 - Metering Protocol Approval and Compliance Testing</li> </ul>	<ul style="list-style-type: none"> <li>▪ BSCP11 – Trading Queries and Trading Disputes</li> <li>▪ BSCP32 - Metering Dispensations</li> <li>▪ BSCP501 - Supplier Meter Registration Service</li> <li>▪ BSCP502 – Half Hourly Data Collection for SVA Metering Systems Registered in SMRS</li> <li>▪ BSCP514 –SVA Meter operations for Metering Systems registered in SMRS</li> <li>▪ BSCP515 – Licensed Distribution</li> <li>▪ BSCP535 – Technical Assurance</li> <li>▪ BSCP537 – Qualification Process for SVA Parties, SVA Party Agents and CVA MOAs</li> <li>▪ BSCP538 – Error and Failure Resolution</li> <li>▪ BSCP550 - Shared SVA Meter Arrangement of Half Hourly Import and Export Active Energy</li> <li>▪ BSCP601 - Metering Protocol Approval and Compliance Testing</li> </ul>

## 1.8 Responsibilities

For the purpose of this BSCP the Registrant is the Party responsible for the provision of Code-compliant Settlement Metering Systems.

## 1.9 Metering System Sampling Groups

For SVA, the total number of Metering Systems to be inspected in any one year shall be as determined by the Performance Assurance Board (PAB) in accordance

with the ROP. This may include a percentage of re-inspections. The selection of the actual Metering Systems to be inspected shall be at the discretion of BSCCo.

The TAA shall select SVA Metering Systems for the following sampling groups:

- Targeted Inspections
- Specific Sample
- Main Sample

For CVA, the total number of Metering Systems to be inspected in any one year shall be as directed from time to time by the PAB. This will include a percentage of re-inspections. The selection of the Metering Systems to be inspected shall be at the discretion of BSCCo, in accordance with the scope as directed by the PAB.

The TAA shall select CVA Metering Systems for the following sampling groups:

- Targeted Inspections
- Main Sample

#### 1.9.1 Targeted Inspections

The TAA may target a number of Metering Systems where non-compliance is suspected. These may be identified as a consequence of information obtained by BSCCo (including that information provided by the PAA), by the TAA or as directed by the PAB. BSCCo will inform the TAA of those Metering Systems that require a targeted Inspection Visit.

The basis for this sample will be on information provided by Registrants and other parties to enable BSCCo to target specific Metering Systems, GSP Groups, types of Metering Equipment, Party Agents or BSC Parties. Targeted inspections will not necessarily be carried out each time a group of inspections is arranged.

#### 1.9.2 Specific Sample - SVA Only

It is intended that specific samples will focus on where the risk to Settlement is perceived to be greatest. The PAB will determine the size of the specific sample. It is anticipated this specific sample will account for no more than 20% of the total number of visits agreed by the PAB to be performed each year. The focus of this specific sample will be set by the PAB on an annual basis. It is envisaged that this group will be sampled from, but not limited to, the following:

1. Code of Practice (CoP) One, Two and G Metering Systems and Scottish Code of Practice One (S1) and Two (S2) Metering Systems
2. Import/Export Metering Systems: those Metering Systems that record Import and Export electricity will be targeted for inspection, to ensure that the technical details have been correctly recorded in Settlement.
3. Multi-Feeder Metering Systems.

4. Complex Sites: those Metering Systems that cannot be adequately expressed via the D0268, Half Hourly Meter Technical Details, and where the MOA is required to provide additional information.

The registered MOA and LDSO will be responsible for and will use reasonable endeavours to provide complete and accurate Metering System data, upon request to the TAA or BSCCo for the purposes of Technical Assurance.

#### 1.9.3 Main Sample – CVA and SVA

The TAA, on behalf of BSCCo, shall ensure that a representative sample of Metering Systems is inspected for both SVA and CVA Half Hourly Metering Systems. The selection of Metering Systems will be based upon consideration of:

- GSP Group (SVA Only)
- Registrant
- Meter Operator Agent
- Code of Practice
- Metering Equipment
- Previous inspection(s)

### 1.10 Information Required to Enable Sampling of Metering Systems

#### 1.10.1 Specific Sample – SVA

In order to ensure that the relevant Metering Systems are inspected, each Registrant, LDSO or MOA where appropriate will provide details of all Metering Systems (described in section 1.9.2) so that a representative sample can be determined by the TAA. The Registrant will provide the following information for each Metering System:

- Metering System ID.
- GSP Group.
- MOA ID.
- HHDC ID.
- Site Address Details.
- Applicable CoP.
- Details of any current applicable Metering Dispensation

The TAA will, on behalf of BSCCo, create a schedule of inspections that meets the PAB's agreed requirements.

### 1.10.2 Main Sample – CVA

The CDCA shall submit an electronic list of all Metering System IDs registered in the Central Meter Registration Service (CMRS), together with associated information to BSCCo. The lists shall be provided four times a year on dates agreed with BSCCo. The required information will be forwarded to the TAA to initiate the sample selection process.

The TAA will use reasonable endeavours to minimise the number of repeated inspections when selecting the Metering Systems to be inspected.

The TAA will select 10% more Metering System IDs than will be inspected. The additional 10% will enable the TAA to categorise the Metering Systems and ensure that there is no bias towards any one Party, Metering Equipment type or sampling area. This initial sample will be sub-divided by Registrant and MOA.

BSCCo will provide additional guidance for the selection of sampled inspections.

On identification of the Metering System IDs the CDCA will be required to provide the following additional information in order to finalise the sample:

- Meter Technical Details for each Metering System ID (as detailed in BSCP20).

The relevant Registrant will then be notified of the Metering Systems to be inspected.

### 1.10.3 Main Sample – SVA

This is the main sample selection process (excluding those detailed in 1.9.2) for SVA Metering Systems.

Each SMRA shall ensure that the details it holds are updated daily to a central online database in line with the requirements detailed in the Master Registration Agreement (MRA), together with any associated information as specified in BSCP501 to the PAA via BSCCo. The required information will then be used by the TAA to initiate the sample selection process.

The TAA will use reasonable endeavours to minimise the number of repeated visits when selecting the Metering Systems to be inspected.

