# ELEXON

## BSC AUDIT SCOPE 2022/23

March 2022

**Public** 

Document owner

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Document number

Version 1.0

Date

31 March 2022

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## Direction for the Balancing and Settlement Code (BSC) Audit

#### Risk Operating Plan 2022/23 alignment

The Risk Operating Plan (ROP) has identified six Risk areas likely to impact Settlement during the 2022/23 Performance Assurance Operating Period (PAOP), and has determined that three of these areas will have greater focus, these are:

- 1. Post-COVID-19 pandemic market recovery
- 2. Processes associated with Supplier of Last Resort (SoLR) events
- 3. Providing additional Performance Assurance within the Central Volume Allocation (CVA) Market

The ROP further identified the most impactful Risks associated with these Risk areas for focus in 2022/23. The impact and rationale of each Focus Risk and the Risk Operating Plan for each focus Risk area are listed within PAB254/04 – Risk Operating Plan 2022\_23 (Public).

Elexon and the Performance Assurance Board (PAB) wish to ensure that assurance activities strike the right balance of effective control and monitoring of performance within the market, whilst recognising and responding to the pressures and unprecedented challenges in the current environment.

The Risk Operating Plan (ROP) for the Performance Assurance Operating Period (PAOP) 2022/23 outlines three focus areas:

ROP Focus	BSC Audit Considerations	Recommended action	Focus Risks
Supporting the recovery of the market, following the COVID-19 pandemic	Retrieval rates from properties are likely to remain impacted by COVID-19 lockdowns and other restrictions for some time, the focus should be on ensuring that all processes that impact on the quality of retrieved data are as effective and efficient as possible, to maximise the quality of the data received.	Processes that were put under unique stress during COVID-19 lockdown will continue to be investigated, such as the Disaster Recovery process, effectiveness of remote working and implementation of changes to policies will be reviewed. Work Papers will be updated to include controls based questions where not currently present.	03, 05, 07
Provide improved Performance Assurance within the Central Volume Allocation (CVA) Market	To improve the overall availability and visibility of Performance Assurance data within the CVA Market	The Audit Report will continue to provide additional information and focus on CVA Meter Operation Agent (MOAs), CVA Registrants and Central Systems Risks	19, 20, 21, 22, 23
Rising energy prices resulting in an increased number of SoLR events	A new SoLR Workpaper was developed for use in the 2021/22 PAOP, and deployed against relevant Suppliers.	The results of the SoLR Workpaper Audit in 2021/22 will be utilised to develop further testing and will be deployed against further relevant Suppliers.	04, 05, 08, 10, 14, 17

In each of the three focus areas, Elexon have selected the most impactful Risks for focus in 2022/23, based on:

- The Risks that are most likely to affect the operations of BSC Parties and Party Agents as reported in the ROP Assurance Survey; and
- The materiality of each affected Risk.

In addition to the areas of testing identified by the ROP, the frequency and triggers for certain BSC Audit testing will remain as follows:

- Testing of standard systems will only occur where a change to the system has been made; and
- Processes will only be tested where there has been at least one instance of this process being operated within the audit period.

Sections that are greyed out indicate that these areas will not be covered in the 2022/23 except at Parties that have material issues raised against those areas.

#### **Additional Considerations**

#### **Data Quality**

On all testing the BSC Auditor carries out the following:

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- A test of design (i.e. the process and controls);
- A test of implementation (a walkthrough of 1 to see if the controls are operated as described);
- A test of effectiveness (sample testing) for all Full and Targeted Scope Audits to ensure that the control/ process is working correctly (i.e. all the time);
- For particular tests, full population testing through DTN scripts is carried out, 'potential exceptions' are then validated with parties; and
- A test directly comparing internal records vs content of data flows at each agent role. These check what is in
  the system, trace it back to the inbound data flows and then check the outbound data flows to check if that
  matches what's in the system. Once the Auditor has comfort over the overall controls (as described in the
  above) the Auditor gains comfort that the flows that are generated would be pulled from the information within
  the system (unless manually created).

