

## Balancing and Settlement Code

# BSC Service Description for Central Registration

Version 12.210.0

Date: 06/09/2007~~23/02/2005~~

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## AMENDMENT HISTORY

Date	Version	Description of Change	Author
27.05.01	1.0	Baseline version	NETA Programme
13.08.02	2.0	Release 2 - CP503, CP508, CP569, CP615, Modification P8	CVA Programme
10.12.02	3.0	P55/CP753	K.Key
11/03/03	4.0	P78, plus residual changes from P55/CP753	CVA Programme
24/06/03	5.0	CVA Programme <del>Programme</del> Jun 03 Release – CP551, CP703, CP756, CP775	CVA Programme
01/08/03	6.0	Modification P62	CVA Programme
05/11/03	7.0	CVA Programme Nov 03 Release, Approved Modifications P82, P100 and P107	CVA Programme
30/06/04	8.0	Change Proposal CP918 and removal of P82 for the CVA Programme June 04 Release	CVA Programme
03/11/04	9.0	CVA Nov04 Release: CP642, P152, CP974, incorporating Logica review comments	CVA Programme
23/02/05	10.0	CVA Feb 05 Release: P140, CP1040, CP1091	CVA Programme
<u>03/05/07</u>	<u>10.1</u>	<u>Project ISIS Initial Draft</u>	<u>Graeme Windley - CIT</u>
<u>09/05/07</u>	<u>10.2</u>	<u>Project ISIS Review by COB, ALG</u>	<u>Graeme Windley - CIT</u>
<u>10/05/07</u>	<u>10.3</u>	<u>P ISIS – First Review</u>	<u>Graeme Windley - CIT</u>
<u>31/05/07</u>	<u>10.4</u>	<u>PISIS Pre Workshop 1 Draft</u>	<u>Graeme Windley - CIT</u>
<u>07/06/07</u>	<u>10.5</u>	<u>P ISIS - Post Workshop 1 Draft</u>	<u>Graeme Windley - CIT</u>
<u>15/06/07</u>	<u>10.6</u>	<u>P ISIS – Post</u>	<u>Graeme Windley</u>

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<u>22/06/07</u>	<u>10.8</u>	<u>P ISIS - Legal</u>	<u>Graeme Windley</u> <u>- CIT</u>
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<u>09/08/07</u>	<u>12.2</u>	<u>TAI2286 Approved –</u> <u>version for CP</u>	<u>Graeme Windley</u> <u>- CIT</u>

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[“ADD REF”]

## ~~SCHEDULE 1~~ – BSC OPERATING SERVICES

### ~~[“ADD REF”]PART B~~ – SERVICE DESCRIPTION FOR CENTRAL REGISTRATION

#### **1** INTRODUCTION

#### ~~1~~ – REGISTRATION

- 1.1 This is the Service Description for the Central Registration Agent (CRA) appointed by the Balancing and Settlement Code Company (BSCCo) for the ~~purpose~~purposes of providing a registration service in respect of ~~BSC Trading~~ Parties and their Energy Accounts, Qualified Central Volume Allocation (CVA); ~~Accredited BSC~~ Party Agents, Market Index Data Providers (MIDP), CVA Metering Systems, Interconnectors, Transmission System, Boundary Points, Grid Supply Points and Grid Supply Point Groups, Distribution Systems Connection Points, BM Units and Trading Units.;
- 1.2 The purpose of this Service Description is to describe the responsibilities and obligations of the CRA for the registration, validation ~~and~~, maintenance ~~and distribution~~ of valid registration data received from the ~~BSC Trading~~ Parties, CVABSC Party Agents and BSCCo ~~who~~that are required to register data with the CRA. It describes the reporting and distribution of data from the CRA to the relevant Parties, CVA Party Agents, the Transmission Company, the Supplier Volume Allocation Agent (SVAA), the Balancing Mechanism Reporting Agent (BMRA), the MIDP and BSCCo. The responsibilities and obligations of the CRA under this Service Description are collectively referred to as ‘the CRA Service’.
- 1.3 This Service Description also describes the key interfaces between the CRA, ~~BSC Trading~~ Parties, the Funds Administration Agent (FAA), the Energy Contract Volume Aggregation Agent (ECVAA), the Settlement Administration Agent (SAA), the Central Data Collection Agent (CDCA), the BMRA, the SVAA, the Transmission Company, Qualified CVA, ~~the SO and Accredited BSC Party Agents, Registered BSC Party Agents,~~ the MIDP and BSCCo.;
- 1.4 The CRA shall:
- 1.4.1 enter and maintain Party, Party Agent, MIDP and BSC Agent registration data in the Central Registration System (CRS); and
- 1.4.2 enter and maintain other required registration data in the CRS.
- 1.5 For any Registration/Change of Registration/Deregistration form that is received by the CRA, the CRA shall:
- 1.5.1 confirm the Party sending the form is a Qualified Party;

1.5.2 confirm the form has been sent by an Authorised Person; and

1.5.3 send an acknowledgement to the sender confirming the form has been received.

## Terms

- ~~• establish and maintain the master register, which shall be the record of approved and accepted data registered by BSC Trading Parties and BSC Party Agents and BSCCo;~~
- ~~• in addition to its data registration obligations, also help administer an Accreditation and Certification process on behalf of BSCCo;~~
- ~~• maintain information relating to the Credit Cover requirements associated with the transmission access rights of all BSC Trading Parties and SO. This is necessary in order to facilitate Credit Cover monitoring by the FAA and the ECVAA; and~~
- ~~• maintain information provided by BSCCo relating to Market Index Data Providers.~~

1.6 ~~1.5~~ The terms, definitions and abbreviations used in this Service Description but not defined in this Service Description shall have the meanings given to them in the Balancing and Settlement Code (BSC) in the Glossary and the Part A of this Agreement;

~~1.6 The CRA shall meet the performance standards that are required to be achieved in the delivery of this service as detailed in Part G of Schedule 1 of this Agreement;~~

~~1.7 This Service Description does not cover any Metering Systems that are to be registered, for Settlement purposes with SMRA.~~

## ~~2~~ **PERIOD OF RESPONSIBILITY**

~~2.1 The CRA shall perform the responsibilities and obligations set out in this Service Description for all Settlement Days for which the CRA is appointed by BSCCo.~~

## **2 SERVICE AVAILABILITY**

2.1 ~~3.4~~ The CRA shall make its systems and processes available such that the registration and, validation ~~and distribution of reports and data to BSC Trading Parties~~ is completed within the timescales agreed with BSCCo and in accordance with the

~~relevant Balancing required by BSC Trading Parties to meet their obligations under the BSC and adhere to the published Settlement Code Procedures (BSCPs). Calendar.~~

### **3 PARTICIPANT REGISTRATION**

#### **3.1 4.1. BSC Trading Party Registration**

~~—The CRA, in accordance with BSCP65 ‘Registration of Parties and Exit Procedures’ and BSCP70 ‘CVA Qualification Testing -shall:-~~

