

**Balancing and Settlement Code**

**BSC Procedure**

**Licensed Distribution  
for MHHS Metering Systems**

**BSCP705**

**v0.4**

**Date: 10 March 2023**

**BSC Procedure 705****Licensed Distribution for MHHS Metering Systems**

1. Reference is made to the Balancing and Settlement Code and, in particular, to the definition of “BSC Procedure” in Section X, Annex X-1 thereof.
2. This is BSC Procedure 705, version 0.4 relating to Licensed Distribution.
3. This BSC Procedure is effective from DD MMMM YYYY.
4. This BSC Procedure has been approved by the BSC Panel or its relevant delegated Panel Committee(s).

**Intellectual Property Rights, Copyright and Disclaimer**

The copyright and other intellectual property rights in this document are vested in Elexon or appear with the consent of the copyright owner. These materials are made available for you for the purposes of your participation in the electricity industry. If you have an interest in the electricity industry, you may view, download, copy, distribute, modify, transmit, publish, sell or create derivative works (in whatever format) from this document or in other cases use for personal academic or other non-commercial purposes. All copyright and other proprietary notices contained in the document must be retained on any copy you make.

All other rights of the copyright owner not expressly dealt with above are reserved.

No representation, warranty or guarantee is made that the information in this document is accurate or complete. While care is taken in the collection and provision of this information, Elexon Limited shall not be liable for any errors, omissions, misstatements or mistakes in any information or damages resulting from the use of this information or action taken in reliance on it.

**AMENDMENT RECORD**

<b>Version</b>	<b>Date</b>	<b>Description of Change</b>	<b>Changes Included</b>	<b>Mods/Panel/ Committee Refs.</b>
0.1	10 March 2023	First Draft	MHHS SCR	63/024
0.2	30 May 2023	Following BSC Review		
0.2	15 June 2023	Updated following consultation responses		
0.4	25 August 2023	Following CCAG Approval		

## Contents

<b>1.</b>	<b>Introduction</b>	<b>6</b>
1.1	Purpose and Scope of the Procedure	6
1.2	Main Users of Procedure and their Responsibilities	6
1.3	Use of the Procedure	6
1.4	Balancing and Settlement Code Provision	6
1.5	Associated BSC Procedures	7
1.6	Acronyms and Definitions	8
1.6.1	Acronyms	8
1.6.2	Definitions	10
<b>2.</b>	<b>Responsibilities of the LDSO</b>	<b>11</b>
2.1	System design	11
2.2	Industry Standing Data	11
2.3	Communications	11
2.4	Other requirements of the LDSO	12
<b>3.</b>	<b>Interface and Timetable Information</b>	<b>13</b>
3.1	New SVA Metering System	13
3.2	New SVA Metering System – Commissioning of Measurement Transformers	14
3.3	New CVA Metering System	15
3.4	Change of Energisation Status for a Metering System (SVA Only)	17
3.5	Disconnection of a SVA Metering System	19
3.6	Disconnection of a CVA Metering System	21
3.7	Update of the National Measurement Transformer Error Statement	22
3.7.1	Addition to the National Measurement Transformer Error Statement	22
3.8	Change of Connection Type and/or Market Segment (SVA only)	25
3.9	Demand Disconnection Events	26
3.10	Submission of the Current Transformer (CT) and/or Voltage Transformer (VT) ratios for inclusion (or removal) in the BSCCo valid set	27
3.11	Monthly TUoS (Transmission Use of System) Residual Charges Billing Report	28
3.12	Annual TUoS Residual Charges Tariff Setting Report	28
<b>4.</b>	<b>Appendices</b>	<b>29</b>
4.1	Update of the National Measurement Error Transformer Statement	29
4.1.1	CT or VT Error Data Form	29
4.2	Analysis of CT or VT Data by BSCCo.	29
4.2.1	CT Data	29
4.2.2	VT Data	29
4.3	Communication of MSIDs following Demand Disconnection Event	29
4.4	Validation of Measurement Transformer Ratios	30

<b>4.5</b>	<b>Monthly TUoS Residual Charges Billing Report</b>	<b>30</b>
<b>4.6</b>	<b>Annual TUoS Residual Charges Tariff Setting Report</b>	<b>32</b>

## **1. Introduction**

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

This BSC Procedure (BSCP) defines a number of specific processes that Licensed Distribution System Operators (LDSOs) will use in order to carry out ongoing distribution obligations required by the BSC.

It describes the obligations applicable to LDSOs in relation to industry processes, e.g. new connections, change of energisation status and disconnections of Supplier Volume Allocation (SVA) and/or Central Volume Allocation (CVA) Metering Systems.

The purpose of this BSCP is to describe the high-level requirements of LDSOs and their relationship with other market participants such as the Suppliers, Supplier Meter Registration Agents (SMRAs) and the SVA Agent.