Issues can be raised at any one of these stages and, to ensure the quality and accuracy of the data in Data Transfer Network (DTN) flows, additional questions are included for all Performance Assurance Party testing, focusing particularly on controls.

#### The Retail Energy Code (REC)

The REC 2.0 was implemented on 1 September 2021 and resulted in the Metering obligations which had been contained in BSCP514<sup>1</sup> being transferred to the REC.

A transition period was agreed with the REC, Elexon and Ofgem, which extended until the end of September 2022 after which (with the exception of Technical Assurance Agent (TAA) activities) Elexon will no longer undertake assurance activities in relation to Supplier Volume Allocation (SVA) Meter Operator Agents (MOA) (under the BSC) and Meter Equipment Mangers (MEM) (under the REC). BSC Audit Issues relating to SVA Meter Operator Agents raised during the 2021/22 PAOP will be transferred to the REC.

Whilst the potential impact to Settlement accuracy remains with the governance change to the REC, the ability for Elexon and the PAB to take action in relation to a Settlement Risk is limited to Performance Assurance Parties (PAPs) and BSC obligations.

#### **Materiality Threshold**

The BSC Auditor will 'Qualify' its audit Opinion for the ISAE3000 CVA MOA and Central Systems Audit if it cannot provide reasonable assurance that the total level of error in Settlement is less than the materiality threshold.

The materiality threshold for the BSC Audit for 2022/23 will be 1.2TWh, which represents approximately 0.5% of the total annual electricity supplied across Great Britain in 2021.

#### Reporting

Unless otherwise agreed with the BSC Panel, the BSC Audit Report for 2022/23 will be presented to the Panel in June 2023.

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<sup>&</sup>lt;sup>1</sup> SVA Meter Operations for Metering Systems Registered in SMRS

### Scope of the BSC Audit

This section details the scope of the BSC Audit and terms of reference for the BSC Auditor for 1 April 2022 to 31 March 2023.

The scope of the BSC Audit for 2022/23 will include the functions and processes described below, split into the SVA Process Assessment, and CVA ISAE3000 Opinion Audit.

#### Supplier Volume Allocation (SVA) Process Assessment - Settlement Risks and Testing

#### 1. Risk 001 - SVA Registration

- 1.1 The risk that a Metering Point is registered incorrectly or not at all, such that metered data is not collected or aggregated resulting in erroneous, estimated or missing data in Settlement
- 1.2 BSC Audit testing for Settlement Risk 001 includes:

Role	SVA Work Papers
Supplier Meter Registration Agent (SMRA)	Processing of standing data changes received from Suppliers and Licenced Distribution System Operator (LDSO) Validity of standing data Processing of Objections and Objection Removal (on Change of Supply) Processing of retrospective amendments Resolution of D0023 2 rejections
Supplier	Processes and controls operated by a Supplier to ensure key processes are operating
	Updates of Registration Details

#### 2. Risk 002 - SVA Attributes

- 2.1 The risk that SVA Metering System attributes held in the Supplier Meter Registration Service (SMRS) or by any party in the Supplier Hub are incorrect resulting in erroneous or estimated data in Settlement.
- 2.2 BSC Audit testing for Settlement Risk 002 includes:

Role	SVA Work Papers
SMRA	Processing of standing data changes received from Suppliers and LDSO Validity of standing data Processing of SMRS Refresh Requests Processing of retrospective amendments
	Resolution of D0023 <sup>1</sup> rejections
Supplier	Processes and controls operated by a Supplier to ensure key processes are operating
	Processing of data flows - backlogs
HHDC	Dual Supply traded MPANs

#### 3. Risk 003 – SVA Metering Equipment installation, programming, maintenance and commissioning

- 3.1 The risk that SVA Metering Equipment is installed, programmed or maintained incorrectly where commissioning is performed incorrectly or not at all resulting in erroneous or estimated data in Settlement
- 3.2 BSC Audit testing for Settlement Risk 003 includes:

Role	SVA Work Papers
LDSO	Commissioning
HHDC	Performance of proving test on request by MOA

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<sup>&</sup>lt;sup>2</sup> D0023 - Failed Instructions (https://www.electralink.co.uk/dtc-catalogue/)