The TAA will select 10% more Metering System IDs than will be inspected. The additional 10% will enable the TAA to categorise the Metering Systems ensuring that there is no bias towards any one Party, Metering Equipment type or sampling area. This initial sample will be sub divided by GSP Group, Registrant and MOA.

Once the Metering System IDs have been identified the Registrant will be required to provide the following additional information in order to finalise the sample:

- Meter Technical Details for each Metering System ID (as detailed in the D0268, Half Hourly Meter Technical Details).

The relevant Registrant will then be notified of the Metering Systems to be inspected.

### **1.11 Re-Inspections**

Where a category 1 or category 2 non-compliance has been identified and subsequently reported as rectified, it is possible that the Metering System will be re-inspected by the TAA to confirm compliance.

BSCCo will inform the TAA of the percentage of previously non-compliant Metering Systems which should be re-inspected. Re-inspections will be selected with consideration given to the category and number of non-compliances associated with the previous inspection.

The TAA will submit the proposed schedule of re-inspections to BSCCo for approval. At the end of a quarter, the TAA shall select a sample of 10% (or any other percentage as determined by the PAB) of the category 1 non-compliances that a participant has rectified during that quarter and shall carry out a re-inspection.

### **1.12 Targeted Inspections**

Where the PAB requires assurance about a particular Metering System, they may request a targeted inspection to take place.

The PAB will use the following information when deciding to perform a targeted check:

- Previous non compliances;
- Performance related issues;
- Settlement error;
- Information provided by it's sub-committees; or
- The Panel.

### **1.13 Metering System Inspection**

On selection of an appropriate Metering System the TAA shall notify the relevant Registrant, MOA and LDSO prior to the date of the intended Inspection Visit. The Registrant or a nominated representative will be invited to attend the Inspection Visit and shall make all reasonable endeavours to ensure access to all Metering Equipment and will liaise with the LDSO or Transmission Company (if necessary) to arrange such access. The Registrant shall be required to ensure that the MOA and LDSO or Transmission Company (if necessary) will be in attendance and that the person attending the site is technically competent to discuss problems relating to any defects or non-compliances and able to agree the resolution of any defects or non-compliances.

The Registrant shall notify the TAA, prior to the intended Inspection Visit that the MOA will be in attendance. In addition the Registrant will inform the TAA of any other representatives that will be present at the Inspection Visit. Failure to do so will be reported to PAB at the discretion of BSCCo.

A MOA may appoint a competent third party who may attend on their behalf.

For SVA Metering Systems the Registrant shall obtain permission from the appropriate LDSO to gain independent access to the LDSO's equipment associated with the Metering System and the MOA shall allow access to the Meter and associated Metering Equipment for which it is responsible. The LDSO shall accede to such a request in a reasonable timeframe prior to the inspection visit as agreed with the Registrant.

For CVA Metering Systems the Registrant (or its nominated representative) shall provide access to the Metering Equipment during the Inspection Visit.

The TAA may, with the agreement of the BSCCo, arrange for an urgent revisit (SVA and CVA Metering Systems) to be initiated. This will be at the expense of the Registrant if:

- (a) The Registrant fails to arrange access on the agreed date and time or access cannot be obtained upon arrival by the TAA; or
- (b) The MOA fails to attend an Inspection Visit.

Any costs incurred by the MOA as a result of its attendance at an Inspection Visit shall be met by the MOA.

Where the TAA has gained access to the Metering System but has been unable to complete the Inspection Visit, a result of 'incomplete Inspection Visit' and the reason for non completion will be recorded.

Where the TAA has been unable to gain access to the Metering System a result of 'no access' and the reason for no access will be recorded.

## **1.14 Additional Metering Equipment Details Required by the TAA**

When a Metering System has been selected for inspection, the MOA will be required to provide the following additional Metering Equipment Technical Details prior to the Inspection Visit:

### **1.14.1 General Information**

- Site name
- Site address
- Site telephone number

### **1.14.2 Accuracy**

- Circuit Identifier
- Applicable CoP (including the specific Issue)
- Current applicable Metering Dispensation(s)
- Meter Calibration Certificates

- Current Transformer Test Certificates (including details of manufacturer, type, serial number and class).
- Voltage Transformer Test Certificates (including details of manufacturer, type, serial number and class).
- Applicable Meter Compensation values (including evidence to support the applied values).

The determination of the overall accuracy of Metering Systems requires the provision of all associated measurement transformer errors. Details for the processes to be followed by the various parties for the provision of this information are given in section 4 of this BSCP.

#### 1.14.3 Half Hourly Metering System Functional Information

- Channel Number(s) (for Active Energy)
- Measurement Quantity Id
- Date of First Registration

The HHDC will also be required to provide the Meter Technical Details prior to the Inspection Visit.

#### 1.14.4 Half Hourly Metering System Functional Information

Failure to provide the above information to the TAA within the required timescales as defined in section 4 shall be classified as a non-compliance.

The TAA may request any additional information that is felt necessary and reasonable for any Metering System being audited. This additional information will also be provided by the registrant in a reasonable timeframe prior to the inspection visit where possible.

**Where appropriate, all information to be provided to the TAA regarding an Inspection visit should be provided via the electronic online tool provided by the TAA.**

### 1.15 Non-Compliance

The TAA shall raise a non-compliance if, after taking into account any Metering Dispensations:

- (a) The requirements of the Code and CSDs are not being adhered to;
- (b) The actual configurable Meter parameters are not consistent with the Meter Technical Details recorded in Settlement Systems as provided by the HHDC or CDCA, or MOA prior to the Inspection Visit.

The findings of the Inspection Visit will be recorded on an Inspection Schedule and presented to the MOA at the time of the Inspection Visit. Wherever possible any identified non-compliances shall be rectified by the MOA at the time of the visit.

### Categorisation of non compliances

Category 1 Non Compliance	A non-compliance has been identified which is deemed to be currently affecting the quality of data for Settlement purposes
Category 2 Non Compliance	A non-compliance has been identified which is deemed to have the potential to affect the quality of data for Settlement purposes
Observation	A non-compliance has been identified which is deemed neither to affect nor to have the potential to affect the quality of data for Settlement purposes

On completion of an inspection, the TAA shall issue notices of compliance or non-compliance to the Registrant, MOA, HHDC, LDSO and Transmission Company as appropriate and where a non-compliance has been determined, the TAA shall provide the Registrant with the details of the non-compliance.