~~4.1.1—for Parties and each BSC Trading Party Agents’, shall do the following.~~

~~3.1.1 For each Party and each participation capacity, the CRA shall, other than an Interconnector Administrator or a Licensed Distribution System Operator, validate, register and maintain data, including, but not limited to, the following:-~~

~~a) Party name;~~

~~b) Party Identifier;~~

~~• BSC Trading Party identifier;~~

~~c) Effective-from Dates and Effective-to Dates; start date;~~

~~d) nameName, address, telephone/fax numbers, email address(es) and other relevant contact information;~~

~~e) nominatedNominated contact individual(s) and telephone numbers;~~

~~f) authorised Authorised signatory(ies);s) and authorised Keys;~~

~~g) where relevant, list of Energy Accounts used by the Party.<sup>1</sup>~~

~~3.1.2 The CRA shall notify Parties when their registration has been successful.~~

~~• For Parties which are Interconnector Administrators, Settlement report requirements (which reports on which timescales should be sent by which means to which addresses);~~

~~• Licences held or licence exemptions;~~

~~• Interconnectors for which the BSC Trading Party is an Interconnector User;~~

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<sup>1</sup> ~~Each Trading Party has two Energy Accounts: a Production Account and a Consumption Account. These are also allocated by the CRA.~~

3.1.3 ~~Interconnectors for which the BSC Party is the~~ CRA shall validate, register and maintain data including, but not limited to, the following:

- a) Interconnector Identifier; and
- b) Effective-from Date and Effective-to Date for which the Party is so appointed.

~~3.1.4~~ For Parties which are Interconnector Error Administrators, the CRA shall validate, register and maintain data including, but not limited to, the following:

- ~~List of Energy Account identifiers used by this BSC Trading Party;~~

~~4.1.2~~ on receipt of a request for registration from a BSC Trading Party, allocate the following:-

- a) ~~a unique BSC Trading Party identifier; and~~
- b) ~~a unique list of Energy Account identifiers comprised as follows:-<sup>2</sup>~~
  - i) ~~Production Energy Account identifier;~~
  - ii) ~~Consumption Energy Account identifier;~~

~~a) 4.1.3~~ for each Interconnector Identifier; and Administrator, register and maintain the following data:-

- b) Effective-from Date and Effective-to Date for which the Party is so appointed.

3.1.5 The CRA shall process requests from Parties wishing to change their registration details when required.

3.1.6 Prior to any change of registration, the CRA shall seek confirmation from BSCCo that the new registration details are valid and are consistent with the current status of the Party Identifiers.

3.1.7 Upon receipt of a request for Party Deregistration, the CRA shall send relevant withdrawal information to BSCCo (Withdrawals Checklist), which is to include, but not be limited to, the following:

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<sup>2</sup> [For the avoidance of doubt it should be noted that BM Units may be split between participants and hence between Energy Accounts but BM units cannot be split between Energy Accounts for the same participant.]

- ~~a) participation capacities a) Interconnector identifier;~~
- ~~b) Energy Account identifier of the Interconnector Users; and~~
- ~~c) Interconnector Error Administrator for that Interconnector;~~

~~4.1.4 validate all registrations received from BSC Trading Parties in accordance with the following:-~~

- ~~a) validate legal and contractual documentation as appropriate from time to time;~~
- ~~b) confirm that the BSC Trading Party has signed the Framework Agreement;~~

~~e) validate, for consistency, against registered;~~

~~b) -BM Units registered; Trading Units and Boundary Points.~~

~~c) Metering Systems Registered;~~

~~d) communication lines;~~

~~e) FTP Accounts / Encryption Keys to be terminated;~~

~~f) last day of Trading;~~

~~g) Settlement details; and~~

~~h) authorisation and notification details.~~

~~3.1.8 The CRA shall deregister Parties only with the approval of BSCCo.~~

#### CVA

~~4.1.5 in satisfying the validation obligations described in 4.1.4 above, ensure that all information received is securely held and recorded;~~

~~4.1.6 receive and register such information as may be required in order to authenticate registration including organisational authority levels;~~

~~4.1.7 receive and register authorised signatures, authorised email addresses, electronic encryption data or other such method or system, used to authenticate other communications that may subsequently be shared, via secured channels.~~

~~4.1.7.1 where a request is received via e-mail, perform an authentication check validating the password and the sender's e-mail address against those held within the system for the authorised signatory. A request received via e-mail can only be authenticated if the signatory has a registered password.~~

~~4.1.8 The CRA shall also process requests from Parties wishing to revise their registration details if~~

- ~~a) there is a change in the participation capacity of the Party,~~
- ~~b) Party's authorised person changes~~
- ~~c) the name and/or contact details of a Party changes.~~

~~Prior to any change of participation capacity or authorised person, the CRA shall seek confirmation from BSCCo that the new registration details are valid and are consistent with the current status of the applying Party. Amendments to Party names or contact details may be processed without BSCCo approval.~~

### ~~3.2~~ 4.2. ~~BSC~~ Party Agent Registration

3.2.1 The CRA, in accordance with BSCP20 'Registration of Metering Systems for Central Volume Allocation', BSCP70 'CVA Qualification Testing for Parties and Party Agents' and BSCP71 'Submission of ECVNs and MVRNs', shall register and maintain data in respect of the following Party Agents:<sup>3</sup>:-

#### Energy Contract Volume Notification Agent (

~~4.2.1 register and maintain data in respect of the following BSC Party Agents: [this section has been clarified to list all the different Party Agents currently registered by the CRA]~~

~~a) a) ECVNA);~~

#### Metered Volume Reallocation Notification Agent (

~~b) MVRNA); and ;~~

#### Meter Operator Agents (MOAs)

~~e) HHDCA;~~

~~d) HHDAA;~~

~~e) HHMOA~~

~~f) NHHDAA~~

~~g) NHHDCA;~~

<sup>3</sup> All Agents are to be registered only with approval of BSCCo. Registration of SVA Party Agents is not the function of the CRA.

- ~~h) NHHMOA~~
- ~~i) Meter Administration Agent~~
- ~~j) Supplier Meter Administration Agent~~

c) ~~4.2.2~~ for CVA Metering Only.

3.2.2 For the avoidance of doubt, maintenance of CVA Party Agent registration includes the ability to de-register or amend the registration details of such Agents.

For

3.2.3 ~~4.2.3~~ for each of the CVABSC Party Agents detailed in 3.2.1 above, the CRA shall register and maintain the following data including, but not limited to, the following:-

- a) Party a) ~~Agent name;~~ type;
- b) Party Agent Identifier;
- c) Party Agent role;
- ~~b) Agent identifier;~~
- ~~d) e) Name and~~ contact details;
- ~~e) Qualificationd)~~ ~~Accreditation and Certification~~ status;
- ~~f) authenticatione)~~ ~~Authentication~~ information; and
- g) Qualification Effective-from Date.

