

Minor Changes to BSCP601

| Paragraph/Test Number | Defect | Solution |
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| Paragraph 1.1 | <p>By witnessing protocol tests conducted by Half Hourly Data Collectors ELEXON adds comfort to participants that Settlement data is retrieved from Outstations in a manner consistent with the manufacturer’s software. By issuing a protocol approval certificate ELEXON does not accept liability for its implementation in the Data Collector’s systems.</p> <p>By reviewing the test report submitted by the Compliance Testing Agent (who is commissioned to do the work by the applicant) and confirming that the test results match up with the requirements ELEXON adds comfort to participants that the Metering Equipment meets the requirements of the relevant Code of Practice. By issuing a compliance certificate ELEXON does not accept liability for its use as Settlement Metering Equipment.</p> | <p>Add a new paragraph to the Paragraph 1.1 as follows:</p> <p>“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.”</p> |
| Paragraph 1.6.1 | The term ‘Agreed Procedure’ is used in this paragraph. ‘Agreed Procedure’ was the term used under the Pooling & Settlement Agreement. Under the BSC the term was changed to BSC Procedure (or BSCP for short). | Replace this mention of ‘Agreed Procedure’ with ‘BSC Procedure’. |
| Paragraph 1.6.1 | The acronym HHDC is defined as ‘Half Hourly Data Collector (Accredited)’. Since the implementation of P197 ‘SVA Qualification Processes Review’ the term ‘Accredited’ has been | Change the definition of HHDC to ‘Half Hourly Data Collector (Qualified)’. |

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| | <p>replaced with the term 'Qualified'.</p> | |
| <p>Paragraph 1.6.2</p> | <p>This paragraph currently references the wrong versions of Codes of Practice 1, 2, 3, 5, 6 and 10: CoP1 Issue 2 v3.0 Dated 23 February 2006 CoP2 Issue 4 v3.0 Dated 23 February 2006 CoP3 Issue 5 v5.0 Dated 3 November 2005 CoP5 Issue 7 v5.0 Dated 28 February 2008 CoP6 Issue 4 v4.2 Dated 'Code Effective Date' CoP10 Issue 2 v2.0 Dated 25 June 2009 (changes due in Feb 2010 by CP1296 and CP1297)</p> <p>Keeping the version numbers in synch with changes to the CoPs seems an unnecessary administrative burden when BSCP601 can simply say 'see the latest version'.</p> <p>Also, the reference to CoP6 does not contain the document's title.</p> | <p>Update these references to point to the latest versions of the Codes of Practice without spelling out which version, Issue number and date is the relevant one.</p> <p>Add CoP6 title.</p> |
| <p>3.1.1 Form F601/01 – Certificate of Compliance</p> | <p>By reviewing the test report submitted by the Compliance Testing Agent (who is commissioned to do the work by the applicant) and confirming that the test results match up with the requirements ELEXON adds comfort to participants that the Metering Equipment meets the requirements of the relevant Code of Practice. By issuing a compliance certificate ELEXON does not accept liability for its use as Settlement Metering Equipment.</p> | <p>Add a disclaimer to the compliance certificate as follows:</p> <p>"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</p> |

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| | | 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.” |
| 3.1.2 Form F601/02 – Certificate of Protocol Approval | There are two occurrences of ‘Accredited’ relating to Data Collectors in the Protocol Approval Certificate. P197 replaced the term ‘Accredited’ with the term ‘Qualified’. The words ‘Half Hourly’ are also missing in relation to the word ‘Data Collector’. | Replace the two occurrences of ‘Accredited’ with ‘Qualified’ and add ‘Half Hourly’ in front of the three occurrences of ‘Data Collector’. |
| 3.1.2 Form F601/02 – Certificate of Protocol Approval | By witnessing protocol tests conducted by Half Hourly Data Collectors ELEXON adds comfort to participants that Settlement data is retrieved from Outstations in a manner consistent with the manufacturer’s software. By issuing a protocol approval certificate ELEXON does not accept liability for its implementation in the Data Collector’s systems. | Add a disclaimer to the protocol approval certificate as follows: 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.” |
| 3.1.3 Form F601/03 – Protocol Approval and Compliance | By reviewing compliance test results which are conducted on behalf of the applicant by the Compliance Testing Agent and by witnessing protocol tests carried out by Half Hourly Data | Add a disclaimer to the Application: “The Panel (and its Committees) and ELEXON and its employees, agents and |