Where a non-compliance has been determined the Registrant shall be responsible for progressing the rectification of the non-compliance and must submit a rectification plan to the TAA. The Registrant will be required to take all reasonable steps to ensure that the party that can take direct action does so, and that the Registrant pursues that party to the extent necessary. Where the BSCCo deems it necessary, non-compliances not rectified by the Registrant will be reported to the PAB who will decide on further action in accordance with BSCP538, Error and Failure Resolution.

The TAA will provide the Registrant with a reminder if the Registrant has failed to rectify the non-compliance within the required timescales. The reminder will contain all appropriate information about the non-compliance.

#### 1.16 Appeals

Where a non-compliance has been identified, this may be appealed by:

- The Registrant responsible for that Metering System; or
- The relevant MOA, HHDC, LDSO or the Transmission Company on behalf of the Registrant.

The non-compliance can be appealed as follows:

1. Initially to the TAA who will review the appeal and provide a response to the appellant.
2. If unsuccessful in 1, the appellant may pursue the appeal with BSCCo, or withdraw the appeal. If the appeal is not withdrawn, BSCCo will review the appeal and provide a response to the appellant.

3. If unsuccessful in 2, the appellant may pursue the appeal with the Panel, or withdraw the appeal. The Panel may choose to delegate this responsibility to the PAB.

The Registrant (or MOA, HHDC, LDSO or the Transmission Company on behalf of the Registrant) will be required to provide evidence in support of the appeal.

### **1.17 Rectification Action**

The Registrant (or MOA, LDSO, HHDC or the Transmission Company on behalf of the Registrant) will rectify the non-compliance or provide a rectification plan (BSCP27/05), which will detail the appropriate milestones and actions to be taken in order to achieve rectification within the timescales required and set out in section 4.

### **1.18 Post Rectification Action**

Where a Registrant is required to perform testing as per CoP 4, 'Code of Practice for the Calibration, Testing and Commissioning Requirements of Metering Equipment for Settlement Purposes', following the rectification of a non-compliance, the PAA or BSCCo or TAA shall have the option to attend and/or request details of the tests performed.

The costs associated with the rectification of a non-compliance and any subsequent testing shall be borne by the responsible Party.

### **1.19 Reporting**

BSCCo may report the findings of an Inspection Visit and any outstanding non-compliances to the PAB.

### **1.20 Acronyms and Definitions**

#### **1.20.1 List of Acronyms**

BSC	Balancing and Settlement Code (The "Code")
BSCCo	Balancing and Settlement Code Company
BSCP	BSC Procedure
CDCA	Central Data Collection Agent
CMRS	Central Meter Registration Service
CoP	Code of Practice
CSD	Code Subsidiary Document
CT	Current Transformer
CVA	Central Volume Allocation
HH	Half Hour
HHDC	Half Hourly Data Collector
HV	High Voltage
LDSO	Licensed Distribution System Operator
LV	Low Voltage

MOA	Meter Operator Agent
MRA	Master Registration Agreement
MSID	Metering System ID
MTD	Meter Technical Details
PAA	Performance Assurance Administrator
PAB	Performance Assurance Board
PAP	Performance Assurance Party (Includes Registrants and Party Agents)
REM	Risk Evaluation Methodology
RER	Risk Evaluation Register
ROP	Risk Operating Plan
RMP	Risk Management Plan
S	Scottish Code of Practice (for Metering Systems registered in Scotland prior to the BETTA Effective Date)
SMRA	Supplier Meter Registration Agent
SMRS	Supplier Meter Registration Service
SVA	Supplier Volume Allocation
TAA	Technical Assurance Agent
VT	Voltage Transformer
WD	Working Day

#### 1.20.2 Definitions

**Additional Metering Technical Details** – Additional Meter Technical Details not included within the D0268 dataflow or listed in BSCP20, Registration of Metering Systems for CVA.

**Inspection Visit** – the on site inspection of a Metering System.

A full list of definitions is provided in the Code.

**2            Not Used**

### 3 Interface and Timetable Information

#### 3.1 Main Sample Selection Process – CVA and SVA

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.1	As specified in section 1.10	Request Metering System Ids and associated information.	BSCCo	CDCA	Relevant information from HH Metering System Id, GSP Group, Registrant, MOA, HHDC and Measurement Class.	As agreed
3.1.2	As specified in section 1.10	Request Metering System Ids and associated information.	TAA	SMRA	Relevant information from HH Metering System Id, GSP Group, Registrant, MOA, HHDC and Measurement Class.	As agreed
3.1.3	Within 10 WD of request in 3.1.1	Provide Half Hourly Metering System Ids and associated information.	CDCA	BSCCo	Relevant information from HH Metering System Id, GSP Group, Registrant, MOA, HHDC and Measurement Class.	As agreed
3.1.4	Within 10 WD of request in 3.1.1	Provide Half Hourly Metering System Ids and associated information.	SMRA	TAA	Relevant information from HH Metering System Id, GSP Group, Registrant, MOA, HHDC and Measurement Class.	As agreed
3.1.5	Upon receipt of data in 3.1.3	Provide the TAA with the data.	BSCCo	TAA	Lists of HH Metering System Ids and associated Registrant and MOA.	As agreed

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.6	Within 10 WD of receipt of data in 3.1.4 and 3.1.53	Randomly select 10% more Metering Systems than will be inspected for the forthcoming Quarter, as agreed by the BSCCo.	TAA		Lists of HH Metering System Ids and associated Registrant and MOA.	Internal process
3.1.7	On completion of 3.1.6 and at least 20 WD prior to the Inspection Visit	Request information.	TAA	MOA CDA Registrant <sup>1</sup> (as necessary)	Meter Technical Details Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	Email / Fax / Letter
3.1.8	Within 10 WD of receipt of TAA request in 3.1.7 as necessary	Provide information (as necessary).	Registrant	TAA	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	Email / Fax / Letter
3.1.9	Where CVA: Within 10 WD of receipt of TAA request in 3.1.7 Where SVA: On the day of the Inspection Visit or within 10 WD of receipt of TAA request in 3.1.7	Provide Information.	MOA	TAA	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	Email / Fax / Letter