- 4. Risk 004 SVA Notification of change to Metering Equipment
- 4.1 The risk that Changes to Metering Equipment are not notified, such that all members of the Supplier Hub do not use the correct Meter Technical Details resulting in erroneous or estimated data in Settlement
- 4.2 BSC Audit testing for Settlement Risk 004 includes:

Role	SVA Work Papers
Half Hourly Data Collector (HHDC)	Processing of standing data changes received from Supplier and MOA
LDSO	Completeness of provision of site technical details
Non Half Hourly Data Collector (NHHDC)	Processing of standing data changes received from Suppliers and MOA

#### Risk 005 – SVA Fault resolution

- 5.1 The risk that a fault with SVA Metering Equipment is not resolved, such that metered data is recorded incorrectly or cannot be retrieved resulting in erroneous or estimated data in Settlement.
- 5.2 BSC Audit testing for Settlement Risk 005 includes:

Role	SVA Work Papers
HHDC	Reporting of consumption on de-energised Meter (D0001³) to Supplier and MOA Resolution of Inconsistencies
Supplier	Fault Resolution Processes
NHHDC	Correct incorrect register Mapping Resolution of D0023 rejections Resolution of D0095 rejections

#### 6. Risk 006 – SVA Meter Technical Details transfer and processing

- The risk that on a Change of Agent, Meter Technical Details are not transferred or processed correctly or at all, such that parties do not use the latest Meter Technical Details resulting in erroneous or estimated data in Settlement.
- 6.2 BSC Audit testing for Settlement Risk 006 includes:

Role	SVA Work Papers
HHDC	Processing of standing data changes received from Supplier and MOA
NHHDC	Processing of standing data changes received from Suppliers and MOA Backlogs of standing data flows and meter readings

#### 7. Risk 007 - SVA Retrieval of Metered Data

- 7.1 The risk that SVA Metered Data is not retrieved, such that the proportion of estimated data being used in Settlement contributes to performance standards not being met resulting in estimated data in Settlement
- 7.2 Elexon has determined that the following activities and Performance Assurance Techniques adequately cover Risk 007:
  - PARMS serial standard SP08 Supplier Charges
  - Monthly Risk Report monitoring NHH Supplier 97% performance standard monitoring and HH Supplier 99% performance standard monitoring
  - o Error and Failure Resolution corrective activities
  - o OSM weekly monitoring and communications

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<sup>&</sup>lt;sup>3</sup> D0001 - Request Metering System Investigation (https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0001&FlowVers=1&searchMockFlows=False)

- 8. Risk 008 SVA Processing of Metered Data
- 8.1 The risk that SVA Metered Data is not processed or transferred correctly, or at all resulting in erroneous or estimated data in Settlement.
- 8.2 BSC Audit testing for Settlement Risk 008 includes:

Role	SVA Work Papers
HHDC	Processing of standing data changes received from Supplier and MOA Processing of HH consumption Validity of consumption Data estimation
	Backlogs of Incoming/Outgoing flows Resolution of Inconsistencies
	Processing of Metering System Related Details (D0170 <sup>4</sup> ) on request after Change of Supplier/Agent event
NHHDC	Processing of standing data changes received from Suppliers and MOA  Validity of standing data  Processing of meter readings collected via hand held unit  Processing of meter readings collected via manual meter sheet or other paper record  Processing of meter readings collected via Supplier (D0010 <sup>5</sup> ) or other electronic method  Validity of meter readings  Override of reads which have failed validation  Validity of meter reading withdrawals  Processing of meter reading withdrawals  Processing of Deemed Meter Advances (DMA) on Change of Supplier  Validity of DMA  Processing of DMA after Final Reconciliation (RF) where have an Estimate Annual Consumption (EAC) with no Annual advance(AA) at RF and a meter reading has been received post RF  Re-performance of DMA calculation performed by EAC/AA calculator  Requests for calculation of EAC/AA  Adequacy of controls over large EAC/AA
Supplier	Re-performance of calculation performed by EAC/AA calculator Backlogs of standing data flows and meter readings Resolution of D0023 <sup>6</sup> rejections Resolution of D0095 <sup>7</sup> exceptions Processing of Metering System Related Details (D0010 and D0152 <sup>8</sup> ) on request after Change of Supplier/Agent event [NHH only] Processes surrounding the identification and
Suppliel	correction of potentially erroneous EACAA