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| Testing | Collectors ELEXON does not give or make any representation warranty or guarantee on the test results. | 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." |
| Paragraph 3.4, Heading | A comma is missing after the word 'Three' in the paragraph heading. | Insert comma after the word 'Three' in this paragraph heading. |
| Paragraph 3.4.7, First sentence | <p>In the sentence above the table:</p> <p>'The following test shall be performed to confirm that Demand values are provided:'</p> <p>'Demand value' is not fully capitalised (this is a defined term in the Codes of Practice).</p> <p>Also 'test' should be plural.</p> | Change 'Demand value' to 'Demand Value' and add an 's' to the word 'test'. |
| Paragraph 3.4.7, Test 008 | CoP5 mentioned before CoP3 | Reverse order for consistency and remove 'Applies to' |

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| Paragraph 3.4.7, Test 009 | 'Demand values' | Change to 'Demand Values' |
| Paragraph 3.4.8, Heading | Bracketed references '{...}' refer to common paragraphs in the Codes of Practice. '{4.2}' in this heading is not relevant as paragraph 4.2 of the CoPs is for overall accuracy of a Metering System whereas these paragraphs of BSCP601 deal with tests carried out on the Meter alone. | Remove '{4.2}'. |
| Paragraph 3.4.8, Table 1 and 2 | Data from BS standards was included into BSCP601 by CP1175 to aid applicants who were submitting Metering Equipment for compliance testing. The British Standards Institute (BSI) owns the copyright for this material and permission has been granted to use it provided an acknowledgement is put into BSCP601. | Add BSI acknowledgement for using data from metering standards in Table 1 'Active Energy' and Table 2 'Reactive Energy'. |
| Paragraph 3.4.12, Test 031 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to '(CoP1 and 2 only)' |
| Paragraph 3.4.12, Test 032 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to '(CoP1 and 2 only)' |
| Paragraph 3.4.12, Test 033 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to '(CoP1 and 2 only)' |
| Paragraph 3.4.12, Test 034 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to '(CoP1 and 2 only)' |
| Paragraph 3.4.12, Test 035 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to '(CoP1 and 2 only)' |
| Paragraph 3.4.12, Test 036 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to '(CoP1 and 2 only)' |
| Paragraph 3.4.12, Test 040 | Only CoP 3 and 5 Meters require reverse running indication and only if fitted. The words 'Required by' are unnecessary. | Delete 'Required by'. |
| Paragraph 3.4.12, Test 043 | Test is not clear about what a manual button might reset. It currently says 'any manual reset button is sealable'. | Recommend that Test 43 says 'any Maximum Demand manual reset button provided is sealable' as the CoPs clearly state that |

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| | | any MD reset button should be sealable. |
| Paragraph 3.4.14 | Inconsistency, 'Establishing that:' | Change to 'Establish that:' for consistency throughout document. |
| Paragraph 3.4.14, Test 049 | The occurrence of 'establish that' in the first sentence is repetitive and is no longer required. | Remove 'establish that' in the first sentence of this test. |
| Paragraph 3.4.14, Test 054 | This test was included into CoP5 (CP1166). CoP10 Meters are now also allowed to send data inbound (CP1261). It is not clear that it only applies to CoP5 and 10. | Add <i>(CoP5 and 10 only)</i> |
| Paragraph 3.4.14, Test 055 | This test was included into CoP5 (CP1166). CoP10 Meters are now also allowed to send data inbound (CP1261). It is not clear that it only applies to CoP5 and 10. | Add <i>(CoP5 and 10 only)</i> |
| Paragraph 3.4.14, Test 056 | This test was included into CoP5 (CP1166). CoP10 Meters are now also allowed to send data inbound (CP1261). It is not clear that it only applies to CoP5 and 10. | Add <i>(CoP5 and 10 only)</i> |
| Paragraph 3.4.15 | Text is grammatically incorrect: 'determine to total number of kWh supplied' | Change to 'to determine the total number of kWh supplied' |
| Paragraph 3.4.15 | Depending on the market they are used in (CVA or SVA) CoP 1 and 2 Meters need to be able to record either MWh or kWh. This paragraph should reflect this. | Add 'or MWh <i>(CoP1 and 2 only)</i> ' after the occurrence of 'kWh'. |
| Paragraph 3.4.15, Test 057 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to ' <i>(CoP1 and 2 only)</i> ' |
| Paragraph 3.4.15, Test 057 | Depending on the market they are used in (CVA or SVA) CoP 1 and 2 Meters need to be able to record Maximum Demand in | Add ' <i>(CoP1 and 2 only)</i> ' after MW. |

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| | either kW or MW. This test should reflect this. | |
| Paragraph 3.4.15, Test 058 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to '(CoP1 and 2 only)' |
| Paragraph 3.4.15, Test 060 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to '(CoP1 and 2 only)' |
| Paragraph 3.4.15, Test 063 | The Megavalue 'as appropriate' could be clearer. | Change 'as appropriate' to '(CoP1 and 2 only)' |
| Paragraph 3.4.15, between Test 064 and Test 065 | Text says: 'One test sample of the Outstation shall be provided by the Applicant with its memory occupied with data to within twenty days of capacity (appropriate for the number of channels configured).' <p>Most modern Meters have very large memory capacities and even when programmed to store as many channels worth of data as possible will not overwrite within a reasonable time for test purposes.</p> | Add footnote to allow integration periods of other than 30 mins to be used, with BSCCo agreement, to confirm the following tests (i.e. tests 65 and 66), which are: 'a) on reaching maximum memory storage capacity, that any new data overwrites the oldest stored data; and b) no other data has been altered or removed.' |
| Paragraph 3.4.17.5, Test 082 | CoP1 and 2 Meters do not require a reverse running display/flag and CoP3 and 5 only where fitted. | Add (CoP3 and 5 only, and if fitted). |
| Paragraph 3.4.17.5, Test 083 | CoP1 and 2 Meters do not require a reverse running display/flag and CoP3 and 5 only where fitted. | Add (CoP3 and 5 only, and if fitted) |
| Paragraph 3.4.19, Test 085 | BSCP601 tests for the provision of a local interrogation port: "a) The local port provides data to a Local Interrogation Unit via an opto port to BS EN 61107 (CoP 3 and 5) or BS EN 62056-21 (CoP1 and 2); or (Test 86) "b) The local port provides data to a Local Interrogation Unit via another type of port; and" | Amend test 085 to say '...BS EN 62056-21 (CoP1, 2 and 10)' |

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| | <p>CoP10 states that 'An interrogation port shall be provided for each Outstation'. The standard IEC 62056-21 (equivalent to BS EN 62056-21) is mentioned in the references paragraph of the CoP but is not explicitly stated as a requirement in CoP10. Since IEC 62056-21 (BS EN 62056-21) is the latest standard for 'Data Exchange for Meter Reading, Tariff and Load Control. Direct Local Exchange' this should be a choice available for a CoP10 Meter.</p> | |
| <p>Paragraph 3.4.21, between Test 090 and Test 091</p> | <p>'For integral Outstations establish that four¹⁴ discrete password controlled access levels are provided for both local and remote interrogation.'</p> | <p>Incorporate this text as a new test by appending it to the first (single row) table. Append the following two tests to this table to create a single table for the whole of the paragraph (3.4.21 'Password Protection'). Update the test letters and numbers in this new table.</p> <p>Update test numbers by one until paragraph 3.4.22 (i).</p> |
| <p>Paragraph 3.4.21, Test 091</p> | <p>This test doesn't make it clear that a Meter can either have an alphanumeric password or a hexadecimal one.</p> | <p>Add ';' or' to the end of this test text.</p> |
| <p>Paragraph 3.4.22, between Tests 101 and 102</p> | <p>The words 'Establish that it is not possible to change any of the above values at Level 1 Password' occurs between two tests. This should have its own test number.</p> | <p>Add a test number for this test and increment each subsequent test number by two until the end of paragraph 3.4.</p> |
| <p>Paragraph 3.4.24, Test 110</p> | <p>This requirement was included into CoP5 by CP1166. CoP10 Meters are now also allowed to send data inbound (CP1261).</p> | <p>Add <i>(CoP5 and 10 only)</i></p> |

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| | <p>It is not clear that it only applies to CoP5 and 10.</p> | | | | | | | | | | | | | | | | |
| <p>Paragraph 3.4.25, Test 112</p> | <p>To make it clearer that Level 4 can either be achieved electronically or by breaking the seals and removing the cover of the Meter move the precondition 'If the Level 4 Password is implemented electronically then' from Test 112 to outside the table of relevant tests.</p> | <p>Amend to (note that test numbers shown here will be updated by two due to previous suggested changes):</p> <p>If the Level 4 Password is implemented electronically then:</p> <table border="1" data-bbox="1355 454 2101 817"> <tr> <td data-bbox="1355 454 1451 550">a)</td> <td data-bbox="1451 454 2027 550">establish that all the functionality listed at Level 3 can be performed and in addition that the following alterations can be performed:</td> <td data-bbox="2027 454 2101 550">112</td> </tr> <tr> <td data-bbox="1355 550 1451 619">b)</td> <td data-bbox="1451 550 2027 619">calibration of the Meter (only where the Meter is integral with the Outstation);</td> <td data-bbox="2027 550 2101 619">113</td> </tr> <tr> <td data-bbox="1355 619 1451 687">c)</td> <td data-bbox="1451 619 2027 687">setting the measurement transformer ratios, where appropriate;</td> <td data-bbox="2027 619 2101 687">114</td> </tr> <tr> <td data-bbox="1355 687 1451 783">d)</td> <td data-bbox="1451 687 2027 783">setting the measurement transformer error correction and/or system loss factors applied as a complex factor; and</td> <td data-bbox="2027 687 2101 783">115</td> </tr> <tr> <td data-bbox="1355 783 1451 817">e)</td> <td data-bbox="1451 783 2027 817">programming the Level 3 & 4 Passwords.</td> <td data-bbox="2027 783 2101 817">116</td> </tr> </table> | a) | establish that all the functionality listed at Level 3 can be performed and in addition that the following alterations can be performed: | 112 | b) | calibration of the Meter (only where the Meter is integral with the Outstation); | 113 | c) | setting the measurement transformer ratios, where appropriate; | 114 | d) | setting the measurement transformer error correction and/or system loss factors applied as a complex factor; and | 115 | e) | programming the Level 3 & 4 Passwords. | 116 |
| a) | establish that all the functionality listed at Level 3 can be performed and in addition that the following alterations can be performed: | 112 | | | | | | | | | | | | | | | |
| b) | calibration of the Meter (only where the Meter is integral with the Outstation); | 113 | | | | | | | | | | | | | | | |
| c) | setting the measurement transformer ratios, where appropriate; | 114 | | | | | | | | | | | | | | | |
| d) | setting the measurement transformer error correction and/or system loss factors applied as a complex factor; and | 115 | | | | | | | | | | | | | | | |
| e) | programming the Level 3 & 4 Passwords. | 116 | | | | | | | | | | | | | | | |
| <p>Paragraph 3.4.26, 'Footnote' 4 (within Test 120 text)</p> | <p>Text says: 'Using the Approved Protocol⁴, verify that the password offered determines the Level of access to the data within the Metering Equipment'.</p> <p>Since this 'footnote' is actually a superscript number the associated text was deleted as a housekeeping change by a previous CP as there was no link between them in the document. The text associated with this 'footnote' had asked for the Compliance Testing Agent to record the status of the Protocol used for testing if it had not yet been approved.</p> | <p>Re-add this as a proper footnote with the following associated text: 'If the protocol employed has not yet received Approval, record the status and description of the protocol used for testing purposes.'</p> | | | | | | | | | | | | | | | |
| <p>Paragraph 3.4.27.2</p> | <p>The Standard referred to in this paragraph is 'IEC 1000-4-3'. This should be 'IEC 61000-4-3' to align with the standard</p> | <p>Change 'IEC 1000-4-3' to 'IEC 61000-4-3'</p> | | | | | | | | | | | | | | | |

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| | quoted in the 3.4.2 'References' paragraph. | |
| Paragraph 3.5.12.2.1 | The Standard referred to in this paragraph is 'IEC 1000-4-3'. This should be 'IEC 61000-4-3'. | Change 'IEC 1000-4-3' to 'IEC 61000-4-3' |