3.2.4 For validated ECVAA Web Service requests, the CRA shall instruct ECVAA to issue an ECVAA Web Service pack and instructions for use to the requesting Party, ECVNA or MVRNA.

3.2.5 Upon ECVNA or MVRNA change of details or deregistration, the CRA shall:

- ~~f) Accreditation effective dates (from and to);~~
- ~~g) GSP Group (where appropriate);~~

a) ~~4.2.4~~ ~~The CRA shall~~ contact the ECVAA to ensure that ECVNAs and MVRNAs attempting to de-register have first terminated any

relevant ECVNA and MVRNA authorisations.<sup>4</sup> Any de-registration applications that do not meet this requirement shall be rejected by the CRA, with the appropriate reason given; ~~and-~~

- b) remove ECVNA and MVRNA from CRS, as appropriate.

### 3.3 MIDP Registration

#### ~~4.3. Market Index Data Provider Registration~~

~~4.3.13.3.1~~ The CRA shall, on receipt of a request from BSCCo, register and maintain data ~~including; that shall include:~~

- a) MIDP name;
- b) MIDP Identifier;
- c) name and contact details; and
- ~~a) Market Index Data Provider name;~~
- ~~b) Market Index Data Provider ID;~~
- ~~e) Name and Contact Details;~~
- d) Effective ~~-from Date and to dates.~~

### 3.4 BSC Agent Registration

## ~~5 ACCREDITATION AND CERTIFICATION~~

~~3.4.1~~ The CRA shall register and maintain data including:-

- a) BSC Agent name;
- b) BSC Agent Identifier;
- c) name and contact details; and
- d) Effective-from Date.

## 4 AUTHORISATIONS

The CRA, in accordance with BSCP38 'Authorisations', shall:

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<sup>4</sup> These authorisations are those specific to ECVNAs and MVRNAs and registered in accordance with BSCP71 'Submission of ECVNs and MVRNs'.

- 4.1 receive, validate, register and report on information related to the nomination, changes to the scope of, annual confirmation and cancellation of Authorised Persons for Parties, CVA Party Agents and BSCCo;
- 4.2 where a request is received by post or fax, perform an authentication check by validating the senders signature against the reference signature held for the authorised signatory, if such a signature is available; and
- 4.3 maintain a single Authorisation Register of Authorised Persons.
- ~~5.1 help administer the Accreditation and Certification process established by BSC in accordance with the following principles:-~~
- ~~a) in order to become certified, BSC Party Agents will need to demonstrate, to the satisfaction of the BSC, that their systems and processes, used in providing a particular agency service, satisfy the certification requirements;~~
- ~~b) BSC Party Agents will submit to an entry process, administered by the BSC, prior to becoming accredited;~~
- ~~c) a status of ‘accredited’ may be granted (or rejected) outright or may be granted subject to certain qualifications;~~
- ~~d) maintain a record of the current status of BSC Parties and BSC Party Agents;~~
- ~~5.2 only register BSC Party Agents that hold a valid accreditation status;~~
- ~~5.3 report on Certification and Accreditation to BSCCo.~~

## **5 DATA REGISTRATION**

### 5.1 ~~6.1~~ BM Unit Registration

The CRA, in accordance with BSCP15 ‘BM Unit Registration’, shall do the following:-

For

5.1.1 ~~6.1.1~~ for each BM Unit registered with the CRA, the CRA shall maintain data including, but not limited to, the following:-

- ~~a) BM Unit identifier;~~

- a) ~~b)~~ ~~BM Unit Identifier;~~<sup>5</sup>
  - b) BM Unit name;
  - c) BM Unit type;
  - d) Party Identifier;
  - e) ~~Effective-from Date; Lead Party identifier; Lead Energy Account identifier; and Effective-effective from and to Date;~~ dates;
  - e) ~~Component Boundary Points / Systems Connection Points and Metering System identifiers;~~
  - f) ~~d)~~ Generation Capacity (MW) and Demand Capacity (MW), to be kept updated, as required;;
  - g) Production/Consumption (P/C) status. This is to be determined by the CRA based on the Generation Capacity (GC) and Demand Capacity (DC) of the BM Units, unless section 5.1.4 applies;
  - h) Credit Assessment Load Factor (CALF);
  - i) BM Unit Credit Assessment Export Capability (BMCAEC) and BM Unit Credit Assessment Import Capability (BMCAIC) (see Appendix A);
  - j) Transmission Loss Factor (TLF);<sup>6</sup>
  - k) Base Trading Unit;
  - l) FPN Flag;
  - m) National Grid Company (NGC) name for each BM Unit (mandatory if FPN Flag = 'Y', optional if FPN Flag = 'N'); and
  - n) Exempt Export status for Exempt Export BM Units.
- The CRA shall validate
- e) ~~Joint BM Unit data (this may be submitted under the Grid Code only);~~
  - f) ~~Credit Assessment Load Factor (CALF)~~<sup>7</sup>; and

<sup>5</sup> This is to be advised by the registering party and it cannot be duplicated in the system.

<sup>6</sup> The default value for the TLF is 0.

<sup>7</sup> Interconnector BM Units shall always have a CALF value of zero.

~~g) Exempt Export Flag (for Directly Connected, Embedded, Base and Additional Supplier BM Units only, as authorised by BSCCo).~~

~~6.1.2 for each BM Unit registered by the CRA, allocate a unique BM Unit identifier and register the BM Unit registrant's details;~~

~~6.1.3 Comply with the requirements of Section K 3.3 of the Balancing and Settlement Code with respect to the obligations on Supplier BM Units.~~

~~6.1.4 Comply with the requirements of Section K 3.6 of the Balancing and Settlement Code with respect to the obligations on changes to BM Unit registrations.~~

6.1.55.1.2 Validate the registration to ensure that:

a) the referenced ~~Lead~~lead Party is contained within the system and is a currently valid ~~BSC~~ Party (and not a Party Agent);

b) the Effective-from Date for the BM Unit is on or after the Effective-from Date for the Party;

~~b)c~~ the GSP Group referenced is contained within the system (where appropriate for type);

~~e)d~~ the Interconnector referenced is contained within the system (where appropriate for type);

~~d)e~~ the name provided for the BM ~~Unit~~unit is not duplicated within the system;

~~e) the sending BSC Party is of a type able to register a BM Unit;~~

f) a valid (non-null) CALF value has been received and entered (for Interconnector BM Units the value of CALF must be zero); ~~and);~~

g) if the BM Unit is a "Supplier BM Unit", then the Effective-~~to~~To-Date for the BM Unit is open ended.