<sup>1</sup> It is the responsibility of the Registrant to provide the requested information to the TAA. However, the MOA can provide the information at the request of the Registrant.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.10	Within 10 WD of receipt of TAA request in 3.1.7	Provide information.	CDCA	TAA	Meter Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	Email / Fax / Letter
3.1.11	Upon receipt of data requested in 3.1.7	Finalise sample of HH Metering System to avoid bias towards any one party or type of Metering Equipment and derive inspection schedule. Collate information required for the inspection. Proceed to Section 3.5 (Inspection Visit).	TAA			Internal process

### 3.2 Specific Sample Selection Process – SVA Only

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.1	At PAB meeting	Agree and notify BSCCo of Specific Sample.	PAB	BSCCo	Number and type of each Metering System to form Specific Sample.	Report / Letter
3.2.2	Within 10 WD of decision at 3.2.1	Request information from each Registrant, MOA and LDSO for all relevant Specific Sample Metering Systems registered in SMRSs.	TAA	Registrant, MOA and LDSO	Information about Specific Sample Metering Systems as requested.	As agreed
3.2.3	Within 20 WD of receipt of request at 3.2.2	Provide information on all Specific Sample Metering Systems as requested.	Registrant, MOA and LDSO	TAA	Information about Specific Sample Metering Systems as requested.	As agreed
3.2.4	Upon receipt of information	Randomly select the agreed number of each type of Metering System which comprises the agreed Specific Sample group.	TAA		Select sample as instructed by BSCCo.	Internal process
3.2.5	At least 20 WD prior to the Inspection Visit	Request information.	TAA	MOA Registrant (as necessary)	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.2.6	At least 20 WD prior to the Inspection Visit	Request information.	TAA	HHDC	Meter Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.7	Within 10 WD of receipt of request in 3.2.6 as necessary	Provide information (as necessary).	Registrant	TAA	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.2.8	On the day of the Inspection Visit or within 10 WD of receipt of TAA request in 3.2.5	Provide information	MOA	TAA	Meter Technical Details. Additional Metering Equipment Technical Details BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only)	As agreed
3.2.9	Within 10 WD of receipt of request in 3.2.6	Provide information.	HHDC	TAA	Meter Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.2.10	Prior to Inspection Visit	Collate information required for inspection. Proceed to Section 3.5.	TAA			Internal process

### 3.3 Determination of Metering Systems for Targeted Inspections

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.1	At any time	Provide information on SVA Half Hourly or CVA Metering Systems that may require a targeted inspection.	Market Participant, PAA, Panel, PAB or TAA BSCCo	BSCCo	Metering System with reasons and supporting evidence of suspected non-compliance.	As agreed
3.3.2	Within 5 WD of receipt of information in 3.3.1	Determine Metering System that requires a targeted inspection.	BSCCo		Suspected non-compliance.	Internal process
3.3.3	Within 1 WD of 3.3.2.	Instruct the TAA to carry out a targeted inspection and inform the TAA of the urgency.	BSCCo	TAA	Metering System and reason for targeted inspection.	As agreed
3.3.4	At least 20WD prior to the Inspection Visit	Request information.	TAA	MOA Registrant (as necessary)	Meter Technical Details Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.3.5	At least 20WD prior to the Inspection Visit	Request information.	TAA	HHDC or CDCA	Meter Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.3.6	Within 10 WD of receipt of the request in 3.3.4 as necessary	Provide information (as necessary).	Registrants	TAA	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.7	Where CVA: Within 10 WD of receipt of TAA request in 3.3.4 Where SVA: On the day of the Inspection Visit or within 10 WD of receipt of TAA request in 3.3.4	Provide information.	MOA	TAA	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.3.8	Within 10 WD of receipt of the request in 3.3.5	Provide information.	HHDC or CDCA	TAA	Meter Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.3.9	Prior to Inspection Visit	Collate information required for Inspection Visit and proceed to section 3.5.	TAA			Internal process

### 3.4 Selection of Metering Systems for Re-inspections

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.4.1	On a Quarterly basis	Identify Metering Systems that were found to be non-compliant and have since been notified as rectified. Randomly select Metering Systems in accordance with the percentage agreed by BSCCo.	TAA		Previous inspection history. Percentages as agreed by BSCCo.	Internal process
3.4.2	Within 2 WD of 3.4.1	Provide BSCCo with schedule of proposed re-inspections for authorisation.	TAA	BSCCo	Schedule of proposed re-inspections.	As agreed
3.4.3	Within 2 WD of 3.4.2	Analyse proposed schedule of re-inspections and either agree schedule or request amendments. Go back to 3.4.2 if required.	BSCCo	TAA	Schedule of proposed re-inspections.	As agreed
3.4.4	At least 20WD prior to the Inspection Visit	Request information.	TAA	MOA Registrant (as necessary)	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.4.5	At least 20WD prior to the Inspection Visit	Request information.	TAA	HHDC or CDCA	Meter Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.4.6	Within 10 WD of receipt of request at 3.4.4 as necessary	Provide information (as necessary).	Registrant	TAA	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.4.7	Where CVA: Within 10 WD of receipt of TAA request in 3.4.4 Where SVA: On the day of the Inspection Visit or within 10 WD of receipt of TAA request in 3.4.4	Provide information.	MOA	TAA	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.4.8	Within 10 WD of receipt of request at 3.4.5	Provide information.	HHDC or CDCA	TAA	Meter Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.4.9	Prior to Inspection Visit	Collate information for Inspection Visit and proceed to Section 3.5.	TAA			Internal process

### 3.5 Inspection Visit

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.5.1	At least 20 WD <sup>2</sup> prior to an Inspection Visit	Notify Registrant, LDSO and MOA of HH Metering System identified for Inspection Visit.	TAA	Registrant, LDSO and MOA	Date, time and Metering System to be inspected. (as detailed in Appendix 4.5.1 - BSCP27/01)	As agreed
3.5.2	Within 10 WD of receipt of notification in 3.5.1.	Arrange for access to Metering System for the purposes of an Inspection Visit.	Registrant	MOA, Customer, and if necessary LDSO	Date, time and Metering System to be inspected.	As agreed
3.5.3	At least 5WD prior to an Inspection Visit	Notify the TAA and MOA of acceptance of impending Inspection Visit and those parties attending.	Registrant	TAA MOA	Acceptance of terms and required attendees of an impending Inspection Visit. (as detailed in Appendix 4.5.2 - BSCP27/02).	As agreed
3.5.4	At least 5WD prior to an Inspection Visit	Registrant, LDSO, MOA to provide required information to the TAA for the purposes of the Inspection Visit.	Registrant MOA LDSO	TAA	Meter Technical Details. Additional Metering Equipment Technical Details. BSCP514/8.4.8a Complex Site Supplementary Information Form, where applicable (SVA only).	As agreed
3.5.5	On the day of the Inspection Visit	TAA performs Inspection Visit with MOA in attendance.	TAA and MOA			