#### 9. Risk 009 – SVA Data Aggregator Processes Metered Data

- 9.1 The risk that the Data Aggregator does not process metered data correctly or at all, including transfer to SVAA, such that the energy volumes required for Settlement are incorrect or missing resulting in erroneous, missing or estimated data in Settlement
- 9.2 BSC Audit testing for Settlement Risk 009 includes:

Role	SVA Work Papers
Hourly Data Aggregator (HHDA)	Processing of Market Domain Data (MDD) Validity of MDD Processing of standing data changes received from SMRS Validity of standing data Obtaining and processing of Line Loss Factors (LLF) from ELEXON website Processing and validation of Balancing Mechanism Unit (BMU) data received from Supplier

<sup>&</sup>lt;sup>4</sup> D0170 – Request for Metering System related details (https://www.electralink.co.uk/dtc-catalogue/)

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<sup>&</sup>lt;sup>5</sup> D0010 – Meter Readings (https://www.electralink.co.uk/dtc-catalogue/)

<sup>&</sup>lt;sup>6</sup> D0023 - Failed Instructions (<u>https://www.electralink.co.uk/dtc-catalogue/</u>)

<sup>&</sup>lt;sup>7</sup> D0095 – Non Half Hourly Data Aggregation Exception Report (<a href="https://www.electralink.co.uk/dtc-catalogue/">https://www.electralink.co.uk/dtc-catalogue/</a>)

<sup>8</sup> D0152 - Metering System EAC/AA Historical Data (https://www.electralink.co.uk/dtc-catalogue/)

BOO Addit Ocope 2022/23	
	Validity of HH consumption data
	Re-performance of Aggregation
	Sending of Supplier Purchase Matrix (SPMs) to Supplier Volume
	Allocation Agent (SVAA)
	Data/Flow processing backlogs at DA
	Reporting of anomalies to HHDC Agents and Suppliers (D02359)
Non Half Hourly Data Aggregator (NHHDA)	Processing and validity of MDD
	Processing of standing data changes and consumption received
	from SMRS and NHHDC
	Validity of standing data and consumption
	Re-performance of Aggregation
	Sending of SPMs to SVAA
	Notification of MPANs excluded from the RF
	Data/Flow processing backlogs at DA
	Level of outstanding D0023 flows reported by NHHDA

#### 10. Risk 010 – SVA Meter read history

- 10.1 The risk that on Change of Supplier or Agent, Meter read history is incorrect or not transferred such that sufficient history is not available for validating and estimating energy volumes resulting in erroneous or estimated data in Settlement
- 10.2 BSC Audit testing for Settlement Risk 010 includes:

Role	SVA Work Papers
HHDC	Processing of Metering System Related Details (D0170) on request after Change of Supplier/Agent event
NHHDC	Processing of Metering System Related Details (D0010 and D0152) on request after Change of Supplier/Agent event

#### 11. Risk 011 – SVA Unmetered Supplies

- 11.1 The risk that Unmetered Supplies volumes are calculated incorrectly or not at all, resulting in erroneous or missing data in Settlement.
- 11.2 BSC Audit testing for Settlement Risk 011 includes:

Role	SVA Work Papers
Meter Aggregator (MA)	Retention and maintenance of Equivalent Meter Technical Details (EMTD) and other information required to perform MA functions Receipt and recording of summary inventory records received Fault reporting (notification of missing / unavailable data) and notification of data availability  Calculation of deemed meter volumes and provision of output into Settlement
Unmetered Supplies Operator (UMSO)	Maintenance and provision of connection agreements Maintenance and provision of Unmetered Supplies (UMS) inventories Completeness, accuracy and validity of calculation and provision of NHH EACs Creation and provision of UMS Certificates Provision of Standard Settlement Configuration and Profile Class details including disconnections and energisation status
NHHDA	Re-performance of Aggregation
HHDC	Processing of standing data changes received from Supplier and MOA
NHHDC	Processing of standing data changes received from Suppliers and MOA