~~6.1.6 Where a change to decrease Generation Capacity or increase Demand Capacity is requested within a BSC Season, the change should be confirmed with BSC Co Ltd.~~

## 6.2 Trading Unit Registration

- 5.1.3 The CRA shall notify the CDCA, Transmission Company and BSCCo of any BM Unit registration, notify the SVAA of any Supplier BM Unit registration and notify the Nominated Licensed Distribution System Operator (LDSO) of any Embedded BM Unit registration.-
- 5.1.4 The CRA shall re-determine the P/C status of a BM Unit,<sup>8</sup> unless the BM Unit is an Exempt Export BM Unit, on each occasion on which:
- a) there is any change in the Generation Capacity or Demand Capacity of the BM Unit;
  - b) the BM Unit joins or leaves a Trading Unit;
  - c) another BM Unit joins or leaves a Trading Unit to which the BM Unit belongs; or
  - d) there is any change in the Generation Capacity or Demand Capacity of any of the other BM Units belonging to the same Trading Unit.
- 5.1.5 For Embedded BM Units within a Distribution System, the CRA shall inform both the Contracted LDSO and Nominated LDSO (if different from the Contracted LDSO) of the registration.
- 5.1.6 The CRA shall allocate a Production BM Unit and a Consumption BM Unit to each Party who registers Interconnector BM Units in relation to any Interconnector.
- 5.1.7 The CRA shall check to ensure the CALF values used in the CRA systems match those values published on the BSCCo website prior to the start of each BSC Season. It shall notify the BSCCo of any discrepancies.
- 5.1.8 The CRA shall calculate and distribute to the SAA and the ECVAA both the BMCAIC and the BMCAEC for each BM Unit registered with the CRA (see Appendix A for formula).
- 5.1.9 For Exempt Export BM Units the CRA shall:
- a) set or unset the Exempt Export Flag as appropriate for each BM Unit, as authorised by BSCCo; and
  - b) amend the P/C Flag (and Status), as instructed by the Lead Party of the BM Unit, and notify BSCCo and BSC Agents of the change.

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<sup>8</sup> The Production/Consumption Status of an Interconnector BM Unit does not change.

5.1.10 In the Event of a new Supplier ID, the CRA shall register BM Unit Identifiers, one for each GSP Group, which shall be used for allocating SVA consumption data for the Supplier or Supplier ID.

5.1.11 The CRA shall inform the Nominated LDSO, the Transmission Company, BSCCo, BSC Agents, the Party deregistering the BM Unit and the Party registering the BM Unit of the change to the CVA BM Unit Lead Party (CoBLP).

5.1.12 In the event of the transfer of Supplier ID to another Lead Party, the CRA shall:

- a) receive authorisation from BSCCo to deregister old Supplier IDs;
- b) enter Effective-to Date for all Supplier BM Units for that Supplier ID;
- c) establish a BM Unit (a “Transferee BM Unit”) for which the ID Transferee is the Lead Party corresponding to each relevant BM Unit, and transfer the relevant BM Units from the ID Transferor to the ID Transferee; and
- d) inform the Transmission Company, BSCCo, BSC Agents and the Parties involved of the transfer and the Effective-to Date of the transfer.

5.1.13 For BM Unit deregistration the CRA shall:

- a) notify the CDCA, Transmission Company and BSCCo of the BM Unit deregistration request;
- b) if deregistration request is for a Supplier BM Unit, notify SVAA of the BM Unit deregistration request;
- c) if deregistration request is for a BM Unit embedded in a Distribution Network, notify the Nominated LDSO of the BM Unit deregistration request; and
- d) deregister BM Unit only on approval from BSCCo.

## 5.2 Trading Unit Registration

The CRA, in accordance with BSCP31 ‘Registration of Trading Units’, shall do the following.

5.2.1 The CRA shall register and maintain the following data in respect of each Trading Unit:<sup>9</sup>

- a) Trading Unit name;<sup>10</sup>

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<sup>9</sup> Note all Trading Unit registrations and subsequent changes to those registrations must be approved by BSCCo.

- b) Component BM Unit Identifier(s); and
- c) Effective-from Date and Effective-to Date;
- 5.2.2 The CRA shall register and maintain a Base Trading Unit for each GSP Group.
- 5.2.3 The CRA shall ensure that at all times all Supplier Base and Additional BM Units belong to the Base Trading Unit for the relevant GSP Group.
- 5.2.4 For Trading Unit deregistration the CRA shall:
  - a) notify BSCCo and the applicant that the Trading Unit shall be deregistered;
  - b) allocate each Exempt Export BM Unit to either a sole Trading Unit or the Base Trading Unit for the GSP Group. If no specification, allocate the Export Exempt BM Unit to the Base Trading Unit;
  - c) notify the Applicant Party, BSC Agents and BSCCo of Trading Unit deregistration date and associated data; and
  - d) re-determine the P/C status for each component BM Unit comprising the Trading Unit.

~~6.2.1 register and maintain the following data in respect of each Trading Unit registered with the CRA:-~~

- ~~a) Trading Unit name ;~~
- ~~b) Component BM Unit identifier(s);~~
- ~~c) Effective from and to dates.~~
- ~~d) Production or consumption flag;~~

~~6.2.2 for each Trading Unit registered with the CRA, allocate a unique Trading Unit identifier;~~

~~6.2.3 validate the registration to ensure that the related information such as the BM Unit's acceptance of commercial responsibility is also registered and recorded.~~

~~6.2.4 Register and maintain a Base Trading Unit for each GSP Group;~~

~~6.2.5 Ensure that at all times all Supplier non Exempt Export Base and Additional BM Units belong to the Base Trading Unit for the relevant GSP Group.~~

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<sup>10</sup> The Trading Unit name is provided to the CRA by the Lead Party and acts as an ID; it cannot be duplicated.

~~6.2.6 Ensure that the Base Trading Unit flag shall be unset for Directly Connected or Interconnector User BM Units.~~

### 6.3.5.3 Metering System Registration

The CRA, in accordance with BSCP20 'Registration of Metering Systems for Central Volume Allocation', shall do the following:-

The CRA shall

6.3.15.3.1 register and maintain the following data in respect of each Metering System: ~~registered with the CRA:-~~

- a) Registrant;
- b) Registrant contact details;
- ~~a)c) Metering System Identifier (MSID), allocated by the CRA; identifier;~~
- d) MOA name and Identifier;
- e) Effective-from Date; and
- f) Boundary Point/Systems Connection Point.

5.3.2 The CRA shall check the MOA is Qualified.

5.3.3 The CRA shall:

- ~~b) Meter Operator Agent identifier;~~
- ~~c) Effective from and to dates.~~

~~6.3.2 ensure the Registrant has confirmed that, for each new Metering System registration, either~~

- ~~i) the Registrant is the Equipment Owner; or~~
  - ~~ii)a) the Registrant has obtained the Equipment Owner's consent for the appointment; and -~~
- b) notify BSCCo and the Registrant if there is an objection from the MOA.