<sup>2</sup> [In the case of Inspection Visits to Metering Systems located offshore, the TAA shall provide a minimum of 90 WD notice. In such cases, where a visit has not taken place within 20 WD of the intended visit date, the TAA shall notify BSCCo, giving reasons for the failure. BSCCo may refer the matter to the Performance Assurance Board.](#)

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.5.6	On completion of Inspection Visit  Within 2 WD of completion of the Inspection Visit	TAA produces Inspection Visit findings and determines Metering System compliance.  If a category 1 or 2 non compliance identified, initiate process 3.6.  If an observation is identified – notify the relevant parties If Inspection Visit is identified as compliant – notify the relevant parties.	TAA	Registrant and MOA, HHDC, LDSO (or Transmission Company) if appropriate	Completed and signed Inspection Schedule	As agreed
3.5.7	Within 2 WD of completion of Inspection Visit	Request current actual consumption data held by the CDCA or HHDC for the same period as recorded during the Inspection Visit.	TAA	CDCA or HHDC	Current actual consumption data held by the CDCA or HHDC for the same HH period.	As agreed
3.5.8	Within 5 WD of receipt of request	Provide HH data requested in 3.5.7.	CDCA or HHDC	TAA	HH data.	As agreed
3.5.9	Within 2 WD of receipt of 3.5.8	TAA performs Consumption Data Comparison Check and produces Inspection Schedule.  If a category 1 or 2 non compliance identified, initiate process 3.6.  If an observation is identified – notify the relevant parties If Inspection Visit is identified as compliant – notify the relevant parties.	TAA	Registrant and MOA, HHDC, LDSO (or Transmission Company) if appropriate	Completed and signed Inspection Schedule.	As agreed

### 3.6 Category 1 or 2 Non-Compliance

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.6.1	Within 2WD of an Inspection Visit (3.5.6a)	Notify the Registrant, MOA, and HHDC/CDCA LDSO and Transmission Company as relevant of non-compliance. Notify LDSO where appropriate.  If the visit was a targeted visit notify BSCCo.	TAA	Registrant, MOA, HHDC, CDCA, LDSO or Transmission Company if appropriate; BSCCo (for targeted visit only)	Specific details of category 1 or 2 non-compliance (Completed and signed Inspection Schedule).	As agreed
3.6.2	Within 2WD of performing Consumption Data Comparison Check (3.5.9a)	Notify the Registrant, and CDCA/HHDC of non-compliance. If relevant notify the MOA.  If the visit was a targeted visit notify BSCCo.	TAA	Registrant, and HHDC/CDCA ; MOA (if appropriate); BSCCo (for targeted visit only)	Specific details of category 1 or 2 non-compliance (Completed and signed Inspection Schedule).	As agreed
3.6.3	Within 1WD of receiving notification in 3.6.1.	Inform the TAA that a non-compliance notification has been received.	Registrant	TAA	Acknowledgement.	Email / Fax / Letter

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.6.4	Within 10WD of receiving non-compliance notification in 3.6.1. Or following 3.6.6, 3.6.8, 3.7.2 or 3.7.3	a) Where the Registrant, MOA, HHDC, CDCA, LDSO or Transmission Company agrees that metering defects are non-compliant; provide a rectification plan to the TAA or rectify the Metering System defects <sup>3</sup> and inform the TAA of action taken. Proceed to Section 3.6.7.	Registrant, MOA, HHDC, CDCA, LDSO or Transmission Company	TAA	Details of the Rectification action taken, or a rectification plan (Appendix 4.5.5 - BSCP27/05).	Email / Fax / Letter
		b) Where the Registrant or MOA disagrees the non-compliances raised; inform the TAA and follow the appeal process set out in 3.7.	Registrant, MOA	TAA	Non-compliance appealed and reason for disagreement	Email / Fax / Letter
3.6.5	On 11 <sup>th</sup> WD after notifying a Registrant of non-compliance	Where an appeal has <i>not</i> been received, and no rectification details or plan are received from the Registrant MOA, or HHDC/CDCA, send a reminder notification to the Registrant, MOA, and HHDC/CDCA, requesting a rectification plan or details of the rectification action taken.	TAA	Registrant, MOA or HHDC/CDCA	Details of non-compliance.	Email / Fax / Letter
3.6.6	Within 1WD of receiving notification in Ref. 3.6.5	Inform the TAA that a reminder notification has been received and proceed to 3.6.3.	Registrant, MOA and HHDC/CDCA	TAA	Acknowledgement of reminder notification.	As agreed
3.6.7	Within 3WD of 3.6.6	Where no rectification plan or details of the rectification action taken are received, escalate the Registrant, MOA, and HHDC/CDCA. Report to BSCCo.	TAA	BSCCo		Email / Fax / Letter
		Inform the Registrant, MOA, and HHDC/CDCA that they have failed to provide adequate rectification details and will be reported to BSCCo.	TAA	Registrant, MOA or HHDC/CDCA		

<sup>3</sup> It should be noted that it is the responsibility of the Registrant to progress any non-compliances associated with a Settlement Metering System. However, the MOA can progress the rectification of a non-compliance at the request of the Registrant and will follow the actions of the Registrant detailed in this process.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.6.8	Within 2WD of 3.6.4a or following 3.6.9a	<p>Analyse the Information provided.</p> <p>a) Where the Registrant, MOA or HHDC/CDCA has provided adequate information to show rectification action is complete close the non-compliance and notify the Registrant and MOA and HHDC/CDCA. Process ends.</p> <p>b) Where the Registrant, MOA or HHDC/CDCA does not provide: adequate information to show rectification action is complete; or a complete rectification plan; notify the Registrant and, MOA, and HHDC/CDCA with the reasons and proceed to 3.6.3.</p> <p>c) Where the Registrant, MOA or HHDC/CDCA provides an adequate rectification plan, notify the Registrant and MOA and HHDC/CDCA that the plan is satisfactory</p>	TAA	<p>Registrant, MOA and HHDC/CDCA ; and LDSO (if appropriate)</p> <p>Registrant, MOA and HHDC/CDCA ; and LDSO (if appropriate)</p> <p>Registrant, MOA and HHDC/CDCA ; and LDSO (if appropriate)</p>	Rectification plan.	<p>Internal process</p> <p>As agreed</p> <p>As agreed</p> <p>As agreed</p>

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.6.9	As appropriate for the milestones in the rectification plan	<p>Monitor completion of milestones in the rectification plan.</p> <p>Analyse the information required.</p> <p>a) Where the milestones have been met provide confirmation to the Registrant, MOA, HHDC/CDCA, and BSCCo. If the final milestone has been met proceed to 3.6.8a.</p> <p>b) Where the milestones have not been met or no information is received regarding the completion of milestones from the Registrant, MOA or HHDC/CDCA Report to BSCCo.</p> <p>Notify the Registrant and MOA, and HHDC/CDCA that they have failed to meet the timescales of the rectification plan and will be reported to BSCCo.</p>	TAA	<p>Registrant, MOA, HHDC/CDCA and BSCCo</p> <p>BSCCo</p> <p>Registrant, MOA, HHDC/CDCA</p>		<p>Internal process</p> <p>As agreed</p> <p>Email / Fax / Letter</p> <p>Email / Fax / Letter</p>

### 3.7 Appeal Process

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.1	Within 5WD of receipt of appeal details at 3.6.4b.	<p>TAA considers the grounds for the appeal.</p> <p>a) Decide that the appeal is valid and withdraw the non-compliance. Notify the Registrant and/or MOA of the decision and that the issue is now closed. Process ends.</p> <p>b) Decide that the appeal is not valid and inform the Registrant and MOA that the non-compliance will be upheld.</p>	TAA	<p>Registrant or MOA</p> <p>Registrant or MOA</p>	<p>Reasons why the non-compliance has been appealed</p> <p>Details of why the non-compliance has been removed</p> <p>Details of why non-compliance is still valid</p>	<p>Internal process</p> <p>Email / Fax / Letter</p> <p>Email / Fax / Letter</p>
3.7.2	Within 5WD of receiving notification in section 3.7.1b	<p>Registrant or MOA considers appeal decision.</p> <p>a) If Registrant or MOA accept decision; inform TAA and proceed to 4.6.4a.</p> <p>b) If Registrant or MOA still disagree with the non-compliance acknowledge receipt of decision and notify TAA of further appeal. Notify BSCCo of the appeal</p>	Registrant or MOA	<p>TAA</p> <p>TAA</p> <p>BSCCo</p>	<p>Reasons why the non-compliance has been upheld.</p> <p>Acknowledgement of receipt of appeal decision and further appeal.</p>	<p>Email / Fax / Letter</p> <p>Email / Fax / Letter</p>

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.3	Within 20 WD of receipt of the appeal at 3.7.2b	<p>BSCCo considers the grounds for the appeal.</p> <p>a) Decide that the appeal is valid and withdraw the non-compliance. Notify the relevant parties of the decision and that the issue is now closed. Process ends.</p> <p>(b) Decide that the appeal is not valid and inform the relevant parties that the non-compliance will be upheld.</p>	BSCCo	<p>Registrant, MOA and LDSO (if appropriate); TAA</p> <p>Registrant, MOA and LDSO (if appropriate); TAA</p>	<p>Details of why the non-compliance has been appealed.</p> <p>Details of why the non-compliance has been removed.</p> <p>Details of why non-compliance is still valid.</p>	<p>Internal process</p> <p>Email / Fax / Letter</p> <p>Email / Fax / Letter</p>
3.7.4	Within 5 WD of receiving notification in 3.7.3b	<p>Registrant or MOA considers appeal decision.</p> <p>a) If Registrant or MOA accept decision; inform BSCCo and TAA. Proceed to 3.6.3a.</p> <p>b) If Registrant or MOA still disagree with the non-compliance acknowledge receipt of decision. Notify BSCCo that they wish to present appeal to the Panel<sup>4</sup>.</p> <p>The Registrant or MOA may request attendance at the next PAB/Panel meeting.</p>	Registrant or MOA	<p>TAA</p> <p>BSCCo</p> <p>BSCCo</p>	<p>Reasons why the non-compliance has been upheld.</p> <p>Acknowledgement of receipt of appeal decision.</p> <p>Reasons why the non-compliance has been appealed.</p>	<p>Email / Fax / Letter</p> <p>Email / Fax / Letter</p>
3.7.5	Within 1WD of receipt of the appeal details in 3.7.4 b	Notify the TAA of appeal to Panel .	BSCCo	TAA	Reasons why the non-compliance has been appealed.	As agreed

<sup>4</sup> The Panel may delegate this to the PAB.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.6	At next appropriate meeting of the PAB or Panel	BSCCo reports the appeal details to the Panel for decision.	BSCCo	PAB / Panel	Details of non-compliance and details of why the non-compliance has been appealed by the Registrant or MOA	PAB or Panel Paper
3.7.7	At PAB or Panel meeting	<p>Panel considers the grounds of the appeal and decides whether to uphold or withdraw the non-compliance.</p> <p>(a) PAB/Panel decides that the appeal is valid and informs the relevant parties to withdraw the non-compliance. Process ends.</p> <p>(b) PAB/Panel decides that the appeal is not valid and informs the relevant parties to continue with the non-compliance procedure. Proceed to 3.6.3a.</p>	<p>PAB / Panel</p> <p>PAB / Panel via BSCCo</p> <p>PAB / Panel via BSCCo</p>	<p>Registrant, MOA and LDSO (if appropriate); TAA</p> <p>Registrant and MOA; TAA</p>	<p>Report from the TAA and BSCCo.</p> <p>The PAB / Panel's decision and reasons why the appeal has been accepted.</p> <p>The PAB / Panel's decision and reasons why the appeal has not been accepted.</p>	<p>Email / Fax / Letter</p> <p>Email / Fax / Letter</p>

### 3.8 Reporting

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.8.1	Monthly	Provide BSCCo with a report of the results of all Inspection Visits completed in the previous month and details of all outstanding non-compliances.	TAA	BSCCo		As agreed
3.8.2	On or before PAB paper day	Provide the PAB with details of Inspection Visits completed by the TAA in the previous month and details of all outstanding non-compliances.	BSCCo	PAB		Report
3.8.3	At the PAB meeting	Determine what action, if any, needs to be taken in respect of a non-compliant Registrant. The PAB may also choose to initiate the Removal of Qualification Process for a MOA.	PAB		Details of Inspection Visits completed by the TAA in the previous month and details of all outstanding non-compliances.	Removal of Qualification Process is defined in BSCP537.

