

**Redlined SAA URS for CP1453 ‘Changes to SAA Service Description and SAA URS for P269 systems fix’.**

This CP proposes changes to Sections 4.4 and 5.8 of the Settlement Administration Agent (SAA) User Requirements Specification (URS).

We have redlined these changes against Version 19.0.

Amend Section 4.4 as follows:

#### 4.4 Requirements Summary

The following table summarises the requirements of the SAA service. These are then described in detail in section 5, including the source reference for each requirement.

Requirement ID.	User Requirement
<i>Functional</i>	
SAA-F001	Produce Settlement Calendar
SAA-F002	Validate settlement data
SAA-F003	Validate SVAA meter data
SAA-F004	Calculate Supplier BM Unit Metered Volumes
SAA-F005	Calculate balancing mechanism volumes
SAA-F006	Calculate BM unit transmission loss multipliers
SAA-F007	Calculate balancing mechanism cashflows
SAA-F008	Calculate <del>C</del> redited <del>E</del> nergy <del>V</del> olumes
SAA-F009	Calculate energy imbalance prices
SAA-F010	Calculate interconnector error
SAA-F011	Calculate energy imbalance cashflows
SAA-F012	Validate Adjustment Data
SAA-F013	Calculate information imbalance charges
SAA-F014	Calculate non-delivery volumes
SAA-F015	Calculate non-delivery charges
SAA-F016	Calculate system operator BM cashflow
SAA-F017	Calculate residual cashflows
SAA-F018	Allocate BSCCo Ltd Costs (Redundant)
SAA-F019	Aggregate charges and payments
SAA-F020	Validate Market Index Data
SAA-F021	Manage settlement disputes
SAA-F022	Provide settlement reports
SAA-F023	Process Market Index Data Provider Liquidity Thresholds
SAA-F024	Daily Check for Missing Settlement Calculation Data Flows
SAA-F025	Process Withdrawals Party Settlement Details
SAA-F026	Process Emergency Acceptance Data
SAA-F027	Calculate BM Unit Gross Demand for EMR
SAA-F028	Compare SBR Imbalance Price and System Buy Price
<i>Interface</i>	
SAA-I001	Receive Registration Data
SAA-I002	Receive Credit Assessment Load Factor
SAA-I003	Receive Balancing Mechanism Data
SAA-I004	Receive Period Meter Data
SAA-I005	<i>Requirement not currently used</i>
SAA-I006	Receive Interconnector User BM Unit Metered Volumes
SAA-I007	Receive BM Unit Allocated Demand Volume
SAA-I008	Receive Energy Contract Data
SAA-I009	Receive Transmission Loss Data
SAA-I010	Receive BSCCo Ltd Cost Data (Redundant)
SAA-I011	Receive Payment Calendar Data
SAA-I012	Receive Dispute Notification
SAA-I013	Issue Credit/Debit Reports (initial and revised)
SAA-I014	Issue Settlement Reports
SAA-I015	Issue BM Unit CAIC Data
SAA-I016	Publish Settlement Calendar
SAA-I017	Issue SAA Data Exception Reports
SAA-I018	Issue Dispute Reports

<b>Requirement ID.</b>	<b>User Requirement</b>
SAA-I019	Issue BSC Party Performance Reports (Redundant)
SAA-I020	Issue SAA Performance Reports
SAA-I021	Receive Acknowledgement of SAA Messages
SAA-I022	Issue SAA Acknowledgement of Messages
SAA-I023	Receive System Parameters
SAA-I025	SAA BSC Section D Charging Data
SAA-I026	Receive Balancing Services Adjustment Data
SAA-I027	Report pre-settlement run validation failure
SAA-I028	Receive settlement run decision
SAA-I029	Receive settlement run instructions
SAA-I030	Receive Market Index Data
SAA-I031	Receive Market Index Data Provider Thresholds
SAA-I032	Report Market Index Data Provider Thresholds
SAA-I033	Receive Request for Data Change
SAA-I034	Report Recommended Data Change
SAA-I035	Receive Instruction for Data Change
SAA-I036	Report Confirmation of Data Change
SAA-I037	Issue Withdrawing Party Settlement Details
SAA-I038	Receive Excluded Emergency Acceptance Pricing Information
SAA-I039	Send Excluded Emergency Acceptance Dry Run Results
SAA-I040	Receive Authorisation To Proceed With Full Settlement Run
SAA-I043	Demand Control Instructions to CDCA
SAA-I044	Aggregated BM Unit Disconnection Volumes
<i>Non-Functional</i>	
SAA-N001	Audit Requirements
SAA-N002	Security Requirements
SAA-N003	Operational Control
SAA-N004	Euro Compliance