- 5.3.4 The CRA shall ensure that registration is not finalised until notification from the CDCA that the aggregation rules and the Meter Technical Details have been submitted and approved.
- 5.3.5 The CRA shall transfer the Registration of Metering Systems from SMRS to CMRS or vice versa, in accordance with the requirements in BSCP68 ‘Transfer of Registration of Metering Systems between CMRS and SMRS’.
- 5.3.6 In the event of Change of Registrant, the CRA shall inform the CDCA and BSCCo of any objection from the existing Registrant.
- 5.3.7 In the event of a change of MOA, the CRA shall:
- a) check the new MOA is Qualified;
  - b) notify the Registrant of any objection from the existing MOA; and
  - c) notify the CDCA once the change is complete.
- 5.3.8 In the event of Metering System deregistration, the CRA shall notify BSCCo and the Nominated LDSO (if relevant) once the details of the deregistration have been checked.

#### 6.45.4 Interconnector Registration

- 5.4.1 ~~6.4.1~~—The CRA shall register, validate and maintain data relating to all Interconnectors which shall include, but not be limited to, directly connected to:
- a) ~~the Total System. The~~ Interconnector Identifier; data registered and
  - b) associated Metering System Identifier if known.

~~The maintained by the~~ CRA shall, in the event of an will include, but not be limited to, the following:-

- 5.4.2 a)——Interconnector requiring registration or deregistration, contact BSCCo for instruction. identifier;
- Transmission
- b)——Associated Metering System identifier (if known);

#### 6.55.5 Boundary Point Registration<sup>11</sup>

<sup>11</sup> For the purposes of this Service Description, a Boundary Point means a point at which any Plant or Apparatus not forming part of the Total System is connected to the Total System (‘Total System’ means the Transmission System and each Distribution System). A Transmission Boundary Point means a point at which any Plant or Apparatus not forming part of the Total System is connected to the Transmission System.

The CRA, in accordance with BSCP25 'Registration of Transmission System Boundary Points, Grid Supply Points, GSP Groups and Distribution Systems Connection Points', shall:-

~~6.5.1~~ register and maintain data relating to all Transmission System Boundary Points, including Transmission System directly connected to the Total System. Such Boundary Points will define the metered volume for one or more BM Units. For these Boundary Points the following information will be registered and maintained:-

~~a)~~ Boundary Point Identifier/identifier(s) and associated);

~~5.5.1 b)~~ Associated Metering System identifiers (if known);

~~5.5.2~~ inform the CDCA of any request received to create or decommission a Transmission System Boundary Point; and

~~5.5.3~~ for Transmission System Boundary Point deregistration requests, check there is an associated BM Unit deregistration and that the Effective-to Date of the BM Unit deregistration is on or after the Disconnection Date. The CRA shall inform BSCCo if this is not the case.

## 5.6 Grid Supply Point (GSP) and GSP Group Registration

The CRA, in accordance with BSCP25 'Registration of Transmission System Boundary Points, Grid Supply Points, GSP Groups and Distribution Systems Connection Points', shall:

~~5.6.1~~ register and maintain details for GSP and GSP Groups; and

~~5.6.2~~ upon receipt of a GSP or GSP Group deregistration form from the Transmission Company, forward the GSP deregistration form to the CDCA and check the Disconnection Date for the GSP is on or before the Effective-to Date of the Metering System.

### Distribution Systems Connection Point

~~6.5.2~~ register and maintain data relating to Meters used for measuring flows between Distribution Systems and between Distribution Systems and the Transmission System.

~~6.5.3~~ carry out the following steps during the process of transferring the Registration of Metering Systems from SMRA to CRA and vice versa:-

#### ~~6.5.3.1~~ SMRA to CRA:-

~~a)~~ Receive notification of proposed transfer from new Registrants including:

- ~~•~~ Details of Registrant;
- ~~•~~ Details of MSIDs to be transferred;

- ~~Schematic diagram;~~
- ~~Registration Effective From Date in CMRS;~~

b) ~~Inform BSCCo and new CVA Registrant(s) of new CVA MSID;~~

## 5.7 ~~Validate~~ Registration<sup>12</sup>

~~The CRA, in accordance with BSCP25 ‘transfer using the validation rules in 8.2 ‘Validation Rules for Transfer of Registration of Transmission System Boundary Points, Grid Supply Points, GSP Groups and Distribution Systems Connection Points’, shall: from SMRA to CRA’ and inform BSCCo as to whether or not the transfer is valid;~~

5.7.1 ~~register and maintain data relating to all Distribution Systems Connection Points, including Distribution Systems Connection Point Identifier(s) and associated Metering System Identifiers (if known);~~

5.7.2 ~~receive notice from the LDSO where there is a request to create or decommission a Distribution Systems Connection Point, along with the date of the proposed action. Upon receipt of such notice, the CRA shall inform BSCCo and the CDCA; and~~

5.7.3 ~~inform the CDCA of any Distribution Systems Connection Point deregistration form received from the LDSO.~~

## 6 SYSTEM PARAMETERS

6.1 ~~The CRA shall register the factor (alpha,  $\alpha$ ) which is that proportion of transmission losses to be deducted in total from the BM Unit Metered Volume of BM Units in delivering Trading Units.<sup>13</sup> The value of this factor is 0.45 according to Section T 2.2 of the BSC.~~

d) ~~On receipt of notification of Registration transfer approval or rejection from BSCCo:~~

- ~~notifying of transfer rejection, terminate the process and do not enter data into system; or~~
- ~~notifying of transfer approval and confirmed Registration Effective From Date (REFD), update records by entering all data received regarding the registration transfer including confirmed REFD and confirm to BSCCo that this update has taken place;~~

<sup>12</sup> ~~For the purposes of this Service Description a Systems Connection Point is a point at which two or more Systems are connected, including a connection between Distribution Systems in different GSP Groups (but excluding a connection between Distributions Systems in the same GSP Group).~~

<sup>13</sup> ~~The proportion of transmission losses to be added in total from the BM Unit Metered Volume of BM Units in off-taking Trading Units =  $1-\alpha$ .~~

- e) ~~Pass SVA MSID mappings / CVA MSIDs and BM Unit / SVA MSID mappings (Registration Transfer Report) to BSCCo and new CVA Registrant(s);~~
- f) ~~Send Standing Data Report to new CVA Registrant(s);~~
- g) ~~Confirm to BSCCo that Registration transfers have been successfully completed.~~