LDSOs shall liaise with other LDSOs as required to help establish correct LLFs and Aggregation Rules details.

### **1.2 Main Users of Procedure and their Responsibilities**

This BSCP provides a central focus for licensed distribution businesses carrying out their Settlement activities. LDSOs will be required to liaise with a range of market participants in order to carry out their various Settlement obligations. As a result, this document makes reference to many other BSCPs for the full details of some of the more complex procedures that involve a number of different participants.

### **1.3 Use of the Procedure**

The remaining sections in this document are:

Section 2 – Responsibilities of the LDSO.

Section 3 – Interface and Timetable Information: this section defines each business process in detail. In addition, there may be references to specific relevant “D”, “IF” and/or “P” messages in the “Information Required” column.

Section 4 – Appendices: this section contains additional information relating to Current Transformer (CT) and Voltage Transformer (VT) data.

### **1.4 Balancing and Settlement Code Provision**

This BSCP has been produced in accordance with the provisions of the Balancing and Settlement Code (the Code). In the event of an inconsistency between the provisions of this BSCP and the Code, the provisions of the Code shall prevail.

**1.5 Associated BSC Procedures**

BSCP15	BM Unit Registration
BSCP20	Registration of Metering Systems for Central Volume Allocation
BSCP25	Registration of Transmission System Boundary Points, Grid Supply Points, GSP Groups and Distribution Systems Connection Points
BSCP41	Report Requests and Authorisation
BSCP65	Registration of Parties and Exit Procedures
BSCP68	Transfer of Registration of Metering Systems between CMRS and SMRS
BSCP75	Registration of Aggregation Rules for Volume Allocation Units
BSCP128	Production, Submission, Audit and Approval of Line Loss Factors
BSCP515	Licensed Distribution
BSCP537	Qualification Process for SVA Parties, SVA Party Agents and CVA MOAs
BSCP700	Unmetered Supplies Data Services
BSCP701	Data Retrieval and Processing for Smart Segment Metering Systems Registered in SMRS
BSCP702	Data Retrieval and Processing for Advanced Segment Metering Systems Registered in SMRS
BSCP703	Supplier Volume Allocation Agent
BSCP704	Unmetered Supplies Operations
BSCP706	Supplier Meter Registration Service

## 1.6 Acronyms and Definitions

### 1.6.1 Acronyms

The terms used in this BSCP are defined as follows.

ADS	Advanced Data Service
BSC	Balancing and Settlement Code
BSCCo	Balancing and Settlement Code Company
BSCP	BSC Procedure
CDCA	Central Data Collection Agent
CMRS	Central Meter Registration Service
CRA	Central Registration Agent
CT	Current Transformer
DCE	Demand Control Event
DDE	Demand Disconnection Event
DIP	Data Integration Platform
DS	Data Service
ISD	Industry Standing Data
LDSO	Licensed Distribution System Operator
LLF	Line Loss Factor
SVA MOA	SVA Meter Operator Agent
MDS	Market-wide Data Service
MSID	Metering System ID
NETSO	National Electricity Transmission System Operator as the holder of the Transmission Licence and any reference to "NETSO", "NGESO", "National Grid Company" or "NGC" in the Code or any Subsidiary Document shall have the same meaning
REC	Retail Energy Code
SDS	Smart Data Service
SMRA	Supplier Meter Registration Agent
SMRS	Supplier Meter Registration Service
SVA	Supplier Volume Allocation
SVAA	Supplier Volume Allocation Agent
TAA	Technical Assurance Agent
TUoS	Transmission Use of System

VT	Voltage Transformer
WD	Working Day

### 1.6.2 Definitions

Full definitions of the above acronyms are, where appropriate, included in the BSC.

Contracted LDSO	The LDSO who has the obligation to provide the SMRS service to the Registrant of the Metering System.
Nominated LDSO	The LDSO who has obligations to submit the GSP Group Metered Volume Aggregation Rules.
National Measurement Transformer Error Statement	A list of Current Transformer and Voltage Transformer types which have been approved as an agreed list of national Generic Measurement Transformer Errors. This list can be used by the TAA to replace the Measurement Transformer Test Certificate where no Measurement Transformer Test Certificate exists.

## 2. Responsibilities of the LDSO

### 2.1 System design

- The LDSO should, where possible, build in the ability to configure the settlement period duration during their solution design, in order to support any future move to a different settlement period duration.

### 2.2 Industry Standing Data

- The LDSO must obtain Industry Standing Data (ISD) update notifications via IF-047/PUB-047 (Notification of the Publication of a Downloadable Asset), and if required take necessary steps to obtain refreshed ISD data, maintain their records accordingly and reference/ utilise ISD as appropriate as part of the service delivery.