#### 12. Risk 012 - SVA Metering Equipment Technical Detail Quality

- 12.1 The risk that SVA Metering System technical details are created incorrectly resulting in erroneous or estimated data in Settlement
- 12.2 BSC Audit testing for Settlement Risk 012 includes:

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<sup>&</sup>lt;sup>9</sup> D0235 - Half Hourly Aggregation Exception Report (https://www.electralink.co.uk/dtc-catalogue/)

Role	SVA Work Papers
LDSO	Completeness of provision of site technical details

#### 13. Risk 013 - SVA Manual adjustments

- 13.1 The risk that Manual adjustments to Metered Data are not completed correctly, or at all resulting in erroneous data in Settlement.
- 13.2 BSC Audit testing for Settlement Risk 013 includes:

Role	SVA Work Papers
NHHDC	Correct Incorrect Register Mapping Processing of meter reading withdrawals Validity of DMA Follow up EAC/AA exception report Follow up of EAC/AA filter exceptions Adequacy of controls over large EAC/AA Gross Volume Correction (GVC) - Compensating Crystallised Errors Implementation of Modification P196 Long term vacant sites (NHH)
Supplier	[NHH only] Compensating Crystallised Errors [NHH only] Long Term Vacant Sites [NHH only] Processes surrounding the identification and correction of potentially erroneous EACAA Processes and controls operated by a Supplier to ensure key processes are operating

#### 14. Risk 014 – SVA Agent appointments

- 14.1 The risk that Agents are not appointed or de-appointed correctly, such that SMRS is not complete or up to date, members of the Supplier Hub do not hold the correct MPID of other Hub members or the appropriate agents are not appointed resulting in Estimated data in Settlement
- 14.2 BSC Audit testing for Settlement Risk 014 includes:

Role	SVA Work Papers
Supplier	Processes and controls operated by a Supplier to ensure key
	processes are operating
	Appointments and de-appointments Process
	Change of Measurement Class (COMC)

#### 15. Risk 015 - SVA Reference data

- 15.1 The risk that SVA reference data is not created or transferred correctly, or at all, resulting in erroneous data in Settlement.
- 15.2 BSC Audit testing for Settlement Risk 015 includes:

Role	SVA Work Papers
HHDC	Performance of Meter Advance Reconciliation (MAR)

#### 16. Risk 016 - SVA Energisation status

- 16.1 The risk that the energisation status held in SMRS or by any party in the Supplier Hub does not match the physical energisation status of the SVA metering system resulting in erroneous or estimated data in Settlement.
- 16.2 BSC Audit testing for Settlement Risk 016 includes:

Role	SVA Work Papers
HHDC	Processing of standing data changes received from Supplier and MOA
LDSO	Completeness of disconnection of Metering Systems Changes to energisation status

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NHHDC	Processing of standing data changes received from Suppliers and MOA Visits to De-energised sites
	Backlogs of standing data flows and meter readings
Supplier	Processes and controls operated by a Supplier to ensure key
	processes are operating

#### 17. Risk 017 – SVA Exception management

- 17.1 The risk that Exception reports are not sufficiently managed, such that material exceptions are not addressed at all or in a timely manner resulting in default or estimated data in Settlement.
- 17.2 BSC Audit testing for Settlement Risk 017 includes:

Role	SVA Work Papers
HHDA	Reporting of anomalies to HHDC Agents and Suppliers (D0235)
HHDC	Resolution of Inconsistencies
NHHDA	Level of D0095 exceptions as reported by NHHDA
NHHDC	Resolution of D0023 rejections
	Resolution of D0095 exceptions
Supplier	[HH only] Processes surrounding the identification and correction
	of HH data quality exceptions (D0235)
	[NHH only] Processes surrounding the identification and
	correction of NHH data quality exceptions (D0095)

#### 18. Risk 018 - SVA Revenue protection

- 18.1 The risk that Revenue Protection processes are not managed sufficiently, such that unrecorded energy volumes are excluded from Settlement resulting in erroneous or missing data in
- 18.2 BSC Audit testing for Settlement Risk 018 includes:

Role	SVA Work Papers
Supplier	Processes and controls operated by a Supplier to ensure key processes are operating

#### SVA Process Assessment - Industry roles in Scope

#### Supplier Meter Registration Agents

Each Supplier Meter Registration Agent (SMRA) identifies all Metering Systems attached to a Distribution Network. The SMRA will hold the history of Supplier registrations for each Metering System. They provide information on unmetered exit points with the history of their Supplier registrations. In addition, SMRAs will provide Line Loss Factor Classes. The contractual relationship between Suppliers and SMRAs is encapsulated in the Master Registration Agreement (MRA).

#### Data Retrieval & Data Processing (Data Collectors)

Retrieval encompasses Meter reading and detection of potential Meter reading faults (on behalf of the MOA).

Data Processing is the validation and conversion of Meter readings into energy consumption, the estimation of missing data using an approved method and the transmission of this data to the DA.

#### **Data Aggregation**

Data Aggregation is the aggregation of Supplier or BM Unit specific energy consumption data, after the application of LLF for HH metered data, to produce the aggregated data.

#### **Meter Operators**

MOAs hold key information on all Metering Systems attached to the Distribution System including Meter history and technical details. MOAs are also responsible for the installation and removal of Meters and their general maintenance

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in compliance with the relevant Codes of Practice. MOAs form part of the Supplier hub and as such operate several key interfaces with other Supplier Agents (particularly Data Collectors).

The BSC Audit will not directly cover accuracy of metering or standards of metering installation, however the findings of the TAA under the Technical Assurance of Metering (TAM) technique will be sent to the BSC Auditor for consideration in its reporting.

Audit of CVA MOAs to be targeted is based on previous audit issues identified and the number of actions completed by the Agent during the year.

#### Licensed Distribution System Operators

Licensed Distribution System Operators (LDSOs) are responsible for the overall management and maintenance of Distribution Systems in addition to the registration of Metering Systems in SMRS.

#### **Unmetered Supply Operators**

LDSOs are responsible for the Unmetered Supplies Operator (UMSO) function. UMSOs are responsible for managing any Unmetered Supplies (UMS) attached to a Distribution Network, and are required to provide specific details to Suppliers and Supplier Agents in order that they can meet their Settlement obligations.

#### Meter Administrators

Meter Administrators are responsible for calculating the half-hourly allocation for HH SVA UMS and providing this information to the DC.

#### Supplier Systems and Associated Internal Procedures

Suppliers are responsible for managing their Supplier Agents and for providing key data to their Supplier Agents as set out in the BSC and BSC Procedures.

#### **Data Transfer**

The Data Transfer Service and NETA network service are outside the scope of the BSC Audit but the audit will include reviews at market participants' premises to check dispatch and receipt of data messages.

#### Off The Shelf Model

The majority of the newer 'off the shelf' Performance Assurance Parties (PAPs) do not breach the Metering System Identifier (MSID) threshold to fall in scope for the BSC Audit; this is perceived as a gap between the Qualification process and the BSC Audit process. While the size of these smaller PAPs limits their potential impact on Settlement, there are concerns in some cases that some 'off the shelf' PAPs may not have sufficient experience and processes in place in order to operate effectively in terms of Settlement.

ELEXON will utilise the following approach in response to the changing market where looking exclusively at MSID thresholds may no longer be appropriate in all instances.

The BSC Audit will include:

• 1 to 4 'off the shelf' PAPs (varied roles) targeted for a full intensity audit, irrespective of whether or not they fall in scope through MSID threshold. ELEXON will aim to target managed services groups and PAPs demonstrating poor behaviour. (A proportional number of smaller PAPs which do meet the MSID threshold and have performed well in previous audits will be removed from scope to compensate.)

#### CVA Assurance Opinion - BSC Systems and BSC Agents

#### 19. Central Registration

- 19.1 The Central Registration Agent (CRA) collects, validates, stores and distributes shared reference data used by other related business processes. This includes the registering of all Meter Points, Metering Systems, Balancing Mechanism (BM) Units, Trading Units, and sets of Aggregation Rules for each BSC Party.
- 19.2 The BSC Audit testing for Central Registration includes:
- Maintenance of the BM Credit Assessment Export Capability (BMCAEC)

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Maintenance of the BM Credit Assessment Import Capability (BMCAIC)

#### 20. Aggregate and Check Contract Volume

- 20.1 The Energy Contract Volume Aggregation Agent (ECVAA) accepts or rejects Energy Contract Volume Notifications (ECVNs) and Metered Volume Reallocation Notifications (MVRNs). The ECVAA aggregates valid ECVNs and MVRNs to determine the Account Bilateral Contract Volume for each Party's Energy Account. The ECVAA reports the Account Bilateral Contract Volume for each Party and Settlement Period for that Settlement Day to the Settlement Administration Agent (SAA) on a daily basis.
- 20.2 The BSC Audit testing includes:
- Acceptance of ECVN and MVRN
- Aggregation of valid Energy Contract Volume Reallocation Notifications and Metered Volume Reallocation
   Notifications
- Submission of data to the Settlement Administration Agent

#### 21. Credit Cover Management

- 21.1 Credit monitoring of BSC Parties is the responsibility of the Funds Administration Agent (FAA), ECVAA and BSCCo. Letters of credit/cash are lodged with the FAA. The ECVAA calculates the Credit Cover Percentage and notifies BSCCo if the agreed Default limits are exceeded.
- 21.2 The BSC Audit testing includes:
- Application of Credit Cover rules as defined within the BSC

#### 22. Balancing Mechanism Reporting

- 22.1 The Balancing Mechanism Reporting Agent (BMRA) publishes a range of public market information for users of the service and calculates data for submission to Settlement.
- 22.2 The BSC Audit testing includes:
- The consistency of the data that is included within the reports that are published by the BMRA

#### 23. Calculation of Market Index Data

- 23.1 The Market Index Data Providers (MIDPs) calculate and provide to the BMRA and SAA a market price in respect of each Settlement Period on a half hourly and daily basis. The market price reflects the price of wholesale electricity in the short-term market.
- 23.2 The BSC Audit testing includes:
- The controls surrounding the calculation and transfer of the Market Index Data to the BMRA and SAA
- Determination and calculation of the Market Index Data (in accordance with the Market Index Definition Statement).

#### 24. Calculation and Aggregation of Metered Data

- 24.1 The Central Data Collection Agent (CDCA) collects and aggregates the metered data from Metering Systems registered in CRA. The volumes for missing or disputed data are estimated in accordance with the BSC and reported to the Central Volume Allocation Meter Operator Agent (CVA MOA) and BSCCo. The Grid Supply Point (GSP) Group Take is calculated in accordance with the Settlement timetable (published on the BSC Website). This information is passed to the Supplier Volume Allocation Agent (SVAA) and is used as the basis for calculating the Supplier Volume Allocation (SVA).
- 24.2 The BSC Audit testing includes:
- Completeness of Commissioning and Proving Test records
- Aggregation of metered data registered in CDCA
- Calculation of GSP Group Take

#### 25. Calculate Settlement Debits and Credits

25.1 The SAA receives calculated Supplier Volume Allocations, Contract Volume and reallocation data, GSP Group Take and Information Imbalance Price. The SAA performs the Interim, Initial Settlement and Reconciliation

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runs according to the Settlement timetable and calculates the Credits and Debits resulting from the Settlement of Balancing Mechanism actions and Imbalance cash-out. Settlement reports are sent to BSC Parties to validate, and to the Funding Administration Agent (FAA).

- 25.2 The BSC Audit testing includes:
- Calculation of Credits and Debits to BSC Parties via Balancing Mechanism and the imbalance Settlement arrangements
- Calculation of Main and Market Prices as used in imbalance Settlement arrangements.

#### 26. Funds Transfer

- 26.1 The FAA manages the funds transfer process.
- 26.2 The BSC Audit includes:
- Calculations of the charges for each BSC Party for each Settlement Run
- Aggregation of instructions for Initial Settlement related transfers of money into one charge/payment per BSC
   Party per day
- Production of Advice Notes/Statements to be sent to BSC Parties on the basis of the required charge payments

#### 27. Market Domain Data

- 27.1 Market Domain Data (MDD) is standing data required for the operation of SVA. The data falls into two categories Organisation Data and Classification Data:
- 27.1.1 Organisation Data includes company name and identifiers for Distributor, Supplier and relevant Supplier Agents.
- 27.1.2 Classification Data includes Valid Measurement Requirement Profile Classes, Time Pattern Regimes and Standard Settlement Configurations.
- 27.2 The BSC Audit testing includes:
- Completeness and consistency of data items entered into MDD
- Input of key data items received from MDD by Data Aggregators (DAs) including LLFs

#### 28. Supplier Volume Allocation & Reconciliation

- 28.1 Supplier Volume Allocation & Reconciliation is the aggregation of Supplier/BM Unit Purchase Matrices to a GSP Group and calculation/recalculation of the Deemed Take for each GSP Group.
- 28.2 The Temperature Provider is sub-contracted by the SVAA to provide Noon Temperature Data.
- 28.3 The Time of Sunset Provider is sub-contracted by the SVAA to provide Time of Sunset Data.
- 28.4 The Teleswitch Agent provides the Teleswitch Data.
- 28.5 The Profile Administrator is the agent contracted by BSCCo to derive sets of regression coefficients for each Profile Class. The Profile Administrator will monitor the accuracy of profiles delivered from the Profile coefficients.
- 28.6 The BSC Audit testing includes:
- NHH data (from Supplier Purchase Matrix)
- HH data
- Daily Profile variables (Noon Temperature Data, Time of Sunset Data, Teleswitch Data)
- GSP Group Take (from CDCA)
- LLFs
- Application of regression coefficients
- Application of time of sunset/Teleswitch data
- Application of Default data (including BM Units)
- Production of daily Profiles
- Calculation of Deemed Take
- Calculation of volumes by BM Unit

#### 29. Trading Disputes

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- 29.1 The Trading Disputes process is used to correct errors in Settlement.
- 29.2 The BSC Audit testing includes:
- Procedures and documentation for registration and logging of Trading Disputes in respect of Reconciliation Settlement Runs
- Procedures and documentation in operation for the registration/logging of queries and requests for assistance
- Resolution of Trading Disputes and application of dispute payments

#### 30. Balancing Mechanism

30.1 The System Operator shall be audited by the BM Auditor against the requirements of Section H 5.1.6 of the BSC, which relates to the compilation and submission of data to the SAA.

#### 31. Registrants of CVA Metering Systems

- 31.1 The Audit of Registrants of CVA Metering Systems will cover:
- Fault Identification and Resolution
- Data Estimation and accuracy
- Registrations and Commissioning

#### **Additional Considerations**

All BSC Parties and Central Systems have to implement changes approved by the BSC Panel. The releases are issued three times a year (February, June and November) and have to be fully implemented in the affected systems to ensure compliance with the BSC.

The BSC Audit will include:

• Checks to ensure 0 to 3 BSC Modifications or Change Proposals selected by ELEXON have been successfully implemented by Suppliers, Supplier Agents and Licensed Distribution System Operators. (Changes will be selected based on potential material impact.) This testing will focus on confirming the successful and compliant implementation of the relevant change(s) rather than looking at Parties' change management processes.

#### **Areas Out of Scope**

The activities/ data which fall outside the scope of the BSC Audit are detailed below.

Activity/ Data	Reason For Exclusion
Supplier Volume Allocation Meter Operator Agents	Outside scope of BSC.
Customer billing.	Outside scope of BSC.
Production of Transmission Network Use of System (TNUoS)/	Outside scope of BSC - does not form part of calculation and
Distribution Use of System (DUoS) reports.	allocation of funds under the BSC.
MRA disputes procedures.	Outside scope of BSC – included within the Master Registration Agreement.
Contractual relationship between Parties and their Party Agents	Does not form part of the calculation and allocation of Trading
and between BSCCo and BSC Agent.	Charges under the BSC.
Electricity Market Reform (EMR)	Outside scope of BSC.

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