
Meeting name	Imbalance Settlement Group (ISG)
Date of meeting	22 December 2009
Paper title	Change Proposal Progression
Purpose of paper	For Decision
Synopsis	This paper provides: <ul style="list-style-type: none">• CP1318 for decision;• details of a change to BSCP301 that the ISG is requested to agree to treat as Housekeeping; and• an update on the status of all Open Draft Change Proposals (DCPs) and Change Proposals (CPs).

1 Introduction

- 1.1 This paper presents CP1318 and CP1321 to the Imbalance Settlement Group (ISG) for its consideration and agreement on their progression.
- 1.2 CP1318 has been assessed by ELEXON and has undergone Impact Assessment (IA) by Parties and Party Agents (via [CPC00671](#)). In light of the assessment ELEXON has prepared a recommendation and a decision is sought as to whether this CP should be progressed.
- 1.3 CP1321 has been raised in order to correct a manifest error in BSCP301. This error was introduced by CP1313¹, which will be implemented as part of the February 2010 release.
- 1.4 In addition this paper provides details of all open Draft Change Proposals (DCPs) and Change Proposals (CPs) and their status within the Change Process. Details of which can be found in Appendix 2.

2 Summary of Change Proposals for Progression

2.1 CP1318 - Minor Changes to BSCP601

- 2.1.1 We raised CP1318 on 21 October 2009. We issued CP1318 for Impact Assessment (via CPC00671) in October 2009.
- 2.1.2 CP1318 would make minor changes to BSCP601² to:
- update old terminology and standards;
 - add necessary disclaimers for the protocol approval and compliance testing application form and certificate forms;
 - remove version numbers from the Code of Practice definitions;
 - correct minor typos and incorrect grammar;
 - clarify phrasing; and
 - add a copyright acknowledgement for the British Standards Institute (BSI) for the use of extracts from various British Standards in BSCP601.

¹ CP1313 - 'Remove ELEXON from the Minimum Eligible Amount (MEA) request **process**'

² BSCP601 - '**Metering Protocol Approval and Compliance Testing**'

- 2.1.3 We received 12 responses; of these 9 agreed, 1 disagreed and 2 were neutral. The respondent who disagreed with the proposed changes did so because they believed that the legal text for the disclaimers on the application form and certificate forms was too heavy-handed and that a simpler plain English version should be used instead. The respondent did not believe the wording **to be a 'show stopper' and is willing to change their response to 'agree'**.
- 2.1.4 Two other respondents whom agree with the proposed changes also commented on the legal text for the application form and certificates saying the wording was difficult to read and comprehend and excessively lengthy. ELEXON confirmed with all three respondents that, legally, the disclaimer must be very clear and explicit in relation to what it covers and how and to whom it applies and that consequently disclaimers can become quite long. ELEXON can therefore only make changes to the formatting to improve legibility. These changes have been incorporated into the proposed amendments to the redlining for CP1318 (see Attachment B).
- 2.1.5 A number of suggestions for changes to the redlining for CP1318 have been raised and we agree that the majority of these amendments should be made on the basis that they are minor, non-material and do add further clarity to BSCP601, which is what the CP was seeking to achieve. Our recommended revised redlining for CP1318 is included in Attachment B, and details of all of the suggested amendments are available in table 3.
- 2.1.6 We recommend, based on CP1318 adding more clarity generally to BSCP601, and with unanimous industry support for the proposed changes, that you:
- **AGREE** our suggested amendments to the redline text; and
 - **APPROVE** CP1318 for implementation in the June 2010 Release.

2.2 CP1321 'Housekeeping Change to correct a manifest error in BSCP 301 and NETA IDD Part 2'

- 2.2.1 We have raised CP1321 to correct a manifest error in BSCP301. This error was introduced by CP1313 which will be implemented as part of the February 2010 release.
- 2.2.2 The CP introduced an error into BSCP301, where in section 4.6.1.5 it is stated that the 'ECVAA-I027: Notification of BSC Party in Section H Default' is sent from ECVAA to BSCCo.
- 2.2.3 This is not correct as BSCCo sends ECVAA an I027 on an ad-hoc basis (as a standalone step), to inform ECVAA on any Parties that are in Section H Default³.
- 2.2.4 This step is not required to be included in the BSCP as it is currently carried out by ELEXON and is **part of ELEXON's standard working procedure. The inclusion of this step has the potential to cause confusion to market participants and should be removed as soon as possible.**
- 2.2.5 Section 4.6.2.5 also references I027, as a consequence of CP1313, this reference is no longer correct, and needs to be removed.
- 2.2.6 Additionally, during the implementation of CP1313 we noticed a referencing omission in the NETA IDD Part 2. The changes brought about CP1313 were correctly applied, but these changes were not referenced in section 3 of the IDD. We have therefore included these changes within CP1321.
- 2.2.7 We believe that the quickest and most efficient way to progress CP1321 is to treat it as a Housekeeping Change (which would mean that we do not need to issue the CP for impact

³ A Section H Default is where a Party is non compliant with the provisions of the Code.

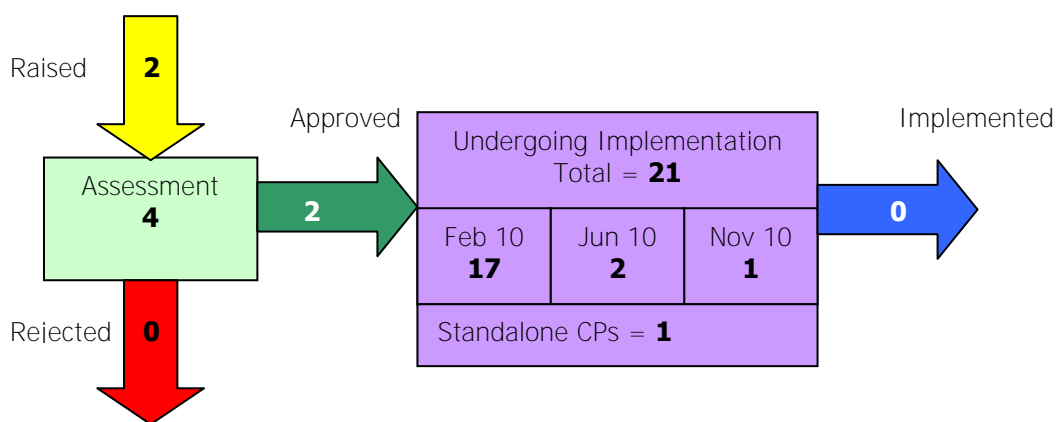
assessment). And to implement the change as part of the February 2010 BSC Systems release, which is the same release as CP1313. This approach is consistent with the requirements in BSCP40.

2.2.8 We are therefore recommending that you:

- **AGREE** that CP1321 is a Housekeeping Change; and
- **APPROVE** CP1321 to be implemented as part of the February 2010 BSC Systems Release.

3 Summary of Open Change Proposals

3.1.1 There are currently **25** open CPs, ISG own **3** CPs, the ISG and SVG co-own **5** CPs, and the SVG own the remaining **17** CPs. **2** new CPs have been raised since the last ISG meeting. Details of the new CPs are provided in Appendix 2 on page 17.



Please note:

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

Since the last ISG meeting no new DCPs have been raised, and there are currently no open DCPs.