### 2.3 Communications

- The LDSO must process data and share outputs with other parties in line with timescales set out in this document.
- The LDSO must utilise Industry Standing Data to identify the relevant DIP (Data Integration Platform) ID/Role or DTN Market Participant ID/Role, as appropriate, to be used when communicating over the DIP/DTN.
- The LDSO must undergo qualification in order to realise operational access to the DIP.
- The LDSO must derive and populate the DIP addressing (primary recipients) for all outbound interfaces in line with the rules described in the interface specification.
- The LDSO must obtain DIP error messages in line with the End to End Solution Architecture Document, review the impacted data and re-issue corrected messages/transactions as required.
- The LDSO must return DIP error messages in line with the End to End Solution Architecture. Unexpected and/or un-processable messages should be returned to the DIP/ originating party.
- The LDSO, when transacting via the DIP, must ensure that they implement monitoring so as to identify where expected responses are not received within standard DIP SLA's, as outlined in the Operational Choreography, so that the appropriate investigative/ resolution activity can be undertaken.
- The LDSO must have familiarity with and actively monitor any DIP tools for tracking messages, as outlined in the End to End Solution Architecture, so that the necessary investigative action can be taken when required.
- The LDSO must provide and receive reports in line with agreed reporting requirements and delivery method as outlined in MHHSP-ERI011B ECS reports and interfaces

## 2.4 Other requirements of the LDSO

- The LDSO, where required by the Supplier, must be able to identify (using the appropriate interface) and appropriately manage Related MSIDs as described in the Retail Energy Code.
- The LDSO should implement data validation steps and techniques that they feel are appropriate to ensure the most accurate and efficient delivery of the service.
- The LDSO must maintain and update their records with any data received on interfaces to ensure the most accurate and efficient delivery of the service.

### 3. Interface and Timetable Information

#### 3.1 New SVA Metering System

The establishment of a new SVA Metering System may arise as a result of a number of circumstances including the following:

- New connection to be registered in SMRS;
- New connection for a Metering System associated with an Exemptable Generating Plant where the Export Meter(s) is registered in CMRS (the procedure for this process is set out in BSCP706); and
- Transfer of Metering System registration from CMRS to SMRS (the procedure for this process is set out in BSCP68).

The procedures to be followed by the LDSO differ depending on the circumstances. In all cases, however, LDSOs should consider whether any changes are required to LLFs, DUoS Tariff IDs, and/or other ISD entities as a result of new SVA Metering System. For the Commissioning of new or replacement measurement transformers, go to section 3.2.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.1	Within 2WD of completion of works associated with a new connection, or LDSO's agreement with Supplier to register a new MSID.	Notify new MSID data.	LDSO.	SMRA.	LDSO Mastered Registration Data	Electronic or other method, as agreed.
3.1.2	Following validation of new metering details, as per BSCP706	Notify new metering/ registration data	SMRA.	LDSO.		Internal Process
3.1.3	In parallel with 3.1.2	Notify cumulative meter reads	SVA MOA.	LDSO.	IF-041/PUB-041 Smart/Advanced Readings	DIP Interface

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.4	As specified in the REC, after installation by SVA MOA.	Provide Meter Technical Details.	SVA MOA.	LDSO.	D0010 Meter Readings AND D0149 Notification of Mapping Details, D0150 Non Half-hourly Meter Technical Details (Traditional Meters) OR D0268 Half Hourly Meter Technical Details (Advanced Meters)	Electronic or other method, as agreed.

### 3.2 New SVA Metering System – Commissioning of Measurement Transformers

Commissioning shall be performed on all new Metering Equipment which is to provide Metering data for Settlement. Should the Measurement Transformers be owned by the LDSO then Commissioning procedures need to be followed in accordance with the appropriate Codes of Practice and Code of Practice 4 and the Retail Energy Code (REC).

If the Measurement Transformers are not owned by a LDSO then SVA MOA Commissioning will take place on the Measurement Transformers in accordance with the REC.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.1	At the earliest opportunity but no later than 16 WD after energisation (if LDSO energises) or 16 WD after receipt of the IF-008/PUB-008 from SMRS (if SVA MOA energises)	Commission Measurement Transformers in accordance with Code of Practice 4.	LDSO			Internal Process.
3.2.2	At the earliest opportunity but no later than 21 WD after energisation (if LDSO energises) or 21 WD after receipt of the IF-08/PUB-008 from SMRS (if SVA MOA energises)	Send complete Commissioning information for the Measurement Transformers to the SVA MOA.	LDSO	SVA MOA	D0383 Notification of Commissioning Information	Electronic or other method, as agreed.