#### 6.5.3.2 CRA to SMRA:-

- a) ~~Receive notification of proposed transfer from BSCCo including:
  - ~~Details of Registrant;~~
  - ~~Details of MSIDs to be transferred;~~
  - ~~Schematic diagram;~~
  - ~~Registration Effective To Date in CMRS;~~~~
- b) ~~On receipt of notification of Registration transfer, identify whether the Metering Systems within the BM Unit for transfer form part of a Trading Unit;~~
- e) ~~Validate Registration transfer using the validation rules in 8.2 'Validation Rules for Transfer of Registration from CRA to SMRA' and inform BSCCo as to whether or not the transfer is valid;~~
- d) ~~On receipt of notification of Registration transfer approval or rejection from BSCCo:
  - ~~notifying of transfer rejection, terminate the process and do not enter data into system; or~~
  - ~~notifying of transfer approval and confirmed Registration Effective From Date (REFD), update records by entering all data received regarding the registration transfer including confirmed Registration Effective To Date (which is **1 calendar day** before the confirmed REFD) and confirm to BSCCo that this update has taken place;~~~~
- e) ~~Contact existing CVA Registrant if requests for the de-registration of BM Units and Metering Systems have not been received by 20WD prior to REFD;~~
- f) ~~Provide the LDSO and BSCCo with details of BM Unit / CVA MSID Mappings and Registration Effective To Date (Registration Transfer Report);~~
- g) ~~De-appoint CVA MOA when requested by Existing CRA Registrant(s);~~
- h) ~~Send Standing Data Report to Existing CVA Registrant(s).~~

~~6.5.4 receive notice from the System Operator, Licensed Distribution System Operators or BSCCo (whichever is relevant) where there is a request to create or decommission a Boundary Point, along with the date of the proposed action. Upon receipt of such notice, the CRA shall inform BSCCo.<sup>14</sup>~~

#### ~~6.6 Systems Connection Point Registration<sup>15</sup>~~

~~The CRA shall:-~~

~~6.6.1 register and maintain data relating to all Systems Connection Points. The following information will be registered and maintained:-~~

~~a. Systems Connection Point identifier(s)~~

~~b. Associated Metering System identifiers (if known)~~

~~6.6.2 receive notice from the System Operator or Licensed Distribution System Operators (whichever are relevant) where there is a request to create or decommission a Systems Connection Point, along with the date of the proposed action. Upon receipt of such notice, the CRA shall inform BSCCo.<sup>4</sup>~~

### ~~7 BM UNIT CREDIT ASSESSMENT IMPORT/EXPORT CAPABILITY~~

#### ~~7.1 BM Unit Credit Assessment Import Capability~~

~~The CRA shall:-~~

~~7.1.1 calculate and distribute to the SAA and the ECVAA the Credit Assessment Import Capability, for each BM Unit registered with the CRA, in accordance with the following formula:-~~

$$\text{BMCAIC}_i = \text{CALF}_i * \text{DC}_{ij}$$

~~Where j above represents the latest Settlement Period for which data is available at the time of the assessment and where CALF<sub>i</sub> is the Credit Assessment Load Factor for BM Unit i determined from time to time by BSCCo;~~

~~7.1.2 When CALF<sub>i</sub> changes for any BM Unit registered with the CRA, re-set the value of the Credit Assessment Import Capability, determined in accordance with 7.1.1 above, and provide the re-set values to the SAA and the ECVAA.~~

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<sup>14</sup> For the purposes of these requirements it is the permanent changes to Boundary Points and Systems Connection Points that BSCCo require and therefore the CRA do not need to inform BSCCo of outages for short term maintenance reasons.

<sup>15</sup> For the purposes of this Service Description a Systems Connection Point is a point at which two or more Systems are connected, including a connection between Distribution Systems in different GSP Groups (but excluding a connection between Distributions Systems in the same GSP Group.

## ~~7.2 — BM Unit Credit Assessment Export Capability~~

~~The CRA shall:-~~

~~7.2.1 — calculate and distribute to the SAA and the ECVAA the Credit Assessment Export Capability, for each BM Unit registered with the CRA, in accordance with the following formula:-~~

$$\text{BMCAEC}_i = \text{CALF}_i * \text{GC}_{ij}$$

~~Where j above represents the latest Settlement Period for which data is available at the time of the assessment and where CALF<sub>i</sub> is the Credit Assessment Load Factor for BM Unit i determined from time to time by BSCCo;~~

~~7.2.2 — When CALF<sub>i</sub> changes for any BM Unit registered with the CRA, re-set the value of the Credit Assessment Export Capability, determined in accordance with 7.2.1 above, and provide the re-set values to the SAA and the ECVAA.~~

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## ~~7A. — BM UNIT EXEMPT EXPORT FLAG~~

~~The CRA shall:-~~

~~7A.1 — Register and maintain the Exempt Export registration details for each BM Unit;~~

~~7A.2 — Set or unset the Exempt Export Flag as appropriate for each BM Unit, as instructed by BSCCo.~~

---

## ~~7B — BM UNIT PRODUCTION / CONSUMPTION STATUS~~

~~The CRA shall, for Exempt Export BM Units only:-~~

~~7B.1 — Register and maintain the Production / Consumption Flag (and status) of each Exempt Export BM Unit;~~

~~7B.2 — Amend such Production / Consumption Flag (and status), as instructed by the Lead Party of the BM Unit;~~

~~7B.3 — Recalculate the Production / Consumption Status as appropriate for a BM Unit where the P/C flag has been set as “dynamic”.~~

## ~~8. — DATA VALIDATION~~

~~8.1 — The CRA shall validate all data received in accordance with the validation rules determined by BSCCo.~~

## ~~8.2 Validation Rules for Transfer of Registration from SMRA to CRA~~

~~The validation carried out by the CRA should include the following:-~~

- ~~a) The CVA Registrant on the form is registered as a Party in CMRS;~~
- ~~b) The CVA Registrant has nominated a BM Unit Id to be registered in CMRS;~~
- ~~c) That Registration Effective From Date on the form is operationally achievable;~~
- ~~d) The nominated BM Unit Id is ready for registration in CMRS when the Registration Effective From Date is confirmed by BSCCo; and~~
- ~~e) Confirmation of the CVA MOA.~~

## ~~8.3 Validation Rules for Transfer of Registration from CRA to SMRA~~

~~The validation carried out by the CRA should include the following:-~~

- ~~a) The Metering System is currently registered in CMRS;~~
- ~~b) Identify whether the Metering System is part of a BM Unit Id that forms part of a Trading Unit;~~
- ~~c) That Registration Effective To Date is operationally achievable; and~~
- ~~d) The BM Unit Id is ready for de-registration in CMRS when the Registration Effective To Date is confirmed by BSCCo.~~

## **9.7 DISTRIBUTION OF REGISTRATION DATA**

The CRA shall:-

~~7.1 9.1~~ provide extracts of registration data to ~~BSC Trading~~ Parties, ~~Transmission CompanySO~~ and BSC Agents in accordance with the interfaces defined in ~~the CVA Data Catalogue; Schedule 4 to this Agreement;~~

~~7.2 9.2~~ provide a repository that allows for addition, modification (changes) and deletion of the data held. The database shall have suitable access security to maintain the confidentiality of individual ~~BSC Trading~~ Parties and the security of the data held; and

~~7.3 9.3~~ provide a suitable secure repository for any documents or paper based information provided by ~~BSC Trading~~ Parties in connection with their registration or generated by the CRA in connection with the service described in this document.

