
Meeting name	Supplier Volume Allocation Group
Date of meeting	31 March 2009
Paper title	Issue 3 - Meter Administrator Market Issues
Purpose of paper	For Information
Synopsis	Meter Administrators were included within the scope of the BSC Audit for the first time at the 31 March 2007 Audit. A Meter Administrator Expert Group (MAEG) was set up to discuss the issues raised by the Auditor and to put forward potential changes aimed at resolving the issues identified. This paper reports the Change Proposals that are to be raised to resolve the Market Issues.

1 Introduction

- 1.1 Meter Administrators were included within the scope of the BSC Audit for the first time at the 31 March 2007 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 Photo Electric Control Unit (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).
- 1.2 A Meter Administrator Expert Group (MAEG) was set up to discuss the issues raised by the Auditor and to put forward potential changes aimed at resolving the issues identified.

2 MAEG Deliberations

- 2.1 The MAEG set out the issues and actions that would be required to address the Market issues. It was agreed that a walkthrough of BSCP520 'Unmetered Supplies Registered in SMRS' via a page turn process was required to resolve the majority of the issues identified by the Auditor.
- 2.2 Additionally, a walkthrough was required to rationalise and simplify the BSCP following the merger of the Party Service Line for Unmetered Supplies (PSL190) into the BSCP. The walkthrough report of BSCP520 can be seen in Attachment 1.
- 2.3 Two members of the MAEG defined a definitive list of Default Switch Regimes for Photo Electric Control Units (PECUs). The Unmetered Supplies User Group (UMSUG) were informed of the intention to add these Default Switch Regimes to the Switch Regime Spreadsheet on the ELEXON website.

3 Change Proposals

- 3.1 The walkthrough of BSCP520 has identified a large number of changes that are required to resolve the Market Issues and highlights the need to rationalise and simplify BSCP520. The changes have been split into three Change Proposals (CPs) to facilitate their progression. The CPs are as follows:

- i CPA – Clarification of Meter Administrator requirements relating to Equivalent Meters;
- ii CPB – Clarification of Meter Administrator requirements relating to PECU arrays; and
- iii CPC – Clarification of Meter Administrator processes and procedures.

3.2 ELEXON will raise the 3 CPs with the agreed MAEG redlining allocated to the CPs as deemed appropriate.

4 Other Changes and Actions resulting from the MAEG

4.1 The MAEG noted that the BSC and BSCP520 section 1.5, bullet point 4 contained the following statement:

‘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.’

4.2 The Group believed that this requirement was not efficient since it created a barrier to the introduction of CMS capable EMs. They concluded that either a Party should raise a Modification to correct the issue or that the BSC Panel raise a Modification on grounds of efficiency.

4.3 The MAEG also noted that:

- CP1267 ‘Registration of UMSO’s and MA’s in SMRS’ has already been raised to address the validation rules when registering an Unmetered Supplies Operator (UMSO) or Meter Administrator in Supplier Meter Registration Agent (SMRA).
- The Data Catalogue P-Flow made incorrect reference to LAMP and FLARE rather than ‘approved EMs’ this has now been corrected.

5 Recommendation

5.1 The SVG is invited to **NOTE** the deliberations, findings and conclusions of the MAEG.

Kevin Spencer

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List of Attachments:

Attachment A - Walkthrough Report for **BSCP520**.



WALKTHROUGH REPORT for BSCP520 conducted by the Meter Administrator Expert Group

Meter Administrator Market Issues: Issue Group 3

Prepared by ELEXON

For Use	Date of Issue	17 February 2009	Version Number	1.0
For Attention Of	SVG, MAEG			
Overview or Purpose of Document:				
<p>Purpose of document</p> <p>The purpose of this document is to record the results of the walkthrough held for BSCP520 by the Meter Administrator Expert Group.</p> <p>It defines the position at the end of the walkthrough, details any deviation from Test Strategy confirms the Actions and agreed changes to the relevant documents and other Configurable Items.</p>				
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1 Introduction

The purpose of this document is to record the results of the walkthrough held for BSCP520 by the Meter Administrator Expert Group.

It defines the position at the end of the walkthrough, details any deviation from Test Strategy confirms the Actions and agreed changes to the relevant documents and other Configurable Items.

1.1 Summary

This document provides changes up to the point where a redlined version was required by the group for consideration. The changes identified in this report have been further refined following production of the initial red-lined version. Several Change Proposals will be raised to address the proposed changes to the BSCP.

1.2 Scope

The objectives, assumptions, constraints and dependencies upon which the walkthrough sessions are based are described in the Change Delivery Procedure – Preparing and Managing Walkthroughs as are the overall approach to running the walkthrough process, the defect management procedure and the participant responsibilities.

The scope and requirements of the walkthrough are specified in the relevant Walkthrough Specification.

This document summarises the actual results of the walkthrough session including all defects found and actions taken.

2 Summary of Results

There were 16 Actions and 99 defects identified by the MAEG in the BSCP. A further meeting to complete the walkthrough was held on 3 September 2008.

2.1 BSCP520 Walkthrough

2.1.1 Baseline at start of the Walkthrough

The following table identifies the versions of products that were used as the baseline for the walkthrough. (Products in bold are the documents under review, others were used for reference purposes only):

Product	Baseline Version
BSCP520 – Unmetered Supplies Registered in SMRS	13.1

2.1.2 Walkthrough Participants

Attendee	Organisation	Role
Kevin Spencer	ELEXON	Chair
Jon Spence	ELEXON	Market Analysis
Tom Chevalier	Power Data Associates	Meter Administrator
Nigel Birchley	Central-Networks	UMSO
Steve Lovell	npower	Meter Administrator
John Persad	npower	Supplier
Steve Davis	United Utilities	Meter Administrator
Chris Lawton	United Utilities	Meter Administrator

2.1.3 Actions Arising from Walkthrough

No.	Description of Action	Owner	Status
1	Section 1 of BSCP520 to be compared with the Statutory Instrument (SI) with a view to potentially replacing it with a cross reference to the SI. A copy to be provided to group members for consideration prior to meeting on 4 July.	Kevin Spencer	Closed: SI provided and changes to introduction agreed see Defect 1.
2	Paper to be taken to next UMSUG defining a list of default Switch Regimes for potential entry into the Operational Information Document (OID).	Kevin Spencer	Closed: UMSUG informed of intention to add column to OID spreadsheet subject to SVG Approval.
3	Agreed List of Default Switch Regimes to be provided for attachment to UMSUG paper.	Tom Chevalier/ Mike Hawkins	Closed: Update Tom and Mike to finalise list which will be circulated to the UMSUG following agreement of defaulting column in new Switching Time Spreadsheet UMSUG updated on the intention to include defaulting list in OID.
4	Subject to agreement by the SVG of inclusion of defaulting list in OID raise Change Proposal (CP) to Page 59 PECU Array Failure and to 4.5.2.2 (d) to make	Kevin Spencer	Closed as per 3 above.

No.	Description of Action	Owner	Status
	reference to the list in the OID.		
5	David Anderson of St Clements Services to be approached for Technical Specification of the LAMP Equivalent Meter (EM).	Steve Lovell	Closed
6	Tym Huckin to be approached for Technical Specification for Lailoken.	Tom Chevalier/ Nigel Birchley	Closed Update: Nigel to edit Toms 'starter for ten' text and re-circulate to group for comment. Update: Revised wording agreed subject to modest changes.
7	Subject to changes raised following this walkthrough raise a Housekeeping CP to address: <ol style="list-style-type: none"> 1. Acronyms – removal of superfluous acronyms no longer referred to in BSCP; 2. Terms that have defined Acronyms to by stating in full at first instance in BSCP then the Acronym to be used in rest of document; 3. Capitalisation of defined terms within the BSCP; and 4. Review relevance and references to P-Flows. 	Kevin Spencer	Closed TAI raised.
8	Change Delivery to be asked why Section 1.5 Balancing and Settlement Code Provision has been included in the document following CP1218.	Kevin Spencer	Closed. Update: This section was included following a document architecture consultation. This means removal of this section would make BSCP520 out of line with the structure of the other BSCPs.
9	LAMP and FLARE are still defined terms in the document. There are still references to these EMs in the BSCP. Consider impact referencing the list of approved EMs and removing the definitions. Add reference (4.5.2)to defined terms of Passive and Dynamic EMs.	Kevin Spencer	Closed references removed from BSCP in redlining and TAI raised. The ELEXON website contains a list of approved EMs,
10	Review changes to 3.1.16, 3.1.17, 3.2.7 and 3.2.8 subject to any changes mate to 3.14	MAEG	Closed

No.	Description of Action	Owner	Status
	Equivalent Meter Fault Reporting.		
11	Re-discuss 3.2.4 with regard to EFD and timescales for sending details. Need to ensure previous steps from 'Establishment of an Inventory'.	MAEG	Closed. See defect 33. Update: agreed timescales of +5 WD from UMSO to MA and +5 WD for MA to process.
12	On change of HHDC it is unclear how the HHDC knows that a supply is unmetered. It is suggested that they know from the Measurement Class on the D0289 sent by the Supplier. HHDC to be requested to confirm if this is correct	Kevin Spencer	Closed
13	There is an issue of how the MOA field is being populated in SMRA systems. James to investigate and report to the group.	James Everley	Closed. Update: 1.3.8 to be updated to the effect that the supplier shall nominate the MA as MOA. Circular or Newscast Article to industry for guidance. C1267 to address this Issue.
14	Incorrect reference in Data Catalogue P-Flow to LAMP and FLARE rather than approved EMs.	James Everley	Closed. Change Delivery have actioned issue raised by James.
15	3.8 'Disconnection of an MSID Following De-energisation' to be checked for consistency with metered equivalent.	Kevin Spencer	Closed
16	Change Delivery to be requested to remove the equivalent entry to 1.5 bullet 4 from the BSC in the next housekeeping Mod. If not viable entry will merely be removed from the BSC	James Everley	Closed

2.1.4 Defects Raised During Walkthrough

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
1	BSCP520 version 13.1	1.1	Purpose of the Procedure not aligned with SI and no reference to OFGEM disputes process.	Remove from end of first para: 'where:' Add: 'in accordance with Statutory Instrument (SI) 3263 and subject to the

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
				provisions of the PECU Array Siting Procedure in 4.5.1.1' Remove rest of 1.1
2	BSCP520 version 13.1	1.1.2	Existing Exit Point status should be reviewed subject to changes 1.1.	See above.
3	BSCP520 version 13.1	1.2.1 (e)	The UMSO is best placed to define the type of EM and should agree the location of Photo-Electric Cell Units (PECUs) with the MA.	Change the Wording to: e) informing the Supplier of the type of EM (i.e. whether passive or dynamic) to be used in the LDSO's area and agreeing with the MA the location of any associated photo-electric cell unit (PECU) arrays.
4	BSCP520 version 13.1	1.2.1 (f) and 4.5.2.1 (e)	There is no clear methodology by which a weighted average longitude and latitude can be calculated.	Remove the word 'weighted'. This change is already being progressed via DCP029: Remove the word 'weighted' from f) and also from e) of 4.5.2.1
5	BSCP520 version 13.1	1.2.1 (l)	Data retention requirement are now defined in generic Party Service Line (PSL) 100.	Delete or Amend entry to make reference to obligations in PSL100.
6	BSCP520 version 13.1	1.2.1	There should be a requirement on the UMSO to validate Charge Codes against the OID.	Suitably worded entry to be added to UMSO responsibilities.
7	BSCP520 version 13.1	1.2.4 (b)	The MA's do not forward a printout of the inventory data to the UMSO and Customer. They load the information into the EM and then take and extract which is sent on.	Change the words: 'forwarding' to 'sending' and 'printout' to 'extract'
8	BSCP520 version 13.1	1.2.4 (c)	Wording requires revision.	Tom Chevalier to provide some suitable

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
				wording.
9	BSCP520 version 13.1	1.2.4 (d)	Responsibility is implicit in MA role.	Remove (d)
10	BSCP520 version 13.1	1.2.4 (d)	Responsibility is implicit in MA role.	Remove (e)
11	BSCP520 version 13.1	1.2.4.1	Needs amending for clarity.	Remove from: 'and operate.....LDSO.'
12	BSCP520 version 13.1	1.2.4.1	Inconsistent use for UMSO and LDSO.	Change LDSO to UMSO in all instances
13	BSCP520 version 13.1	1.2.4.1 bullet points 6 and 8	The bullet points refer to subdivision and in bullet 8 has (also known as sub-meter). Sub-Meter is a defined term within the BSCP and should be used.	Amend bullets 6 and 8 to refer to 'Sub-Meters'
14	BSCP520 version 13.1	1.2.4.1 Final paragraph.	Wording needs revision. Amend wording to refer to data provided by UMSO to MA in 3.1.14 and add that the UMSO has a responsibility to provide additional data to the MA.	Add to end of paragraph: 'or other information provided by the UMSO where such information does not conflict with MDD.'
15	BSCP520 version 13.1	1.2.4.2	Wording needs revision for clarity.	Amend word: 'readings' to 'actions'
16	BSCP520 version 13.1	1.2.4.4	Wording needs revision for clarity.	Remove from first para from ' which meets the....BSCP' Remove last para.
17	BSCP520 version 13.1	1.2.6	New entry required to define an Approved EM. The entry will make reference to the Approval process in 3.13 and a technical specification for EMs to be added to 4.5.	Add entry 1.2.6 with suitable wording and remove references to approval from 4.5. Amend Definitions to refer to 1.2.6.
18	BSCP520 version 13.1	1.2.5	The entry makes reference to 'Time Switch Regimes (TSRs)' the preferred term is just 'Switch Regimes'. Additionally, charge code and charging code are used in the BSCP and should be	Amend entry and Acronym, and Definitions as appropriate. Consider Charging Code references.

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
			rationalised.	
19	BSCP520 version 13.1	1.3.1	Last para. is superfluous and covered in PSL.	Remove last para.
20	BSCP520 version 13.1	1.3.8	Needs revision for clarity.	Remove first para. Add to start of second para. Sentence 2: 'Where CMS is not required' and remove references to passive and dynamic EMs.
21	BSCP520 version 13.1	1.4	Needs revising as some flows can be received by the UMSO but not the MA.	Kevin Spencer to draft some alternate wording for consideration by the group.
22	BSCP520 version 13.1	17.2	The Station(a)ry Office is no longer 'Her Majesty's' and other almanacs could be used.	Remove reference to 'Her Majesty's' and change the 'a' to an 'e' and add that similar almanacs could be used.
23	BSCP520 version 13.1	4.5 Second para.	PECU Array Failure: Adjacent PECU may not be appropriate for use.	Add after 'adjacent PECU' ' ,if appropriate,'
24	BSCP520 version 13.1	Page 59 PECU Array Maintenance	Last para. in wrong place.	Move to page 65 (k) which is similar and reword as appropriate.
25	BSCP520 version 13.1	4.5	Whole section needs revision for clarity.	Section to be revised to have separate sections relevant to EM and PECUs. A section detailing EM calculations to be added to the description of EMs.
26	BSCP520 version 13.1	3.1.7	No timescales and procedure not reflective of correct practice.	In When Box: 'On Customer Request' In Action Box remove: 'Confirm with' and 'and agree' In Action box add: 'Request from the' before the word

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
				UMSO.
27	BSCP520 version 13.1	3.1.8	Need for reference to siting procedure.	From Action Box remove: 'and agree' Add: 'Subject to the provision of the PECU Array Siting Procedure in 4.5.1.1
28	BSCP520 version 13.1	3.1.13	No reference to CMS control file.	In Action Box: capitalise 'Summary Inventory' In information required add 'and/or CMS control file as appropriate'
29	BSCP520 version 13.1	1.7.2	Definition of Summary Inventory required to include a reference to possibility of CMS control file.	Add: Definition for 'Summary Inventory'
30	BSCP520 version 13.1	3.1.14 and 3.2.5	Needs clarification.	In Action Box: 'Reject listing the invalid codes to the UMSO and continue to re-apply previous inventory' Swap from and to boxes In Information Box: 'List of invalid Codes'
31	BSCP520 version 13.1	3.1.15	Refer to extract instead of copy.	In Action box change last para: 'Send extract of meter inventory to UMSO and Customer.'
32	BSCP520 version 13.1	3.1.16	Incorrect reference in Action box.	In Action Box change: '3.1.3' to '3.1.4' See Action 10.
33	BSCP520 version 13.1	3.1.18	No timescales. Need to make trial data optional.	In When box change to: 'Prior to SSD or Energisation Date whichever is later' In 'Action' Box

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
				change: 'collected' to 'processed' In Information required: remove brackets from trial data insert word 'or' before and add 'see 3.15.'
34	BSCP520 version 13.1	3.2.4	No timescales or reference to CMS control file.	Add to 'if HH': 'following 3.2.2 when UMSO has agreed amendment to Summary Inventory with customer. In Action Box capitalise 'summary inventory' In information required add: 'and/or CMS Control file as appropriate'
35	BSCP520 version 13.1	3.2.6	When box incorrect and unnecessary reference.	Remove When Box reference. In Action box change last para: 'Send extract of meter inventory to UMSO and Customer.'
36	BSCP520 version 13.1	3.1.17	When box unnecessary reference.	Remove When Box reference.
37	BSCP520 version 13.1	3.2.8	When box unnecessary reference. Revision of wording required.	Remove When Box reference. Action box change to: 'Use existing information and request revised detail from the UMSO.' In the 'To' add: 'UMSO' In the 'Method' Box: change to: 'Electronic or other

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
				agreed Method' See Action 10.
38	BSCP520 version 13.1	3.2.3	Unnecessary step box	'Remove 3.2.3 and revise numbering for rest of Section.
39	BSCP520 version 13.1	3.3.1.2	Steps in wrong order	Move step to below 3.1.14 and re-number subject to step 39
40	BSCP520 version 13.1	3.3.1.3	Step box irrelevant	Remove 3.3.13
41	BSCP520 version 13.1	3.3.1.4	Subject to renumbering above needs amendment	In Action Box remove: 'additionally' In Information Box remove reference to P0068. In 'To' box remove: 'new' against all Agents.
42	BSCP520 version 13.1	Following 3.3.1.4	New box copying steps in 3.1.8	Insert new box by copying 3.1.8.
43	BSCP520 version 13.1	3.3.1.5	Unnecessary reference	In 'From' Box remove: 'New MA'
44	BSCP520 version 13.1	3.3.1.6	When box reference needed. Alignment with 3.1.13	In 'When' Box: 'If New MA' Adjust to align with 3.1.13
45	BSCP520 version 13.1	3.3.1.7	Alignment with 3.1.14	Adjust to align with 3.1.14
46	BSCP520 version 13.1	3.3.1.8	Alignment with 3.1.18	Adjust to align with 3.1.18 (+ add 'see 3.1.5')
47	BSCP520 version 13.1	3.3.1.9	Step to be moved to more logical position.	Move box to follow existing step 3.3.14 with reference to other changes made.
48	BSCP520 version 13.1	3.3.10	When box reference required.	In 'When' Box add: 'If concurrent with Change of MA'
49	BSCP520 version 13.1	3.4.1	Reference to P0068 not required	In Action Box Remove: 'Send EM

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
				details to MA' Remove reference to sending the P0068 Flow to UMSO.
50	BSCP520 version 13.1	New 3.4.3	UMSO needs to send summary inventory information to new MA.	Insert new 3.4.3 to show UMSO sending Summary Inventory information to New MA and renumber as appropriate. Add footnote: 'In the event of inaccurate or incomplete information refer to 3.2.5 to 3.2.8.
51	BSCP520 version 13.1	3.4.3	Change required in order to initiate the request for information from new MA to Old MA.	In 'When' Box remove all. In 'Action' Box: change wording to 'Request sufficient information....' In 'From and 'To' Box swap parties
52	BSCP520 version 13.1	3.4.4	Adjusted to reflect process above.	In 'When' Box remove: 'On appointment' In 'From' and 'To' Boxes change to From: 'Old MA' To: 'New MA' Remove HHDC In 'Action' Box change 'Send metering' to 'Transfer' In Information box change to: 'As agreed'
53	BSCP520 version 13.1	3.4.5	Step is stating the obvious.	Remove 3.4.5
54	BSCP520 version 13.1	3.5.2	Remove step as refers to SMRA processes	Remove 3.5.2
55	BSCP520 version 13.1	3.5.3	Change to 3.5.4 will make this step unnecessary	Remove 3.5.3

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
56	BSCP520 version 13.1	3.5.4	When box update to refer to HH. There is no reference to appointment of HHDA	In 'When' Box: 'If HH' In 'To' Box add: 'HHDA' and Information box add flows D0148 and D0153.
57	BSCP520 version 13.1	3.5.5	Unnecessary reference to D0003 and question over HHDC knowing Supply is unmetered.	Remove for 'Information' Box reference to D0003. See Action 12.
58	BSCP520 version 13.1	3.5.7	Step not required in this document.	Remove 3.5.7
59	BSCP520 version 13.1	3.7.6	Unnecessary step merged with 3.7.7	Remove all and re-number
60	BSCP520 version 13.1	3.7.7	Merger with 3.7.6	In Action Box Add: 'or start Collection Activities see 3.9.1'
61	BSCP520 version 13.1	3.7.8 and 3.7.11	Reference to SMRA activity not required.	Remove all and re-number
62	BSCP520 version 13.1	3.7.9	Duplicate reference to same flow against each party.	Remove one reference.
63	BSCP520 version 13.1	3.8	Need for a footnote.	Against Header add superscript: ¹ Add Footnote: ¹ Where logical disconnection has taken place e.g. on CoMC then the disconnection process can be followed without the de-energisation process.
64	BSCP520 version 13.1	3.9.1.1	Revision for clarity.	In Action Box add: 'and validate' after 'Produce' remove the word 'energised' remove information box info.
65	BSCP520 version 13.1	3.9.1.2	Remove as merged with	Remove all and

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
			3.9.1.1	renumber
66	BSCP520 version 13.1	3.9.1.4	Not relevant for EM.	Remove all and renumber
67	BSCP520 version 13.1	3.9.1.5	Duplication	Remove all and renumber
68	BSCP520 version 13.1	3.9.1.6	See below	Remove reference to D0003.
69	BSCP520 version 13.1	New Step	New box from MA to HHDC required	Add new box and add in info box: EM Output File (re-send data)
70	BSCP520 version 13.1	3.9.1.7 – 3.9.1.9	Not necessary.	Remove all and renumber
71	BSCP520 version 13.1	3.10.1 to 3.10.5	MA should be able to request and receive MDD data.	Add MA in 'from' boxes 3.10.1, 3.10.3 and 3.10.5 Add MA to 'to' box: 3.10.2
72	BSCP520 version 13.1	3.10.4	Now unnecessary	Remove all and renumber
73	BSCP520 version 13.1	3.10.6	Re-word required.	In Action box change wording to: 'Ensure all MDD affecting the accuracy of Settlement is accurately entered and used in performing its functions' Add UMSO to from box.
74	BSCP520 version 13.1	3.10.7	Need to add MA as recipient.	Add MA in 'to' box.
75	BSCP520 version 13.1	3.10.8	Now unnecessary as per 3.10.6	Remove all
76	BSCP520 version 13.1	3.12.6	Amendment required.	Remove UMSUG from 'from' box
77	BSCP520 version 13.1	3.14	Clarification see also 3.4.2 of BSCP502.	Re-title as: Fault Reporting ¹ Investigating

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
				Inconsistencies. Add footnote: ¹ This section relates to faults associated with EM software fault or failure. Failures related to PECU arrays are covered in 4.5.1.2 Align boxes with 3.4.2 of BSCP502.
78	BSCP520 version 13.1	3.14.1	Following 77 above not necessary.	Remove all and renumber
79	BSCP520 version 13.1	3.15.2	Clarification required.	In Action Box remove: 'Confirm that the data matches; Add in 'to' box: 'New HHDC' In information box change to: 'Create and send Test Data'
80	BSCP520 version 13.1	3.15.3 and 3.15.4	Unnecessary	Remove both boxes and renumber.
81	BSCP520 version 13.1	3.15.6	Amendment required.	In Action box add: 'and repeat 3.1.5.2'
82	BSCP520 version 13.1	4.5.1	Re-structuring required.	Move first para to replace first para of 4.5.1.1. Amend wording to: 'The MA shall operate and maintain the PECU array...) Delete the remaining para. Of 4.5.1 and renumber
83	BSCP520 version 13.1	4.5.1.1	Additional criteria required.	Add: g) Access
84	BSCP520 version 13.1	4.5.1.2	Clarification.	Reword a) to 'are to be representative of the type and Manufacturer and age of....'

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
				Delete all of b) Add new: 'The number of PECUs shall be in proportion to the load per switched regime'
85	BSCP520 version 13.1	4.5.1.2 (cont.)	PECU Representation Para. To be moved.	Move to dynamic meter test specification.
86	BSCP520 version 13.1	4.5.1.2 (cont.)	PECU Array Maintenance and Upkeep amendments	Second para. Change to: 'The MA shall monitor the performance of the PECU arrays.' Third para change to state: 'to such an extent that the array is no longer representative then such cells shall be removed from the calculation and a retrospective calculation will be made using the remaining cells' Fourth para. Change wording to: 'At least annually or in the event of a significant change of inventory' Fifth para remove from 'where the' until 'Central Management System' Last para: see walkthrough item 24.
87	BSCP520 version 13.1	4.5.1.2	PECU Array Failure amendments	Delete first and second para. Add para: 'if PECU data is not available the data from an appropriate PECU array or default data shall be used. In the event of data recovery the MA shall

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
				rerun EM and submit the corrected meter readings to the HHDC. Third para. Move to EM spec. Remove note. Remove last para.
88	BSCP520 version 13.1	4.5.1.3	Amendment required.	Change heading to: 'Minimum Specification for PECU Arrays' Remove references to 'Communication Equipment' and 'Software'.
89	BSCP520 version 13.1	4.5.2.1	General: Group agreed that the terms Charge Code(s) and Switch Regime(s) should be the correct defined terms.	Amend BSCP520 for consistency.
90	BSCP520 version 13.1	4.5.2.1 c) and d)	'Interim charge codes' is not defined term and there are two types temporary and provisional.	Remove words: 'approved and interim'
91	BSCP520 version 13.1	4.5.2.1 e)	Ref. to weighted average incorrect.	Replace: 'weighted average' with 'agreed' Remove: 'of the Apparatus in the inventory'
92	BSCP520 version 13.1	4.5.2.1 f)	New reference to EM Calculation.	Replace: ', by approved method' with 'as defined in 4.5.1' Amend kvarh to kVArh and remove asterisk and footnote.
93	BSCP520 version 13.1	4.5.2.1 h)	Explicit reference to format and clarification	Replace: 'the clause below' with '4.5.3' Replace: collection by' with 'provision to'
94	BSCP520 version 13.1	4.5.2.2 d)	Clarification.	Replace: 'Switching Regimes' with 'Switch Regime(s)'

No.	Products Affected	Defective Items	Description of Defect	Agreed Action
95	BSCP520 version 13.1	4.5.2.2 j)	Removal of absolute obligation to be removed.	Replace 'shall' with 'may'
96	BSCP520 version 13.1	4.5.2.3 e)	Repetition of 4.5.2.1 h) the CMS requirements are those in addition to the passive meter requirements.	Remove e)
97	BSCP520 version 13.1	4.5.2.3 i)	HHDCs cannot have access to customer owned CMS systems	Remove i)
98	BSCP520 version 13.1	4.5.2.3 i)	See defect 24.	
99	BSCP520 version 13.1	3.2.2	Need for UMSO to agree EFD with Customer	Add in Info. Box: 'with agreed EFD'

3 Deviations From Test Strategy

The walkthrough was conducted through a page turn.

4 Deviations From Walkthrough Specifications

No specification was produced for this walkthrough by agreement of the MAEG.

5 Conclusions And Recommendations

To be completed subject to walkthrough on 4 July 2008.

6 Document Control

a Authorities

Version	Date	Author	Reviewer	Reason for review
V0.1	03.06.2008	Kevin Spencer	Jon Spence	First Draft
V0.2	12.06.2008	Kevin Spencer	MAEG	Updated with Review Comments
V0.3	14.07.2008	Kevin Spencer	MAEG	Following second MAEG Meeting.
V0.4	15.08.2008	Kevin Spencer	MAEG	Following Third MAEG Meeting.
V0.5	08.09.2008	Kevin Spencer	MAEG	Following fourth walkthrough.

Version	Date	Author	Reviewer	Reason for review
V1.0	17/02/2009	Kevin Spencer		Following finalised red-lining and TAI completion.

Version	Date	Author	Approver	Signature
V0.1				

Version	Date	Author	Authoriser	Signature
V1.0				

b Distribution

Recipient	Version	Date	Reason
MAEG	0.1	04.06.2008	For Review

c References

Reference	Document
1	BSCP520 – Unmetered Supplies Registered in SMRS
2	