### 3.3 New CVA Metering System

Refer to [Appendix 4](#) for further details regarding the LDSO's role in submitting CVA data into Settlement following a new connection.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.1	Following request or for any other reason.	Establish new connection in accordance with the relevant connection agreement.	LDSO.			Internal Process.
3.3.2	If required, a) at least 20WD before Registration Effective From Date of new connection, or b) at least 40WD before Registration Effective From Date of new connection if new LLFs are intended to be effective from that date.	Register new Systems Connection Point or Boundary Point in accordance with BSCP25.	LDSO. <sup>1</sup>	CRA.	BSCP25 Registration of Metering Systems for Central Volume Allocation.	BSCP25
3.3.3	At least 20WD before Registration Effective From Date of Metering System. <sup>2</sup>	Register new Metering System with CRA in accordance with BSCP20.	Registrant.	CRA.	BSCP20 Registration of Metering Systems for Central Volume Allocation.	BSCP20.

<sup>1</sup> The registration of a Distribution Systems Connection Point will require the consent of the other interested distributor, as detailed in BSCP20.

<sup>2</sup> A registration lead time of 40WD will be required if the LLFs submitted by the LDSO in step 3.4.7 are intended to become effective on and from the Metering System Effective From Date. Where this is not the case the Metering System registration lead time is 20WD as stated in BSCP20.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.4	At least 30WD prior to BM Unit Effective From Date.	Register BM Unit with CRA in accordance with BSCP15.	BM Unit Lead Party.	CRA.	BSCP15 BM Unit Registration.	BSCP15.
3.3.5	Following 3.3.4.	Notify LDSO of BM Unit registration where BM Unit is embedded within a Distribution System.	CRA.	LDSO.	BM Unit information including Effective From Date.	Fax/Email/Letter.
3.3.6.	At any time but at least prior to 3.3.7 and 3.3.8.	Liaise with other LDSOs in GSP Group to ascertain LLFs. <sup>3</sup>	LDSO.	Other LDSOs.	GSP Group ID, Line Loss Factors, other relevant Distribution System information.	Fax/Email/Letter.
3.3.7	Following 3.3.6 and at least 40WD prior to LLF Effective Date. <sup>4</sup>	Submit LLFs to BSCCo for Panel approval in accordance with BSCP128.	LDSO.	BSCCo.	BSCP128 Production, Submission, Audit and Approval of Line Loss Factors.	BSCP128.
3.3.8	At least 20WD prior to Aggregation Rules effective date.	Submit new Aggregation Rules for each Volume Allocation Unit for which the LDSO is responsible as detailed in BSCP75.	LDSO.	CDCA.	BSCP75 Registration of Meter Aggregation Rules for Volume Allocation Units.	BSCP75.
3.3.9	Prior to the Effective Date of the Aggregation Rules and as part of 3.3.8	Provide a copy of the GSP Group Take Aggregation Rules to the LDSO	CDCA.	Nominated LDSO.	GSP Group Take Aggregation Rules from CDCA-I048	Fax/Email/Letter.
3.3.10	Following receipt of 3.3.9	Check revised Aggregation rules for GSP Group.	Nominated LDSO.		GSP Group Metered Volume and GSP Group Take Aggregation Rules.	Internal Process

<sup>3</sup> If required, the LDSO may make a formal request to BSCCo via BSCP41 (Report Requests and Authorisations) to receive other LDSOs' reports on an ongoing basis in order to monitor future changes that may require revisions to LLFs and Aggregation Rules.

<sup>4</sup> The lead time for LLF approval may be reduced at the discretion of BSCCo in accordance with BSCP128.

### 3.4 Change of Energisation Status for a Metering System (SVA Only)<sup>5</sup>

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.4.1 [step 10]	Once Supplier establishes that an LDSO needs to change an energisation status	Request energisation status change	Supplier	LDSO	D0134 Request to Change Energisation Status	Electronic or other method, as agreed.
3.4.2 [step 15]	On the date requested by Supplier	Manage Request for Energisation Status Change	LDSO			Internal Process
3.4.3 [step 20]	Within 5WD of 3.4.2	Notify MOA of acceptance or rejection, providing readings if required	LDSO	MOA	D0139 Confirmation or Rejection of Energisation Status Change  or  D0179 Confirmation of Energisation/De-Energisation of Prepayment Meter	Electronic or other method, as agreed.
3.4.4 [step 145]	On receipt of register reads relating to change of energisation or by 5WD, of Change of Energisation Status, where no readings are provided.	Send readings to Supplier and LDSO  Where required the Data Service must generate an estimated reading(s) for the Date of the Change of Energisation Status.	MOA and ADS or SDS	LDSO  Supplier	IF-041/PUB-041 Smart/Advanced Readings  D0010 Meter Readings (Traditional and Advanced Meters)	DIP Interface  Electronic or other method, as agreed.