STANDARD

10.8 REPORTING ARRANGEMENTS

The CRA shall :-

8.1 ~~10.1~~ provide a registration report to each ~~BSC Trading~~ Party, ~~CVA Accredited BSC~~ Party Agent or BSSCo showing the registration details recorded for ~~its~~~~their~~ registration application within the CRA's systems and respond to any queries associated with these reports.;

The CRA shall

8.2 ~~10.2~~ provide revised registration reports to the relevant ~~BSC Trading~~ Party, ~~CVA Accredited BSC~~ Party Agent, Transmission Company or BSSCo on every occasion that the registration details are changed ~~or revised~~;

The CRA shall

8.3 ~~10.2A~~ provide a full refresh registration report to BSSCo on a weekly basis, containing all registration details.;

8.4 The CRA shall provide an Authorised Persons report from the Authorisation Register to the BSSCo on a daily basis or additionally as necessary.

The CRA shall

8.5 ~~10.3~~ provide details of Metering Systems to the Technical Assurance Agent ~~FAA~~, as directed by BSSCo.;

8.6 The CRA shall provide Market Index Data Provider registration data to the BMRA, ECVAA and SAA.

As

8.7 ~~10.4~~ ~~as~~ and when Authentication details of the ~~BSC Trading~~ Party ~~or the SO~~ change, the CRA shall send the new Authentication details to the following:-

- a) ~~a)~~ FAA;
- b) ~~b)~~ ECVAA; and
- c) ~~c)~~ SAA.

Upon

8.8 ~~10.4A~~ ~~upon~~ request, the CRA shall provide the FAA with a hard copy of a sample signature, where available.:-

The CRA shall

10.58.9 — provide registration data for each BM Unit and Energy Account to the ECVAA and SAA on every occasion that the data is amended ~~or changed~~;

The CRA shall

8.10 ~~10.5~~—A provide details of any ECVNA or MVRNA de-registrations to the ECVAA.

8.11 The CRA shall provide Supplier BM Unit registration data to the SVAA, BSCCo for each Supplier BM Unit and the Transmission Company at least daily or Energy Account to the Market Domain Data Agent on every occasion that the data is amended, or changed. This data shall:

- a) consist of the complete set of BM Unit / GSP Group / Supplier relationships from the CRA ~~database~~, and will be sent whenever there is a change;
- b) summarise contiguous BM Unit effective date ranges as a single record in the flow with an Effective ~~from~~ ~~From~~ Date equal that of the earliest record in the contiguous block, and an Effective ~~to~~ ~~To~~ Date equal to that of the latest (this may be null for open ended records); and
- c) report historic data for a BM Unit in addition to current and future data, that is, i.e. the report must contain any BM Unit including those with an effective date range entirely in the past.

The CRA shall provide,

~~10.6~~—~~provide centrally registered Meter data to the SAA on every occasion that the data is amended or changed.~~

~~10.68.12~~ provide—on request from BSCCo, a report of a Party's existing outstanding registrations, authorisations, notifications and Settlement data including the date of the last non-zero metered volumessettlement data (Withdrawals Checklist) for a named ~~BSC Trading~~ Party to BSCCo.

The Withdrawals Checklist shall either:

- a) be created and sent to BSCCo within 2 Working Days, 2WDs when requested for information; or;
- b) be performed on the same day ~~as of~~ the request, at 1700, 2 Working Days 5pm, 2WDs prior to the Withdrawal Date and sent to BSCCo within 1 hour 4hr, when requested for ~~the~~ final compliance checks.

8.13 The CRA shall provide a monthly report to BSCCo on the 21st Calendar Day of each month, containing all information required for charging Parties under Section D of the BSC.

## 11.9 FLEXIBLE REPORTING ARRANGEMENTS

The CRA, in accordance with BSCP41 'Report Requests and Authorisations', shall do the following.

11.19.1 The CRA shall process requests from participants wishing to alter their reporting requirements. A participant may ask the CRA to: ~~\_\_ undertake any of the following:~~

- a) ~~to~~ terminate or initiate the issue of one of the participant's own confidential reports;
- b) ~~to~~ send the participant any of the reports, detailed in section ~~[944.3]~~, that are available to any Party on request; or
- c) ~~to~~ send the participant a specific version of an existing report, in accordance with this section ~~[9].42~~.

11.29.2 In the cases described above, the CRA shall receive requests direct from the participant, which may be a ~~BSC~~ Party, a ~~BSC~~ Party Agent, ~~a Licensed Distribution System Operator, the System Operator~~ or BSCCo. All requests shall be validated for authorised signatures.

~~11.3~~ ~~In relation to section 11.1b, the CRA shall make the following reports available to any Party on request:~~

- ~~• All SAA Settlement Reports;~~
- ~~• CDCA Aggregated Data Report;~~
- ~~• CDCA Meter Period Data Report;~~
- ~~• CDCA Total Demand per GSP.~~

11.49.3 A participant may request the confidential reports of another Party or Party Agent. Such requests shall only be processed by the CRA if authorized by received ~~from BSCCo, and shall be validated for authorised signatures of the two relevant Parties or Party Agents.~~

11.59.4 Upon request, the CRA shall provide BSCCo and ~~the~~ The Authority with any report, confidential or otherwise, without the need for ~~of~~ authorisation from the relevant Party or Party Agent.

11.69.5 Having updated the relevant systems, the CRA shall send confirmation to the requesting participant that the alterations have been made, along with the date from which the changes are effective.

## **12.10 MAINTENANCE OF REPORT VERSIONS**

~~12.110.1~~ The CRA shall, after the introduction of a new version of a BSC ~~Service~~-Agent report, continue to support the previous version for a period agreed with BSCCo. The length of time that each version is to be supported shall be agreed on a case by case basis.

~~12.210.2~~ By default, the CRA shall arrange for participants to receive the latest versions of all reports as appropriate. However, the CRA shall receive and process requests from participants wishing to use the previous version of a given report pursuant to section ~~[9].44~~.

~~12.310.3~~ Any reports copied and issued pursuant to sections ~~944.1b, 944.4 and 944.5~~ will be the same versions as those supplied to the original recipients.

## **13.11 INTERFACE TO CDCA AND ~~SUPPLIER METER REGISTRATION AGENT (SMRA)~~SMRA**

~~\_\_\_\_\_~~ The CRA shall:-

~~13.1~~—when requested by ~~a SMRA~~~~the CDCA~~, provide such confirmation as is necessary; ~~that data for a particular Metering System is registered with the CRA;~~

~~11.1~~ ~~13.2~~—~~when requested by the SMRA, provide such confirmation as is necessary,~~ that data for a particular Metering System is being collected, processed and aggregated by the CDCA; ~~and~~

~~11.2~~ ~~13.3~~—upon request from the CDCA, provide to the CDCA a refresh of registration data held by the CRA.