## 4 Appendices

### 4.1 Description of Inspection Checks

This appendix describes the tests & checks that may be required to be carried out by the TAA as part of an Inspection Visit, as determined by the PAB. This is not an exhaustive list.

#### 4.1.1 Measurement Transformer Specification (where appropriate)

Where possible check the:

- (a) Ratio, class, rated burden and polarity from the labels physically attached to the measurement transformers and/or the identification plates attached to switchgear or other enclosures containing measurement transformers (in practice this will not always be practical for safety reasons). And
- (b) Test records/certificates detailing specific measured errors held by the LDSO, or equipment owner, associated with the measurement transformers on site or from agreed Generic CT/VT certificates (SVA) in the case of CTs and VTs.

#### 4.1.2 Meter Technical Details

Check to ensure that the actual Meter Technical Details conform to those recorded in Settlement Systems using:

- (a) Information provided by the CDCA (CVA), Registrant (SVA) or Party Agent in accordance with Section 1.14 of this BSCP, including any measurement transformer error offsets & commissioning details.
- (b) Information supplied to the CDCA, HHDC and MOA.

(This may require a remote/local interrogation of data for comparison purposes).

#### 4.1.3 Accuracy

The following checks should be performed to verify the overall accuracy requirements of the Metering System:

- (a) Measurement transformers relate to test certificates provided;
- (b) Meter - test certificate calibration details are in accordance with requirements in CoP Four;
- (c) Metering Equipment installed is in accordance with the relevant CoP.

The overall accuracy is to be determined by the TAA and shall be within the requirements of the applicable CoP.

#### 4.1.4 Correct Energy Measurement Check

To verify that the Metering System is recording the correct amount of energy, checks shall be carried out that compare the primary load with that being recorded by the Metering System. However, due to the possible restrictive physical location

of the primary conductors and Plant at an installation, access may be limited. Where this is the case, other suitable methods may be used to determine correct measurement.

For SVA sites installations can be divided up into the following three categories:

- (a) LV whole current;
- (b) LV, CT operated;
- (c) HV, CT & VT operated.

Sites that fall into categories (a) and (b) will prove to be the most accessible for prevailing load checks. Sites in category (c) may be more difficult to access, but it is often possible to use a clip-on ammeter around the current transformer cables where access to switchgear is restricted.

Note: When all preferred methods of checking the prevailing load fails, other suitable engineering methods may be adopted to establish correct measurement.

Methods of establishing primary load (in order of preference):

1. The demand (derived from independently measured primary values) shall be compared to the Meter's instantaneous demand reading for the same period; or
2. The demand (derived from independently measured secondary values where the primary/secondary ratios can be established) shall be compared to the Meter's demand reading for the same period; or
3. Where appropriate an alternative measurement device shall be used for comparison with that of the Settlement Meter; or
4. The MOA shall provide the TAA with appropriate commissioning records. The TAA is required to establish that these details sufficiently verify that the Meter has been proven to be operating correctly during commissioning; or
5. In the event that none of the above is possible, the TAA will notify BSCCo giving the reasons. (This recognises that if 1 to 4 are not possible additional checks do not add value.)

#### 4.1.5 Consumption Data Comparison Check

The TAA shall compare the metered energy data for one half hour recorded at the time of the Inspection Visit with the consumption data held by the HHDC or CDCA for that same half-hour period. If the values differ by more than agreed tolerances the TAA will issue a non-compliance. This check can take place on site or off site at the discretion of the TAA and either method forms part of the Inspection Visit.

The tolerances will be agreed from time to time by the PAB.

In order to obtain and verify stored Meter data values that are eventually transferred to the HHDC or CDCA, it will be necessary to use a Hand Held Unit running relevant approved Hand Held Unit protocol to download from the Meter or Outstation. This process will also provide engineering units (kW half hours and/or raw pulses) and some standing data. Once the pulse multiplier and Meter constant are applied (where applicable) these values can be compared with the measured values.

This Consumption Data Comparison Check shall take the following format:

1. Compare the Meter Technical Details provided by both the HHDC or CDCA and MOA with that observed on-site. Consideration should also be given to Commissioning and historic proving test information.
2. Request the current actual consumption data held by the CDCA or HHDC for the same half hour period to compare energy recorded by the Settlement Meter and the energy values held in the CDCA or HHDC systems which will be submitted to Settlement.

In both cases one Active Energy channel will be requested unless a non-compliance is identified.

4.1.6 Code of Practice Compliance

All points to be checked as specified in the appropriate CoP.

4.1.7 Quality of Installation

All points to be checked as specified in the applicable CoP, including:

- (a) Labelling of equipment.
- (b) General standard of installation i.e. good working practice.

4.1.8 The TAA will perform an estimated metered error calculation to be included in the Annual Report to the PAB to provide an indication of the impact on settlements, in particular the impact that category 1 non-compliances may be having.

**4.2 Not Used**

**4.3 Provision of Measurement Transformer Certificates for Metering Equipment**

**4.3.1 Objective**

BSC Parties require assurance that Metering Equipment operates within the accuracy limits defined in the appropriate CoP. As part of the process of establishing this assurance, evidence is required of the measurement transformer errors associated with the Metering System. This section explains the process involved in achieving such assurance.

**4.3.2 Ownership**

In the context of this BSCP, Equipment Owner is defined as the owner of the measurement transformers which form part of the Metering System.