<sup>5</sup> Note that energisation of CVA Metering Systems only occurs as part of the connection process described in section 3.3.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.4.5 [step 115]	After energisation status change accepted in SMRS	Notify parties	SMRA	Data Service BSC Central Services LDSO Supplier	IF-008/PUB-008 Registration Service Notification of Change of Energisation Status	DIP Interface

### 3.5 Disconnection of a SVA Metering System

SVA disconnections are carried out under the following scenarios:

- Supplier led, where the customer seeks a disconnection from the Supplier; and
- LDSO led, where the customer seeks a disconnection from the LDSO, or the LDSO needs to disconnect at short notice, for example as a result of an emergency.
- In both cases, it may be necessary for the LDSO to de-energise the Metering System; and/or with agreement with the Supplier, remove the assets. If this is the case, then de-energisation should be carried out in accordance with Section 3.4 Change of Energisation Status of a Metering System (SVA Only) and the REC; and removal of Meters in accordance with the REC.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.5.1 [Step 30 / 55]	Where disconnection initiated by LDSO or Customer (UMS only)	Instruct UMSO	LDSO	UMSO		Electronic or other method, as agreed.
Supplier led disconnections only						
3.5.2 [Step 59]	At request of Supplier, or as required.	Supplier requests disconnection of Metering System.	Supplier	LDSO	D0132 Request for Disconnection of Supply	Electronic or other method, as agreed.
3.5.3 [Step 75]	If request rejected.	Notify Supplier of rejection of disconnection request.	LDSO	Supplier	D0262 Rejection of Disconnection	Electronic or other method, as agreed.
For all disconnections except UMS						
3.5.4	Where LDSO initiates disconnection or when requested by Supplier (where request is accepted)	Disconnect Meter Point	LDSO			Internal Process

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.5.5 [Step 40]	On disconnection of a Metering System	Notify SMRA of disconnection of Metering System	LDSO	SMRA		Internal Process
3.5.6 [Step 70]	Following 3.5.5	Update records and publish disconnection	SMRA	LDSO Supplier	IF-009/PUB-009 Notification of LDSO Disconnection/CSS De- Registration	DIP Interface
3.5.7 [Step 136]	Following Registration Deactivation	Receive De-Activation Notification	SMRA	LDSO	IF-009/PUB-009 Notification of LDSO Disconnection/CSS De- Registration	DIP Interface
3.5.8 [Step 156]	Following SMRA initiation of Service De-Appointments	Receive Registration Data update	SMRA	LDSO	IF-037/PUB-037 Registration Service Notification of Service De-Appointment	DIP Interface

### 3.6 Disconnection of a CVA Metering System

Note that disconnection of CVA Metering Systems is only allowed under limited circumstances.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.6.1	As required.	Registrant requests disconnection of Metering System.	Registrant.	LDSO.	Disconnection details.	Fax/Email/Letter.
3.6.2	If request rejected.	Notify Registrant of rejection of disconnection request.	LDSO.	Registrant.	Disconnection details and reasons for rejection.	Fax/Email/Letter.
3.6.3	If request accepted.	Disconnect Metering System.	LDSO.		Disconnection Details.	Internal Process.
3.6.4	Following 3.8.3	Provide certificate of disconnection.	LDSO.	Registrant.	Certificate of disconnection.	Letter.
3.6.5	Following 3.8.3.	De-register Metering System in CRA in accordance with BSCP20	Registrant.	CRA.	BSCP20 Registration of Metering Systems for Central Volume Allocation.	BSCP20.
3.6.6	If required and following disconnection.	Submit revised Aggregation Rules for each Volume Allocation Unit for which the LDSO is responsible as detailed in BSCP75.	LDSO.	CDCA.	BSCP75 Registration of Meter Aggregation Rules for Volume Allocation Units.	BSCP75.
3.6.7	Prior to the Effective Date of the Aggregation Rules and as part of 3.8.6.	Provide a copy of the GSP Group Take Aggregation Rules to the LDSO.	CDCA.	Nominated LDSO.	GSP Group Take Aggregation Rules from CDCA-I048.	Fax/Email/Letter.
3.6.8	Following receipt of 3.8.7.	Check revised GSP Group Take Aggregation rules.	Nominated LDSO.		GSP Group Metered Volume and GSP Group Take Aggregation Rules.	Internal Process

### 3.7 Update of the National Measurement Transformer Error Statement<sup>6</sup>

The National Measurement Transformer Statement is a record of the average errors attributable to specific Measurement Transformer types based on sample data. It is to be used where it is not possible to obtain the actual errors for Measurement Transformers for SVA Metering Systems complying with Codes of Practice 3 and 5.