Amend Section 5.8 as follows:

## 5.8 SAA-F008: Calculate Ceredited Energy Volumes

Requirement ID: SAA-F008	Status: M	Title: Calculate <u>C</u> eredit <u>e</u> d <u>E</u> nergy <u>V</u> olumes	<b>BSC reference:</b> RETA CR 005, RETA ERR 1, SAA SD 3.31, 3.32.1, SAA BPM 3.8, P71, <u>P269</u>
Man/auto: Automatic	Frequency: Once, on each settlement run.	Volumes:	
Functional Requirements:			
A number of intermediate calculations are required to produce the <u>C</u> eredit <u>e</u> d <u>E</u> nergy <u>V</u> olumes. All calculation steps in this requirement are included here.			
<u>1: When allocating the BM Unit Metered Volume (QM<sub>ij</sub>) and the Period BM Unit Balancing Services Volume (QBS<sub>ij</sub>) to Energy Account a for each Settlement Period j, under steps 2 and 3 below:</u>  <u>Where BM Unit i is a Production BM Unit (has a P/C Status of Production) for that Settlement Period j, then Energy Account a shall be the Production Energy Account</u>  <u>Otherwise,</u> <u>Where BM Unit i is a Consumption BM Unit (has a P/C Status of Consumption) for that Settlement Period j, then Energy Account a shall be the Consumption Energy Account</u>			
<u>For each Settlement Period j, the SAA shall determine the P/C Status of BM Unit i according to the rules applied by the CRA<sup>1</sup> for the corresponding Settlement Day.</u>  <u>The SAA shall retain a record of the P/C Status applied in the Credited Energy Volume calculation for each BM Unit i and Settlement Period j.</u>			
<u>24: The Credited Energy Volume QCE<sub>iaj</sub> from each BM Unit i, shall be allocated to each Energy Account a of each Subsidiary Energy Account for each Settlement Period j, as follows:</u>  QCE <sub>iaj</sub> = {(QM <sub>ij</sub> - QBS <sub>ij</sub> )*(QMPR <sub>iaj</sub> /100) + QMFR <sub>iaj</sub> }*TLM <sub>ij</sub> ,  Where			

<sup>1</sup> As detailed in the CRA URS.

$a \neq A$ , and  $A$  is the Lead Energy Account for BM Unit  $i$ ;  
 $QMFR_{iaj}$  is the Metered Volume Fixed Reallocation, a fixed volume in MWh, assigned to Energy Account  $a$  from BM Unit  $i$  in Settlement Period  $j$ ;  
 $QMPR_{iaj}$  is the Metered Volume Percentage Reallocation, the percentage of the BM Unit Metered Volume that remains after Balancing Actions have been deducted, which is allocated to Energy Account  $a$  from BM Unit  $i$  in Settlement Period  $j$ ; and  
 $QM_{ij}$  is the BM Unit Metered Volume.<sup>22</sup>

$QCE_{iaj}$  are rounded down to the nearest kWh.

**32:** The Lead Party Credited Energy Volume shall be calculated for the Lead Energy Account, for each BM Unit  $i$ , in each Settlement Period  $j$ , as follows:

$$QCE_{iA_j} = (QM_{ij} * TLM_{ij}) - \sum_{a \neq A} QCE_{iaj}$$

Where  $\sum_{a \neq A}$  represents a sum over all Energy Accounts, other than the Lead Energy Account.

This allocates any residual metered volume, including any Balancing Mechanism action to the Lead Energy Account. This ensures that all the BM Unit Metered Volume flow is always allocated in full.

**43:** The Account Credited Energy Volume ( $QACE_{aj}$ ) shall be calculated for each Energy Account  $a$ , as follows:

$$QACE_{aj} = \sum_i QCE_{iaj}$$

Non-Functional Requirement:

Interfaces:

Issues: