SVG101/02

Meeting name	Supplier Volume Allocation Group (SVG)
Date of meeting	30 June 2009
Paper title	Change Proposal Progression
Purpose of paper	For Decision
Synopsis	This paper provides: • 4 Change Proposals (CPs) for decision; and • details of the status of all Open Draft Change Proposals (DCPs) and Change Proposals (CPs).

1 Introduction

1.1 This paper provides details of 4 Change Proposals for you to consider and agree their progression. ELEXON issued the CPs for Parties/Party Agent impact assessment via Change Proposal Circular (CPC) 00661. In light of these assessments ELEXON invites the SVG to decide whether to approve or reject the CPs.

2 Summary of Change Proposals for progression

2.1 CP1290 – Rationalise and Simplify Unmetered Supplies requirements following a review by an Expert Group

CP1291 – Clarify requirements on Meter Administrators relating to Equivalent Meters

CP1292 - Clarify Meter Administrator requirements relating to PECU arrays

2.2 ELEXON raised CP1290, 1291 and 1292 on behalf of the Meter Administrator Expert Group (MAEG) on 10 May 2009. We issued the 3 CPs for impact assessment (via CPC00661) in May 2009.

2.3 **CP1290** aims to correct a number of inaccuracies and inconsistencies that were identified in BSCP520. The correction of these inconsistencies will prevent confusion, particularly for new entrants who may not be familiar with the arrangements.

2.4 We received 10 responses to the industry impact assessment; of these 8 agreed, none disagreed and 2 were neutral. Most respondents support the proposal because it provides clarity to the BSCP, thus making it easier for MAs and new market entrants to understand their requirements.

2.5 Two respondents believe the reference to the Statutory Instrument (SI) document in section 1.1 should be supplemented by maintaining the description of the information contained within the SI document, rather than only directing the reader to the document. ELEXON discussed with the respondents and agrees with their comments. Therefore we recommend that the SVG agree that the details of the content of the SI document should be included in section 1.1 of BSCP520. The two respondents were satisfied with this approach. We recommend that the SVG approve these amendments as set out in table 1.2 of Appendix 1.

2.6 **CP1291** recommends changes to BSCP520 to:

- add detail describing the Population, Amendment and reporting of data - within the Equivalent Meter (EM) requirements;
- clarify Fault Reporting; and

- include a requirement for a Technical Specification for EM Calculations.

2.7 The inclusion of a specification for EM calculations will assist the Auditor in assessing the MA action in executing its obligations under BSCP520. It will also ensure that MAs are clear on their obligations. CP1291 also proposes to clarify the MA responsibilities when managing faults, which is particularly important for new entrants, who may not be familiar with the arrangements.

2.8 We received 10 responses to the industry impact assessment; of these 7 agreed, none disagreed and 3 were neutral. Several respondents highlighted that they feel that these changes will provide greater clarity surrounding Unmetered Supplies processing.

2.9 Two respondents provided comments on the redline text of CP1291. ELEXON agrees with some of the changes suggested and recommends that the SVG approve these as set out in section 4.2 and table 2.3 of appendix 1.

2.10 **CP1292** proposes changes to BSCP520 to add clarity and remove the potential of doubt about the correct process for PECU arrays. The recommended changes will help ensure that Half Hourly (HH) Unmetered data is calculated accurately, by having clear requirements for the siting, upkeep and defaulting processes for PECU array data.

2.11 Additionally, the amended BSCP520 will provide a clearer guidance to the Auditor in terms of the expectations on the Meter Administrator following PECU Array failure.

2.12 We received 10 responses to the industry impact assessment; of these 7 agreed, none disagreed and 3 were neutral. Respondents supported the proposed changes to the BSCP520 because they will improve the clarity of BSCP520.

2.13 Three respondents provided minor comments on the redline text of CP1292. ELEXON agrees with all of the changes suggested, and recommends that the SVG approve these as set out in section table 3.3 of appendix 1.

2.14 We recommend, based on these 3 CPs providing greater clarity within BSCP520, and unanimous industry support, that you:

- **AGREE** our suggested amendments to the redline text for CP1290, CP1291 and CP1292; and
- **APPROVE** CP1290, CP1291 and CP1292 for implementation in the November 2009 Release.

2.15 CP1294 – Housekeeping Change to SVA Data Catalogue Volume 2

2.15.1 We presented the details of CP1294 to SVG on 02 June 2009 (SVG100/02), when you agreed that it is a Housekeeping Change.

2.15.2 On 3 March 2009 you approved CP1269 'Publication of additional Non Half Hourly Combination Data in Market Domain Data'. CP1269 will introduce 3 new data items into the D0269 'Market Domain Data Complete Set' and D0270 'Market Domain Data Incremental Set' flows.

2.15.3 However, we omitted 2 of the data items ('Effective From Settlement Data' and Effective To Settlement Date') from the redlined changes to the SVA Data catalogue Volume 2. We have consequently raised CP1294 to include the 2 data items in the SVA Data Catalogue Volume 2.

2.15.4 Since your last meeting we have emailed all BSC Change Administrators (BCAs) and Party Agent Change Administrators (PACAs) to advise them that we have raised CP1294, that you have agreed that it is a housekeeping CP, and that they will not receive an impact assessment request. We haven't received any queries.

2.15.5 We recommend, because CP1294 will correct a minor inconsistency, prevent confusion and promote clarity and will achieve the full intention of CP1269, that you:

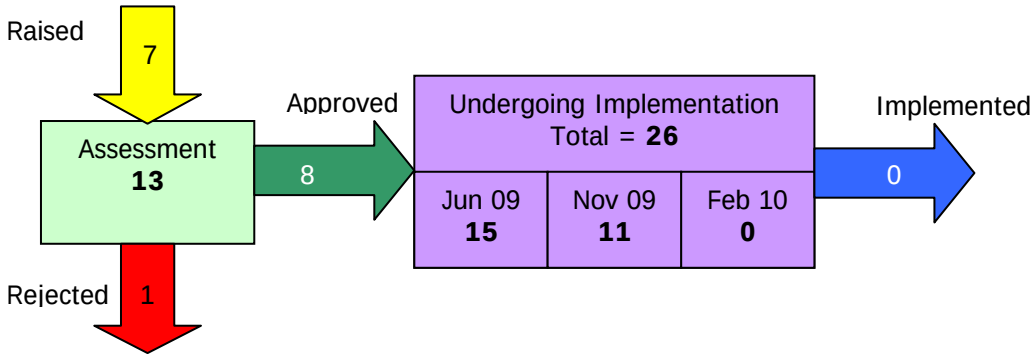
- **APPROVE** CP1294 for inclusion in the November 2009 Release.

2.16 Implementation Costs

	BSC Agent (Demand Led)	ELEXON Operational		Total		Impacts
	Cost	Man Days	Cost	Cost	Tolerance	
CP1290	£0	3	£660	£660	10%	BSCP520
CP1291	£0	2	£440	£440	10%	BSCP520
CP1292	£0	2.5	£550	£550	10%	BSCP520
CP1294	£0	0	£0	£0	10%	SVA Data Catalogue Volume 2

3 Summary of Open Change Proposals

3.1 There are currently **39** open CPs, SVG own **24** CPs, **11** CPs are co-owned by the SVG and ISG and ISG own the remaining 4 CPs. 7 new CPs have been raised since the last SVG meeting. Details of the new CPs are provided in Appendix 3 on page 24.



Please note:

- The numbers in the boxes indicate the number of CPs in a given phase.
- The numbers in arrows show the variance in the past month.

3.2 There are currently 4 open DCPs, all of which have been raised since the last SVG meeting. Details of the new DCPs are provided in Appendix 6 on page 23.

4 Recommendations

4.1 The SVG is invited to:

a) **AGREE** our suggested amendments to the redline text for CP1290, CP1291 and CP1292;

b) **APPROVE** CP1290, CP1291, CP1292 and CP1294 for inclusion in the November 2009 Release; and

c) **NOTE** the status of all open Draft Change Proposals and Change Proposals.

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List of Appendices:

Appendix 1 – Detailed Analysis of CP1290, CP1291 and CP1292
Appendix 2 - New Draft Change Proposals and Change Proposals
Appendix 3 – Release Information

List of Attachments:

Attachment A – CP1290 – BSCP520 redlined
Attachment B – CP1291 – BSCP520 redlined
Attachment C – CP1292 – BSCP520 redlined
Attachment D – CP1294 – SVA Data Catalogue Volume 2 redlined

Appendix 1 – Detailed Analysis of CP1290, CP1291 and CP1292

1 Why Change?

1.1 Background

1.2 Meter Administrators (MA) were included in the scope of the BSC Audit for the first time in the 2006/7 Audit. The BSC Auditor raised six market issues in respect of Meter Administrators. These were:

- Utilisation of incorrect / unapproved standing data (Issue 2012);
- Lack of audit trail over MA settlement impacting information (Issue 2013);
- Performance and Monitoring of PECU arrays (Issue 2014);
- BSCP/PSL inconsistencies (Issue 2016);
- Incorrect Calculation of Consumption – passive and dynamic meters (Issue 2017); and
- Continuity of Meter Administrator duties (Issue 2018).

1.3 A Meter Administrator Expert Group (MAEG) was set up to address these issues. The MAEG believed a walkthrough of BSCP520 'Unmetered Supplies Registered in SMRS' would help to resolve some of the concerns highlighted by the Auditor.

1.4 The Problem

1.5 **CP1290** (Rationalise and Simplify Unmetered Supplies requirements following a review by an Expert Group): The MAEG identified a number of inaccuracies and inconsistencies in BSCP520. Many of these have been created as a result of the merger of PSL170 into BSCP520, which caused some duplication and inconsistencies between sections. CP1290 seeks to resolve these inconsistencies and other minor errors identified by the MAEG.

1.6 **CP1291** (Clarify requirements on Meter Administrators relating to Equivalent Meters): The MAEG identified a number of inaccuracies and inconsistencies in the requirements on Meter Administrators (MAs) relating to Equivalent Meters (EMs).

1.7 **CP1292** (Clarify Meter Administrator requirements relating to PECU arrays): During the BSCP520 walkthrough the Meter Administrator Expert Group (MAEG) identified that we need additional clarity for the Meter Administrator requirements relating to PECU (Photo-Electric Cell Unit) arrays.

2 Solution

2.1 **CP1290**: Attachment B to CP1290 includes the detailed description of the defects and agreed actions for each change recommended by the group. To correct the inconsistencies identified, BSCP520 should be updated to:

- Remove duplication and contradictions, such as consistent use of defined terms (e.g. 'Time Switch Regimes' and 'Charging Codes' being used instead of 'Switch Regimes' and 'Charge Codes');
- Define acronyms clearly at the beginning of the document and remove superfluous acronyms that no longer referred to in BSCP;
- Correct capitalisation of defined terms within the BSCP;

- Add references, and further detail, on the use of P-Flows and the Central Management; System (CMS) control file; and
- Specify the timescale of performance measures in section 4.8.2 for MAs to deliver obligations.

2.1.1 The detailed redline changes are available in Attachment A to this paper.

2.2 **CP1291**: As a result of the walkthroughs, the group recommend changes to the Equivalent Meter sections of BSCP520 to address the Audit issues. Attachment B of CP1291 includes all the changes and rationales to the relevant documents at the end of the walkthrough.

2.2.1 Additionally, ELEXON suggested some further changes to BSCP520 within CP1291, these are described below with rationale, (the section numbers of the changes to BSCP520 are shown in brackets):

- Add detail describing the Establishment Population, Amendment and reporting of data within an EM (sections 3.1 and 3.2);
- Remove an irrelevant P0068 from the information required box (section 3.1.11);
- Remove duplicated steps within processes (section 3.1.12, 3.1.17 and 3.3.1.5);
- Remove an unnecessary action which is covered by other sections (section 3.2.3);
- Move step to below 3.1.14 and re-number subject to step 39 (section 3.3.1.2);
- Remove step, as it refers to SMRA processes (section 3.5.2);
- Remove unnecessary reference to D0003 and question on whether the Supply is to be treated as Unmetered (section 3.5.3);
- Update the when box referring the appointment of HHDA (section 3.5.4);
- Remove irrelevant action to EM (section 3.9.1.4);
- Remove duplication (section 3.9.1.5, 3.9.1.7-3.9.1.9 and 3.15);
- Remove unnecessary Fault Reporting details (sections 3.14);
- Update the requirement for a Technical Specification for EM Calculations (section 4.5, as recommended by the Auditor under Issue 2016); and
- Move EM switching actions from section 4.5.2 to 4.5.1 for consistency.

2.2.2 The detailed redline changes are available in Attachment B to this paper.

2.3 **CP1292**: As a result of the walkthroughs, the group recommend changes to the PECU array sections of BSCP520 to address the Audit issues. Attachment B of CP1292 includes all the changes and at the end of the walkthrough.

2.3.1 Additionally, ELEXON suggested some further changes as part of CP1292 to BSCP520, these are stated below, with rationale (the section numbers of the changes to BSCP520 are shown in brackets):

- Rewording to clarify MA obligations and to make reference in other sections of this document (section 1.2.1)

- Changes to add clarity to the MA role and extend the factors that can be considered when deciding the location of the PECU array (section 4.5.1.1);
- Renumber section 4.5.1.2 and update the requirements on the type of PECU that can be used and add a requirement for maintenance upkeep of the PECU arrays;
- Renumber section 4.5.2.1 clarify that this is the minimum specification, and remove unnecessary items; and
- Minor changes to make this section consistent with the rest of BSCP520.

2.3.2 The detailed redline changes are available in Attachment C to this paper.

3 Intended Benefits

3.1 **CP1290**: To avoid confusion, it is essential to ensure that BSCP520 is clear, accurate and consistent. This is particularly important for new entrants, who may not be familiar with the arrangements.

3.2 **CP1291**: The inclusion of a Specification for EM calculation (in section 4.5) will assist the Auditor in assessing the MA actions in executing its obligations under BSCP520; and ensure that MAs are clear on their obligations. We have clarified the MA responsibilities when managing faults and inconsistencies, so that MAs are clear on their obligations. This is particularly important for new entrants, who may not be familiar with the arrangements.

3.3 **CP1292**: In order to ensure that Half Hourly (HH) Unmetered data is calculated accurately, it is essential to have clear requirements for siting, upkeep and defaulting processes for PECU array data. This CP proposes changes to the BSCP520 to add clarity and remove the potential of doubt about the correct process, which is essential for the BSCP user. Additionally, the amended BSCP520 will provide a clearer guidance to the Auditor in terms of the expectations on the Meter Administrator following PECU or PECU Array failure.

4 Industry Views

4.1 **CP1290**: We received 10 responses; of these 8 agreed, none disagreed and 2 were neutral. Most respondents support the proposal because it provides clarity to the BSCP, thus making it easier for MAs and new market entrants to understand their requirements.

4.1.1 During the walkthroughs, the MAEG compared the Section 1 of BSCP520 with the Statutory Instrument (SI) and decided to replace it with a cross reference to the SI, because the SI contains much more detail than BSCP520 section 1 and the SI can be easily accessed on internet.

4.1.2 Two respondents believe the reference to the Statutory Instrument (SI) document, as well as the brief description of the content should be retained within the BSCP520 section 1, rather than only directing the reader to the SI document - as the BSCP is the main source of the arrangements for UMS trading.

4.1.3 ELEXON discussed with the respondents and agrees with their comments. Therefore we recommend that the SVG agree that the details of the content of the SI document should be included in the section 1.1 of BSCP520, as well as the cross reference the SI. The two respondents were satisfied with this approach. We recommend that the SVG approve these amendments as set out in table 1.2 of Appendix 1.

4.2 **CP1291**: We received 10 responses; of these 7 agreed, none disagreed and 3 were neutral. Several respondents highlighted that they feel that these changes will provide greater clarity surrounding Unmetered Supplies processing.

4.2.1 Two respondents had comments on the redline text. ELEXON agrees with most of the comments and we recommend that SVG agree to amend the text as recommended in the ELEXON response column of table 2.3 on page 13. Details of the other changes suggested by respondents (which ELEXON does not recommend are made) are also located in this table.

4.3 **CP1292**: We received 10 responses; of these 7 agreed, none disagreed and 3 were neutral. Respondents indicated that they support the proposed changes to the BSCP520 since they will assist in improving clarity of the BSCP520.

4.3.1 We received a few comments on the redline text, we agree with all of the changes suggested (as set out in table 3.3. We therefore recommend that the SVG agree that these changes should be made.

5 Impacts and Costs

Market Participant	Impacts	Implementation time needed
ELEXON (Implementation)	The estimated costs for ELEXON to implement CP1290, CP1291 and CP1292 are: £660, £440 and £550 respectively.	November 09 Release suitable
Suppliers, Supplier Agents and LDSOs	Most participants indicated that they are not impacted by these changes, a few however, highlighted that they need to make minor internal documentation and/or process changes.	0-30 WDs November 09 Release suitable

6 Implementation Approach

6.1 We recommend implementing CP1290, CP1291 and CP1292 in the next available Release - November 2009. All respondents agree that they can implement these changes by November 2009.

7 Recommendation

7.1 We recommend, based on these 3 CPs providing a greater clarity within BSCP520, and unanimous industry support, that you:

- **AGREE** our suggested amendments to the redline text for CP1290, CP1291 and CP1292; and
- **APPROVE** CP1290, CP1291 and CP1292 for implementation in the November 2009 Release.

Lead Analyst for CP1290, CP1291 and CP1292: Bu-Ke Qian – tel. 0207 380 4146,
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Table 1.1: Industry Impact Assessment Summary for CP1290 - Rationalise and Simplify Unmetered Supplies requirements following a review by an Expert Group

IA History CPC number	CPC00661	Impacts	BSCP520

Organisation	Capacity in which Organisation operates in	Agree?	Days to Implement
IPNL	LDSO, SMRA, UMSO	Yes	-
Power Data Associates Ltd	Meter Administrator	Yes	30
EON	NORW, EELX, EENG, EMEB, PGEN	Yes	-
EDF Energy	Supplier, NHH Agents and HH MOP	Yes	-
Central Networks	UMSO	Yes	0
ScottishPower	Supplier, LDSO, HHDA, NHHDA, HHDC, NHHDC, HHMOA, NHHMOA	Yes	30
NPower Limited	Supplier, Supplier Agents	Yes	-
Scottish and Southern Energy	Supplier/Generator/ Trader / Party Agent / Distributor	Yes	0
TMA data Management Ltd	HHDC, HHDA, NHHDC, NHHDA	Neutral	-
British Energy	Generator, Supplier, Trader Non-Physical	Neutral	-

Table 1.2: CP1290 Impact Assessment Responses[1]

Organisation	Agree?	Comments	Impact?	ELEXON Response
IPNL	Yes	IPNL supports the proposal as it provides clarity to the code thus making it easier for MAs and new market entrants to understand their requirements.	No	Noted.
Power Data Associates Ltd	Yes	**Comments**: The three UMS changes to BSCP520 are the result of a detailed review by an expert group. The review was prompted by BSC audit issues revealing considerable ambiguity, which has led to a wide diverge between the BSCP and actual practice. It is important that these changes are approved to improve the quality of UMS settlement data. **Impact on Organisation**: Revision to operational	Yes	Noted.

[1] Please note that we have only included responses in this table where the respondent provided additional information.

		documentation.		
Central Networks	Yes	**Comments:** Central Networks supports these changes as they will bring greater clarity to BSCP520 and the associated Unmetered Supplies processes. **Impact:** No	No	Noted.
ScottishPower	Yes	**Comments:** Though ScottishPower agrees with and supports the CP we feel that reference to the statutory document as well as the description contained therein should be retained within the BSCP520 section 1.1 rather than only directing the reader to the statutory document. As the BSCP is the main source of the arrangements for UMS trading we believe the sector would be best served by continuing to include what constitutes an UMS connection within the BSCP. We appreciate that this will result in an additional overhead to ensure consistency between the two documents but see no reason not to retain the description in the BSCP. **Capacity in which Organisation is impacted:** Supplier, UMSO, HHDC, HHDA **Impact**: Internal Documentation changes **Implementation** 30 WD	Yes	We discussed these comments with Scottish Power and SSE (see similar comment below) and agree that retaining this information would be useful. We believe that it would also be useful to include a reference to the SI document, so that it is clear where the requirements come from. We also suggest revising the existing wording slightly to more clearly reflect the information in the SI document. These changes are to: i) include a reference to the disputes process; ii) make it clear that the customer, Supplier and LDSO must all agree that a supply is to be classed as UMS; and iii) make it clear that Metering Systems that were classed as UMS before these requirements came into place can remain classified as UMS as long as the Supplier, customer and LDSO agree with this arrangement. We have discussed this redlining with the respondents who suggested the change and they were comfortable with the change. We also sent this update to the Expert Group, who have not provided any further comments. We note that changing this section does not change the obligations on participants, as the requirements are taken from the SI, which was already referenced in the first draft

				of the redlining. We recommend that section 1.1 should read: 'The UMSO shall only consider providing an UMS at an exit point in accordance with Statutory Instrument 2001 No. 3263 which states: (1) Subject to sub-paragraphs (2) and (3), an unmetered supply may be given where: (a) the electrical load is of a predictable nature, and (b) either: (i) the electrical load is less than 500W; or (ii) it is not practical for a supply of electricity to be given through an appropriate meter at the premises due to - (aa) the anticipated metering costs in the particular case being significantly higher than the usual metering costs associated with that size of electrical load; (bb) technical difficulties associated with providing such a meter in the particular case; or (cc) operation of law so as to prohibit or make excessively difficult the provision of such a meter in the particular case. (2) Subject to regulation 4, an unmetered supply shall only be given where the authorised distributor, authorised supplier and the customer have agreed to such a supply. (3) An unmetered supply which does not fall into the

				categories given in sub-paragraph (1) and which is first given prior to the date on which these Regulations came into force and which has been so supplied since that date, may continue to be an unmetered supply where the authorised distributor, authorised supplier and customer concerned agree to such continuation. The SI also gives details to the Disputes process.
NPower Limited	Yes	**Impact**: Process Impact Only	Yes	Noted.
Scottish and Southern Energy	Yes	**Comment**: Although we agree with the rationale to simplify the requirements - our main concern with the proposed changes is the referencing of the SI 2001 No 3263 to the clause 1.1 Scope and Purpose of Responsibilities. The SI wordings should not be deleted from the BSCP 520 as it makes it easier for customers and UMS operational staff to understand what they can and can't install. We believe that just having yet another reference, will actually add complexity to the requirements causing confusion to all concerned (especially customers), having to track down and read through yet another document.		See our response to the comment from Scottish Power above, for more detail.

Table 1.3: Comments on the CP1290 redline text

We didn't receive any comments on the redline text.

Table 2.1: Industry Impact Assessment Summary for CP1291 - Clarify requirements on Meter Administrators relating to Equivalent Meters

IA History CPC number	CPC00661	Impacts	BSCP520

Organisation	Capacity in which Organisation operates in	Agree?	Days to Implement
Power Data Associates Ltd	Meter Administrator	Yes	30
EON	NORW, EELX, EENG, EMEB, PGEN	Yes	-
EDF Energy	Supplier, NHH Agents and HH MOP	Yes	-
Central Networks	UMSO	Yes	0
ScottishPower	Supplier, LDSO, HHDA, NHHDA, HHDC, NHHDC, HHMOA, NHHMOA	Yes	30
NPower Limited	Supplier, Supplier Agents	Yes	-
Scottish and Southern Energy	Supplier/Generator/ Trader / Party Agent / Distributor	Yes	0
TMA data Management Ltd	HHDC, HHDA, NHHDC, NHHDA	Neutral	-
IPNL	LDSO, SMRA, UMSO	Neutral	-
British Energy	Generator, Supplier, Trader Non-Physical	Neutral	-

Table 2.2: CP1291 Impact Assessment Responses[2]

Organisation	Agree?	Comments	Impact?	ELEXON Response
Power Data Associates Ltd	Yes	**Comment:** The three UMS changes to BSCP520 are the result of a detailed review by an expert group. The review was prompted by BSC audit issues revealing considerable ambiguity, which has led to a wide diverge between the BSCP and actual practice. It is important that these changes are approved to improve the quality of UMS settlement data. **Impact:** Revision to operational documentation	Yes	Minor impact noted.
Central Networks	Yes	**Comment**: Central Networks welcomes these changes which will provide greater clarity surrounding Unmetered Supplies processing. We particularly welcome the introduction of timescales surrounding the processing of summary inventories and resolution of data inaccuracies.	No	Noted.

[2] Please note that we have only included responses in this table where the respondent provided additional information.

		Impact: None **Implementation Notification required**: 0 - No change to existing processes		
ScottishPower	Yes	**Comment**: ScottishPower supports the proposed changes to the BSCP520. The proposed changes will assist and improve clarity of the BSCP. **Impact**: Internal process and documentation changes	Yes	Minor impact noted.
Npower Limited	Yes	Process Impact Only		Process impact noted.

Table 2.3: Comments on the CP1291 redline text

No	Organisation	Document name	Location	Severity Code[3]	Comments	ELEXON Recommendation
1	Power Data Associates Ltd	BSCP520	Current 1.2.4.4	M	The MA shall use only an Equivalent Meter (i.e. whether passive or dynamic) permitted for use within the relevant GSP Group by the LDSO. *The bracket is already included in 1.2.1 (e) and it would be appropriate to repeat it here.*	ELEXON recommends that the change should not be made since the MAEG agreed that this sentence should be removed as part of CP1291. This is shown in the attached redlining.
2	Power Data Associates Ltd	BSCP520	4.5.1	M	Note: The EM will log all switching actions to at least the nearest minute. *Lailoken captures switching time to the nearest second, would not wish to be at conflict with this requirement when Lailoken is*	ELEXON recommends that the SVG agree that this change should be made, because the extra wording 'at least' in the final sentence of 4.5.1 provides more accuracy.

[3] High, Medium or Low

					being more accurate.	
3	Power Data Associates Ltd	BSCP520	3.1.5	M	*The note refers to 'dummy MOA' should this not be the UMSO or MA as per 1.3.7 & 1.3.8. I suggest the note is deleted.*	ELEXON recommends that the change should not be made because the process that this note refers to may change if CP1267 were implemented. CP1267 v2.0 is currently out for impact assessment as part of CPC00662.
4	Power Data Associates Ltd	BSCP520	3.1.7	L	When: On Customer or Supplier request. *At working group we agreed this normally was triggered by the customer, but it may be triggered by supplier.*	ELEXON recommends that the change should be made, this is consistent with the wording currently included in 4.5.1.1, where the Supplier is involved in the final agreement of the PECU array location. The wording in the 'when' box of section 3.1.7 should be amended to say: 'On Customer **or Supplier** request'
5	Power Data Associates Ltd	BSCP520	3.1.7	M	Request from the UMSO the type of EM and the location, if any, of the PECU arrays(s) and other factors relevant to the PECU Array Siting Procedure in 4.5.1.1 *As this process is for a new inventory it is unlikely there will be an array, but the UMSO could provide the relevant information.*	As noted in comment 4 (above), this step relates to section 4.5.1.1. We also note that CP1291 already proposes that similar wording is included in step 3.1.8. Therefore, ELEXON recommend that the additional wording suggested here should be included in the 'action' step of 3.1.7 to provide clarification for a new inventory.
6	Power Data Associates Ltd	BSCP520	3.2.2	M	*We want a step (when box statement) that requires the UMSO to review the inventory provided by the customer within 5WD of receipt – they may reject it back to the customer (with reasons), or accept it – but they should not 'sit on it' for weeks. With some UMSOs, this delay is*	ELEXON agrees that the UMSO shouldn't 'sit on' an inventory for weeks. However, we have asked other respondents for their views on this comment. The four respondents who have provided feedback have all indicated that they strongly disagree with the change; they believe that adding this timescale is material, and therefore should not be considered at this stage in the CP process. One respondent provided further information to explain why

					causing many inventories to be backdated weeks/months – which puts additional work on MA, HHDC, Supplier & customer, as well as settlement error.	this is significant: • There are significant peaks in workload over the course of each month, so at peak times it would not be possible to meet very short timescales; • Inventories are provided in many different formats, some of which can require significant manual work to upload (up to a full days work); • Inventories often contain errors and omissions that need to be discussed with the provider and corrected, these discussions can take several weeks (simply rejecting these inventories and waiting for a completely correct response would take even longer, as in reality they may just ignore the rejection and make no effort to send it in the correct information); and • The UMS system itself is not always available (e.g. due to system updates). Based on these comments we recommend that the SVG agree that this suggested amendment is material, and should not be included within this CP.
7	Power Data Associates Ltd	BSCP520	3.2.4	M	The 'when box should be deleted and replaced with that of 3.1.13	ELEXON agrees that the wording of the 'action' column in 3.2.4 could be improved. See comment 13 (below) for our recommended changes.
8	Power Data Associates Ltd	BSCP520	3.3.1.3	M	*Need to be consistent here, is the agreement between UMSO & Supplier or UMSO and MA? I think the MA.*	ELEXON note that the wording of 3.3.1.3 is slightly confusing as it is currently written. While the Supplier and MA are included in the 'to' column, only the Supplier is mentioned in the 'action' column. We believe that the best way to add clarity is to remove the word 'supplier' from the action column. The word isn't required as the recipients are already stated in the 'to' column. Given that the current redlining suggests that the MA and Supplier are added to the action column, we believe that the

						intention of the group was that this is a 3-way-agreement (though the agreement is mainly between UMSO and MA), Suppliers may not be interested, but should still be included. The respondent would prefer replacing the word 'Supplier' within the action column with 'MA', however, we still believe it is more consistent to amend the redline text in action box in 3.3.1.3 as follows: 'Agree ~~with Supplier~~ the type of EM the location, …' Therefore we recommend that SVG agree this revised wording.
9	Power Data Associates Ltd	BSCP520	3.3.1.7 to 3.3.1.9	M	*These steps (as a new MA) should be the same as 3.1.12 to 3.1.16*	While we agree that it is useful to have as much consistency as possible between sections, making these steps match would require changes to multiple rows and columns within section 3.3.1. We feel that this level of changes is inappropriate at this stage of the CP process, as they would not be consulted on, or go through the normal review processes (and so could introduce errors). The Expert Group reviewed BSCP520 thoroughly and did not suggest these changes. Therefore we recommend that SVG agree that these changes aren't made, and that ELEXON should consider whether any further changes could be made to this section to improve consistency (any changes could then be raised as a new CP). However, we note that the action column of 3.3.1.9 is misleading as it currently stands, and should be updated. We recommend that the SVG agree that that the actions column of 3.3.1.9 should be updated, as part of CP1291, as follows:

						'~~Send METD and I~~ **L**iaise with HHDC to ensure data from the EM can be processed'
10	Power Data Associates Ltd	BSCP520	3.4.3	M	*These steps (as a new MA) should be the same as 3.1.12 to 3.1.16*	While we agree that it is useful to have as much consistency as possible between sections, making these steps match would require changes to multiple rows and columns within section 3.4. We feel that this level of changes is inappropriate at this stage of the CP process, as they would not be consulted on, or go through the normal review processes (and so could introduce errors). The Expert Group reviewed BSCP520 thoroughly and did not suggest these changes. Therefore we recommend that SVG agree that these changes aren't made, and that SVG agree that ELEXON should consider whether any further changes could be made to this section to improve consistency. Any changes could then be raised as a new CP.
11	Power Data Associates Ltd	BSCP520	All		Not attempted to check all the cross references, particularly as these may differ if one or all of the changes are agreed.	ELEXON recommend that the SVG agree that we should conduct a final review of all of the cross references affected by the redlining for CPs 1290, 1291 and 1292 (or whichever of these CPs are approved), after the redlining has been combined, to ensure that they remain correct.
12	Scottish Power	BSCP520	3.1.8	L	The redlined text states "With 5WD of 3.1.7" Should this be 'within' rather than 'with'.	ELEXON recommends that the change should be made. The redlined text should be corrected to 'With**in** 5 WDs of 3.1.7'.
13	Scottish Power	BSCP520	3.2.4 / 3.3.1	L	The current redlined text does not read well	We agree that the current text could be improved and recommend that the following changes should be made - the action statements in sections 3.2.4 and 3.3.1.8 should be

					"Reject listing invalid codes to the UMSO and continue to use or re-apply previous inventory." Propose it should be changed to "Reject updated summary inventory listing invalid codes to the UMSO and continue to use or re-apply previous inventory."	amended. The 'action' column of 3.2.4 should be updated as follows: 'Reject **updated summary inventory,** listing invalid codes to the UMSO and continue to use or re-apply previous inventory.' The 'action' column of 3.3.1.8 should be updated as follows: 'Reject **summary inventory,** listing invalid codes to the UMSO and continue to use or re-apply previous inventory.'
14	Scottish Power	BSCP520	3.3.13	L	The current text reads Agree with Supplier the type of EM and the location, if any, of the PECU array(s) accordance with the provision of the PECU Array siting procedures in 4.5.1.1. It should read Agree with Supplier the type of EM and the location, if any, of the PECU array(s) in accordance with the provision of the PECU Array siting procedures in 4.5.1.1.	ELEXON recommends that the change should be made. The missing word 'in' should be added into the action box in section 3.3.1.3 as suggested by Scottish Power.
15	Scottish Power	BSCP520	Footnote 3 Pp 27	L	The term "CoMC" should be defined within the glossary of BSCP520 as per the undertaking and aim of CP1290	ELEXON recommends that the change should be made. The acronym 'CoMC' should be defined in the glossary of BSCP520 as 'Change of Measurement Class'

Table 3.1: Industry Impact Assessment Summary for CP1292 - Clarify Meter Administrator requirements relating to PECU arrays

IA History CPC number	CPC00661	Impacts	BSCP520

Organisation	Capacity in which Organisation operates in	Agree?	Days to Implement
Power Data Associates Ltd	Meter Administrator	Yes	30
EON	NORW, EELX, EENG, EMEB, PGEN	Yes	-
EDF Energy	Supplier, NHH Agents and HH MOP	Yes	-
Central Networks	UMSO	Yes	0
ScottishPower	Supplier, LDSO, HHDA, NHHDA, HHDC, NHHDC, HHMOA, NHHMOA	Yes	0
NPower Limited	Supplier, Supplier Agents	Yes	-
Scottish and Southern Energy	Supplier/Generator/ Trader / Party Agent / Distributor	Yes	0
TMA data Management Ltd	HHDC, HHDA, NHHDC, NHHDA	Neutral	
IPNL	LDSO, SMRA, UMSO	Neutral	
British Energy	Generator, Supplier, Trader Non-Physical	Neutral	-

Table 3.2: CP1292 Impact Assessment Responses[4]

Organisation	Agree?	Comments	Impact?	ELEXON Response
Power Data Associates Ltd	Yes	**Comment:** The three UMS changes to BSCP520 are the result of a detailed review by an expert group. The review was prompted by BSC audit issues revealing considerable ambiguity, which has led to a wide diverge between the BSCP and actual practice. It is important that these changes are approved to improve the quality of UMS settlement data. **Impact:** Revision to operational documentation	Yes	Noted.
ScottishPower	Yes	**Comments:** ScottishPower supports the proposed changes to the BSCP520. The proposed changes will assist and improve clarity of the BSCP. **Impact on Organisation's Systems and/or Processes?** Yes **Capacity** in which Organisation is impacted: UMSO, Supplier	Yes	Noted.

[4] Please note that we have only included responses in this table where the respondent provided additional information.

		Impact on Organisation/process: Internal documentation changes only		
NPower Limited	Yes	**Impact**: Process Impact Only	Yes	Noted.

Table 3.3: Comments on the CP1292 redline text

No.	Organisation	Document name	Location	Severity Code[5]	Comments	ELEXON Recommendation
1	Power Data Associates Ltd	BSCP520	4.5.1.1	M	…high density of apparatus unless otherwise agreed between the UMSO and the ~~Supplier~~MA. *The earlier changes make the agreement between the UMSO and the MA, then the last agreement is the UMSO and Supplier – this seems inconsistent. This inconsistency remains in other parts of the document.*	While ELEXON agrees that the MA should be involved in this process, we believe that the Supplier should remain involved in the final steps. Therefore we recommend that the following change should be made to provide more consistency. The redline text in section 4.5.1.1 should be revised to read: '…high density of apparatus unless otherwise agreed between the UMSO**, MA** and the Supplier'
2	Power Data Associates Ltd	BSCP520	All		Not attempted to check all the cross references, particularly as these may differ if one or all of the changes are agreed.	ELEXON recommend that the SVG agree that we should conduct a final review of all of the cross references affected by the redlining for CPs 1290, 1291 and 1292 (or whichever of these CPs are approved), after the redlining has been combined, to ensure that they remain correct.
3	Central Networks	BSCP520	1.2.1 (f)	L	Typo. Should be "siting" not "citing".	ELEXON recommends that the change should be made.
4	Npower	BSCP520	1.2.1 F		"Citing" should be "Siting"	As above.

[5] High, Medium or Low

Appendix 2 – New Draft Change Proposals and Change Proposals

New Draft Change Proposals

DCP	CVA/SVA	Title	Description	Raised
0041	SVA	Clarifications to Gross Volume Correction (GVC) Process	ELEXON has raised DCP0041 with input from the Gross Volume Correction (GVC) working group. DCP0041 is proposing 6 changes to BSCP504 to add clarity to when GVC can be applied.	05/06/09
0042	SVA	Replacing Erroneous Forward Looking EACs	ELEXON has raised DCP0042 with input from the GVC working group. DCP0042 suggests 4 mutually exclusive options to clarify the circumstances in which EAC's can be replaced, to achieve greater consistency in the application of the process. DCP0042 also suggest 5 mutually exclusive options around extending the EAC replacement to the Final Reconciliation (RF) deeming process.	05/06/09
0043	SVA	Use of Gross Volume Correction in Post Final Settlement Runs (PFSR)	ELEXON has raised DCP0043 with input from the GVC working group. DCP0043 has been raised to explore three options that will ensure that Suppliers and NHHDCs apply GVC consistently in the event of a Post Final Settlement Run (PFSR).	05/06/09
0044	SVA	Changes to Long Term Vacant (LTV) Site process where a reading is obtained via a warrant	ELEXON raised DCP0044 to progress one of the outcomes of BSCP40 issue 0004 'Improvements and Clarifications to the LTV Site Process'. Currently, when a reading is obtained via a warrant, a LTV site is removed from the LTV process (because a read has been obtained). When the site re-enters the LTV site process, the deemed read will be based on a positive EAC, which is likely to be inaccurate. This can lead to an error in Settlement. DCP0044 proposes two options to resolve these issues.	05/06/09

New Change Proposals

CP	CVA / SVA	Title	Description	Raised
1294	SVA	Housekeeping Change to SVA Data Catalogue Volume 2	CP1269 'Publication of Additional Non Half Hourly Combination Data in Market Domain Data' was approved by the SVG on 3 March 2009 for implementation in the November 2009 Release. CP1269 introduces the following 3 new data items into the D0269 'Market Domain Data Complete Set' and D0270 'Market Domain Data Incremental Set' flows: • Effective From Settlement Date {VMTCLSPC}; • Effective To Settlement Date {VMTCLSPC}; and • Preserved Tariff Indicator. All of these 3 data items will be included in the Data Transfer Catalogue (DTC) through DTC CP3300, which the MRA Development Board (MDB) has approved for a parallel implementation with CP1269. However, the approved redlined changes for CP1269 only added the Preserved Tariff Indicator to the data item index in Volume 2 of the SVA Data Catalogue. The new Effective From Settlement Date {VMTCLSPC} and Effective To Settlement Date {VMTCLSPC} were unintentionally omitted from this document, CP1294 proposes adding them. This is a minor consistency change, required to prevent confusion, promote clarity and help achieve the full intention of CP1269.	05/06/09
1295	SVA	Process for distribution of MDD Updates not included in D0269/D0270 flows	Currently the majority of MDD updates are sent over the DTN. Certain MDD updates are sent separately as MS Word documents via email, and include: • GSP Group Profile Class Default EACs (GGPCDEAC) – currently sent to NHHDAs; • GSP Group Profile Class Tolerances – currently sent to NHHDCs and Suppliers; and • HH Default EACs – currently sent to HHDAs, HHDCs, Suppliers and LDSOs. These values have historically not been changed often and separately have not warranted a change to include them in the MDD update flows. However it has come to ELEXON's attention that several participants are not receiving this information and are not aware that they should be receiving this information. In order to resolve this issue, ELEXON has raised CP1295 which proposes that: • it is highlighted (in BSCP505, BSCP508 and the SVA Data Catalogue) that NHHDAs will be	05/06/09

CP	CVA / SVA	Title	Description	Raised
			issued GGPCDEAC data via email; and • ELEXON provide SQL scripts to facilitate the loading of this data.	
1296	CVA /SVA	Mandatory Capability to Record Reactive Power Demand (kvar) Values in Code of Practice 5 (CoP5) Meters	Following a Working Group on Absent and Erroneous Reactive Power Data ELEXON has raised CP1296. This is one of 4 CPs (1296, 1297, 1298 and 1299) which have resulted from the group's work. CP1296 recommends an amendment to Code of Practice 5 (CoP5), to require that the Meter has the capability to record Demand (kvar) values for Reactive Import and Reactive Export.	05/06/09
1297	CVA /SVA	Mandatory Capability to Record Reactive Power Demand (kvar) Values in Code of Practice 10 (CoP10) Meters	ELEXON has raised CP1297, which recommends an amendment to Code of Practice 10 (CoP10), to require that the Meter has the capability to record Demand (kvar) values for Reactive Import and Reactive Export.	05/06/09
1298	SVA	Requirement on MOAs to Configure Meters to Record Half Hourly Reactive Power Data (for Half Hourly Settled CT-Metered Customers)	ELEXON has raised CP1298 which recommends the amendment of BSCP514. The change will place a specific obligation on MOAs. When they install or reconfigure Half Hourly Metering Equipment that is supplied via measurement transformers, they should configure the Metering Equipment to record Half Hourly demand values for both Reactive Import and Reactive Export (provided that the Metering Equipment has the capability to do so).	05/06/09
1299	SVA	Requirement on Half Hourly Data Collectors to Collect and Report Reactive Power Data (where the Meter is configured to record it)	ELEXON has raised CP1299 which recommends that the current requirement in BSCP502 relating to collection of Reactive Power data should be strengthened to oblige the HHDC to collect and report Reactive Power data, where the MOA has so configured the Meter. This change will be largely formalising an existing practice.	05/06/09
1300	SVA	System changes to support Change of Market Participant ID for the SVA Agent and MDD Agent Roles from 'CAPG' to 'SVAA'	ELEXON has raised CP1300 with the support of the SVG, which proposes changing the Market Participant ID (MPID) for the SVA Agent and MDD Agent roles from 'CAPG' to 'SVAA'. Whilst the change from 'CAPG' to 'SVAA' is a relatively simple MDD change, ELEXON recognises there are many potential impacts on BSC systems and BSC Party systems and processes.	05/06/09

Appendix 3 – Release Information

Key to Release Plan

Change Proposals and Modification Proposals in **BLACK** text represents SVA changes, **RED** text represents CVA changes and **BLUE** text represents changes which impact both the SVA and CVA arrangements.

The Authority decision dates are provided in the following format:	
P	Modification Proposal number
(< date)	Date by which a determination must be made by the Authority in order for the Modification Proposal to be implemented within the indicated release
Pro✓/Pro✗	Indicates that the Panel's recommendation to the Authority was to Approve/Reject the proposed Modification
Alt✓/Alt✗	Indicates that the Panel's recommendation to the Authority was to Approve/Reject the Alternative Modification

		Release Date			
		June 2009 Scope (Imp. Date 25 Jun 09)	**November 2009 Scope (Imp. Date 05 Nov 09)**	**February 2010 Scope (Imp. Date 25 Feb 10)**	**Standalone Releases**
Change Proposals	**Pending**		1288, 1289, 1290, 1291, 1292, 1294	1267 v2.0, 1295, 1296, 1297, 1298, 1299, 1300	There are currently no changes in a stand alone release.
	Approved	1249 v2.0, 1256, 1257, 1259, 1264, 1265, 1266, 1268, 1270, 1271, 1272, 1273, 1274, 1277, 1279	1248 v2.0, 1269, 1275 v2.0, 1278 v2.0, 1281, 1283, 1284, 1285, 1286, 1287, 1293		
Modifications	**Pending**	P230 Pro✓,		Currently there are no Modifications targeted at this Release.	
	Approved	P215 Alt✓, P226 Pro✓, P222 Alt✗, P233 Pro✓	P217 Alt✓, P223 Alt✓, P234 Pro✓		
Updates		The June 2009 Release is progressing to time and quality. All documentation has now been approved for the Release, including BSCP33 which went to the Panel on 14 May 2009. The software changes are progressing to plan, and Operational Acceptance Testing is currently underway.	The November 2009 Release is currently progressing to time and quality. We held an industry walkthrough for P223 and have issued the updated Code Subsidiary Documents (CSDs) and Configurable Items (CIs) for industry review. The CSDs and CIs for P217 are also currently out for industry review. The updated documents will be taken for Committee approval in the next few months. All changes for the November 09 Release will be implemented on 5 November 2009, with the exception of P223 which has an implementation date of 1 December 2009.		

Final CP Scope of the June 2009 Release

CP	Title	Impacts	Demand Led Cost	ELEXON Operational		Total
				Man Days	Cost	
CP1249 v2.0	Correcting MDDM and SVAA Terminology	SVA Data Catalogue vol. 1 and 2.	£0	2	£440	£440
CP1256	Action on Backdated D0052 flows	BSCP504, BSCP520	£0	4	£880	£880
CP1257	Calculation of EAC for Temporary Supplies	BSCP520	£0	2	£440	£440
CP1259	Distributor-Supplier Notification where a Site is capable of Exporting (microgeneration)	BSCP515, SVA Data Catalogue Volume 1	£0	3	£660	£660
CP1264	Clarification of Password Requirements in the Codes of Practice	CoP1, CoP1, CoP3, CoP5, CoP6, CoP7, BSCP601	£0	2	£440	£440
CP1265	Technical Assurance Documentation Changes Following Review	SVA and CVA TAA Service Descriptions, CVA Data Catalogue, CVA Data Catalogue Annex A, BSCP27, BSCP535, NETA IDD Part 1 and Part 2	£870	4.5	£990	£1,860
CP1266	Updates and Refinements to BSCP504	BSCP504	£0	1.5	£330	£330
CP1268	Publication of new Funds Administration Agent (FAA) Service Description	FAA Service Description	£0	1	£220	£220
CP1270	Improvements to the MDD Process	BSCP509, BSCP509 Appendix	£0	3.5	£770	£770
CP1271	Align Market Domain Data (MDD) Approval Timetable to SVG Meetings	BSCP509	£0	10	£2,200	£2,200
CP1272	Use of Appointment and Termination Flows in Unmetered Supplies (UMS)	BSCP501, BSCP520	£0	3	£660	£660
CP1273	Changes to the scope of CoP10 to cover current transformer operated Meters	CoP10, BSCP601	£0	4	£880	£880
CP1274	Transfer of Meter Technical Details	BSCP504, BSCP514	£0	2	£440	£660
CP1277	Change to UMS Charge code Approval Process	BSCP520	£0	6	£1,320	£1,320
CP1279	Housekeeping Change to BSCP515 – Licensed Distribution	BSCP515	£0	0	£0	£0
		Total[6]	**£870**	**48.5**	**£10,670**	**£11,540**

[6] A Tolerance of 20% applies for both Demand Led costs and ELEXON Operational Costs

Draft CP Scope of the November 2009 Release

CP	Title	Impacts	BSC Agent (Demand Led)	ELEXON Operational		Total
				Man Days	Cost	
CP1248 v2.0	Early release of Meter Technical Details by the Non Half Hourly Meter Operator Agent	BSCP514, BSCP533 Appendix A and BSCP533 Appendix B	£4,200	3	£700	£4,900
CP1269	Publication of Additional Non Half Hourly Combination Data in Market Domain Data	BSCP509, BSCP509 Appendix, SVA Data Catalogue Vol. 1 and Vol. 2	£73,775	57	£12,540	£86,315
CP1275 v2.0	Supplier Agents – Access to Meter Protocols	CoP10, BSCP601	£0	2.5	£550	£550
CP1278 v2.0	Streamlining the SVA Standing Data Change Process	BSCP507, BSCP537 Appendix 1	£0	3.75	£825	£825
CP1281	Revenue Protection: requiring NHHDC to send EAC/AA data to the Supplier via the DTC.	BSCP504	£0	1	£220	£220
CP1283	Revisions to data correction processes in BSCP18	BSCP18, NETA IDD Part 2	£1,365	2	£440	£1,805
CP1284	Ability for Third Parties to raise Change Proposals and replacement of energywatch with National Consumer Council	BSCP40, PrA Service Description, Teleswitch Agent Service description	£0	2.5	£550	£550
CP1285	Unmetered Supplies: Clarification of Central Management System requirements	BSCP520	£0	1	£220	£220
CP1286	BSCP18 Operational Review: Additional flag in Transmission Company's BOAL file to indicate an amended Bid-Offer Acceptance	NETA IDD Part 2, BMRA URS, SAA URS	£0	2.5	£550	£550
CP1287	Correction of inconsistencies in BSCP536 'Supplier Charges'	BSCP536	£1,998	3	£660	£2,658
CP1293	Housekeeping changes to BSCP537 Appendix 1 – Self Assessment Document (SAD)	BSCP537 Appendix 1	£0	0	£0	£0
		Total[7]	**£81,338**	**77.25**	**£17,255**	**£98,593**

[7] A Tolerance of 20% applies for both Demand Led costs and ELEXON Operational Costs

Attachment - Redlined BSCP520 v14.0 for CP1290

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

~~i)~~All energy transfers at points of connection and/or supply via circuits connected to the Licensed Distribution System shall be metered, except in a limited number of defined circumstances. These exceptions, known as Unmetered Supplies (UMS), shall be at the discretion and approval of the Unmetered Supplies Operator (UMSO) of the Licensed Distribution System Operator (LDSO). The UMSO shall only consider providing an UMS at an exit point ~~where:~~ in accordance with Statutory Instrument 2001 No. 3263- ~~the electrical load is of a predictable nature;~~

~~and~~

~~i)either:~~

~~a)the electrical load is less than 500W;~~

~~or~~

~~b)it is financially or technically impractical to install a meter due to:~~

- ~~the anticipated metering costs in the particular case being significantly higher than the usual metering costs associated with that size of electrical load;~~
- ~~technical difficulties associated with providing such a meter in the particular case; or~~
- ~~operation of law so as to prohibit or make excessively difficult the provision of such a meter in the particular case;~~

~~and~~

~~ii)where the UMSO has received sufficient information to enable the Non Half Hourly EAC to be accurately determined.~~

~~Where the criteria above are met, the LDSO shall provide the UMSO service.~~

Section 1.1.1-1.1.3 no changes

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

This BSCP should be used by Suppliers, Half Hourly Data Collectors (HHDCs), Non Half Hourly Data Collectors (NHHDCs), Meter Administrators (MAs) and each UMSO.

Appendices 4.1 and 4.2 should be used by Customers, to identify ~~charging code~~Charge Codes, load ratings, Sswitch~~ing~~ regime codes, etc.

Section 1.2.1 **UMSO responsibilities**

Where an UMS has been agreed, each UMSO shall be responsible for the following:-

a) where the inventory is subject to HH trading, providing a copy of the summary inventory to the appointed MA of an EM. Agreed updates to the summary inventory will be similarly passed to the appointed MA;

b) providing Unmetered Supply Certificates;

c) requesting additional MSIDs from the SMRA where additional inventory items need to be allocated to alternative SSCs and associated Profile Class and passing details of all MSIDs and the associated Meter Timeswitch Code and Profile Class to the Supplier for registration;

d) where the inventory is subject to NHH trading, calculating initial and revised EACs and submitting them to the appointed Supplier and NHHDC;

e) agreeing with the Supplier the type of EM (i.e. whether passive or dynamic) to be used in the LDSO's area and the location of any associated photo-electric cell unit (PECU) arrays;

f) informing Suppliers and MA of the weighted average latitude and longitude information for the installed Apparatus for each MSID where an EM is being used;

g) providing any other additional information required to enable the Supplier to determine the Distribution Use of System (DUoS) charges;

h) for supporting the Trading Query / Trading Dispute process as required by Section W of the Code;

i) for responding to any queries raised by the Panel, Supplier, the Supplier Volume Allocation Agent, the Data Collector, the Meter Administrator and / or the BSC Auditor;

j) providing Suppliers with the data that will enable them to fulfil their obligations under the Code;

k) notifying Suppliers on discovering that any Settlement data for which the UMSO is responsible is potentially incorrect or missing;

l) retaining Settlement data in accordance with this BSCP and Party Service Line (PSL) 100 'Non Functional Requirements for Licensed Distribution System Operators and Party Agents'~~retaining all the data that is necessaryfor the Supplier to fulfil its Code obligations e.g. history of summary inventories, history of EACs. Data must be retained for a minimum of 40 months~~;

m) ensuring that the Customer continues to comply with the conditions for an Unmetered Supply;

n) issuing an annual spreadsheet containing all UMS EACs for each MSID split by Settlement Register (using the appropriate Average Fraction of Yearly Consumption) to Suppliers each June, and providing confirmation to BSCCo. that this process has occurred; and

o) resending the correct EAC(s) to the NHHDC upon instruction by the Supplier if Supplier identifies a

discrepancy between EACs received from NHHDCs to those received from the UMSO.

Section 1.2.2- 1.2.4 no changes

Section 1.2.4.1 **Recording of Data**

The MA shall record sufficient details received from the Supplier of its appointment in respect of a SVA Metering System to enable the MA to perform its functions as MA and operate the Equivalent Meter permitted for use within the GSP group by the LDSO. These details shall include:

- the Settlement Days for which the MA is appointed by the Supplier;
- the relevant SVA Metering System Number;
- the Identifier for the HHDC;
- the ~~LDSO~~ UMSO providing the Unmetered Supply Certificate for that Metering System;
- the geographical position defined by the ~~LDSO~~ UMSO for that SVA Metering System Number or, where these are defined by the ~~LDSO~~UMSO, the geographical positions for related subdivisions of the summary inventory for that SVA Metering Number;
- the indicator defined by the ~~LDSO~~ UMSO as to whether a PECU array is required for that SVA Metering System Number or for related ~~subdivisions~~ Sub-Meters of the summary inventory where these subdivisions are defined by the ~~LDSO~~UMSO; and
- the energisation status associated with the SVA Metering System Number in Supplier Meter Registration Service;
- the indicator defined by the ~~LDSO~~ UMSO as to whether a Central Management System is required for that SVA Metering System Number or for related ~~subdivisions (also known as s~~Sub-M~~m~~eters~~)~~ of the summary inventory where these ~~subdivisions~~ Sub-Meters are defined by the ~~LDSO~~UMSO.

The MA shall record and use such Market Domain Data (MDD) as is considered appropriate by the Panel (having regard to the MA's functions) and shall, in particular, use only ~~Market Domain Data~~MDD for those items in relation to which there is a ~~Market Domain Data~~MDD entry or other information provided by the UMSO where such information does not conflict with MDD.

Section 1.2.4.2 no changes

Section 1.2.4.3 **Resolution of Queries and Disputes**

The MA shall respond to queries raised by the Supplier, UMSO, the Supplier Volume Allocation Agent, the HHDC, the BSC Auditor and the LDSO.

In the event of any dispute as to whether an item of ~~Market Domain Data~~MDD is appropriate or, as the case may be, affects the accuracy of Settlement, the decision of the Panel shall be final.

Section 1.2.4.4-1.2.4.7 no changes

Section 1.2.5 Approval **of Categories of Apparatus, Charge Codes~~Load Rating~~ and ~~Time Switch Regime~~Switch Regimes ~~Codes~~**

The Panel, or its nominated representatives, approve additions or alterations to the categories of Apparatus ~~(charging code)~~, Charge Codes and their associated load rating (and dimming level load rating if applicable), and the ~~Time Switch Regime~~Switch Regimes ~~(TSR) codes~~. Proposals for approval, and for load research (regarding associated load ratings and/or dimming level load rating) to be initiated, will be recommended by the Unmetered Supplies User Group (UMSUG) to the Panel for approval. However the UMSUG Chair~~man~~ can agree Temporary~~Provisional~~ Codes for new Apparatus until they are formally approved by the Panel. ~~Where the UMSUG chairman does not believe it is possible to obtain approval of Codes because there is insufficient information to justify seeking approval for the proposed values, these Codes shall be termed Temporary.~~ The UMSUG will report to BSCCo for issues relating to profiles, ~~TSR~~Switch Regimes~~s~~, SSCs and EACs, and to the Panel for matters relating to Equivalent Meters and protocols.

The Balancing and Settlement Code Company (BSCCo) will be responsible for co-ordinating the notification of information between the Panel and UMSUG, together with notification of Panel decisions.

Section 1.3.1 **Inventory of Unmetered Apparatus**

One of the criteria for agreeing an UMS is that the Customer shall be required to provide and maintain an accurate, detailed inventory as agreed with the UMSO.

Any requirement for additional classifications of Apparatus, load rating information and ~~switching regimes~~Switch Regimes shall be referred to the UMSUG Chair~~man~~.

Following approval by the Panel, the UMSO shall implement any revisions applicable to changes of classifications of Apparatus, ~~switching regimes~~Switch Regimes and load ratings (including dimming level load rating where appropriate) relating to UMS.

The UMSO and MA shall also implement any ~~Provisional Codes or~~ Temporary Codes issued by the UMSUG Chair.~~man~~

~~Access to the inventory data shall be made available, on request, to the BSCCo, BSC Auditor, the Supplier or their Party Agents.~~

Section 1.3.2 no changes

Section 1.3.3 **Identification of SSCs, Profile Classes and Fays**

The number of SSCs and the associated Profile Class, Average Fraction of Yearly Consumption (AFYC) and ~~TSR~~Switch Regimes can be identified from the summary inventory, using the following as a basis:-

a) flat UMS (category A);

b) dusk to dawn UMS (category B);

c) half night and pre-dawn UMS (category C);

d) dawn to dusk UMS (category D); and

e) UMS with a specific TPR (category E) shall be allocated to the appropriate Profile Class, SSC and AFYC.

The ~~Appendices~~ Operational Information Document (OID) provides guidance on the allocation of Apparatus to the different categories and details for categories A to E.

Section 1.3.4-1.3.7 no changes

Section 1.3.8 **Half Hourly Trading**

The Supplier shall appoint Party Agents and send the registration details to SMRA. In addition the Supplier shall nominate the MA as the Meter Operator Agent (MOA).

~~The Supplier shall confirm with the UMSO the type of EM that is to be used in the LDSO's area associated with the MSID and whether this requires photo-electric cell unit (PECU) arrays or a Central Management System (CMS) to be used.~~

The Supplier shall advise the UMSO of the appointed MA. The UMSO shall send a copy of the current summary inventory to the MA ~~of a passive EM or dynamic PECU EM~~ appointed for an MSID for all non CMS controlled equipment. Where the UMSO requires more than one PECU array to be installed for an MSID, the summary inventory shall identify the Apparatus, suitably codified, to be assigned to each PECU array. Where a CMS is required, the UMSO shall create and send a control file to the MA detailing the Apparatus that is to be managed by the CMS.

In addition, any agreed updates to the summary inventory or any control file shall be advised to the appointed MA.

Section 1.4 **Other Sections within the BSCP**

The remaining sections in this document are:

Section 2 - This section is no longer in use.

Section 3 - Interface and Timetable Information: - this section defines in detail the requirements of each business process, as displayed in Section 2. ~~Neither the UMSO or t~~The MA cannot send ~~or receive~~ flows using the Data Transfer Service (DTS).

The UMSO can only send and receive flows using the DTS by utilising the LDSO role code. Where

Section 3 identifies either the UMSO and/or the MA being the sender/and or recipient of a 'D' flow, the data items to be provided will be as included in the BSC SVA Data Catalogue, however the method of sending the information will be manual e.g. e-mail. In any event the method shall be agreed between Parties/Party Agents in advance.

Section 4 - Appendices: - this section provides supporting information to this BSCP.

Section 1.5 **Balancing and Settlement Code Provision**

This BSCP has been produced in accordance with the provisions of the Balancing and Settlement Code (the Code), and in particular the provisions of Section S8 'Unmetered Supplies' which, amongst other things, state that:

- the UMSO shall determine whether a supply of electricity to a particular inventory of Apparatus should be treated as an Unmetered Supply;
- for Unmetered Supplies the UMSO shall issue an Unmetered Supplies Certificate;
- the UMSO will agree an Inventory of Apparatus with the Customer and will prepare a summary inventory from the detailed Inventory;
- if requested, the UMSO shall advise the Panel of the Equivalent Meter(s) to be used on its Distribution System, and will provide 1 year's written notice to the Panel if the Equivalent Meter is to be changed. The Panel will provide details of the Equivalent Meter used by an UMSO to a Supplier if requested;
- for each Profiled (NHH) Unmetered Supply the UMSO shall calculate an EAC and notify the Supplier or Supplier Agent of the value of the EAC;
- following a material change to the Inventory of Apparatus to which a UMS Certificate relates the UMSO shall provide:
  - a new summary Inventory of Apparatus (for an Equivalent (HH) Unmetered Supply); or
  - a new EAC (in the case of a Profiled (NHH) Unmetered Supply); and
- changing the treatment of an Unmetered Supply from an Equivalent (HH) Unmetered Supply to a Profiled (NHH) Unmetered Supply (or vice versa) shall only be made if the relevant Unmetered Supply Certificate is cancelled and a new Unmetered Supply Certificate is issued in its place.

In the event of an inconsistency between the provisions of this BSCP and the Code, the provisions of the Code shall prevail.

Section 1.6 no changes

Section 1.7.1 **Acronyms**

The terms used in this BSCP are defined as follows:

AFYC	Average Fraction of Yearly Consumption
BSC	Balancing and Settlement Code
BSCCo	Balancing and Settlement Code Company
BSCP	Balancing and Settlement Procedure
CMS	Central Management System
~~CPC~~	~~Change Proposal Circular~~
DUoS	Distribution Use of System
EAC	Estimated Annual Consumption
EFD	Effective From Date
EM	Equivalent Meter
GSP	Grid Supply Point
HH	Half Hourly
HHDA	Half Hourly Data Aggregator
HHDC	Half Hourly Data Collector
Id	Identifier
kVArh	Kilovolt Ampere Reactive Hour
~~K~~kWh	Kilowatt Hour
LDSO	Licensed Distribution System Operator
LF	Load Factor
LLF	Line Loss Factor
MA	Meter Administrator
MDD	Market Domain Data
METD	Metering Equipment Technical Details
MOA	Meter Operator Agent
MSID	Metering System Identifier
NHH	Non-Half Hourly
NHHDA	Non-Half Hourly Data Aggregator
NHHDC	Non-Half Hourly Data Collector
OID	Operational Information Document
PECU	Photo Electric ~~Cell~~ Control Unit

SMRA	Supplier Meter Registration Agent
SMRS	Supplier Meter Registration Service
SSC	Standard Settlement Configuration
SSD	Supply Start Date
SVA	Supplier Volume Allocation
TPR	Time Pattern Regime
~~TSR~~	~~Time Switch Regime~~
UMS	Unmetered Supplies
UMSO	Unmetered Supplies Operator of the LDSO
UMSUG	Unmetered Supplies User Group
UTC	Co-ordinated Universal Time
W	Watts
WD	Working Day

Section 1.7.2 **Definitions**

Full definitions of the above acronyms and other defined terms used in this BSCP are, where appropriate, included in the Code. For clarification, definitions are provided below for terms specifically associated with UMS:-

"Apparatus" means all equipment in which electrical conductors are used, supported or of which they may form part;

"Applicant" means a person applying for Equivalent Meter approval.

"Astronomical Almanac" means the Astronomical Almanac published annually by ~~Her Majesty's~~the Station~~e~~ary Office or other suitable publication;

"Central Management System" means a system that is able to dynamically control and manage the electrical load used by Apparatus registered as an Unmetered Supply.

"Charge Code" means a 13 digit numeric code assigned to unmetered Apparatus that specifies the associated circuit watts and other technical information for the Apparatus.

"Dawn" means 30 minutes before S~~s~~unrise;

"Dusk" means 30 minutes after S~~s~~unset;

"Equivalent Meter" means the hardware and software ~~described in Appendix 4.5~~as defined in Section 1.2.6;

"Equivalent Meter UMS" means HH Unmetered Supplies;

~~"FLARE Software" means the software originally owned and licensed by Eastern Group plc to create the~~

~~Equivalent Meter data;~~

~~"LAMP Software" means the centrally developed software owned and licensed by St Clements Services Limited to create the Equivalent Meter data;~~

"MA System" means~~, in the context of a CMS based Equivalent Meter,~~ the software and hardware operated by the Meter Administrator and used to calculate half hourly consumption.

"PECU array" means the hardware described in Appendix 4.5;

"Percentage Dimming Level" means the percentage of its full load circuit loading (watts) at which the Apparatus is operating.

~~"Profiled UMS" means NHH Unmetered Supplies;~~

~~"Provisional Code" means a code that has been agreed by the UMSUG chairman and is awaiting formal approval.~~

"Sub-Meter" means that within an Equivalent Meter there is more than one PECU array or more than one summary inventory associated with an MSID;

"Summary Inventory" means a summarised version (prepared and/or agreed by the UMSO) of the detailed inventory provided to the UMSO by the Customer including the CMS Control File (as described in 4.5.2.3) where appropriate.

"Sunrise" means the time when the suns apparent disc is below and tangential to the horizon at sea level and to the east of the observer;

"Sunset" means the time when the suns apparent disc is below and tangential to the horizon at sea level and to the west of the observer;

"Switch Regime" means a 3 digit numeric code assigned to unmetered Apparatus that specifies the switching times and other technical information for the Apparatus

"Temporary Code" means a temporary 13 digit numeric code assigned to unmetered Apparatus that specifies the associated circuit watts and other technical information for the Apparatus and ~~means a code that the UMSUG chairman~~ has been issued by the UMSUG chair for use, prior to formal approval from the Panel~~believes it is not possible to obtain approval for because there is insufficient information to justify seeking approval~~.

Section 2-3.9 no changes

Section 3.10 **SVAA sends Market Domain Data**

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.10.1	If required.	Request MDD.	UMSO. MA	SVAA.		Electronic or other method, as agreed.
3.10.2	When published by SVAA.	Send MDD.	SVAA. BSCCo	UMSO. MA.	D0269 Market Domain Data Complete Set. D0270 Market Domain Data Incremental Set. MDD Circular	Electronic or other method, as agreed.
3.10.3	Within 4 working hours of receipt of MDD.	Send acknowledgement that data has been received.	UMSO. MA.	SVAA.	P0024 Acknowledgement.	Electronic or other method, as agreed.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
~~3.10.4~~	~~When MDD files are received.~~	~~Acknowledge Market Domain Data files on receipt.~~	~~MA.~~			~~Automatic acknowledgement generated by the gateway of the MA in respect of MDD transferred over the Managed Data Network or as agreed.~~
3.10.~~4~~5	If file not readable and / or incomplete.	Send notification and await receipt of MDD.	UMSO. MA.	SVAA.	P0035 Invalid Data.	Electronic or other method, as agreed.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.10.~~5~~6	On receipt of new ~~Market Domain Data~~MDD.	Ensure ~~that~~ all ~~Market Domain Data~~MDD affecting the accuracy of Settlement ~~which~~ is ~~manually entered by the MA is validated against the source data supplied by the Supplier Volume Allocation Agent before the data is recorded by the MA and used in performing its functions~~accurately entered and used in performing its functions.	UMSO. MA.			Internal Process
3.10.~~6~~7	After receiving notification.	Send corrected MDD. Return to 3.10.2.	SVAA.	UMSO. MA.	Refer to 3.10.2 for data flows.	Electronic or other method, as agreed.

Section 3.11 no changes

Section 3.12 **Approval of New Switch~~ing~~ Regimes and / or ~~Charging Code~~Charge Code~~s~~**

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.12.1	When required	Discuss and agree new charge code and/or switching regime	UMSUG		Details of new apparatus	Internal Process

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.12.2	Following 3.12.1	Relay recommendation	UMSUG	BSCCo	Details of new Ceharge Ceode and/or Sswitching Rregime recommendation	Meeting minutes
3.12.3	Following 3.12.2	Publish Temporaryprovisional Ceharge Ceodes and/or switching regime on BSC Website[1]	BSCCo		Details of new Ceharge Ceode and/or Sswitching Rregime recommendation	Internal Process
3.12.4	Following 3.12.3	Raise and progress MDD change in accordance with BSCP509 in relation to proposed new switching regimesSwitch Regimes and/or charging codeCharge Codes.	BSCCo		BSCP509	Internal Process
3.12.5	Following 3.12.4 if Change to MDD is approved	If MDD change approved, publish approved Ceharge Ceodes and/or switching regimesSwitch Regimes on BSC Website..	BSCCo		BSC Website	Internal Process

[1] Provisional Temporary Ceharge Ceodes and/or switching regimesSwitch Regimes will be used in Settlement for new apparatus, to ensure all energy used is accounted for.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.12.6	Following 3.12.4 if change to MDD is not approved.	If changes to the ~~charging code~~Charge Codes/~~switching regimes~~Switch Regimes are not approved, decision should be relayed to UMSUG. Assess C~~c~~harge C~~c~~odes and/or S~~s~~witch~~ing~~ R~~r~~egime including any additional testing evidence required and proceed as 3.12.1	BSCCo ~~UMSUG~~	UMSUG	SVG decision	~~Post / Fax /~~ Email

Section 3.13- 3.15 no changes

Section 4.1 Categories of Unmetered Apparatus

Note that the categories of Unmetered Apparatus can be found in the OID and associated ~~charging code~~Charge Codes may~~can~~ be found on the BSC Website in the Operational Information Charge Code spreadsheet.

Section 4.2 **Switch~~ing~~ Regime ~~Codes~~s**

Note that Switch Regime is described in the OID and a complete list may be found on the BSC Website in the Operational Information Switch Regime spreadsheet.~~Note that the switching regime codes can be found on the BSC Website.~~

Section 4.3 **Allocation of~~Profiled~~ Unmetered Supplies to Profile Classes and Standard Settlement~~ Description and Codes~~ Configurations**

UMS Description	Category	Standard Settlement Configuration		Profile Class	Time Pattern Regime (TPR) Id		TPR Start Time	TPR End Time	Average Fraction of Yearly Consumption (AFYC)
		GSP Groups Other Than _P	GSP Group _P (North Scotland)		GSP Groups Other Than _P	GSP Group _P (North Scotland)			
Continuous	A	0428	0925	Non-domestic LF >40%	00258	00307	22.00	06.00	36% of EAC
					00259	00259	06.00	22.00	64% of EAC

UMS Description	Category	Standard Settlement Configuration		Profile Class	Time Pattern Regime (TPR) Id		TPR Start Time	TPR End Time	Average Fraction of Yearly Consumption (AFYC)
Dusk to dawn	B	0429	0926	Domestic unrestricted	00260	00308	19.00	09.00	76% of EAC
					00261	00261	09.00	19.00	24% of EAC
Half night and pre-dawn	C	0430	0928	Domestic unrestricted	00264	00310	16.00 and 05.00	01.00 09.00	98% of EAC
					00265	00265	01.00 and 09.00	05.00 16.00	2% of EAC

UMS Description	Category	Standard Settlement Configuration		Profile Class	Time Pattern Regime (TPR) Id		TPR Start Time	TPR End Time	Average Fraction of Yearly Consumption (AFYC)
Dawn to dusk	D	0431	0927	Domestic unrestricted	00262	00309	16.00	04.00	4% of EAC
					00263	00263	04.00	16.00	96% of EAC

Section 4.4- 4.5.2 no changes

Section ~~4.5.1.2~~ 4.5.2**PECU Array Operating Procedure**

Overview

Before a Supplier can provide the Customer with a Half Hourly Unmetered Supply the PECU array installations must be operational and a MA appointed. The PECU arrays must conform to the specification as set out in the paragraph Specification for PECU arrays.

Types of PECUs

There are different types of PECUs, with different operating characteristics. Therefore, so that the operation of the PECU arrays reflect reality:-

PECUs used in the PECU array are to be ex-circuit as per the age of the population they are representing, i.e. not new cells

The PECUs in the PECU array are to be proportional to the various types in the area covered by the PECU array.

PECU Representation in Equivalent Meter

The operation of each PECU is deemed to be proportional to the population on the PECU array of that type of cell, e.g. if there are 8 cells of one type, then the operation of each one will represent the operation of one eighth i.e. 12.5% of the load controlled by that type of cell.

Multiple PECU Arrays

If more than one PECU array is used per Inventory, then the operation of a PECU cell is deemed to be proportional to the population of that type of PECU controlled load within the area covered by that PECU array. Therefore, where more than one PECU array is used per inventory, the inventory must identify which PECU array is controlling each item.

PECU Array Maintenance and Upkeep

Each PECU array shall be installed, maintained and operated in accordance with Good Industry Practice and the accuracy of its clock be maintained within +/- 20 seconds.

The MA shall monitor the performance of the PECU Arrays to ensure that that the single cells are representative of the total population of the cells within the summary inventory.

Where the monitoring of the PECU Arrays indicates that the switching light level of a single cell is out of line with other cells of identical type in the same PECU Array,

the single cell should be replaced.

Annually, the MA shall ensure that the PECU Arrays continue to reflect the requirements of the Unmetered Supplies Certificate. The MA shall notify the Supplier of the results of the annual review.

~~Where the LDSO has indicated, pursuant to paragraph 1.2.4.1, that a SVA Metering System to which the Meter Administrator has been appointed requires data from a Central Management System, the Meter Administrator shall provide ad-hoc extracts of the operational event data received from such system to the LDSO on request.~~

~~The hardware and software associated with any Central Management System shall be installed, maintained and operated in accordance with Good Industry Practice, with clocks synchronised to UTC and accurate to within ± 20 seconds.~~

PECU Array Failure

If a single PECU on the PECU array stops operating, then the remaining operating cells of that type will represent a correspondingly higher proportion of the load.

If communications with a PECU array are lost, then data from the adjacent PECU array will be used. In the event of total PECU array data failure, the relevant time switch profile, adjusted to the burning hours assumption used by the UMSO for that PECU regime will be used; these assumptions will be refined as actual data becomes available. In the event of data recovery within the Settlement period the MA will rerun EM and submit the corrected meter readings to the HHDC.

The EM will log all switching actions to the nearest minute.

Note: There can be more than one cycle of operation within 24 hours. The EM will monitor failed PECUs. The MA must replace failed PECUs within 5 WD. The MA shall ensure that the Customers provide replacement cells of the age and type requested by the MA.

Section ~~4.5.2.1~~ 4.5.3.1 **Functions of a Passive Meter.**

a) The Meter Administrator shall be able to add, delete and modify all information required to define each MSID and to relate it to the Customer, LDSO, Supplier and Data Collector.

b) The Meter Administrator shall be able to add, delete and modify summary inventory data for each MSID both manually and electronically. ~~-~~Summarised inventory data shall comprise:

MSID;

Effective From Date;

Inventory title and/or reference;

~~Charging Code~~Charge Code;

~~Time Switch Regime~~Switch Regime;

Total number of units of each ~~charging code~~Charge Code/~~TSR~~Switch Regime combination.

c) The Meter Administrator shall be able to add, delete and modify ~~approved and interim charging code~~Charge Codes and their associated circuit watts and circuit Volt Amperes reactive (VA~~va~~rs) for both full load circuit loading and dimmed load ratings as appropriate.

d) The Meter Administrator shall be able to add, delete and modify ~~approved and interim TSR~~Switch Regimes and their associated operating times.

e) The system shall use the ~~weighted average~~ average latitude and longitude information ~~of the Apparatus in the inventory~~ and a sunrise/sunset algorithm to calculate the time of sunrise and sunset for each day within two minutes of the sunrise and sunset times as derived from the Astronomical Almanac.

f) The system shall calculate, ~~by an approved method~~as defined in 4.5.1, the import kWh and import k~~va~~VArh~~*~~ in each half hour period in UTC for each MSID.

g) The system shall provide secure access for HHDCs, Suppliers and Customers to only that data which is relevant to them.

h) The system shall provide an output file in the format shown in ~~the clause below~~4.5.4 for ~~collection~~ provision ~~by~~to the appointed HHDC.

i) The system shall provide an audit trail of changes to data held.

~~* except for the currently approved version of FLARE, which does not have this facility.~~

Section 4.5.3.2 **Functions of a Dynamic Meter using PECU Data**

In addition to the functions of a passive meter listed above, the following are required for a dynamic meter using PECU data:-

a) The system shall be able to use any one PECU array for the calculations of more than one MSID.

b) The system shall be able to use more than one PECU array for the calculations of one MSID.

c) In the event that a PECU in a PECU array fails to operate, the system shall compensate in its calculations by dividing that portion of load allocated to the faulty cell between the functioning cells of the same type as the failed cell.

d) If PECU array data is not available for any day then data from an alternative specified array shall be

used for the calculations. If that data is not available then a default PECU ~~switching regimes~~Switch Regime~~s~~ shall be used. The~~se~~ regime~~s~~ will be defined by the MA as an offset~~s~~ from sunrise and sunset, derived as for a Passive Meter.

e) The system shall maintain details for each PECU in a PECU array relating to location, type, manufacturer, date of manufacture and model number.

f) The system shall be able to download data from the PECU array.

g) The system shall monitor PECUs on the array and advise the MA of any failed units.

h) The system shall monitor the array second counter for time keeping and advise the MA when the deviation exceeds the warning level.

i) The MA shall be able to produce switching times from a decoded PECU array file.

j) The system ~~shall~~may provide a facility to apply time switch operations in accordance with a normal distribution about the nominal switching times. The standard deviation of the normal distribution shall be set by the MA.

k) The system shall provide facilities to retrospectively recalculate data for re-submission to Data Collectors.

l) The system shall be synchronised to UTC.

Section 4.5.3.3 **Functions of a Dynamic Meter using CMS Data**

A dynamic meter may use the detailed switching and load information recorded and reported by a Central Management System to allocate Half Hourly consumption data. In this case the CMS itself may be operated by the MA or the Customer, however the MA system (the system that is used to calculate the consumption), must be operated by a Meter Administrator Qualified in accordance with BSCP537, who retains the overall Settlement responsibility for the quality of the data submitted by the Customer via the CMS.

In addition to the functions of a passive meter listed above, the following requirements apply. Each requirement may relate to the CMS, the MA system or both. Where the two systems are combined into a single application, all requirements shall apply unless otherwise stated.

a) The MA system shall allow the Meter Administrator to add, delete and modify control information for each MSID both manually and electronically. This control file shall be provided to the Meter Administrator by the UMSO in the following format:

Filename: controlmmmmmmmyyyymmdd.log

where:

mmmmmmm = Sub-Meter ID (alphanumeric)

yyyymmdd = date of inventory

log = file extension

with all characters in lower case

File header: HMMMMMMMYYYYMMDDVVV

where:

H = header identifier, H

MMMMMMM = Sub-Meter ID (alphanumeric)

YYYYMMDD = effective from date

VVV = version number

File body: UUUUUUUUUUUUNNNNNNRRRCCCCCCCCCCCCC

where:

UUUUUUUUUUUU = CMS Unit Reference (alphanumeric)

NNNNNN = Number of items

RRR = Switch Regime (999 or 998)

CCCCCCCCCCCCC = Charge Code

File trailer: TNNNNN

where:

T = trailer identifier, T

NNNNN = total number of lines including header and trailer

The CMS Unit Reference shall be a 12-digit alphanumeric field that acts as a unique identifier of the unit under CMS control and to which the Charge Code and Switch Regime pertains. The structure of the CMS Unit Reference is to be agreed between the Customer and the UMSO, and may make use of existing information provided in the Detailed Inventory (e.g. National Street Gazetteer road codes) in combination with other data in order to ensure its uniqueness.

The Number of Items is the same as that contained in the Detailed Inventory and shall identify the number of items (e.g. lamps) associated with each CMS Unit Reference.

The Charge Code maintained by the Meter Administrator shall be the normal code for the lamp running at full load. The Switch Regime shall be set to 999 to denote the use of switched

equipment (i.e. dusk to dawn), or 998 to denote continuous burning for that MSID.

The CMS controller devices operating each item of equipment should be summed and provided as a row(s) in the file body. Each different type of CMS controller shall have its own Charge Code and will be assigned a continuous Switch Regime of 998 and a CMS Unit Reference of 'Control'

b) The CMS shall record the operational switching times and power levels set for each unit and shall make this data available to the Meter Administrator in the form of an operational event log on a daily basis. The log shall include the CMS Unit Reference, the time and date at which the load was switched and the power level expressed as a percentage of the circuit watts defined in the Operational Information Document for the relevant Charge Code. Where the CMS is unable to record and report the power level set for any unit, e.g. because of a control failure, it may include the unit in the operational event log but note the failure by use of an information flag.

c) Where the CMS and MA system are operated as separate applications, the switching time and load information shall be provided to the Meter Administrator in the following standard format text file. Where the CMS and MA system are integrated, the application must be able to produce the file on request for testing and audit purposes, however other methods may be used for transferring data between the two applications on a routine basis:

Filename: mmmmmmmyyyymmddvvv.log

where:

mmmmmmm = Sub-Meter ID (alphanumeric)

yyyymmdd = date to which the events pertain

vvv = version number

log = file extension

with all characters in lower case

File header: HMMMMMMMYYYYMMDDVVV

where:

H = header identifier, H

MMMMMMM = Sub-Meter ID (alphanumeric)

YYYYMMDD = date to which the events pertain

VVV = version number

File body: UUUUUUUUUUUUHHMMSSPPP.PPI

where:

UUUUUUUUUUUU = CMS Unit Reference (alphanumeric)

HHMMSS = time in hours, minutes and seconds, in UTC throughout the year

PPP.PP = percentage of base power i.e. undimmed power level applied to the lamp, to 2 decimal places

I = information flag (alphanumeric)

File trailer: TNNNNN

where:

T = trailer identifier, T

NNNNN = total number of lines including header and trailer

The information flag in the file body shall be used to provide any further information relating to the data contained within operational event log. The codes to be used for this flag, and any other information regarding the population of the operational event log, shall be detailed in the Operational Information document.

Any revisions to previously-reported data (e.g. after repair of a fault or re-establishment of communications) shall be provided either through a complete refresh of the relevant file or through the use of incremental updates containing only that data which has changed or was not previously reported. The approach to be used, and the way in which updated information should be identified, shall be as agreed between the CMS operator and the MA.

d) The MA system shall calculate, by an approved method, the import kWh and import kVArh consumption in each half hour period in UTC for each MSID using the switching times and power level information reported in the operational event log.

~~e) The MA system shall provide an output file in the format shown in 4.5.3 below for collection by the appointed HHDC.~~

~~f)~~e) The MA system shall generate an exception list detailing any CMS Unit References reported in the control file but which are not contained in the operational event log. The exception list shall be produced for each day of the report for which any CMS Unit References are missing, and shall be provided to the UMSO and Customer on a monthly basis as a matter of routine, and additionally upon request from the UMSO or Customer.

~~g)~~f) In the event that all or part of the operational event log is not available for any reason, the MA system shall apply data representative of the Switch Regime indicated in the control file provided by the UMSO (i.e. 999 or 998). This regime shall be applied for each of the affected Settlement Days affected.

~~h)~~g) The MA system shall recalculate the half hourly consumption once data from previous days becomes available and shall submit this revised data to the HHDC. Furthermore, where any data

has been found to be in error, revised data should also be submitted to the HHDC once it becomes available.

~~i) The CMS and MA system shall provide secure access for HHDCs, Suppliers and Customers to only that data which is relevant to them.~~

~~j)~~h) The CMS and MA system shall provide an audit trail of changes to data held.

i) The hardware and software associated with any Central Management System shall be installed, maintained and operated in accordance with Good Industry Practice, with clocks synchronised to UTC and accurate to within ± 20 seconds.

j) The Meter Administrator shall provide ad-hoc extracts of the CMS operational event data received from such system to the UMSO on request.

~~k) The CMS and MA system shall be synchronised to UTC either by connection to internet time servers or a radio clock, accurate to within ± 20 seconds per month.~~

Section 4.5.4-4.8.1 no changes

Section 4.8.2 **Table of Meter Administrator Performance Standards**

Seri	Sender	Process	Sub-process / Data Flow	Recipient	Performance Measure	Service levels	Reporting Method
1	Meter Administrator.	3.1~~43~~ Equivalent meter Fault Reporting.	Fault repairs.	Data Collector.	Time to rectify material faults (i.e. those which affect data quality.	(i) 95% rectified within 2 working days of notification or discovery of fault. (ii) 99% rectified within 15 working days of notification or discovery of fault.	Report, sent by the Supplier. Provision of data under PSL100 section 10.1.2.
2	Meter Administrator.	3.10.~~34~~ ~~Market Domain Data~~MDD.	Acknowledgement.	Supplier Volume Allocation Agent.	Acknowledge receipt.	100% of acknowledgements within 4 working hours in accordance with BSC Procedure BSCP508.	Report, sent by the Supplier. Provision of data under PSL100 section 10.1.2.

Seri	Sender	Process	Sub-process / Data Flow	Recipient	Performance Measure	Service levels	Reporting Method
3	Meter Administrator.	3.4.5~~3~~ Termination of Appointment of Meter Administrator.	Provision of Sufficient Data.	Incoming Meter Administrator.	Complete, valid, correct format and accurate within Timescales.	(i) 95% within 5 working days in accordance with BSC Procedure BSCP520 (ii) 99% within 15 working days in accordance with BSC Procedure BSCP520.	Report, sent by the Supplier. Provision of data under PSL100 section 10.1.2.
4	Meter Administrator.	3.1.13~~4~~ Metering Obligation.	Operation of Equivalent Meter.	Unmetered Supplies Operator.	Within 5WD validate Summary Inventory against OID. ~~Request summary inventory.~~	(i) 95~~100~~% of requests within 5~~1~~ working days (ii) (ii) 99% within 15 working days in accordance with BSC Procedure BSCP520. ~~of failure to receive summary inventory by 5 working days after appointment.~~	Report, sent by the Supplier. Provision of data under PSL100 section 10.1.2.
5		3.1.15 Metering Obligation.	Operation of Equivalent Meters.	Supplier.	Notify failure to provide information for Initial Settlement.	100% within 1 working day of Initial Settlement Run.	Report, sent by the Supplier. Provision of data under PSL100 section 10.1.2.

Seri	Sender	Process	Sub-process / Data Flow	Recipient	Performance Measure	Service levels	Reporting Method
6		~~3.4.6~~4.5.2 Metering Obligation.	Provision of PECU array.		Compliance with BSCP520.	100% to BSCP520.	Provision of data under PSL100 section 10.2.1.
7	Meter Administrator.	3.7.5 Metering Obligation.	Confirmation of energisation status change.	Data Collector, Supplier.	Complete, valid, correct format and accurate within Timescales.	(i) 95% within 5 working days 3 in accordance with BSCP520; (ii) 99% within 15 working days in accordance with BSCP520.	Report, sent by the Supplier. Provision of data under PSL100 section 10.1.2.
8	Meter Administrator.	3.9.1.2~~4~~ Interface to Other Agents.	Metering Equipment Technical Details.	Data Collector.	Complete, valid, correct format and accurate within Timescales.	(i) 95% within 5 working days 3 in accordance with BSCP520; (ii) 99% within 15 working days in accordance with BSCP520.	Report, sent by the Supplier. Provision of data under PSL100 section 10.1.2.

Seri	Sender	Process	Sub-process / Data Flow	Recipient	Performance Measure	Service levels	Reporting Method
9		3.14~~13~~.4 Interface to Other Agents.	Error Rectification.	Data Collector.	Notification of data availability following re-run.	95% within 1 working day of re-run; 99% within 5 working days of re-run.	Report, sent by the Supplier. Provision of data under PSL100 section 10.1.2.

Attachment Redlined BSCP520 v14.0 for CP1291

Section 1.1 – 1.2 no changes

1.2.1 UMSO Responsibilities

Where an UMS has been agreed, each UMSO shall be responsible for the following:-

a) where the inventory is subject to HH trading, providing a copy of the summary inventory to the appointed MA of an EM. Agreed updates to the summary inventory will be similarly passed to the appointed MA;

b) providing Unmetered Supply Certificates;

c) requesting additional MSIDs from the SMRA where additional inventory items need to be allocated to alternative SSCs and associated Profile Class and passing details of all MSIDs and the associated Meter Timeswitch Code and Profile Class to the Supplier for registration;

d) where the inventory is subject to NHH trading, calculating initial and revised EACs and submitting them to the appointed Supplier and NHHDC;

e) agreeing with the Supplier the type of EM (i.e. whether passive or dynamic) to be used in the LDSO's area and the location of any associated photo-electric cell unit (PECU) arrays;

f) informing Suppliers and MA of the weighted average latitude and longitude information for the installed Apparatus for each MSID where an EM is being used;

g) providing any other additional information required to enable the Supplier to determine the Distribution Use of System (DUoS) charges;

h) for supporting the Trading Query / Trading Dispute process as required by Section W of the Code;

i) for responding to any queries raised by the Panel, Supplier, the Supplier Volume Allocation Agent, the Data Collector, the Meter Administrator and / or the BSC Auditor;

j) providing Suppliers with the data that will enable them to fulfil their obligations under the Code;

k) notifying Suppliers on discovering that any Settlement data for which the UMSO is responsible is potentially incorrect or missing;

l) retaining all the data that is necessary for the Supplier to fulfil its Code obligations e.g. history of summary inventories, history of EACs. Data must be retained for a minimum of 40 months;

m) ensuring that the Customer continues to comply with the conditions for an Unmetered Supply;

n) issuing an annual spreadsheet containing all UMS EACs for each MSID split by Settlement Register (using the appropriate Average Fraction of Yearly Consumption) to Suppliers each June, and providing confirmation to BSCCo. that this process has occurred; ~~and~~

o) resending the correct EAC(s) to the NHHDC upon instruction by the Supplier if Supplier identifies a discrepancy between EACs received from NHHDCs to those received from the UMSO; and~~.~~

p) validating all Charge Codes and Switch Regimes against the Operational Information Document (OID) and associated spreadsheets.

Section 1.2.2 – 1.2.3 no changes

1.2.~~2~~ 4 Meter Administrator Responsibilities

In summary, the MA is responsible for the following:-

a) receiving a copy of the agreed summary inventory of the UMS Apparatus for an MSID, together with agreed updates, from the UMSO;

b) inputting the summary inventory information into the EM and forwarding ~~a copy of the~~ an inventory ~~printout~~ extracted from the EM to the UMSO and Customer;

c) using ~~receiving from the UMSO~~ the latitude and longitude information for the~~a~~n MSID appropriate to the installed Apparatus ~~and inputting the information into the EM~~;

d) validating all Charge Codes and Switch Regimes against the Operational Information Document (OID) and associated spreadsheets;

~~d) implementing updates to the Appendices of this BSCP when notified;~~

~~e) operating and maintaining the EM hardware and software;~~

~~f~~e) ensuring metered data from the EM is available to the HHDC to meet the Volume Allocation Run timescales required by the Supplier;

~~g~~f) indicating to the HHDC when data is not available or missing; and

g) retaining Settlement data in accordance with this BSCP and ~~P~~arty ~~S~~ervice ~~L~~ine 100 'Non Functional Requirements for Licensed Distribution System Operators and Party Agents'.

Section 1.2.4.1 no changes

1.2.~~4~~2.2 Equivalent Meter Audit Requirements

MAs shall ensure that audit trails are maintained between:

- Equivalent Meter failure reports or energisation/de-energisation requests, and any subsequent ~~readings~~ actions taken; and
- data requested and data sent (or received) in relation to transfers of data between outgoing and incoming MAs.

Section 1.2.4.3 no changes

1.2.~~4~~2.4 Recording Devices

The MA shall ensure that the import of electrical energy by every SVA Metering System to which it is appointed is accurately recorded by the correct use of an Equivalent Meter ~~which meets the specifications set out in this BSCP~~.

If requested by the LDSO, the MA shall provide details of reactive power as an output from the Equivalent Meter.

~~The MA shall use only an Equivalent Meter permitted for use within the relevant GSP Group by the LDSO.~~

1.2.~~4~~2.5 Systems and Processes

The MA shall use systems and processes so approved in accordance with BSCP537 in the operation of Equivalent Meters. These systems and processes must also comply with all other applicable requirements set out in the Code and other relevant CSDs.

Section 1.2.4.6 – 1.2.5 no changes

1.2.6 Approval of an Equivalent Meter

Equivalent Meter shall be approved as defined in 3.13 and will comply with the Technical Specification for an EM as defined in 4.5.

Section 1.3 – 2.0 no change

3.1 Establishment of a New UMS Inventory

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.1		Agree that the application for UMS meets the requirements of Section 1.1 and receive and agree the inventory of Apparatus from the Customer.	UMSO.	Customer.	Signed UMS Connection Agreement. Customer's Approved Detailed Inventory.	Paper, fax or electronic media, as agreed.
3.1.2		Is UMS to be traded HH? If so, proceed to 3.1.3. If UMS not HH, proceed to 3.1.17~~22~~.	UMSO.		Notification received from Supplier or Customer.	Internal Process.
3.1.3	If HH.	UMSO request new MSID.	UMSO.	SMRA.	P0171 Request Creation of UMS Skeleton SMRS Record.	Paper, fax or electronic media, as agreed.
3.1.4		SMRA Allocate MSID per UMS Certificate.	SMRA.			Internal Process
3.1.5		Create skeleton, record details of MSID in accordance with BSCP501.[1] Send MSID(s) to UMSO.	SMRA.	UMSO.	P0171 Request Creation of UMS Skeleton SMRS Record.	Internal Process. Paper, fax or electronic media, as agreed.

[1] Although the SMRA requires a MOA to be appointed, this is a 'dummy MOA' and for record purposes only.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.6		Complete UMS Certificate. Issue to Customer and Supplier, if appointed earlier on in the process	UMSO.	Customer, Supplier.	P0170 HH Unmetered Supply Certificate.	Internal Process. Paper, fax or electronic media, as agreed.
3.1.7	On Customer request	~~Confirm with~~ Request from the UMSO the type of EM and ~~and agree~~ the location, if any, of the PECU array(s).	MA	UMSO.	P0176 Request for EM Details.	Paper, fax or electronic media, as agreed.
3.1.8	With 5WD of 3.1.7	Agree~~Confirm with Supplier~~ the type of EM and ~~and agree~~ the location, if any, of the PECU array(s) in accordance with the provision of the PECU Array siting procedures in 4.5.1.1. Provide latitude and longitude information to Supplier and MA.	UMSO.	Supplier.~~,~~ ~~Supplier,~~ MA.	P0068 UMS EM Technical Details.	Paper, fax or electronic media, as agreed.
3.1.9		Send Supplier and registration details to SMRA.	Supplier.	SMRA.	D0055 Registration of Supplier to Specified Metering Point.	Electronic or other agreed method.
3.1.10		Record details for MSID in accordance with BSCP501.	SMRA.			Internal Process.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.11		Send appointment details and additionally EM details to relevant recipients.	Supplier.	MA. HHDC. HHDA. UMSO.	D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. ~~P0068 UMS EM Technical Details.~~ D0148 Notification of Change to Other Parties. D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. D0148 Notification of Change to Other Parties. D0153 Notification of Data Aggregator Appointment and Terms. D0148 Notification of Change to Other Parties.	Electronic or other agreed method.
~~3.1.12~~	~~Following 3.1.11.~~	~~Complete MA tasks.~~	~~MA.~~			~~Internal Process.~~
3.1.123	Within 5WD fFollowing 3.1.11.	Send Ssummary iInventory details to MA.	UMSO.	MA.	P0064 Summary Inventory (for Half Hourly Trading) and/or CMS Control File as appropriate.	Paper, fax or electronic media, as agreed.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.134	Within 5WD validate Summary Inventory against OID. If inventory fails validation items exist in the summary inventory for which no data on load and switching times have been defined.	Provide the MA with additional information to be input into the EM.Reject listing iSummary Inventory and await new Summary Inventory	UMSOMA.	MA.UMSO	As agreed.List of invalid codes.	Electronic or other agreed method.
3.1.145	If Summary Inventory passes validationFollowing 3.1.13.	Input into EM and sSend copy of Summary Inventory extracted from the MA System to UMSO and to Customer. Input the tables of loads and switching times for items referenced in the summary inventory into the EM. Where items exist in the summary inventory for which no data on load and switching times have been defined the MA shall use information provided by the UMSO. Send copy of meter inventory to UMSO and confirm correct with UMSO. Also send to Customer.	MA.	UMSO, Customer.	P0064 Summary Inventory (for Half Hourly Trading).	Internal Process. Paper, fax or electronic media, as agreed.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.156	If unable to send HH data before SSDitems exist in the summary inventory for which no data on load and switching times have been defined and step 3.1.14 is not complete.	Inform the Supplier of an EM fault (as set out in 3.143.1).	MA.	Supplier, HHDC.		Electronic or other agreed method.
3.1.17	Following 3.1.16.	Use the values considered most appropriate until step 3.1.14 is complete and data is provided.	MA.			Internal Process.
3.1.168	Following 3.1.17Prior to SSD or Energisation Date whichever is later.	Send METD and Lliaise with HHDC to ensure data from EM can be collectedprocessed.	MA.	HHDC.	P0068 UMS EM Technical Details. D0003 Half Hourly Advances orOR Section 4.5.43 EM Output File[2] (or (trial data (see 3.15)).	Electronic or other agreed method.
3.1.179	After 3.1.2 for NHH.	Request new MSID per SSC.	UMSO.	SMRA.	P0171 Request Creation of UMS Skeleton SMRS Record.	Paper, fax or electronic media, as agreed.

[2] The EM Output file can only be used if a secure method of data transfer has been agreed between the MA and the HHDC,

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.18~~20~~		Allocate MSIDs per SSC per UMS Certificate. Create skeleton record details of MSIDs in accordance with BSCP501.	SMRA.			Internal Process.
3.1.19~~21~~		Calculate EACs, complete UMS Certificate. Issue UMS Certificate to Customer and Supplier if appointed earlier on in the process.	UMSO.	Customer, Supplier	P0207 NHH Unmetered Supply Certificate.	Internal Process. Paper, fax or electronic media, as agreed.
3.1.20~~2~~		Send Supplier and registration details to SMRA for all listed MSIDs.	Supplier.	SMRA.	D0055 Registration of Supplier to Specified Metering Point.	
3.1.21~~3~~		Record details for all of the MSIDs in accordance with BSCP501.	SMRA.			Internal Process.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.224		Send appointment details.	Supplier.	NHHDC. UMSO. NHHDA.	D0148 Notification of Change to Other Parties. D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. D0148 Notification of Change to Other Parties. D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. D0153 Notification of Data Aggregator Appointment and Terms.	Electronic or other agreed method.
3.1.235		Send split EAC, Profile Class and SSC details for each MSID.	UMSO.	Supplier, NHHDC.	D0052 Affirmation of Metering System Settlement Details.	Electronic or other agreed method.
3.1.246	On receipt of D0052.	Validate D0052.	NHHDC		In accordance with BSCP504 Non-Half Hourly Data Collection.	Internal Process.
3.1.257	If D0052 is invalid.	Send notification of invalid Metering System Settlement details.	NHHDC	UMSO, Supplier	D0310 Notification of Failure to Load or Receive Metering System Settlement Details.	Electronic or other agreed method.

3.2 Amendment to Inventory

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.1	When change(s) to Unmetered apparatus.	Send proposed revised detailed inventory to UMS.	Customer.	UMSO.	Customer's proposed revised detailed inventory.	Paper, fax or electronic media, as agreed.
3.2.2		Ensure revision to the inventory of Apparatus meets the requirements of Section 1.1 and also agree the revised inventory of Apparatus with Customer.	UMSO.	Customer.	Customer's Approved Detailed Inventory with agreed EFD.	Paper, fax or electronic media, as agreed.
~~3.2.3~~		~~Is UMS traded HH? If so, proceed to 3.2.4.~~ ~~If not HH, proceed to 3.2.6.~~	~~UMSO.~~		~~Notification received from Supplier or Customer.~~	~~Internal Process.~~
3.2.~~4~~3	If HH following 3.2.2, when UMSO has agreed amendment to Summary Inventory with Customer, then within 5WD.	Send revised S~~s~~ummary I~~i~~nventory details to MA.	UMSO.	MA.	P0064 Summary Inventory (for Half Hourly Trading) and/or CMS Control File as appropriate.	Paper, fax or electronic media, as agreed.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.~~5~~4	If items exist in the updated summary inventory for which no data on load and switching times have been defined.	Reject listing invalid codes to the UMSO and continue to use or re-apply previous inventory.~~Provide the MA with additional information to be input into the EM.~~	MA.~~UMSO.~~	UMSO~~MA.~~	List of invalid codes.~~As agreed~~	Electronic or other agreed method.
3.2.~~6~~5	Within 5WD of receipt or by the EFD.~~Following 3.2.7.~~	Input and s~~S~~end copy of Summary Inventory extracted from the MA System to UMSO and ~~to~~ Customer. ~~Input the tables of loads and switching times for items referenced in the summary inventory into the EM. Where items exist in the summary inventory for which no data on load and switching times have been defined the MA shall use information provided by the UMSO.~~ ~~Send copy of meter inventory to UMSO and confirm correct with UMSO. Also send to Customer.~~	MA.	UMSO, Customer.	P0064 Summary Inventory (for Half Hourly Trading) and/or CMS Control File as appropriate.	Internal Process. Paper, fax or electronic media, as agreed.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
~~3.2.76~~	~~If items exist in the summary inventory for which no data on load and switching times have been defined and step 3.2.8 is not completed.~~	~~Inform the Supplier of an EM fault (as set out in 3.13).~~	~~MA.~~	~~Supplier~~		~~Electronic or other agreed method.~~
~~3.2.87~~	~~Following 3.2.10.~~	~~Use the values considered most appropriate until step 3.2.8 is complete and data is provided.~~Use existing ~~information and request revised detail from the UMSO~~	~~MA.~~	~~UMSO~~	~~Request for revised detail.~~	~~Internal Process.~~Electron~~ic or other agreed method.~~
3.2.~~69~~	After 3.2.2 for NHH.	If required request additional MSID(s) per SSC.	UMSO.	SMRA.	P0171 Request Creation of UMS Skeleton SMRS Record.	Paper, fax or electronic media, as agreed.
3.2.~~710~~		Where appropriate allocate additional MSID(s) per SSC. Create skeleton record details of MSID(s) in accordance with BSCP501.[1]	SMRA.			Internal Process.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.~~11~~8		Send MSID(s) to UMSO.	SMRA.	UMSO.	P0171 Request Creation of UMS Skeleton SMRS Record.	Paper, fax or electronic media, as agreed.
3.2.~~9~~12		Calculate revised EACs. Complete UMS Certificate. Issue to Customer and Supplier.	UMSO.	Customer, Supplier.	See Appendix 4.4. P0207 NHH Unmetered Supply Certificate. .	Paper, fax or electronic media, as agreed.
3.2.1~~0~~3		As required, for any MSID(s) with zero EACs follow de-energisation and Disconnection process as set out in (3.7) and (3.8) respectively. Send to SMRA for any additional listed MSIDs.	Supplier.	SMRA.	D0055 Registration of Supplier to Specified Metering Point.	
3.2.1~~1~~4		Record details in accordance with BSCP501.	SMRA.			Internal Process.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.1245		Where appropriate, send appointment details.	Supplier.	NHHDC. UMSO. NHHDA.	D0148 Notification of Change to Other Parties. D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. D0148 Notification of Change to Other Parties. D0155 Notification of new Meter Operator or Data Collector Appointment and Terms. D0153 Notification of Data Aggregator Appointment and Terms.	Electronic or other agreed method.
3.2.136		Send revised split EAC, Profile Class and SSC details for each MSID.	UMSO.	Supplier, NHHDC.	D0052 Affirmation of Metering System Settlement Details.	Electronic or other agreed method.
3.2.147	On receipt of D0052.	Validate D0052.	NHHDC		In accordance with BSCP504 Non-Half Hourly Data Collection.	Internal Process.
3.2.158	If D0052 is invalid.	Send notification of invalid Metering System Settlement details.	NHHDC	UMSO, Supplier	D0310 Notification of Failure to Load or Receive Metering System Settlement Details.	Electronic or other agreed method.

3.3.1 Half Hourly Trading

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.1.1	By SSD - 1WD.	Establish with the UMSO that the UMS Certificate is appropriate and that the UMS meets the requirements of Section 1.1. Send Supplier and registration details to SMRA.	New Supplier.	UMSO. SMRA.	P0170 HH Unmetered Supply Certificate. D0055 Registration of Supplier to Specified Metering Point.	Paper, fax or electronic media, as agreed.
~~3.3.1.2~~		~~Provide latitude and longitude information.~~	~~UMSO.~~	~~New Supplier, MA.~~	~~P0068 UMS EM Technical Details.~~	~~Paper, fax or electronic media, as agreed.~~
~~3.3.1.3~~		~~Record details for MSID in accordance with BSCP501.~~	~~SMRA.~~			~~Internal Process.~~

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.1.2~~3.3.1.4~~		Send appointment details ~~and additionally EM details~~ to relevant recipients.	Supplier.	~~New~~ HHDC. UMSO. ~~New~~ HHDA. ~~New~~ MA.	D0148 Notification of Change to Other Parties. D0155 Notification of New Meter Operator or Data Collector Appointment and Terms. D0148 Notification of Change to Other Parties. ~~D0155 Notification of New Meter Operator or Data Collector Appointment and Terms..~~ D0153 Notification of Data Aggregator Appointment and Terms. D0155 Notification of New Meter Operator or Data Collector Appointment and terms. ~~P0068 UMS EM Technical Details.~~ D0148 Notification of Change to Other Parties.	Electronic or other agreed method.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.1.3		Agree with Supplier the type of EM and the location, if any, of the PECU array(s) accordance with the provision of the PECU Array siting procedures in 4.5.1.1. Provide latitude and longitude information to Supplier and MA.	UMSO.	Supplier, MA.	P0068 UMS EM Technical Details.	Paper, fax or electronic media, as agreed.
3.3.1.4	If New MA	See Sections 3.4.3 to 3.4.5				
3.3.1.5	If New DC	See Sections 3.5.2 to 3.5.3				
3.3.1.6		Send appointment termination details.	Old Supplier.	Old MA. Old HHDC. Old HHDA.	D0151 Termination of Appointment or Contract by Supplier.	Electronic or other agreed method.
~~3.3.1.5~~		~~Complete MA tasks.~~	~~New MA.~~			~~Internal Process.~~
3.3.1.7~~3.3.1.6~~	If New MA	Send Summary Inventory details to MA. See Section 3.4.3 ~~Send summary inventory details to MA.~~	UMSO.	~~New~~ MA.	P0064 Summary Inventory (for Half Hourly Trading) and/or CMS Control File as appropriate.	Paper, fax or electronic media, as agreed.~~Paper, fax or electronic media, as agreed.~~

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.1.8~~3.3.1.7~~	~~If New MA~~	Reject listing invalid codes to the UMSO and continue to ~~a~~use or re-apply previous inventory.~~Input information into the EM.~~ ~~Send copy of input data to UMSO and confirm correct.~~	MA.~~New MA.~~	UMSO ~~UMSO.~~	List of invalid codes. ~~P0064 Summary Inventory (for Half Hourly Trading).~~	Electronic or other agreed method.~~Internal Process~~ ~~Paper, fax or electronic media, as agreed.~~
3.3.1.9~~3.3.1.8~~	If New MA, Prior to SSD or Energisation Date whichever is later.	Send METD and liaise with HHDC to ensure data from EM can be processed~~ collected and liaise to ensure that data from EM can be collected~~.	MA.~~New MA.~~	HHDC.~~New HHDC.~~	P0068 UMS EM Technical Details. D0003 Half Hourly Advances **OR** Section 4.5.3 EM Output File[5] or trial data (see 3.15).~~P0068 UMS EM Technical Details. D0003 Half Hourly Advances **OR** Section 4.5.3 EM Output File (trial data).~~	Electronic or other agreed method.~~Electronic or other agreed method.~~
~~3.3.1.9~~		~~Send appointment termination details.~~	~~Old Supplier.~~	~~Old MA.~~ ~~Old HHDC.~~ ~~Old HHDA.~~	~~D0151 Termination of Appointment or Contract by Supplier.~~ ~~D0151 Termination of Appointment or Contract by Supplier.~~ ~~D0151 Termination of Appointment or Contract by Supplier.~~	~~Electronic or other agreed method.~~
3.3.1.10	If concurrent with change of MA	Liaise with old HHDC to ensure data from EM can be collected up to end date.	Old MA.	Old HHDC.	P0173 Confirmation of End Readings Date.	Electronic or other agreed method.

Section 3.3.2 – no changes

3.4 Change of MA

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.4.1		Send details of appointed MA. ~~Send EM details to MA.~~	Supplier.	UMSO. HHDC. New MA.	D0148 Notification of Change to Other Parties. D0148 Notification of Change to Other Parties. ~~P0068 UMS EM Technical Details.~~ D0148 Notification of Change to Other Parties. D0155 Notification of New Meter Operator or Data Collector Appointment and Terms.	Electronic or other agreed method.
3.4.2		Send appointment termination details to old MA.	Supplier.	Old MA.	D0151 Termination of Appointment or Contract by Supplier.	Electronic or other agreed method.
3.4.3		Send Summary Inventory details to MA.	UMSO.	New MA.	P0064 Summary Inventory (for Half Hourly Trading) and/or CMS Control File as appropriate.	Paper, fax or electronic media, as agreed.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.4.~~43~~	~~On expiry/ termination of the MA's appointment as MA in respect of a SVA Metering System.~~	~~Transfer~~ Request sufficient ~~metering~~ information to enable the incoming MA to assume responsibility for the SVA Metering System. This data may exclude that data provided by the Supplier pursuant to paragraph 1.2.4.1.	~~Old~~ New MA.	~~New~~ Old MA.	As agreed.	Electronic or other agreed method.
3.4.~~54~~	~~On appointment~~	~~Send metering~~Transfer information.	~~New~~ Old MA.	New MA~~HHDC.~~	~~P0068 UMS EM Technical Details.~~As a~~A~~greed	Electronic or other agreed method.

3.5 Change of Data Collector for an existing MSID

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.5.1		Send new HHDC or NHHDC registration details to SMRA.	Supplier.	SMRA.	D0205 Update Registration Details.	Electronic or other agreed method.
~~3.5.2~~		~~Update details for MSID in accordance with BSCP501.~~	~~SMRA.~~			~~Internal Process.~~
~~3.5.3~~		~~Is UMS to be traded HH? If so, proceed to 3.5.4.~~ ~~If UMS not HH, proceed to 3.5.8.~~	~~UMSO.~~		~~Notification received from Supplier.~~	~~Internal Process.~~

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.5.~~4~~2	If HH.	Send details of appointed HHDC.	Supplier.	MA. New HHDC. If New HHDA	D0148 Notification of Change to Other Parties. ~~D0155 Notification of New Meter Operator or Data Collector Appointment and Terms.~~ D0148 Notification of Change to Other Parties. D0155 Notification of New Meter Operator or Data Collector Appointment and Terms. ~~D0148 Notification of Change to Other Parties.~~ D0153 Notification of Data Aggregator Appointment and Term	Electronic or other agreed method.
3.5.~~5~~3		Send METD to new HHDC and liaise with both HHDCs to ensure data from EM can be collected to/from transition date.	MA.	New HHDC. Old HHDC.	~~P0068 UMS EM Technical Details.~~ ~~D0003 Half Hourly Advances.~~ ~~OR~~ Appendix 4.5.~~4~~3 EM Output File or ~~(~~trial data (see 3.15)~~).~~ P0173 Confirmation of End Readings Date. P0174 Confirmation of Start Readings Date.	Electronic or other agreed method.
3.5.~~6~~4		Send appointment termination details to old HHDC.	Supplier.	Old HHDC.	D0151 Termination of Appointment or Contract by Supplier.	Electronic or other agreed method.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
~~3.5.7~~		~~Liaise with MA to ensure data from EM can be collected up to end date.~~	~~Old HHDC.~~	~~MA.~~	~~D0151 Termination of Appointment or Contract by Supplier.~~ ~~P0173 Confirmation of End Readings Date.~~	~~Electronic or other agreed method.~~
3.5.~~58~~	If NHH.	Send appointment details of new NHHDC and details of previous Supplier's NHHDC.	Supplier.	New NHHDC. UMSO.	D0148 Notification of Change to Other Parties. D0155 Notification of New Meter Operator or Data Collector Appointment and Terms. D0148 Notification of Change to Other Parties. D0155 Notification of New Meter Operator or Data Collector Appointment and Terms.	Electronic or other agreed method.
3.5.~~69~~		Send appointment termination details of old NHHDC.	Supplier.	Old NHHDC.	D0151 Termination of Appointment or Contract by Supplier.	Electronic or other agreed method.
3.5.~~710~~		Request from old NHHDC details of split EAC, Profile Class and SSC details for each MSID.	New NHHDC.	Old NHHDC.	D0170 Request for Metering System Related Details.	Electronic or other agreed method.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.5.8~~11~~		Send details for each MSID.	Old NHHDC.	New NHHDC.	D0152 Metering System EAC/AA Historical Data. D0036 Validated Half Hourly Advances for Inclusion in Aggregated Supplier Matrix.	Electronic or other agreed method.
3.5.9~~12~~		Request from New NHHDC details of split EAC, Profile Class and SSC details for each MSID.	Supplier.	New NHHDC.	D0170 Request for Metering System Related Details.	Electronic or other agreed method.

Section 3.6 – no changes

3.7 Change of Energisation Status of an MSID

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.1		Request UMSO to energise or de-energise an MSID.	Supplier.	UMSO.	D0134 Request to Change Energisation Status.	Electronic or other agreed method.
3.7.2		Complete work, as appropriate. Was UMS traded HH? If so, proceed to 3.7.3. If UMS not HH, proceed to 3.7.8~~9~~.	UMSO.		Notification received from Supplier.	Internal Process.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.3	If HH.	Confirm to Supplier and MA actual energisation or de-energisation date.	UMSO.	MA. Supplier.	D0139 Confirmation or Rejection of Energisation Status Change. D0139 Confirmation or Rejection of Energisation Status Change.	Electronic or other agreed method. Electronic or other agreed method.
3.7.4		Notify SMRA of energisation or de-energisation date for an MSID.	Supplier.	SMRA.	D0205 Update Registration Details	Electronic or other agreed method.
3.7.5		Notify HHDC of energisation or de-energisation date for an MSID.	MA.	HHDC.	D0139 Confirmation or Rejection of Energisation Status Change.	Electronic or other agreed method.
3.7.6		Liaise with HHDC to stop or start collecting data.	MA.	HHDC.	P0173 Confirmation of End Readings Date. or P0174 Confirmation of Start Readings Date.	Paper, fax or electronic media, as agreed.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.7	~~When a Metering System has been set to de-energised~~On change of energisation status.	Set the output of the EM to zero for each SVA Metering System that has been de-energised. Or start Collection Activities see 3.9.1	MA			Internal Process.
~~3.7.8~~		~~Update record for MSID as per BSCP501.~~	~~SMRA.~~			~~Internal Process.~~
3.7.~~8~~9	If NHH.	Confirm to Supplier and NHHDC actual energisation or de-energisation date.	UMSO.	NHHDC. Supplier.	D0139 Confirmation or Rejection of Energisation Status Change. ~~D0139 Confirmation or Rejection of Energisation Status Change.~~	Electronic or other agreed method. ~~Electronic or other agreed method.~~
3.7.~~9~~10		Notify SMRA of energisation or de-energisation date for an MSID(s).	Supplier.	SMRA.	D0205 Update Registration Details.	Electronic or other agreed method.

~~3.8~~3.8 Disconnection of an MSID Following De-energisation[3]

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.8.1		Request UMSO to Disconnect an MSID, identifying whether any physical work is required.	Supplier.	UMSO.	D0132 Request for Disconnection of Supply.	Paper, fax or electronic media, as agreed.
3.8.2		Complete any physical work as required. Send actual Disconnection date.	UMSO.	SMRA. Supplier.	P0175 Request to SMRA to Disconnect a UMS Metering Point. D0125 Confirmation of Disconnection of Supply.	Internal Process. Paper, fax or electronic media, as agreed.
3.8.3		Update record for MSID as per BSCP501.	SMRA.	Supplier.	D0171 Notification of LDSO Changes to Metering Point Details.	.
~~3.8.4~~		~~Was UMS traded HH? If so, proceed to 3.8.5.~~ ~~If UMS not HH, proceed to 3.8.6.~~	~~UMSO.~~		~~Notification received from Supplier.~~	~~Internal Process.~~

[3] Where logical disconnection has taken place e.g. on CoMC then the disconnection process can be followed without the de-energisation process

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.8.5	If HH.	Notify MA, HHDC and HHDA of appointment termination date for an MSID.	Supplier.	MA, HHDC, HHDA.	D0151 Termination of Appointment or Contract by Supplier. ~~D0151 Termination of Appointment or Contract by Supplier.~~ ~~D0151 Termination of Appointment or Contract by Supplier.~~	Electronic or other agreed method.
3.8.6	If NHH.	Send appointment termination date for an MSID.	Supplier.	NHHDC, NHHDA, UMSO.	D0151 Termination of Appointment or Contract by Supplier. ~~D0151 Termination of Appointment or Contract by Supplier.~~ ~~D0151 Termination of Appointment or Contract by Supplier.~~	Electronic or other agreed method.

~~3.9.1~~ 3.9.2 Half Hourly Trading

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.9.1.1	As agreed with Suppliers schedule.	Produce and validate metering data from the EM for each ~~energised~~ MSID for each Settlement Day.	MA.		~~D0003 Half Hourly Advances **OR** Section 4.5.3 EM Output File[4].~~	Internal Process.
~~3.9.1.2~~	~~As agreed with Suppliers schedule~~	~~Validate the metering data.~~	~~MA.~~		~~D0003 Half Hourly Advances **OR** Section 4.5.3 EM Output File[6].~~	~~Internal Process.~~
3.9.1.~~2~~3	At such time as to allow the HHDC to collect the data and carry out its obligations to ensure that the correct data is used for the purpose of the Initial Volume Allocation Run.	MA to notify HHDC of metering data.	MA.	HHDC.	D0003 Half Hourly Advances **OR** Section 4.5.~~4~~3 EM Output File[4].	Electronic or other agreed method.
~~3.9.1.4~~	~~If MTD change.~~	~~Send revised MTD.~~	~~MA.~~	~~HHDC.~~	~~P0068 UMS EM Technical Details.~~	~~Electronic or other agreed method.~~

[4] The EM Output file can only be used if a secure method of data transfer has been agreed between the MA and the HHDC,

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
~~3.9.1.5~~	~~When the summary inventory has been changed.~~	~~Send the output of the EM with the summary inventory used by the EM identified with the first Settlement Day to which it was applied.~~	~~MA.~~	~~UMSO.~~	~~EM Output, revised Summary Inventory (P0064) and the Settlement Day to which it was first applied.~~	~~Electronic or other agreed method.~~
3.9.1.~~36~~	If data is missing or invalid.	Resolve any missing or invalid data with MA.	~~HHDC.~~MAHHDC	MA~~MA.HHDC~~	~~D0003 Half Hourly Advances **OR** Section 4.5.3 EM Output File (re-send data).~~ D0004 Notification of Failure to Obtain Reading.	Electronic or other agreed method.
~~3.9.1.7~~	~~If data is missing.~~	~~Estimate any missing data and process all data (estimated and metering data) according to BSCP502.~~	~~HHDC.~~		~~See BSCP502.~~	~~Internal Process.~~
~~3.9.1.8~~	~~As agreed with Suppliers schedule~~	~~Send valid data.~~	~~HHDC.~~	~~LDSO, HHDA, Supplier.~~	~~D0036 Validated Half Hourly Advances For Inclusion In Aggregated Supplier Matrix.~~	~~Electronic or other agreed method.~~
3.9.1.4		Re-send EM Output File	MA	HHDC	Section 4.5.~~3~~3 EM Output File (re-send data). D0003 Half Hourly Advances **OR** Section 4.5.~~3~~3 EM Output File[4]	
~~3.9.1.9~~		~~Resolve any inconsistencies in accordance with BSCP502.~~	~~HHDA.~~	~~HHDC.~~		~~Electronic or other agreed method.~~

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
~~3.9.1.510~~	~~When requested by UMSO.~~	~~Use one or more PECU Arrays (as advised by the UMSO) to input into the EM to determine the switching times of relevant items on the summary inventory.~~	~~New MA.~~			~~Internal Process.~~
~~3.9.1.611~~	~~As required~~	~~Request details of the EM.~~	~~HHDC.~~	~~MA.~~		~~Electronic or other agreed method.~~
~~3.9.1.712~~	~~Following 3.9.1.611~~	~~Provide details from the EM.~~	~~MA.~~	~~HHDC.~~	~~Full details of how to extract and interpret the Half Hourly data relevant to a SVA Metering System Number from the Equivalent Meter.~~	~~Electronic or other agreed method.~~

~~3.14~~Section 3.9.2 – 3.13 no changes

3.14 Fault Reporting[5] – Investigating Inconsistencies

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.14.1	When a potential fault or inconsistency ~~with an EM~~ is identified for which the MA is responsible, which means that data may be or is missing	Advise of the potential for a fault or inconsistency.	~~MA.~~Any Participant	Supplier, HHDC. MA.	Details of the potential fault.	Electronic or other agreed method.

[5] Failures related to PECU arrays are covered in 4.5.1.2.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
	and/or incorrect.					
3.14.2	Within 55 ~~2~~ WD of ~~the~~ identification of ~~the~~ a potential fault.	Investigate the potential fault and rectify it as required.	MA.			Internal Process.
3.14.3	As soon as reasonably practical following 3.14.2~~1~~.	Report the fault and the dates covered by the fault and the date and time of rectification.	MA.	Supplier, UMSO, HHDC.	Details of the fault, including the dates covered by the fault and the date and time of rectification.	Electronic or other agreed method.
3.14.4	Following 3.14.2, where it is possible to re-run the EM system to rectify the error.	~~Advise the HHDC that the correct data is available and provide assistance as reasonably required to the HHDC in recovering the data.~~Send corrected data	MA.	HHDC.	Corrected data, D0003 Half Hourly Advances **OR** Section 4.5.4 EM Output File[4]	Electronic or other agreed method.

3.15 Proving HH Unmetered SVA Metering Systems

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.15.1	As required.	Install and test communication equipment.	MA.		In accordance with the Supplier's requirements.	As agreed.
3.15.2	On each occasion that an HHDC is appointed, who is not currently appointed to another SVA Metering System to which the MA is also	Compare HH data output from the EM against test data obtained by the new HHDC. ~~Confirm that the data matches.~~	MA.	New HHDC	~~Test data from the HHDC. Matching EM test data.~~Create and send ~~Test~~Trial Data	Internal Process.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
	appointed.					
~~3.15.3~~	~~After 3.15.2~~	~~Confirm that the data matches.~~	~~MA.~~	~~HHDC.~~	~~Confirmation that the data matches.~~	~~Electronic or other agreed method.~~
~~3.15.4~~	~~After 3.15.2.~~	~~Record the Proving Test and report any errors found to the HHDC.~~	~~MA.~~	~~HHDC.~~	~~Proving Test Results.~~	~~Electronic or other agreed method.~~
3.15.35	~~After 3.15.2.~~	Record the Proving Test and report any errors found to the MA.	New HHDC.	MA.	Proving Test Results.	Electronic or other agreed method.
3.15.46	~~After 3.15.53.~~	Rectify any errors reported by the HHDC as a result of a Proving Test and repeat 3.15.2.	MA.			Internal Process.

Section 4.1- 4.4 no changes

4.5 Equivalent Meter Specification

The specification below is insufficient for a Code of Practice but describes the required functionality of Equivalent Meters used to provide Settlement consumption data for Unmetered Supplies ~~This is an interim measure until a full specification can be produced at a later stage under the auspices of the Panel.~~

New hardware and software systems complying with the relevant sections of this Appendix 4.5 may be developed and submitted to the UMSUG and the Panel for approval in accordance with Section 3.13 Approval of New Equivalent Meter. Once approved, a system may be used in conjunction with any other hardware and software so long as there is no material impact on the Equivalent Meter's original approval. Where such impact is believed to be material, further approval should be sought.

It should be noted that with regard to dynamic meters using CMS Data, approval may be sought for either:

- A dynamic meter, i.e. a system that meets the requirements of an MA system as specified in 4.5.2.3 (e.g. that it can accept the files described in 4.5.2.3 a) and 4.5.2.3 c));
- A CMS, i.e. a system that meets the requirements of a CMS as specified in 4.5.2.3 (e.g. that can produce the file described in 4.5.2.3 c)); or
- A system that combines the functions of a CMS and a dynamic meter MA system in a single application, i.e. that meets all the requirements as specified in 4.5.2.3).

A list of approved Equivalent Meter types can be found on the BSC Website.

4.5.1 ~~Hardware – PECU Arrays~~ Equivalent Meter Calculations

Equivalent Meters undertake the calculation as defined below:

For the Summary Inventory effective on the relevant day for that Sub-Meter, for either:

- **each CMS controlled item, or**
- **each Charge Code & Switch Regime combination**

multiply the number of items by the circuit watts (full or dimmed as appropriate) for the relevant Charge Code by the seconds attributable (full or dimmed as appropriate) to the Switch Regime and divide by 1,000 to determine the kWh in each half hour.

For each Sub-Meter, the seconds attributable to the Switch Regime in each half hour are derived, in order, from:

1 For CMS controlled items, the switching times and power level information in the event file (as defined in 4.5.2.3 c)) received from the CMS System (or where events have not been received at the time of the calculation, default arrangements defined in section 4.5.2.3 g);

2 For PECU Array determined items, the switching events recorded by the PECUs representing the Switch Regime in the Primary PECU Array (or the Secondary PECU Array where data from the Primary Array is not available and where a Secondary Array is defined) which passes validation (4.5.2.2 d). Where data is not available from the Primary or Secondary PECU Array, switching times from the default Switch Regime shall be used in accordance with 3 & 4 below;

3 For items with a Switch Regime not determined by a PECU Array but linked to the sunset/sunrise times, then the times as defined by the Switch Regime in conjunction with the Astronomical Almanac (4.5.2.1 e); or

4 For items with fixed switching times, then those times defined by the Switch Regime.

For each MSID, sum the kWh for each combination described above for each Sub-Meter, round the calculation to one decimal place.
Repeat for each half hour of the Settlement Day.
An identical process shall occur for kVArh data (4.5.2.1 f & 4.5.2.3 d).

Note: The EM will log all switching actions to the nearest minute.

Section 4.5.1.1 no changes

Section ~~4.5.1.2~~ 4.5.2 **PECU Array Operating Procedure**

Overview

Before a Supplier can provide the Customer with a Half Hourly Unmetered Supply the PECU array installations must be operational and a MA appointed. The PECU arrays must conform to the specification as set out in the paragraph Specification for PECU arrays.

Types of PECUs

There are different types of PECUs, with different operating characteristics. Therefore, so that the operation of the PECU arrays reflect reality:-

PECUs used in the PECU array are to be ex-circuit as per the age of the population they are representing, i.e. not new cells

The PECUs in the PECU array are to be proportional to the various types in the area covered by the PECU array.

PECU Representation in Equivalent Meter

The operation of each PECU is deemed to be proportional to the population on the PECU array of that type of cell, e.g. if there are 8 cells of one type, then the operation of each one will represent the operation of one eighth i.e. 12.5% of the load controlled by that type of cell.

Multiple PECU Arrays

If more than one PECU array is used per Inventory, then the operation of a PECU cell is deemed to be proportional to the population of that type of PECU controlled load within the area covered by that PECU array. Therefore, where more than one PECU array is used per inventory, the inventory must identify which PECU array is controlling each item.

PECU Array Maintenance and Upkeep

Each PECU array shall be installed, maintained and operated in accordance with Good Industry Practice and the accuracy of its clock be maintained within +/- 20 seconds.

The MA shall monitor the performance of the PECU Arrays to ensure that that the single cells are representative of the total population of the cells within the summary inventory.

Where the monitoring of the PECU Arrays indicates that the switching light level of a single cell is out of line with other cells of identical type in the same PECU Array, the single cell should be replaced.

Annually, the MA shall ensure that the PECU Arrays continue to reflect the requirements of the Unmetered Supplies Certificate. The MA shall notify the Supplier of the results of the annual review.

Where the LDSO has indicated, pursuant to paragraph 1.2.4.1, that a SVA Metering System to which the Meter Administrator has been appointed requires data from a

Central Management System, the Meter Administrator shall provide ad-hoc extracts of the operational event data received from such system to the LDSO on request.

The hardware and software associated with any Central Management System shall be installed, maintained and operated in accordance with Good Industry Practice, with clocks synchronised to UTC and accurate to within ± 20 seconds.

PECU Array Failure

If a single PECU on the PECU array stops operating, then the remaining operating cells of that type will represent a correspondingly higher proportion of the load.

If communications with a PECU array are lost, then data from the adjacent PECU array will be used. In the event of total PECU array data failure, the relevant time switch profile, adjusted to the burning hours assumption used by the UMSO for that PECU regime will be used; these assumptions will be refined as actual data becomes available. In the event of data recovery within the Settlement period the MA will rerun EM and submit the corrected meter readings to the HHDC.

~~The EM will log all switching actions to the nearest minute.~~

Note: There can be more than one cycle of operation within 24 hours. The EM will monitor failed PECUs. The MA must replace failed PECUs within 5 WD. The MA shall ensure that the Customers provide replacement cells of the age and type requested by the MA.

Section 4.5.2.1- 4.8.2 no change

Attachment Redlined BSCP520 v14.0 for CP1292

Section 1.1 no changes

1.2.1 UMSO Responsibilities

Where an UMS has been agreed, each UMSO shall be responsible for the following:-

a) where the inventory is subject to HH trading, providing a copy of the summary inventory to the appointed MA of an EM. Agreed updates to the summary inventory will be similarly passed to the appointed MA;

b) providing Unmetered Supply Certificates;

c) requesting additional MSIDs from the SMRA where additional inventory items need to be allocated to alternative SSCs and associated Profile Class and passing details of all MSIDs and the associated Meter Timeswitch Code and Profile Class to the Supplier for registration;

d) where the inventory is subject to NHH trading, calculating initial and revised EACs and submitting them to the appointed Supplier and NHHDC;

e) ~~agreeing with~~informing the Supplier of the type of EM (i.e. whether passive or dynamic) to be used in the LDSO's area;

f) ~~and~~ agreeing with the MA the location of any associated photo-electric cell unit (PECU) arrays in accordance with the citing procedures in 4.5.1.1;

~~f)~~g) informing Suppliers and MA of the ~~weighted average~~agreed latitude and longitude information for the installed Apparatus for each MSID where an EM is being used;

~~g)~~h) providing any other additional information required to enable the Supplier to determine the Distribution Use of System (DUoS) charges;

~~h)~~i) for supporting the Trading Query / Trading Dispute process as required by Section W of the Code;

~~i)~~j) for responding to any queries raised by the Panel, Supplier, the Supplier Volume Allocation Agent, the Data Collector, the Meter Administrator and / or the BSC Auditor;

~~j)~~k) providing Suppliers with the data that will enable them to fulfil their obligations under the Code;

~~k)~~l) notifying Suppliers on discovering that any Settlement data for which the UMSO is responsible is potentially incorrect or missing;

~~l)~~m) retaining all the data, that is necessary for the Supplier to fulfil its Code obligations e.g. history of summary inventories, history of EACs. Data must be retained for a minimum of 40 months;

~~m)~~n) ensuring that the Customer continues to comply with the conditions for an Unmetered Supply;

~~n)~~o) issuing an annual spreadsheet containing all UMS EACs for each MSID split by Settlement Register (using the appropriate Average Fraction of Yearly Consumption) to Suppliers each June, and providing confirmation to BSCCo. that this process has occurred; and

~~o)~~p) resending the correct EAC(s) to the NHHDC upon instruction by the Supplier if Supplier identifies a discrepancy between EACs received from NHHDCs to those received from the UMSO.

Section 1.2.2-4.4.3 no changes

Section 4.5.1.1 **PECU Array Siting Procedure**

Overview

The MA shall maintain and operate the PECU array or, as the case maybe, arrays used for a particular SVA Metering System. ~~There will normally be one PECU array per GSP Group but this may be varied by agreement between the UMSO and the Supplier after consideration of the following paragraphs.~~ The siting of the PECU arrays will be agreed between the~~by the~~ UMSO and the MA and be located in an area with a high density of apparatus unless otherwise agreed between the UMSO and the Supplier.

Siting Factors

The factors to be considered when determining the location and number of PECU arrays are:

a) Centres of population and hence concentrations of load;
b) Distance from another PECU array;
c) Topography;
d) Customer boundaries;
e) GSP Group boundaries; ~~and~~
f) Total load controlled; and
g) Access

Sharing PECU Arrays

One PECU array may provide data for more than one EM. Also, more than one PECU array may provide data for the same EM. There will be instances when one PECU array will service the requirements of part of, or more than, one Customer.

Research

Research may be carried out on the siting of PECU arrays, by measuring concurrent lux level readings at adjacent locations for a month.

PECU Array Variations

In considering any variation of the number of PECU arrays as stated in the overview paragraph above, the parties shall have due regard to the need:

a) to reasonably minimise costs;
b) to achieve the required accuracy in each half hour.

If a variation in the number of PECU arrays is proposed by the Supplier but is not agreed by the UMSO research may be carried as stated above. While such research is carried out and during any period of discussions, a supply in accordance with this BSCP may be commenced on the basis of the lesser of the number of PECU arrays proposed.

Failing any agreement after research and discussion the matter may be referred to the Panel for resolution.

Section ~~4.5.1.2~~ 4.5.2 **PECU Array Operating Procedure**

Overview

Before a Supplier can provide the Customer with a Half Hourly Unmetered Supply the PECU array installations must be operational and a MA appointed. The PECU arrays must conform to the specification as set out in the paragraph Specification for PECU arrays.

Types of PECUs

There are different types of PECUs, with different operating characteristics. Therefore, so that the operation of the PECU arrays reflect reality:-

a) PECUs used in the PECU array are to be ~~ex-circuit~~representative of type, manufacturer and ~~as per the~~ age of the population they are representing~~, i.e. not new cells~~.

b) The PECUs in the PECU array are to be proportional to the various types in the area covered by the PECU array.

PECU Representation in Equivalent Meter

The operation of each PECU is deemed to be proportional to the population on the PECU array of that type of cell, e.g. if there are 8 cells of one type, then the operation of each one will represent the operation of one eighth i.e. 12.5% of the load controlled by that type of cell.

Where the calculation indicates that the load controlled requires less than one PECU in the array, it may be omitted from the array (and default arrangements should then apply). Where the calculation indicates that the load controlled requires more than one PECU in the array, it shall be populated with at least two PECUs.

Multiple PECU Arrays

If more than one PECU array is used per Inventory, then the operation of a PECU cell is deemed to be proportional to the population of that type of PECU controlled load within the area covered by that PECU array. Therefore, where more than one PECU array is used per inventory, the inventory must identify which PECU array is controlling each item.

PECU Array Maintenance and Upkeep

Each PECU array shall be installed, maintained and operated in accordance with Good Industry Practice and the accuracy of its clock be maintained within +/- 20 seconds.

The MA shall monitor the performance of the PECU Arrays. ~~to ensure that that the single cells are representative of the total population of the cells within the summary inventory.~~

Where the monitoring of the PECU Arrays indicates that ~~the switching light level of~~ a single ~~cell~~ PECU is out of line with other ~~cells~~ PECUs of identical type in the same PECU Array to such an extent that the PECU is no longer representative then such PECUs shall be removed from the calculation and a retrospective calculation will be made using the remaining cells~~,~~. Failed or unrepresentative PECUs should be replaced at the next available opportunity.

~~the single cell should be replaced.~~

At least annually, or in the event of a significant change to the Summary Inventory, the MA shall ensure that the PECU Arrays are populated with PECUs in accordance with this section. ~~Annually, the MA shall ensure that the PECU Arrays continue to reflect the requirements of the Unmetered Supplies Certificate. The MA shall notify the Supplier of the results of the annual review.~~

Where the LDSO has indicated, pursuant to paragraph 1.2.4.1, that a SVA Metering System to which the Meter Administrator has been appointed requires data from a Central Management System, the Meter Administrator shall provide ad-hoc extracts of the operational event data received from such system to the LDSO on request.

The hardware and software associated with any Central Management System shall be installed, maintained and operated in accordance with Good Industry Practice, with clocks synchronised to UTC and accurate to within ± 20 seconds.

PECU Array Failure

If PECU data is not available then data from an appropriate PECU array or default data shall be used.~~If a single PECU on the PECU array stops operating, then the remaining operating cells of that type will represent a correspondingly higher proportion of the load.~~

~~If communications with a PECU array are lost, then data from the adjacent PECU array will be used. In the event of total PECU array data failure, the relevant time switch profile, adjusted to the burning hours assumption used by the UMSO for that PECU regime will be used; these assumptions will be refined as actual data becomes available.~~ In the event of data recovery ~~within the Settlement period~~ the MA will rerun EM and submit the corrected meter readings to the HHDC.

The EM will log all switching actions to the nearest minute.

~~**Note: There can be more than one cycle of operation within 24 hours.**The EM will monitor failed PECUs. The MA must replace failed PECUs within 5 WD. The MA shall ensure that the Customers provide replacement cells of the age and type requested by the MA.~~

Section ~~4.5.1.3~~4.5.2.1 **Minimum Specification for PECU Arrays**

Number of Photocells per array	30
Arrangement of Cells	Any arrangement which ensures no over shadow of one cell on another.
Mounting Platform	Flat platform which can be fitted on a flat roof or supported on a single upright for wall mounting. All the construction must be coated with a weather coated finish.
Mounting for Photocells	NEMA photocell sockets and 6 blanking plates to cater for miniature cells where required, in a waterproof housing.
Waterproof Housing	All equipment externally located must be protected by a weatherproof enclosure.
Data Collection	To capture the switching on and off times of each cell together with the Lux level at time of operation for a minimum of 7 days and 28 events per cell. Rolling Barrel (data overwrites once the logger is full).
~~Communication Equipment~~	~~Either radio link or direct telephone line to a modem.~~
Clock or time counter	The data collector must be accurate to +/- 20 seconds / month, which is checked by the EM at the time of contact.
~~Software~~	~~A package to permit data extraction remotely.~~
Operating Temperature	-20 to +50 degree Celsius.
Lux Meter	Recording the illumination level at time of ~~sw~~switching.
Communication Protocol	Determined by the EM to permit interrogation for remote data collection.

Section 4.5.3 **Equivalent Meter Functionality**

Equivalent meters are of two types:-

a) Passive meters which allocate the Unmetered consumption across the half hourly periods by a mathematical relationship of annual burning hours to the daily time of sunrise and sunset; and

b) Dynamic meters which allocate the Unmetered consumption across the half hourly periods by reference to the operation of a number of actual ~~photoelectric cells~~PECUs, or by making use of actual switching times reported by a Central Management System. In either case the equivalent meter defaults to a passive mode using calculated times of switch operation in the event of the actual switching times not being available.

Section 4.5.4-4.8.2 no changes

CP1294 - Proposed redlined changes to SVA Data Catalogue Volume 2 v25.0

Changes for Volume 2 Appendix A (Data Item Index)

These changes are redlined against the live version of Volume 2 (v25.0), including the approved changes for CP1269 which will be implemented in the November 2009 Release.

Add the new data items Effective From Settlement Date and Effective To Settlement Date to the data item index in alphabetical order, and refer to the DTC for the location of their definitions:

Data Item Name	Defined In
Effective From Settlement Date {VMTCLSPC}	DTC
Effective To Settlement Date {VMTCLSPC}	DTC