#### 3.7.1 Addition to the National Measurement Transformer Error Statement

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.1.1	As required.	Submit a minimum sample of 50 CT or 10 VT errors obtained from test records supplied from (i) accredited sources or from (ii) other sources which have been suitably investigated to establish the reliability of the test records.	LDSO	BSCCo	Details of: Equipment Type (HV CT / LV CT / VT) Ratio (Tested) Manufacturer Class Rating (VA) Test Point (Load percentage) Ratio Error and Phase Angle Error at Rated Burden and Test Burden  The spreadsheet form contained in Appendix 4.1.1 shall be used for the submission of this data.	Email Spreadsheet
3.7.1.2	Within 20WD of 3.10.1.1	Analyse Data and prepare report. If data conforms to 4.2 and Panel approval is not required, proceed to 3.10.1.4	BSCCo.		See Appendix 4.2 Go to 3.10.1.4 if panel approval not required.	Internal Process

<sup>6</sup> The National Measurement Transformer Error Statement may be used for the purpose of Technical Assurance where individual measurement transformer errors are not available. This process is designed to amend the data contained in the statement.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.1.3	At Panel Meeting (if Panel approval required)	Review report and approve or reject submission. Inform BSCCo of decision.	Panel	BSCCo	Report and Recommendations	Internal Process
3.7.1.4	Within 5WD of 3.10.1.2 or 3.10.1.4	Notify LDSO whether the CT or VT data has been approved	BSCCo.	LDSO	Panel Decision	Fax/Email/Letter.
3.7.1.5	At the same time as 3.10.1.4 (if approved)	Update the National Measurement Transformer Error Statement	BSCCo.			Internal Process
3.7.1.6	At the same time as 3.10.1.5	Notify SVA TAA of new generic CT / VT errors	BSCCo.	SVA TAA		Fax/Email/Letter.

### 3.7.2 Removal of Data from the National Measurement Transformer Error Statement

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.2.1	As required.	Request that data is removed from the National Measurement Transformer Error Statement stating reason for the removal.	LDSO / SVA TAA	BSCCo.	Equipment Type Ratio Manufacturer Class Rating / VA Explanation of why the CT or VT should be removed from the National Measurement Transformer Error Statement	Fax/Email/Letter.
3.7.2.2	Within 10WD of 3.10.2.1	Validate the request and assess the impact. Analyse Data and prepare a report and recommendations to the Panel	BSCCo.	Panel		Internal Process
3.7.2.3	At Panel meeting	Review report and approve or reject submission. Inform BSCCo of decision.	Panel	BSCCo	Report and Recommendations	Internal Process
3.7.2.4	Within 5WD of 3.10.2.2	Notify of whether the request to remove the CT or VT has been successful.	BSCCo.	LDSO / SVA TAA		Fax/Email/Letter.
3.7.2.5	If the request has been successful and within 5WD of 3.10.2.3	Update National Measurement Transformer Error Statement.	BSCCo.			Internal Process
3.7.2.6	At the same time as 3.10.2.4	Notify the SVA TAA of CT / VT removal.	BSCCo.	SVA TAA		Fax/Email/Letter.

### 3.8 Change of Connection Type and/or Market Segment (SVA only)

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.8.1 [Step 10]	As required	Notify LDSO of required change to Connection Type	Supplier or Customer	LDSO.	Details of the work required and proposed date	Electronic or other method, as agreed.
3.8.2 [Step 25 & 205]	Within 5 WD of 3.8.1	Validate Supplier's request and action Connection Type change	LDSO			Internal process
3.8.3 [step 205 & 60]	On date requested by Supplier	Complete On-site works	LDSO			Internal Process
3.8.4 [Step 220]	Within 2WD, Following 3.8.3	Update Registration Service	LDSO	SMRA		Internal Process
3.8.5 [Step 80]	In parallel with 3.8.4 (for all CT connections)	Issue commissioning flows	LDSO	SVA MOA	D0383 Notification of Commissioning Information	Electronic or other method, as agreed.
3.8.6 [Step 225]	On completion of 3.8.4	Issue Connection Type Change	SMRA	Supplier	IF-043/PUB-043 Registration Service Notification of Change of Connection Type	DIP Interface

### 3.9 Demand Disconnection Events

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.9.1	Within 5 WD of a Demand Disconnection Event instructed by ESO	Send list of impacted MSIDs and associated Supplier MPIDs	LDSO	BSC Central Services	P0238	Email or other method, as agreed.

### 3.10 Submission of the Current Transformer (CT) and/or Voltage Transformer (VT) ratios for inclusion (or removal) in the BSCCo valid set<sup>7</sup>

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.10.1	As required	Submit CT or VT ratio	LDSO	BSCCo	CT and/or VT ratios	Email <sup>8</sup>
3.10.2	Within 2 WDs of 3.10.1	Confirm receipt of submitted ratios	BSCCo	LDSO		Email
3.10.3	Within 5 WDs of 3.10.1	Review ratios and approve or reject submission.	BSCCo			Internal Process
3.10.4	Within 2 WDs of 3.10.3	Notify LDSO whether the CT or VT data has been approved	BSCCo	LDSO		Email
3.10.5	Within 2 WDs of 3.10.4	Send global notification that a new CT or VT ratio has been approved for addition/removal from the valid set.	BSCCo			Circular
3.10.6	10 WD following 3.10.5	Update and publish valid set	BSCCo		CT and/or VT ratios	Internal Process <sup>9</sup>

<sup>7</sup> This valid set refers to EMDS data item(s) J0454 (CT Ratio) and J0455 (VT Ratio) however the valid set will be managed by BSCCo.

<sup>8</sup> LDSOs should email [metering@elexon.co.uk](mailto:metering@elexon.co.uk) with the measurement transformer ratios with which they wish Elexon to update the valid set with.

<sup>9</sup> The valid set will be published on the BSCCo website ([www.elexonportal.co.uk](http://www.elexonportal.co.uk)).

### 3.11 Monthly TUoS (Transmission Use of System) Residual Charges Billing Report

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.11.1	Within 5 WD of receiving either the D0030 'Aggregated DUoS Report' data flow or the MHHS-REP-002 report as part of the Initial Volume Allocation Run (SF) for the last day of a calendar month	Each Licensed Distribution System Operator (LDSO) must send the TUoS Residual Charges Billing Report	LDSO	NETSO	P0321	SFTP or by other electronic means as may be agreed

### 3.12 Annual TUoS Residual Charges Tariff Setting Report

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.12.1	Each year, within 5 WD of receiving either the D0030 'Aggregated DUoS Report' data flow or the MHHS-REP-002 report sent as part of the Initial Volume Allocation Run (SF) for the last day of September	Each Licensed Distribution System Operator (LDSO) must send the TUoS Residual Charges Tariff Setting Report	LDSO	NETSO	P0322	SFTP or by other electronic means as may be agreed

## **4. Appendices**

### **4.1 Update of the National Measurement Transformer Error Statement**

#### 4.1.1 CT or VT Error Data Form

This document is contained in file reference BSCP705\_APPX041

Title 'Form for the submission of CT or VT Error data for addition to the National Measurement Transformer Error Statement'

### **4.2 Analysis of CT or VT Data by BSCCo.**

#### 4.2.1 CT Data

BSCCo will firstly look at the ratio error compared to the class of the CT sample for all Test Point and Burdens. If, for each Test Point and Burden, a minimum of 98% of the sample is within the class accuracy, then BSCCo may approve the CT type. For any set of CT data which does not meet these requirements and where the applicant wishes to proceed, BSCCo will undertake further analysis of the data and present the results of this further analysis to the Panel for approval.

#### 4.2.2 VT Data

BSCCo will firstly look at the ratio error compared to the class of the VT sample for all Test Point and Burdens. If, for each Test Point and Burden, a minimum of 98% of the sample is within the class accuracy, then BSCCo may approve the VT type. For any set of VT data which does not meet these requirements and where the applicant wishes to proceed, BSCCo will undertake further analysis of the data and present the results of this further analysis to the Panel for approval.

### **4.3 Communication of MSIDs following Demand Disconnection Event**

4.3.1 Whilst the P0238 is sent by the LDSO to the BSC Central Services, it should be generated as though it is to be sent direct to Party Agents, i.e. the 'MPID To' in the header should reflect the various agents that are intended to receive the file.

4.3.2 The Demand Control Event ID (DCE ID) is originally determined by the National Electricity Transmission System Operator (NETSO), who uses it in its correspondence with the LDSO and SVAA. The LDSO should therefore use the DCE ID reported to it by the NETSO when compiling and sending a P0238 to Party Agents.

4.3.3 The 'Start Date and Time' and 'End Date and Time' in the P0238 reflect the start and end of the entire Demand Control Event, not intermediary stages or actions within an event. Therefore, the LDSO should report all MSIDs affected by the same event once between the Start and End Date and Time that represent the beginning and end of the whole event, irrespective of whether the LDSO disconnects and reconnects MSIDs multiple times within the same event.

4.3.4 LDSOs should aim for a single, correct P0238 submission. However, should there be an error in the original file, then LDSOs may submit a revised version which should overwrite the previous version and then be circulated. The LDSO should reuse the original Demand Control Event ID when sending an updated P0238.

#### 4.4 Validation of Measurement Transformer Ratios

- 4.4.1 Where Meter Technical Details include the population of data items ‘J0454 – CT Ratio’ and/or ‘J0455 - VT Ratio’ then the populated value must conform to the valid set held on the Elexon Portal (<https://www.elexonportal.co.uk/>). Changes made to the valid set become live as soon as they are published by BSCCo, and the values can be used for retrospective dates.
- 4.4.2 Where a LDSO receives a value that is invalid (missing from the valid set) it should set the value to ‘unknown’ and contact the sender for resolution and Elexon if an update to the Valid Set is required.