4 Recommendations

4.1 We invite you to:

- APPROVE** CP1318, for inclusion in the June 2010 BSC Systems Release;
- AGREE** our suggested amendments to the redline text for CP1318;
- NOTE** that we will also present CP1318 to the SVG for decision;
- AGREE** that CP1321 is a Housekeeping Change;
- APPROVE** CP1321 to be implemented as part of the February 2010 BSC Systems Release; and
- NOTE** the status of all open Draft Change Proposals and Change Proposals.

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List of Appendices:

- Appendix 1 – Detailed Analysis of CP1318
- Appendix 2 – New Draft Change Proposals and Change Proposals
- Appendix 3 – Release Information

List of Attachments:

- Attachment A – CP1318 – BSCP601 redlined
- Attachment B – CP1318 – Proposed redlining with amendments
- Attachment C – CP1321
- Attachment D – CP1321 – BSCP301 redlining
- Attachment E – CP1321 – NETA IDD Part 2 redlining

Appendix 1 – Detailed Analysis of CP1318 - Minor Changes to BSCP601

5 Why Change?

5.1 Background

5.1.1 We raised CP1318 on 21 October 2009.

5.1.2 A number of errors exist in BSCP601 which are of a minor nature and making these changes will make the document clearer to the Compliance Testing Agent and Applicants who are looking to submit Metering Equipment for compliance testing.

5.2 The Problem

5.2.1 A number of minor errors exist in BSCP601. These include the use of old terminology and standards, references to version numbers of Codes of Practice which are no longer the latest versions and minor typographical/grammatical errors and unclear phrases. We also need to add a copyright acknowledgement for the BSI into BSCP601 for the use of extracts from British Standards.

5.2.2 In addition, we need to add disclaimers to the protocol approval and compliance testing application form and certificate forms since we cannot guarantee or be held responsible for any errors or omissions on our part when witnessing protocol approvals conducted by Half Hourly Data Collectors or reviewing test reports carried out by the Compliance Testing Agent on Metering Equipment.

6 Solution

6.1.1 CP1318 would make minor change to BSCP601 to:

- update old terminology and standards;
- add necessary disclaimers for the protocol approval and compliance testing application and certificate forms;
- remove version numbers from the Code of Practice definitions;
- correct minor typos and incorrect grammar;
- clarify phrasing; and
- add a copyright acknowledgement for the BSI for using extracts from British Standards in BSCP601.

6.2 Redlining v1.0

6.2.1 Version 1.0 of the redlining for CP1318 (as sent out for impact assessment) is available in Attachment A.

6.3 Redlining v2.0

6.3.1 Three respondents recommended some minor changes to the redlining provided for CP1318 and we agree with the majority of the amendments they suggested as they are minor and non-material in nature.

6.3.2 We recommend that the following suggested amendments are applied (the explanation of why we recommend these changes are made is available in table 3):

- **Section 1.6.2** - add a footnote to the 'Definitions' Table for each reference to the Codes of Practice (CoPs) mentioned which refers readers to the ELEXON website for the latest versions of the CoPs.

- **3.4.8 Heading** – in addition to deleting the text '{4.2}' in the heading we suggest replacing it with the text '{5.3}'. This is a more relevant reference (i.e. to Section 4.2 'Meters' of CoPs 1, 2, 3 and 5) for the tests under this heading as they are applied to the Meter alone.
- **Test 040** - remove the wording '(where appropriate)' and insert the word 'whether' at the beginning of the text for this test so that the Compliance Testing Agent confirms whether a Meter is capable of displaying a reverse running indication.
- **Section 3.4.14** – remove repeated text, 'can be displayed', in Tests 026 - 029, & 031 – 039 and 'establish' in Tests 054 and 056. ELEXON recommends that the change should be made to Tests 026 - 029, & 031 – 039, but not to remove the repeated word 'establish' from tests 054 and 056 (for legibility reasons). We recommend that additional text is added for Tests 026 and 054 to further aid legibility.
- **Section 3.4.15, Test 058** – add '(CoP1 and 2 only)' after 'MVA'.
- **Footnote for Test 065 and 066** - include the footnote text in the paragraph above the table (containing the two tests).
- **Section 3.4.19, Test 91** - add '; or' for consistency with Attachment A of CP1318.
- **Disclaimers in Section 1.1, the application form, the protocol certificate and the compliance certificate** – modify formatting to improve legibility.

6.3.3 We recommend that the following suggested amendments are not applied (more detail on why we recommend that these changes are not made is available in table 3):

- **Section 3.4.8 Heading** – Replace deleted '{4.2}' with a reference to CoP4. ELEXON does not recommend this change because CoP4 is to do with calibration not compliance testing. See bullet 2, above, for our suggested amendment to this heading.
- **Section 3.4.22, between Tests 101 and 102** - ELEXON confirmed with the respondent that there was no intention to combine this row with the main table above it **since the text above the main table doesn't fit with this row.**

6.3.4 Version 2.0 of the redlining is available in Attachment B, this includes the suggested amendments, which we recommend are applied as described in section 2.3.2 above.

7 Intended Benefits

7.1 A number of errors exist in BSCP601 which are of a minor nature. Making these changes will make the document clearer to the Compliance Testing Agent and Applicants who are looking to submit Metering Equipment for compliance testing.

8 Industry Views

8.1 We issued CP1318 for impact assessment in October 2009 (via CPC00671). We received 12 responses; of these 9 agreed, 1 disagreed and 2 were neutral.

8.2 The majority of the respondents agree with the proposed changes subject to some minor amendments to the redlining for CP1318, the majority of which we agree with. One respondent disagreed with the change on the basis that the disclaimers used for the application form and the protocol and compliance certificate forms are too heavy-handed for this kind of document. This respondent is now willing to support the CP even though the content of the disclaimers will not be changed.

9 Impacts and Costs

Market Participant	Cost/Impact	Implementation time needed
ELEXON (Implementation)	It will take approximately 1.75 man days, which is equivalent to £295 to apply these changes into the live version.	June 2010 Release suitable
Market Participants	No significant impacts identified.	June 2010 Release suitable

10 Implementation Approach

10.1 We recommend that CP1318 is implemented as part of the June 2010 Release, as this is the next available Release. All respondents indicated that they are able to meet this date.

11 Conclusion

11.1 The majority of respondents support the proposed changes because they will add clarity to BSCP601. Two of the respondents who agree with the proposed changes and the one who initially disagreed with the proposed change believe that the disclaimer on the application form and the protocol and compliance certificate forms are too difficult to understand and should be made clearer. ELEXON confirmed with all three respondents that, legally, the disclaimer must be very clear and explicit in relation to what it covers and how and to whom it applies and that consequently disclaimers can become quite long. ELEXON can therefore only make changes to the formatting of the disclaimer to improve legibility. The respondent who originally disagreed with the CP is now willing to support the CP even though the content of the disclaimers will not be changed.

11.2 We agree with the majority of the suggested changes to the redlining and have made the relevant amendments as we believe they are also minor and non-material in nature.

12 Recommendations

12.1 We recommend, based on CP1318 adding more clarity generally to BSCP601 and with unanimous industry support for the proposed changes, that you:

- **AGREE** our suggested amendments to the redline text; and
- **APPROVE** CP1318 for implementation in the June 2010 Release.

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ELEXON Change Assessment

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Table 1: Industry Impact Assessment Summary for CP1318 – Minor Changes to BSCP601

IA History CPC number	CPC00671	Impacts	BSCP601
Organisation	Capacity in which Organisation operates in	Agree?	Days to Implement
Independent Power Networks Limited	LDSO, SMRA, UMSO	Neutral	--
Gemserv	MRASCo Ltd	Yes	--
G4S Utility Services Ltd	NHHDC, NHHDA, NHHMOA	Neutral	n/a
British Energy Generation Ltd, British Energy Generation (UK) Ltd, Eggborough Power Ltd, British Energy Direct Ltd	Generator, Supplier, CVA MOA	Yes	0
Western Power Distribution	MOA	Yes	0
SSE - Southern Electric Power Distribution; Keadby Generation Ltd; SSE Energy Supply Ltd; SSE Generation Ltd; and Scottish Hydro-Electric Power Distribution Ltd; Medway Power Ltd; SSE Metering Ltd	Supplier/Generator/ Trader / Party Agent / Distributor	Yes	--
EDF Energy	Supplier, NHH Agent and HH MOP	Yes	--
E.ON UK	Supplier	Yes	--
SAIC on behalf of: ScottishPower Energy Management Ltd. ScottishPower Generation Ltd. ScottishPower Energy Retail Ltd. SP Manweb plc. SP Transmission Ltd. SP Distribution Ltd	Supplier, LDSO, HHDA, NHHDA, HHDC, NHHDC, HHMOA, NHHMOA	Yes	0
SSIL	HHDC	No	0
British Gas	Supplier	Yes	N/A
NPower Limited	Supplier / Supplier Agents	Yes	--

Table 2: Impact Assessment Responses⁴

Organisation	Agree?	Comments	Impact?	ELEXON Response
Gemserv	Yes	Comments: Ensures that lower level-level BSC requirements are clear and up-to-date.	No	-
British Energy Generation Ltd, British Energy Generation (UK) Ltd, Eggborough Power Ltd, British Energy Direct Ltd	Yes	Impact on Organisation's Systems and/or Processes? No Capacity in which Organisation is impacted: Supplier/Generator/MOA Impact on Organisation: Indirectly, as a buyer and user of BSCP601 approved protocols and equipment. Other comments: In reviewing the proposed changes, the main criteria has been to assess whether, as stated in CP1318, the updated document would be clearer to the Compliance Testing Agent & to Applicants looking to submit Metering Equipment for compliance testing.	No	Spoke to respondent to discuss redlining comments. See Table 3.
SAIC	Yes	Comments: Document changes only Other comments: The CP itself appears to have the same minor error as CP1317 regarding the use of 'copy write' instead of 'copyright'.	No	Spoke to respondent to discuss redlining comments. See Table 3. We note the error in the CP form however, as this doesn't impact the redlining, we will not seek to correct this.
SSIL	No	Comment: Disclaimer looks heavy-handed and not compatible with the style of this or similar documents. Capacity in which Organisation is impacted? HHDC Impact on Organisation? None Any other comments: Suggest using a 'Plain English' version.	No	Spoke to the respondent who confirmed that their only concern with the CP was that the disclaimer was too heavy-handed. We got back to the respondent later and confirmed that the wording of the disclaimer was necessary in order to protect ELEXON legally. We also noted that we will propose formatting changes to the disclaimers to make them easier to read. Despite the respondent's feelings about the content of the disclaimer they are willing to change their response to 'agree'.
British Gas	Yes	Capacity in which Organisation is impacted: Supplier Impact on Organisation: No Adverse Impact? No Costs: None	No	-

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

Table 3: Comments on the redline text

No.	Organisation	Document name	Location	Severity Code ⁵	Comments	ELEXON Recommendation
1	EDF Energy	BSCP 601	S1.6.2	L	In all definitions of CoPs we are amending BSCP to say "means the latest version of Code of Practice..". We should also add a footnote in all cases to detail where latest version of CoP is located for the avoidance of any doubt.	ELEXON recommends that the change should be made for the avoidance of any doubt. We recommend that a footnote is added, in each case, to the redlining which points to the ELEXON website for the latest versions of the Codes of Practice. The respondent is happy with this.
2	British Energy	BSCP601	1.1	H	The principle that Elexon is not prepared to accept liability for protocol and equipment approvals is understood. However the proposed new paragraph is legalistic, verbose, difficult to comprehend and quite contrary to the claimed intention of CP1318 to make BSCP601 clearer. The disclaimer should be reworded in a way which provides legal protection while also being easy to read and understand.	Spoke to the respondent and explained that legally, the disclaimer must be very clear and explicit in relation to what it covers and how and to whom it applies. Consequently disclaimers can become quite long. ELEXON can therefore only propose changes to the formatting of the disclaimer. Respondent is disappointed with this outcome as the addition of the disclaimers doesn't achieve the CP's intended aim of making the document clearer.
3	British Energy	BSCP601	1.1	M	Why does CP1318 Appendix B (redlined copy of BSCP601) include text from CP1275? Why does this text include reference to Footnote No. 13 (already used in BSCP601 V13.0)? Should the proposed CP1318 text reference a Footnote No.?	Clarified with the respondent that the redlining for CP1318 was based on a conformed version of BSCP601 (v12.2), hence the inclusion of CP1275 redlining which had already been approved at the time but had not yet been implemented. CP1275 has since been implemented as part of the November 2009 Release. Also confirmed that the footnote numbering is wrong in the CP for CP1275 but this has been correctly entered as footnote 1 in the live version (BSCP601 v13.0).
4	British Energy	BSCP601	3.1.1 Form 601/01	H	Comment as for Item 1 above.	See our response to redlining comment 2.

⁵ High, Medium or Low

5	British Energy	BSCP601	3.1.1 Form 601/02	H	Comment as for Item 1 above.	See our response to redlining comment 2.
6	British Energy	BSCP601	3.1.1 Form 601/03	H	Comment as for Item 1 above.	See our response to redlining comment 2.
7	British Energy	BSCP601	3.4.7 Test 007	L	Why does CP1318 Appendix B (redlined copy of BSCP601) include text from CP1296 and 1297?	Clarified with respondent that the redlining for CP1318 was based on a conformed version of BSCP601 (v12.2), hence the inclusion of CP1296/7 redlining which had already been approved at the time but had not yet been implemented.
8	British Energy	BSCP601	3.4.8 Heading	M	Should the deleted reference to '{4.2}' be replaced by a reference to CoP 4 Appendix C?	ELEXON does not recommend this change because CoP4 is to do with calibration, not compliance testing. However, to aid clarity it is suggested that a more appropriate section of CoP1, 2, 3 and 5 that this heading could point to for the generic requirements could be Section 5.3 'Meters' where the appropriate standard for the Meter is defined. We therefore recommend deleting the reference to 4.2, and replacing it with a reference to 5.3. The respondent is happy with this approach.
9	British Energy	BSCP601	3.4.12 Test 040	M	Although the defect description refers to reverse running indication "only if fitted" , this is not apparent from the wording which remains after 'Required by' is deleted. Please clarify.	ELEXON agrees that the wording '(where appropriate)' is not clear and suggests deleting this, and inserting the word 'whether' at the beginning of the text for this test; so that the Compliance Testing Agent confirms whether a Meter is capable of displaying a reverse running indication. The respondent is happy with this change.

10	British Energy	BSCP601	3.4.14	M	The logic of removing 'establish that' from Test 049 is understood and agreed. The same should apply to Tests 054 & 056. It is also suggested a similar approach be applied to 3.4.12 by deleting 'can be displayed' from Tests 026 - 029, & 031 - 039	ELEXON does not recommend removing the words 'establish that' from tests 054 & 056 for legibility reasons but does recommend removing 'can be displayed' from tests 026 - 029, & 031 – 039. However, additional wording has been added for Tests 026 and 054 to aid their legibility.
11	British Energy	BSCP601	3.4.15 Test 058	M	Should the maximum demand register 'or MVA' also be followed by '- Cop 1 and 2 only'?	ELEXON agrees and recommends that the change should be made for consistency.
12	British Energy	BSCP601	3.4.15 Tests 064/65	M	As viewed on the PDF review copy, Footnote 14 is not worded as stated under CP1318 Attachment A "Solution". Also, it may be clearer if proposed words 'the following two tests' are replaced by explicit reference to 'Tests 064 and 065'.	ELEXON confirmed that the wording for the footnote captures the essence of the requirement. Note the tests should be 065 and 066 and not 064 and 065 as suggested in Attachment A to CP1318. ELEXON recommends that the footnote text is included in the paragraph above the table (containing the two tests) to eliminate any ambiguity about which tests the text applies to. Also, by not specifying test numbers in the text any future changes in test numbers will not have repercussions on the applicability of the text to intended rows because it is now in the appropriate place. The respondent is happy with the suggestion.
13	British Energy	BSCP601	3.4.21 Test 091	M	The proposed addition of "; or" to the end of the test text cannot be seen in CP1318 App B (redlined copy of BSCP601). Please clarify.	ELEXON recommends that the change should be made (adding ';or') for consistency with Attachment A of CP1318, which was ELEXON's intention.
14	British Energy	BSCP601	3.4.22 between Tests 101 and 102	M	Will the new test 103 will be added as Item (j) of 3.4.22 in an extended table? If so this is not clear from CP1318 App B (redlined copy of BSCP601). Please confirm.	ELEXON confirmed with the respondent that there was no intention to combine this row with the main table above it since the text above the main table doesn't fit with this row. The respondent is happy that it isn't added to the main table.

15	SAIC	BSCP601	1.1	L	<p>First sentence of disclaimer paragraph is excessively lengthy and thus extremely difficult to understand – suggest insertion of colon and semi-colons to break up sentence as follows:</p> <p><i>The Panel (and its Committees) and ELEXON and its employees, agents and contractors do not and shall not be deemed to make or give any representation, warranty or guarantee, nor shall each or any of them have any liability or responsibility whatsoever or howsoever arising (whether directly or indirectly), in relation to: each or any Metering Equipment, including in relation to any safety matters, in respect of any item of Metering Equipment which is not tested whether or not such item is of the same type, model or version as an item which is tested; the processing of any application for certification or for Compliance Approval, Protocol Approval or any other approval ("approval") in relation to Metering Equipment; the grant, failure or refusal to grant any such certification or approval, any testing, method of testing or analysis of the results of testing of Metering Equipment or any act, error, failure or omission in relation to such testing, method of testing or analysis.</i></p>	<p>Spoke to the respondent and explained that legally, the disclaimer must be very clear and explicit in relation to what it covers and how and to whom it applies. Consequently disclaimers can become quite long. ELEXON can therefore only propose changes to the formatting of the disclaimer. The respondent is happy that the proposed suggestions for the disclaimer will be easier to read.</p>
16	SAIC	BSCP601	3.1.1 Form F601/01	L	Same observation as above regarding the disclaimer footnote.	See our response to redlining comment 15.
17	SAIC	BSCP601	3.1.2 Form F601/02	L	Same observation as above regarding the disclaimer footnote.	See our response to redlining comment 15.

18	SAIC	BSCP601	3.1.3 Form F601/03	L	Same observation as above regarding the disclaimer footnote.	See our response to redlining comment 15.
19	SAIC	BSCP601	3.4.21 Test 091	M	(Now Test 092) Unable to see where `;or' has been added.	ELEXON recommends that the change (adding `;or') should be made for consistency with Attachment A, which was ELEXON's intention.

Appendix 2 – New Change Proposals

CP	CVA/ SVA	Title	Description	Raised
1320	SVA	Replacement of erroneous Change of Supplier Readings	ELEXON held two working groups to consider clarification of the use of Gross Volume Correction (GVC) and guidance ⁶ on the retrospective correction of errors. The group recommended that clarifications should be made, both in terms of when the Change of Supplier (CoS) reading could be replaced and the method used to agree and carry out the replacement. CP1320 proposes to add clarity to BSCP504 ⁷ to the effect that a CoS reading can be disputed no later than 12 months after the Supply Start Date (SSD).	27/11/2009
1321	CVA	Housekeeping Change to correct a manifest error in BSCP 301	We have raised CP1321 to correct a manifest error in BSCP301. This error was introduced by CP1313 which is being implemented as part of the February 2010 release.	09/12/2009

⁶ Please refer to the following link for Guidance on GVCs ([GVC Guidance](#)).

⁷ BSCP504 – 'Non-Half Hourly Data Collection For SVA Metering Systems registered in SMRS'

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

		February 2010 Scope (Imp. Date 25 Feb 10)	June 2010 Scope (Imp. Date 24 Jun 10)	Nov 2010 Scope (Imp. Date 5 Nov 10)	Stand Alone Releases
Change Proposals	Pending	1321	1315, 1317, 1318, 1320		
	Approved	1295, 1296, 1297, 1298, 1299, 1301, 1302, 1303, 1304, 1306, 1307, 1308, 1310, 1311, 1312, 1313, 1314	1309, 1316	1267	1319
Modifications	Pending	Currently there are no Modifications targeted at this Release.	Currently there are no Modifications targeted at this Release.	Currently there are no Modifications targeted at this Release.	
	Approved				
Updates		The scope of the February 2010 Release comprises 17 CPs to be implemented on 25 February 2010. The design work for the EAC/AA software development for CP1311 is almost complete. Following a review of the EAC/AA URS by the Software Technical Advisory Group (STAG) an issue was identified which required a change to the solution. Logica have agreed to implement the change to the solution at zero cost following negotiation by the Release Team. We will need to make some adjustments to the project plan as a result of this change but we are still on target to implement the Release on 25 February 2010.			The ISG and SVG Committees approved CP1319 as a Housekeeping Change with a 5 Working Days implementation date. We implemented CP1319 on 5 December 2009.

Draft CP Scope of the February 2010 Release

CP	Title	Impacts	BSC Agent (Demand Led)	ELEXON Operational		Total
				Man Days	Cost	
CP1295	Process for distribution of MDD Updates not included in D0269/D0270 flows	BSCP505, BSCP508, SVA Data Catalogue Vol. 1 and Vol. 2	£6,000	20	£4,400	£10,400
CP1296	Mandatory Capability to Record Reactive Power Demand (kvar) Values in Code of Practice 5 (CoP5) Meters	BSCP601, CoP5	£0	2	£440	£440
CP1297	Mandatory Capability to Record Reactive Power Demand (kvar) Values in Code of Practice 10 (CoP10) Meters	BSCP601, CoP10	£0	2	£440	£440
CP1298	Requirement on MOAs to Configure Meters to Record Half Hourly Reactive Power Data (for Half Hourly Settled CT-Metered Customers)	BSCP514	£0	2	£440	£440
CP1299	Requirement on Half Hourly Data Collectors to Collect and Report Reactive Power Data (where the Meter is configured to record it)	BSCP502	£0	2	£440	£440
CP1301	Registration Requirements for System Connection Points between Onshore Distribution Systems and Offshore Transmission Systems	BSCP25, BSCP75, CRA URS	£700	4	£880	£1,580
CP1302	Requirement on Half Hourly Data Collectors to Validate Reactive Power Demand Values	BSCP502	£0	2	£440	£440
CP1303	Requirement on Half Hourly Data Collectors to Estimate Missing Reactive Power Demand Values	BSCP502	£0	2	£440	£440
CP1304	Exclusion of certain Site Visit Check Codes (SVCC) within the Long Term Vacant (LTV) site process	BSCP504	£0	1	£220	£220
CP1306	Removal of second criterion for identifying a site as Long Term Vacant (LTV)	BSCP504	£0	1	£220	£220
CP1307	Minor Changes to the Long Term Vacant Site Process	BSCP504	£0	1	£220	£220
CP1308	Changes to Long Term Vacant Site process where a reading is obtained via a warrant	BSCP504	£0	1	£220	£220
CP1310	Clarifications to Gross Volume Correction Process	BSCP504	£0	2.5	£550	£550
CP1311	Replacing Erroneous Forward Looking EACs	BSCP504	£18,700	55	£12,100	£30,800

CP	Title	Impacts	BSC Agent (Demand Led)	ELEXON Operational		Total
				Man Days	Cost	
CP1312	Use of Gross Volume Correction in Post Final Settlement Runs	BSCP504	£0	2.5	£600	£600
CP1313	Remove ELEXON from the Minimum Eligible Amount (MEA) request process	BSCP301, NETA Interface Definition and Design (IDD) Part 1, NETA Agent Interface Definition and Design (IDD) Part 2.	£3,200	8	£1,800	£5,000
CP1314	Housekeeping change to SAA Service Description	SAA Service Description	£0	0	£0	£0
Total⁸			£28,600	108	£23,630	£52,450

Draft CP Scope of the June 2010 Release

CP	Title	Impacts	BSC Agent (Demand Led)	ELEXON Operational		Total
				Man Days	Cost	
CP1309	Include reference to D0303 in BSCP514 and circumstances in which its use is mandatory.	BSCP514, SVA Data Catalogue Volume 1	£0	3	£660	£660
CP1316	Removal from BSCP536 of obligation to attach a copy of Form 536/01 to BSCCo Bill	BSCP536	£0	1	£220	£220
Total⁹			£0	4	£880	£880

⁸ A Tolerance of 20% applies for both Demand Led costs and ELEXON Operational Costs

⁹ A Tolerance of 20% applies for both Demand Led costs and ELEXON Operational Costs

CP1318 Attachment - Proposed redlining drafted against BSCP601 v12.2 (conformed)**1 Introduction****1.1 Scope and Purpose of the Procedure**

This BSC Procedure defines the processes for Meter Manufacturers, Meter Operator Agents, Suppliers, Half Hourly Data Collectors and other Half Hourly Metering Equipment users to apply for Compliance Testing and Protocol Approval. This procedure covers the application process, submission of Metering Equipment, communications with the Compliance and Protocol Testing Agents, the issue and removal of certificates. For the avoidance of doubt, this procedure applies only to Half Hourly Metering Equipment.

Protocol Approval

This process is defined to:

- a) Approve a Protocol for Settlement purposes; and
- b) ensure that a qualified Half Hour Data Collector is capable of appropriate communications with Metering Equipment.

Metering Equipment Compliance

This process is defined to ensure that Metering Equipment is designed and manufactured to the requirements of the relevant Code/s of Practice. Each Compliance Approval is specific to that Metering Equipment tested including type reference and any firmware and software versions. Metering Equipment firmware and software updates not affecting Compliance need not be re-approved. Notification of any such change is to be provided to BSCCo.

[CP1275v2.0]When applying for Compliance Approval in respect of Metering Equipment, the Meter Manufacturer should acknowledge, on its application form included at section 3.1.3, its intention to provide relevant Settlement outstation Protocols to BSC Parties (via their Party Agents) upon request. The Meter Manufacturer should also acknowledge, on its application form included at section 3.1.3 its intention to make available to Meter Operator Agents, upon request, the Meter Manufacturer's software that will enable the Meter Operator Agent to re-configure the relevant Meters and/or Outstations (the "Configuration Software"). The Meter Manufacturer may require the disclosure of Settlement Outstation Protocols and Configuration Software to be subject to a confidentiality agreement¹³.

The Panel (and its Committees) and ELEXON and its employees, agents and contractors do not and shall not be deemed to make or give any representation, warranty or guarantee, nor shall each or any of them have any liability or

¹³ [CP1275v2.0]Confidentiality agreements shall not prohibit Party Agents from fulfilling their BSC obligations.

responsibility whatsoever or howsoever arising (whether directly or indirectly), in relation to each or any Metering Equipment, including in relation to any safety matters, in respect of any item of Metering Equipment which is not tested whether or not such item is of the same type, model or version as an item which is tested, the processing of any application for certification or for Compliance Approval, Protocol Approval or any other approval (“approval”) in relation to Metering Equipment, the grant, failure or refusal to grant any such certification or approval, any testing, method of testing or analysis of the results of testing of Metering Equipment or any act, error, failure or omission in relation to such testing, method of testing or analysis. All Parties and applicants for certification and approval acknowledge and accept the foregoing and that the processes, requirements and tests relating to Metering Equipment referred to in Code Subsidiary Documents relate to matters concerning settlement and not matters relating to health and safety, which matters are the sole responsibility of the Parties and/or the applicant. All Parties and applicants for certification and/or approval agree that they accept the foregoing and accept that all applications for certification and/or approval are processed by ELEXON subject to and on the basis of the foregoing.

Paragraphs 1.2 through to 1.5 are not affected by CP1318.

1.6 Acronyms and Definitions

1.6.1 Acronyms

Full definitions of the acronyms are, where appropriate, included in the Balancing and Settlement Code.

The terms used in this ~~BSCAgreed~~ Procedure are defined as follows.

BSCCo	Balancing and Settlement Code Company
CDCA	Central Data Collection Agent
CoP	Code of Practice
CT	Current Transformer
CTA	Compliance Testing Agent
HHDC	Half Hourly Data Collector (QualifiedAccredited)
MD	Maximum Demand
ME	Metering Equipment
MOA	Meter Operator Agent
SMRS	Supplier Meter Registration Service
WD	Working Day

1.6.2 Definitions

Applicant	Person applying for Compliance and/or Protocol approval
BSCCo	The Balancing and Settlement Code Company

Compliance Testing	means the testing of Metering Equipment in accordance with this BSCP601 to determine whether it conforms with the relevant Code of Practice to obtain approval from the Panel.
Compliance Testing Agent	The agent responsible for the testing of Metering Equipment, accredited against an appropriate (as determined by BSCCo) body such as the UK Accreditation Service (UKAS).
Code of Practice One	means <u>the latest version of Code of Practice One: Issue 2, version 3.0; dated 23 February 2006</u> - CODE OF PRACTICE FOR THE METERING OF CIRCUITS WITH A RATED CAPACITY EXCEEDING 100MVA FOR SETTLEMENT.
Code of Practice Two	means <u>the latest version of Code of Practice Two: Issue 4, version 3.0; dated 23 February 2006</u> - CODE OF PRACTICE FOR THE METERING OF CIRCUITS WITH A RATED CAPACITY NOT EXCEEDING 100MVA FOR SETTLEMENT PURPOSES.
Code of Practice Three	means <u>the latest version of Code of Practice Three: Issue 5, version 5.0; dated 3 November 2005</u> - CODE OF PRACTICE FOR THE METERING OF CIRCUITS WITH A RATED CAPACITY NOT EXCEEDING 10MVA FOR SETTLEMENT PURPOSES.
Code of Practice Five	means <u>the latest version of Code of Practice Five: Issue 7, version 5.0; dated 28 February 2008</u> - CODE OF PRACTICE FOR THE METERING OF ENERGY TRANSFERS WITH A MAXIMUM DEMAND OF UP TO (AND INCLUDING) 1MW FOR SETTLEMENT PURPOSES.
Code of Practice Six	means <u>the latest version of Code of Practice Six: Issue 4, version 4.20; dated Code Effective Date</u> - <u>CODE OF PRACTICE FOR THE METERING OF ENERGY IMPORTS VIA LOW VOLTAGE CIRCUITS FUSED AT 100 AMPS OR LESS PER PHASE FOR SETTLEMENT PURPOSES.</u>
Code of Practice Ten	means <u>the latest version of Code of Practice Ten: Issue 2, version 2.0; dated 25 June 2009</u> - CODE OF PRACTICE FOR METERING OF ENERGY VIA LOW VOLTAGE CIRCUITS FOR SETTLEMENT PURPOSES.
Instation	means a computer based system which sends data to, or receives data from Outstation Systems on a routine basis.

Interrogation Unit	means a Hand Held Unit “HHU” (also known as Local Interrogation Unit “LIU”) or portable computer which can program Metering Equipment parameters and extract information from the Metering Equipment and store this for later retrieval.
Metering Equipment	has, for the purposes of this BSCP601, the meaning ascribed to that term in the Balancing and Settlement Code, but excluding voltage and current measurement transformers
person	includes any individual, company, corporation, firm, partnership, joint venture, association, committee, organisation or trust (in each case, whether or not having separate legal personality).
Settlement	has the meaning ascribed to that term in the Balancing and Settlement Code.
Test Laboratory	means the testing body so agreed with BSCCo to perform Compliance Testing to this BSCP601.
Type Approval	means the approval from the Electricity Meter Examination Service of the Office of Gas and Electricity Markets.
UTC	means Co-ordinated Universal Time based on atomic clocks as distinct from Greenwich Mean Time (GMT).

Paragraphs 2 through to 2.4.5 are not affected by CP1318.

3 Appendices

3.1 Forms

3.1.1 Form F601/01 – Certificate of Compliance

F601/01

Certificate of Compliance

Code of Practice [Five]

CODE OF PRACTICE FOR THE METERING OF ENERGY TRANSFERS [WITH A MAXIMUM DEMAND OF UP TO (AND INCLUDING) 1MW FOR SETTLEMENT PURPOSES]

Application Reference No:

Issued To:

Meter Description:	Type:	Firmware Version:
Test Reference No.	Date of Test:	Software Version:
Test Laboratory:		
Test Environment:		
[ABC Manufacturer's] Metering Equipment has undergone Compliance Testing in accordance with Code of Practice [Five], Issue * (v *.* **) dated n th Month Year, and Type Testing Version [5.0] dated n th Month Year (and subsequent revisions) and BS EN 61036.		
The Metering Equipment was tested in conjunction with the Manufacturer's "XXXX Software, version V*.***".		
Certificate of Compliance:		
The review of the Compliance Testing results on n th Month Year confirmed that the Metering Equipment was found to comply with the requirements of Code of Practice [Five] in all respects.		
Signed: Date:		
On Behalf of the Panel, ELEXON Limited (as the Balancing and Settlement Code Company ('BSCCo'))		
<u>The Panel (and its Committees) and ELEXON and its employees, agents and contractors do not and shall not be deemed to make or give any representation, warranty or guarantee, nor shall each or any of them have any liability or responsibility whatsoever or howsoever arising (whether directly or indirectly), in relation to each or any Metering Equipment, including in relation to any safety matters, in respect of any item of Metering Equipment which is not tested whether or not such item is of the same type, model or version as an item which is tested, the processing of any application for certification or for Compliance Approval, Protocol Approval or any other approval ("approval") in relation to Metering Equipment, the grant, failure or refusal to grant any such certification or approval, any testing, method of testing or analysis of the results of testing of Metering Equipment or any act, error, failure or omission in relation to such testing, method of testing or analysis. All Parties and applicants for certification and approval acknowledge and accept the foregoing and that the processes, requirements and tests relating to Metering Equipment referred to in Code Subsidiary Documents relate to matters concerning settlement and not matters relating to health and safety, which matters are the sole responsibility of the Parties and/or the applicant. All Parties and applicants for certification and/or approval agree that they accept the foregoing and accept that all applications for certification and/or approval are processed by ELEXON subject to and on the basis of the foregoing.</u>		

3.1.2 Form F601/02 – Certificate of Protocol Approval

F601/02		
Certificate of Protocol Approval		
METERING EQUIPMENT PROTOCOL MEETING THE REQUIREMENTS OF BSCP601 FOR SETTLEMENT PURPOSES		
Application Reference No:		
Issued To:		
Meter Description:	Type:	Firmware Version:
Test Reference No.	Date of Test:	Software Version:
Test Laboratory:		

Test Environment:

[ABC Manufacturer’s] Metering Equipment listed above, has undergone Protocol Testing in accordance with BSC Procedure BSCP601, Issue * (v *.*), dated nth Month Year.

The Metering Equipment was tested in conjunction with the Manufacturer’s “XXXX Software, version V*.*” and the following ~~Qualified~~~~Accereditd~~ Half Hourly Data Collector.

<u>Half Hourly</u> Data Collector	System or Process ⁴	Instation Version	Outstation Version

Certificate of Protocol Approval:

The review of the Protocol Testing results on nth Month Year confirmed that the Metering Equipment was found to be suitable for Settlement use in conjunction with the ~~Qualified~~~~Accereditd~~ Half Hourly Data Collector listed above.

Signed: Date:

On Behalf of the Panel, ELEXON Limited (as the Balancing and Settlement Code Company (‘BSCCo’))

The Panel (and its Committees) and ELEXON and its employees, agents and contractors do not and shall not be deemed to make or give any representation, warranty or guarantee, nor shall each or any of them have any liability or responsibility whatsoever or howsoever arising (whether directly or indirectly), in relation to each or any Metering Equipment, including in relation to any safety matters, in respect of any item of Metering Equipment which is not tested whether or not such item is of the same type, model or version as an item which is tested, the processing of any application for certification or for Compliance Approval, Protocol Approval or any other approval (“approval”) in relation to Metering Equipment, the grant, failure or refusal to grant any such certification or approval, any testing, method of testing or analysis of the results of testing of Metering Equipment or any act, error, failure or omission in relation to such testing, method of testing or analysis. All Parties and applicants for certification and approval acknowledge and accept the foregoing and that the processes, requirements and tests relating to Metering Equipment referred to in Code Subsidiary Documents relate to matters concerning settlement and not matters relating to health and safety, which matters are the sole responsibility of the Parties and/or the applicant. All Parties and applicants for certification and/or approval agree that they accept the foregoing and accept that all applications for certification and/or approval are processed by ELEXON subject to and on the basis of the foregoing.

Form F601/03 – Protocol Approval and Compliance Testing

Part 1 of 3

F601/03

PROTOCOL APPROVAL AND COMPLIANCE TESTING APPLICATION FORM (PART 1)

Ref. No⁵.....

I wish to apply for Protocol Approval of the Products identified in Section B below: tick as appropriate

I wish to apply for Compliance Testing of the Products identified in Section C below: tick as appropriate

Section A: DETAILS OF APPLICANT

Company Name:

Address:

Participant Role:(e.g. Meter Manufacturer)

Contact Name:

Contact Tel. No:

Fax. No:

E-mail:

Signature:

Date of Application:

The Panel (and its Committees) and ELEXON and its employees, agents and contractors do not and shall not be deemed to make or give any representation, warranty or guarantee, nor shall each or any of them have any liability or responsibility whatsoever or howsoever arising (whether directly or indirectly), in relation to each or any Metering Equipment, including in relation to any safety matters, in respect of any item of Metering Equipment which is not tested whether or not such item is of the same type, model or version as an item which is tested, the processing of any application for certification or for Compliance Approval, Protocol Approval or any other approval ("approval") in relation to Metering Equipment, the grant, failure or refusal to grant any such certification or approval, any testing, method of testing or analysis of test results of Metering Equipment or any act, error, failure or omission in relation to such testing, method of testing or analysis. The Applicant acknowledges and accepts the foregoing and that the processes, requirements and tests relating to Metering Equipment referred to in Code Subsidiary Documents relate to matters concerning settlement and not matters relating to health and safety, which matters are the sole responsibility of the Applicant. The Applicant by making an application for certification and/or approval agrees to accept the foregoing and to accept that all applications for certification and/or approval are processed by ELEXON subject to and on the basis of the foregoing.

Parts 2 and 3 of this Form (F601/03) are not affected by CP1318.

Paragraphs 3.2 through to 3.3.3.2 are not affected by CP1318.

3.4 Compliance Testing of Metering Equipment for Codes of Practice One, Two, Three, Five and Ten

Paragraphs 3.4.1 through to 3.4.6 are not affected by CP1318.

3.4.7 Demand Values {4.1.2}

The following tests shall be performed to confirm that Demand V values are provided:

(a)	confirm that a kW value is provided for each Demand Period for each Active Energy Measured Quantity; <u>[CP1297]and</u>	007
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	<u>[CP1297]kvarh value is provided for each Demand Period for each Reactive Energy Measured Quantity (CoP1, 2 ,3, [CP1296]5 and 10)</u>	
(b)	where Import and Export values are provided confirm that each value is gross and recorded separately. (Applies to CoP <u>3, 5, 3</u> and 10 only); and	008
(c)	confirm that Demand <u>V</u> values are available in both kilo and Mega values. (CoPs 1 and 2 only)	009

3.4.8 Accuracy Requirements ~~{4.2}~~

(a) Active Energy

Meters subject to CoP10 compliance testing shall meet all of the accuracy requirements for Active Energy if the Meter is approved under SI 1998 No 1566 or SI 2006 No 1679.

Tests shall be carried out at fundamental frequency (50Hz) to verify that the Active Energy measurements are within the limits shown in Table 1 below. The measurement uncertainty at fundamental frequency of the measurement system used shall not be greater than: $\pm 0.01\%$ (CoP1); $\pm 0.05\%$ (CoP2); $\pm 0.1\%$ (CoP3); or $\pm 0.2\%$ (CoP5).	010
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Table 1 Active Energy

Value of Current (I)		Power factor (Cos ϕ)	Percentage error limits ⁸ for Meters of Class				
For whole current Meters	For transformer operated Meters ⁹		0.2S (CoP1)	0.5S (CoP2)	0.5 (CoP2)	1 (CoP3)	2 (CoP5)
-	$0.01 I_n \leq I < 0.05 I_n$	1	± 0.4	± 1.0	-	-	-
-	$0.05 I_n \leq I \leq I_{max}$	1	± 0.2	± 0.5	-	-	-
-	$0.02 I_n \leq I < 0.1 I_n$	0.5 ind 0.8 cap	± 0.5 ± 0.5	± 1.0 ± 1.0	-	-	-
-	$0.1 I_n \leq I \leq I_{max}$	0.5 ind 0.8 cap	± 0.3 ± 0.3	± 0.6 ± 0.6	-	-	-
$0.05 I_b \leq I < 0.1$	$0.02 I_n \leq I < 0.05$	1	-	-	± 1.0	± 1.5	± 2.5

I_b^{10}	I_n						
$0.1 I_b \leq I \leq I_{max}$	$0.05 I_n \leq I \leq I_{max}$	1	-	-	± 0.5	± 1.0	± 2.0
$0.1 I_b \leq I < 0.2 I_b^{11}$	$0.05 I_n \leq I < 0.1 I_n$	0.5 ind 0.8 cap	-	-	± 1.3 ± 1.3	± 1.5 ± 1.5	± 2.5 -
$0.2 I_b \leq I \leq I_{max}$	$0.1 I_n \leq I \leq I_{max}$	0.5 ind 0.8 cap	-	-	± 0.8 ± 0.8	± 1.0 ± 1.0	± 2.0 -

Source[†]: BS EN 62053 - 22 for CoP1 and 2 (Class 0.2S and 0.5S), or BS EN 62053 - 11 for CoP2 (Class 0.5), and BS EN 60521 and BS EN 61036 for CoP3 and 5 (Class 1 and 2).

(b) Reactive Energy

Tests shall be carried out at fundamental frequency (50Hz) to verify that the Reactive Energy measurements are within the limits show in Table 2 below. The measurement uncertainty at fundamental frequency of the measurement system used shall not be greater than $\pm 0.4\%$. Not applicable to CoP10	011
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Table 2 Reactive Energy

Value of Current (I)		Sin ϕ	Percentage error limits ⁸ for Meters of Class		Applicable BS EN Standard for Test Criteria
For whole current Meters	For transformer operated Meters		2 (CoP1)	3 (CoP2, 3 and 5)	
$0.05 I_b \leq I < 0.1 I_b$	$0.02 I_n \leq I < 0.05 I_n$	1	± 2.5	± 4.0	BS EN 62053 - 23 and BS EN 61268
$0.1 I_b \leq I \leq I_{max}$	$0.05 I_n \leq I \leq I_{max}$	1	± 2.0	± 3.0	
$0.1 I_b \leq I < 0.2 I_b$	$0.05 I_n \leq I < 0.1 I_n$	0.5 ind or cap	± 2.5	± 4.0	
$0.2 I_b \leq I \leq I_{max}$	$0.1 I_n \leq I \leq I_{max}$	0.5 ind or cap	± 2.0	± 3.0	
$0.2 I_b \leq I \leq I_{max}$	$0.1 I_n \leq I \leq I_{max}$	0.25 ind or cap	± 2.5	± 4.0	BS EN 62053 - 23
$0.2 I_b \leq I \leq I_b$	$0.1 I_n \leq I \leq I_n$	0.25 ind or cap	-	± 10.0	BS EN 61268
$0.1 I_b \leq I \leq 0.2 I_b$	-	1	-	± 4.0	BS 5685 Part 4
$0.2 I_b < I \leq I_{max}$	-	1	-	± 3.0	
$0.2 I_b \leq I \leq I_{max}$	-	0.5 ind and 0.8 cap	-	± 3.0	

Source[†]: BS EN 62053 - 23 for CoP1 and 2 (Class 2 and 3), and BS EN 61268 (Class 3) for CoP 3 and 5 or BS 5685: Part 4 (Class 3) for CoP 2, 3 and 5. * for whole current metering percentage relates to I_{max} .

These limits of error for both Active and Reactive Energy shall apply at the reference conditions defined in the appropriate Meter.

†Permission to reproduce extracts from BS EN 62053 – 22, BS EN 62053 – 11, BS EN 60521, BS EN 61036, BS EN 62053 – 23, BS EN 61268 and BS 5685: Part 4 is granted by BSI. British Standards can be obtained in PDF or hard copy formats from the BSI online shop: www.bsigroup.com/Shop or by contacting BSI Customer Services for hardcopies only: Tel: +44 (0)20 8996 9001, Email: cservices@bsigroup.com.

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PERMISSION TO USE THE EXTRACTS LISTED IS GRANTED ONLY ON THE ABOVE CONDITIONS

3.4.12 Displays {5.4}

- (a) Confirm that the Metering Equipment is capable of displaying the following primary information (not necessarily simultaneously):

(a)	the total cumulative energy values for each Measured Quantity in actual scaled values can be displayed and stored in non-volatile memory;	026
(b)	the current time and date can be displayed;	027
(c)	the CT and/or VT ratios that have been programmed into the Meter can be displayed;	028
(d)	any compensation factor applied for measurement transformer errors and/or system losses can be displayed; and Not applicable to CoP10.	029
(e)	that, where the Meter is combined with the display and/or Outstation and a constant factor is applied, such factor is applied at security level 3. Not applicable to CoP10.	030

- (b) Confirm that the Metering Equipment is capable of enabling the display of the following information:

(a)	the Maximum Demand (“MD”) for kW (or MW <i>(CoP 1 and 2 only as appropriate)</i>) per month can be displayed;	031
(b)	the Maximum Demand (“MD”) for kW (or MW <i>(CoP 1 and 2 only as appropriate)</i>) for other programmable charging periods can be displayed;	032

(c)	the Maximum Demand (“MD”) for kVA (or MVA (CoP 1 and 2 only as appropriate)) per month can be displayed;	033
(d)	the Maximum Demand (“MD”) for kVA (or MVA (CoP 1 and 2 only as appropriate)) for other programmable charging periods can be displayed;	034
(e)	twice the kWh (or MWh (CoP 1 and 2 only as appropriate)) advance from the commencement of the current Demand period can be displayed;	035
(f)	twice the kVAh (or MVAh (CoP 1 and 2 only as appropriate)) advance from the commencement of the current Demand period can be displayed; Not applicable to CoP10.	036
(g)	the cumulative Maximum Demand can be displayed;	037
(h)	the number of Maximum Demand resets can be displayed;	038
(i)	the multi rate display sequence, for at least 8 rates selectable over the calendar year, can be displayed;	039
(j)	a reverse running indication for Active Energy is provided (where appropriate). (Required for CoPs 3 and 5 only);	040
(k)	the indicated Maximum Demand is re-settable at midnight of the last day of the selected charging period;	041
(l)	the indicated Maximum Demand is re-settable for a part of a charging period; and	042
(m)	any <u>Maximum Demand</u> manual reset button is sealable.	043

Paragraph 3.4.13 is not affected by CP1318.

3.4.14 Outstation {5.5}

Where an Outstation has been provided as part of the Metering Equipment for test, the protocol shall be Approved in accordance with this BSCP.

Establishing that:

(a)	The Outstation has a unique Outstation identification code;	048
(b)	For Meters with integral Outstations establish that an auxiliary terminal provides for the Outstation's energisation for remote interrogation purposes (CoP1 only). For Meters with integral Outstations record whether an auxiliary terminal provides for the Outstation's energisation for remote interrogation purposes (CoP2 only);	049
(c)	The Outstation is capable of communicating with more than one Instation (not simultaneously and of similar type or otherwise);	050
(d)	It is possible to repeatedly retrieve data throughout the Outstation data storage period;	051
(e)	Any “read” operation does not alter or delete any stored metered data; and	052
(f)	The Outstation can provide all metered data stored from the time of commencement of any specified date upon request by the Instation during the data storage period of the outstation.	053
(g)	Establish whether the Outstation is capable of sending metering data automatically (CoP 5 and 10 only);	054
(h)	Verify that the metering data sent complies with section 3.4.22 ‘Level 1 Passwords’ of this test specification (CoP 5 and 10 only); and	055

(i)	Establish whether the Outstation is capable of sending metering data on a daily basis as a minimum <i>(CoP 5 and 10 only)</i> .	056
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3.4.15 Data Storage {5.5.1}

The Metering Equipment shall be continuously energised at full load for a period of five days and afterwards at a cyclical variable load for a further fifteen days, to determine ~~the~~ total number of kWh or MWh (CoP 1 and 2 only) supplied to the Meter over the whole twenty day period.

During the test cycle establish that:

(a)	from the beginning of the current Demand Period, twice the kWh (or MWh (CoP 1 and 2 only) as appropriate) is being registered in the kW (or MW (CoP 1 and 2 only)) Maximum Demand register; and	057
(b)	from the beginning of the current Maximum Demand period, twice the kVAh (or MVAh (CoP 1 and 2 only) as appropriate) is being registered in the kVA (or MVA) Maximum Demand register.	058

on completion of the twenty day cycle above, the following tests shall be performed and confirm that:

(a)	each Demand Value is identifiable to its respective date and time; and	059
(b)	a storage capacity of 48 periods per day in accordance with Table 4 below is available for all Demand Values as integer multiples of kW (or MW (CoP 1 and 2 only) as appropriate) ;	060

Table 4 Data Storage Periods

Code of Practice	Minimum Storage Period(days)
1	10
2	10
3	20
5	20
10	20

(a)	for each of the initial five days, the sum of the Demand Values for each block of 48 half-hour periods are within 0.1% of the advance of the total cumulative register of the associated Meter for the same interval;	061
(b)	the value of any energy measured in a Demand Period, but not stored in that	062

	Demand Period are carried forward to the next Demand Period;	
(c)	for each of the twenty days under test that the contents of the kW (or MW <i>(CoP 1 and 2 only as appropriate)</i>) data stored facility have been stored correctly; and	063
(d)	for separate Meter/Outstation combinations, that the Outstation registers can be set to match and increment with the Meter registers. Not applicable to CoP10	064

One test sample of the Outstation shall be provided by the Applicant with its memory occupied with data to within twenty days of capacity¹⁴ (appropriate for the number of channels configured).

Upon further Energisation, confirm that;

(a)	on reaching maximum memory storage capacity, that any new data overwrites the oldest stored data; and	065
(b)	no other data has been altered or removed.	066

Paragraphs 3.4.16 through to 3.4.17.4 are not affected by CP1318.

3.4.17.5 Reverse Running

	Where an Active Energy reverse running display is provided, determine that the requirements of BS EN 61036 or BS EN 62053-22 as appropriate are met. Establish under what conditions the reverse running flag is activated and record those conditions. Tests should include single and polyphase power reversals and set the appropriate flag for the Demand Period affected <i>(CoP 3 and 5 only, and if fitted)</i> .	082
	Test that upon return to normal power flow, the reverse running flag is no longer present in the unaffected Demand Period <i>(CoP 3 and 5 only, and if fitted)</i> .	083

Paragraph 3.4.18 is not affected by CP1318.

3.4.19 Local Port

Using the Local Interrogation Unit provided by the Applicant, confirm that:

(a)	The local port provides data to a Local Interrogation Unit via an opto port to BS EN 61107 <i>(CoP 3 and 5)</i> or BS EN 62056-21 <i>(CoP 1, and 2 and 10)</i> ; or	085
(b)	The local port provides data to a Local Interrogation Unit via another type of port; and	086
(c)	Repeat collections of stored data are available throughout the storage period and verify that and “read” operation does not delete or modify any stored metering data.	087

¹⁴ With prior agreement from BSCCo integration periods other than 30mins may be used to facilitate the following two tests.