## **12 TIMEKEEPING**

### **~~14.~~ Timekeeping**

~~12.1~~ The CRA shall set its systems in accordance with ~~Coordinated the~~-Universal Time ~~Clock~~-(UTC), ~~and maintain~~~~adjusting~~ the time ~~within +/- one second as necessary, at least once in every 24 hours.~~

## **13 EXCEPTION HANDLING**

~~13.1~~ ~~The CRA shall respond to a report from the ECVAA or BMRA that it has received inaccurate data reports.~~

- 13.2 If there is no resolution agreed between the CRA and the ECVAA or BMRA, the CRA shall contact the relevant Party to discuss the cause of the exception. If there is an agreed solution between the Party and the CRA, the CRA shall authorise the proposed solution.
- 13.3 If the Party and the CRA cannot agree on the cause and type of the exception, it shall be classified as a Party error.

#### **15.14 TRADING DISPUTES**

14.1 15.1—The CRA shall support the Trading Disputes process as agreed with BSCCothe Client such that registration dataSettlement Data shall be retained:

- a) for up to at least 28 months after the relevant Settlement Day for use in a Settlement Run; and
  - b) thereafter, until 40 months after the relevant Settlement Day, in a form that may be retrieved, if requested, within 10 Working DaysBusiness days, for use in an Extra-Settlement Determination;
  - c) for longer than 40 months upon request by the Panel, in accordance with Section U 1.6.4 of the BSC.
- 14.2 The CRA shall notify BSCCo if it becomes aware of any matter which would or might reasonably be expected to give rise to a Trading Dispute, and co-operate with BSCCo and assist in the resolution of Trading Disputes pursuant to Section W of the BSC, as requested by BSCCo from time to time.

#### **15 COMPLIANCE**

The CRA shall, in accordance with Section E 1.3.1(c) of the BSC:

- 15.1 develop and maintain a contingency plan;
- 15.2 provide a disaster recovery service and develop and maintenance a disaster recovery plan;
- 15.3 provide the BSC Auditor with access to what is required by the Panel under Section H 5.2.2 of the BSC; and
- 15.4 provide a help-desk service.

## APPENDIX A – BM UNIT CREDIT ASSESSMENT IMPORT/EXPORT CAPABILITY

### A.1 BM Unit Credit Assessment Import Capability (BMCAIC)

The CRA, in accordance with Section M 1.6.1 of the BSC, shall:

A.1.1 calculate and distribute to the SAA and the ECVAA the Credit Assessment Import Capability, for each BM Unit registered with the CRA, in accordance with the following formula:

$$\text{BMCAIC}_i = \text{CALF}_i * \text{DC}_i$$

where CALF<sub>i</sub> is the Credit Assessment Load Factor for BM Unit i determined from time to time by BSCCo; and

A.1.2 when CALF<sub>i</sub> changes for any BM Unit registered with the CRA, re-set the value of the Credit Assessment Import Capability, determined in accordance with A.1.1 above, and provide the re-set values to the SAA and the ECVAA.

### A.2 BM Unit Credit Assessment Export Capability (BMCAEC)

The CRA, in accordance with Section M 1.6.1 of the BSC, shall:

A.2.1 calculate and distribute to the SAA and the ECVAA the Credit Assessment Export Capability, for each BM Unit registered with the CRA, in accordance with the following formula:

$$\text{BMCAEC}_i = \text{CALF}_i * \text{GC}_i$$

where CALF<sub>i</sub> is the Credit Assessment Load Factor for BM Unit i determined from time to time by BSCCo; and

A.2.2 when CALF<sub>i</sub> changes for any BM Unit registered with the CRA, re-set the value of the Credit Assessment Export Capability, determined in accordance with A.2.1 above, and provide the re-set values to the SAA and the ECVAA.

## APPENDIX A – INPUT AND OUTPUT DATAFLOWS<sup>16</sup>

### A1 – CRA Input Dataflows

<b>Input Flow Description</b>	<b>Flow Received from</b>
Metering System registration	BSC Trading Party
Interconnector registration	SO or Licensed Distribution System Operator
Trading Unit registration	BSC Party
BM Unit registration	BSC Trading Party
BSC Party registration	BSC Party / SO [as appropriate]
Change to BSC Party registration	BSC Party / SO [as appropriate]
Change to BM Unit registration	BSC Trading Party
BM Unit Credit Assessment Import and Export Capability	SAA
BSC Party Agent registration request	BSC Party / BSC Party Agents
Change to BSC Party Agent registration	BSC Party / BSC Party Agents
Boundary Point registration	Licensed Distribution System Operator, SO or BSCCo [as appropriate]
Systems Connection Point registration	Licensed Distribution System Operator or SO [as appropriate]
BSC Agent registration request	BSCCo
Interconnector Administrator and Interconnector Error Administrator registration	BSC Party
GSP and GSP Group registration	Licensed Distribution System Operator
Flexible Reporting Request	BSC Party / BSC Party Agent / LDSO / SO / BSCCo
CALF data	BSCCo
Transmission Loss Data	BSCCo
Registration Transfer	BSC Trading Party or BSCCo [as appropriate]
Market Index Data Provider registration data	BSCCo
Registration / De registration of BM Unit Exempt Export Status	BSCCo
Amendment to Trading Unit Allocation for Exempt Export BM Units	BSCCo
Amendment to Production / Consumption Flag for Exempt Export BM Units	BSC Party
Participant withdrawal information	SAA / ECVAA
Withdrawals Checklist request	BSCCo

<sup>16</sup> The flows in this Appendix reflect those defined by the Net Data File Catalogue (NDFC) and the Reporting Catalogue. Any other communications between participants are to be regarded as ad hoc or informal and are therefore not listed in this section.

## A2—CRA Output Dataflows

<b>Output Flow Description</b>	<b>Flow Sent to</b>
Change of Party Registration Details	BSCCo
Registration Report	BSC Parties (& Public), BSCCo
Authentication details	FAA ECVAA SAA BMRA
BM Unit and Energy Account registration data	ECVAA SAA FAA BMRA Market Domain Data Agent
Metering Systems registered to CRA	CDCA
Operations registration and standing data	SO and BSCCo
Updated list of BSC Party Agents	BSC Party
Embedded Generation and Demand sites Metering Systems registered in the central registration system by the CRA	SMRA
Supplier BM Unit	SVAA
Performance Reports	BSCCo
Metering System identifiers for Technical Assurance	TAA
Validation Details for Registration Transfer	BSCCo
Rejection of Amendment to Trading Unit Allocation for Exempt Export BM Units	BSC Party
Rejection of Amendment to Production / Consumption Flag for Exempt Export BM Units	BSC Party
Withdrawals Checklist	BSCCo