**4.3.3 Responsibilities**

The MOA responsibilities are as stated in the Code and Code Subsidiary Documents.

The Equipment Owners responsibilities regarding the provision of measurement transformer certificates and co-operation with the MOA, are stated in the Code and Code Subsidiary Documents.

**4.3.4 Procedures for CoP1,CoP2, S1 and S2**

The MOA should obtain the necessary measurement transformer test certificates from the Equipment Owner. This should be provided within 10 WD of the request.

If the necessary test certificates are not immediately available, the Equipment Owner shall advise the MOA of that situation (within 10 WD of the request) and state what steps are being taken to obtain the test certificates associated with the measurement transformers for that circuit/Site.

If the Equipment Owner does not have the necessary test certificates readily available, the Equipment Owner should request copies of the original test certificates. Where these are obtained, they should then be supplied to the MOA as soon as possible after the request from the MOA.

If the required test certificates are not available, the Equipment Owner must either:

- (a) Quote errors for a measurement transformer of similar characteristics, e.g. accuracy class, ratio, burden rating, manufacturer, type, age, etc; or
- (b) Obtain measurement transformer errors by testing; or
- (c) Replace the installed units by units with known errors at the earliest opportunity.

In either of (a) or (b) above, the Equipment Owner shall provide evidence to support the errors provided. This information shall be passed to the MOA within a further period of 10 WD of the errors being established.

The MOA will, as required, provide to the TAA the information supplied by the Equipment Owner.

#### 4.3.5 Procedures for CoP3, CoP5, S3 and S5

The MOA should obtain the necessary measurement transformer error certificates from the Equipment Owner. This should be provided within 10 WD of the request.<sup>5</sup>

If the necessary error certificates are not readily available the Equipment Owner must provide the MOA, (still within the 10 WD of the request), with one of the following:

- Copies of the original certificates
- A generic certificate.

A generic certificate needs to be approved by the Panel. In order to approve a generic certificate, the Panel requires evidence that the statistical analysis method used is robust. The statistical analysis needs to be specific to ratio, make, rating, class and type.

When carrying out an audit the TAA will ask the MOA for the measurement transformer error certificates. The MOA will provide to the TAA, the information provided by the LDSO.

#### 4.4 Details of Forms for use in Technical Assurance

For the purposes of Technical Assurance the following forms can be utilised. However all exchange of information required<sup>6</sup> is encouraged through the use of the electronic online tool, as provided by the TAA:

BSCP27/01 - Notification of an Inspection Visit.

BSCP27/02 - Confirmation of Attendance at Technical Assurance Inspection Visit.

BSCP27/03 – No longer used

BSCP27/04 – No longer used

BSCP27/05 - Rectification Plan

##### 4.4.1 Notice of Inspection Visit – BSCP27/01

This form, BSCP27/01, is used by the TAA to inform the Registrant of impending Inspection Visits. It contains the date, time and Site address for the Inspection Visit. The Registrant is required to respond to this notice in a timely manner; failure to do so may result in the matter being escalated to the PAB.

##### 4.4.2 Confirmation of Attendance – BSCP27/02

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<sup>5</sup> Where the LV CTs are of accuracy class 0.5 or below the TAA will not require the MOA to obtain the CT certificates and the error shall be deemed that of the accuracy class in both directions for the purpose of establishing the overall error.

<sup>6</sup> The TAA is able to request any additional information in relation to any Metering System, and is not restricted to the Metering Systems which are being physically audited.

This form, BSCP27/02, is used by the Registrant to confirm attendance at an impending Inspection Visit and acceptance of the arrangements requested by the TAA. It is sent in response to a BSCP27/01 form. Failure to respond to this confirmation in a timely manner may be reported to the PAB.

4.4.3      Inspection Schedule for Half Hourly Metering Systems – Part 1 – BSCP27/03

No longer used.

4.4.4      Inspection Schedule for Half Hourly Metering Systems – Part 2 – BSCP27/04

No longer used.

4.4.5      Rectification Plan – BSCP27/05

This form is used by the Registrant or MOA to provide details to the TAA and/or BSCCo of the action that the party intends to take in order to rectify the non-compliance. Details of all relevant milestones should also be included.

**4.5      Forms**

Details of all forms follow below in section 4.5.1.

All forms must contain the information stipulated.

#### 4.5.1 BSCP27/01 - Notification of Inspection Visit SVA / CVA

The form must contain the following data items:

Contact Details:

- To
- From
- Email address

Date

Number of Pages (only if Faxing)

List of planned Inspection Visits with the following details:

- Date
- Time
- MSID
- Visit Ref
- Site Name / Address
- Attendees

Details that the Registrant must send or facilitate sending prior to the Inspection Visit:

- Meter Test Certificates for all listed MSIDs
- Test Certificates for all Measurement Transformers for all listed MSIDs
- Commissioning documentation
- Compensation calculations (including Transformer Losses, etc), on a circuit by circuit basis
- Metering Equipment Alarm reporting procedure
- And all other reasonable requests made by the TAA

The TAA must stipulate which areas it will require access to, e.g. Metering Equipment Room, Central Control Room, Gen Alternator Pit, Gen VT Chamber, CT / VT's, substations (this list is not exhaustive).

#### 4.5.2 BSCP27/02 - Confirmation of Attendance at Technical Assurance Visit

The form must contain the following data items:

Contact Details:

- To
- From
- Email address

Date

Number of Pages (only if Faxing)

Written confirmation of Attendance at the TAA visit

Contact details for the site (per MSID):

- MSID
- Contact
- Company
- Telephone Number
- TAA visit Reference

Attending Parties:

- Meter Operator Agent Contact
- Registrant Contact
- LDSO Contact
- Customer Contact

**4.5.3      BSCP27/03 - Not used**

**4.5.4      BSCP27/04 - Not used**

#### 4.5.5 BSCP27/05 - Rectification Plan Proforma

The form must contain the following data items:

Registrant

MOA

HHDC

LDSO

Contact Details:

- Telephone number
- Email address

MSID

TAA Site Visit Reference

Registrant Ref Number

Site Name & Address

Non Compliances - 1 rectification plan per non compliance:

- Category
- Associated Rectification Action
- Target date for completion
- Key Milestones (e.g. MTDs provided by specific date)
- Where the responsibility is for completing the action