#### 4.5 Monthly TUoS Residual Charges Billing Report

- 4.5.1 Within 5 WD of receiving either the D0030 'Aggregated DUoS Report' data flow or the MHHS-REP-002 report, in relation to each Distributor ID, sent as part of the Initial Volume Allocation Run (VAR) (SF) for the last day of a calendar month, each Licensed Distribution System Operator (LDSO) must send the TUoS Residual Charges Billing Report. The report should provide a count of energised Final Demand Sites for Charging Bands (except ‘UMS’) and a sum of gross energised Imports<sup>10</sup> (for ‘UMS’ Charging Band only) which are reported by Distributor ID, GSP Group, Settlement Date, Settlement Run Type, Registrant ID and Charging Band.
- 4.5.2 Each report will cover all Settlement Dates in the most recent calendar month subject to the relevant Initial Volume Allocation Run (SF). It must also include the most up to date site counts and UMS Import data for each Settlement Date of a calendar month(s) where the last day of the calendar month(s) was the subject of a Reconciliation Volume Allocation Run since the last time the LDSO generated a TUoS Residual Charges Billing Report. LDSOs should not report the difference between data at the most recent VAR and the preceding VAR. Nor should LDSOs report a nil or null value if there has been no change.
- 4.5.3 If an LDSO does not receive either a D0030 or MHHS-REP-002 report containing SF data for the last day of a calendar month by the time it receives a D0030/MHHS-REP-002 containing SF data for the last day of the next calendar month, then it does not need to report in accordance with this requirement for the calendar month for which a D0030/MHHS-REP-002 was not received. This does not absolve the LDSO of its responsibility to report updated data if this is available.
- 4.5.4 LDSOs must attribute Site Counts and UMS Imports to a BSC Registrant, either using the Party’s Supplier ID where sites’ Metering Systems are registered for SVA or the Party’s BSC Party ID where the sites’ Metering Systems are registered for CVA. LDSOs may use existing Settlement data flows defined in the Data Transfer Catalogue (e.g. the D0030) and the Interface Definition Document (e.g. CDCA-I012, CDCA-I014 and CRA-I014) to determine how to attribute site counts and Imports to the correct BSC Party.
- 4.5.5 Data will be mapped to Charging Bands, as specified in each LDSO’s Relevant Charging Statement (as defined in the Distribution Connection and Use of System

---

<sup>10</sup> For the purposes of the TUoS Residual Charges Billing Report gross Imports are not (GSP Group) corrected nor loss adjusted.

Agreement). When reporting the Charging Bands, LDSOs will use a valid set as follows<sup>11</sup>:

- Dom – Domestic
- LVN1 – LV No MIC band 1
- LVN2 – LV No MIC band 2
- LVN3 – LV No MIC band 3
- LVN4 – LV No MIC band 4
- LV1 – LV MIC band 1
- LV2 – LV MIC band 2
- LV3 – LV MIC band 3
- LV4 – LV MIC band 4
- HV1 – HV band 1
- HV2 – HV band 2
- HV3 – HV band 3
- HV4 – HV band 4
- EHV1 – EHV band 1
- EHV2 – EHV band 2
- EHV3 – EHV band 3
- EHV4 – EHV band 4
- UMS – Unmetered Supplies

4.5.6 Where an LDSO has more than one Distributor ID (MPID), then the LDSO must report data disaggregated by each Distributor ID in its report to the NETSO.

4.5.7 When providing UMS consumption data, LDSOs will attribute this to the distinct UMS Charging Band. Note that this is a charging band defined for the purpose of this process, which is otherwise not defined by the DCUSA. All LDSOs will use the same UMS charging band ID ,‘UMS’.

4.5.8 LDSOs must retain data, provided to the NETSO, for a minimum of 14 months from the provision of this data to the NETSO.

4.5.9 This report is sent using the CSV file format specified in the SVA Data Catalogue.

---

<sup>11</sup> This valid set is subject to change and is dependent on the Charging Bands defined in each LDSO’s Relevant Charging Statement.

#### **4.6 Annual TUoS Residual Charges Tariff Setting Report**

- 4.6.1 Each year, within 5 WD of receiving either the D0030 'Aggregated DUoS Report' data flow or the MHHS-REP-002 report sent as part of the Initial Volume Allocation Run (SF) for the last day of September, LDSOs must send the NETSO a report containing the sum of the last twelve months' actual metered Imports<sup>12</sup> (MWh) to Final Demand Sites connected to the LDSO's Distribution System (excluding UMS), which are measured by Metering Systems registered for CVA or SVA, by each combination of Charging Band, Distributor ID and GSP Group.
- 4.6.2 The twelve month period to be reported must be the period running from 1 October to 30 September inclusive.
- 4.6.3 LDSOs must use Imports based on the most recent VAR available at the time of producing the report and exclude exports, i.e. it must not provide a net value of imports by subtracting exports.
- 4.6.4 This report is sent using a CSV file format specified in the SVA Data Catalogue.

---

<sup>12</sup> For the purposes of the TUoS Residual Charges Tariff Setting Report gross Imports are not (GSP Group) corrected nor loss adjusted