

CP Assessment Report

CP1505 'Allowing 'off site' Commissioning of Current Transformers (CTs) preinstalled in cut outs or switchgear at manufacture for use in Low Voltage (LV) installations'

ELEXON



Committee

Imbalance Settlement Group (ISG)

Recommendation

Approve

Implementation Date

1 November 2018
(November 2018 Release)



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About This Document

This document is the Change Proposal (CP) Assessment Report for CP1505 which ELEXON presented to the Supplier Volume Allocation Group (SVG) on 29 May 2018 and is presenting to the Imbalance Settlement Group (ISG) on 19 June 2018. The SVG and ISG will consider the proposed solution and the responses received to the CP Consultation before making a decision on whether to approve CP1505.

There are three parts to this document:

- This is the main document. It provides details of the solution, impacts, costs, and proposed implementation approach. It also summarises the ISG's and SVG's initial views on the proposed changes and the views of respondents to the CP Consultation.
- Attachment A contains the proposed redlined changes to deliver the CP1505 solution.
- Attachment B contains the full responses received to the CP Consultation.

1 Why Change?

Background

[Code of Practice \(CoP\) 4 'The Calibration, Testing and Commissioning Requirements of Metering Equipment for Settlement Purposes'](#) details the requirements for Commissioning Metering Equipment for Settlement purposes.

CoP4 Sections 5.5.2 and 6.2 (Half Hourly (HH) and Non Half Hourly (NHH) respectively) detail the required output of the Commissioning tests and state that these tests should be conducted 'on site':

'Commissioning tests on site shall be performed to confirm and record ...'

Therefore, the Metering Equipment must be in situ upon Commissioning to be compliant to the CoP4 requirements.

What is the issue?

Whilst Commissioning tests are required, it is not always practical or convenient for these to be completed 'on site' where the Metering Equipment is used in low voltage (LV) installations. This is the case for current transformers (CTs) preinstalled in cut outs or switchgear at the manufacturer.

In some installations for example, CTs are delivered in sealed units and have already been tested (and certain requirements of CoP4 confirmed) by the manufacturer 'off site' (i.e. in the factory). In these instances it may not be cost effective or necessary to complete all Commissioning tests 'on site', as elements of accuracy, such as ratios and polarity will have been confirmed at manufacture. Furthermore, it may not be practicable to perform tests on site as the sealed design of the equipment prevents tampering of the transformers between manufacture and delivery for connection. For this reason it may not be physically possible to access the CTs prior to energisation (the preferred Commissioning test method for LV connections of this type) and so meaningful Commissioning tests cannot be completed easily 'on site'.

For High Voltage (HV) and Extra HV (EHV) Metering Equipment, multi-ratio CTs may be used. Therefore 'on site' Commissioning tests are necessary to confirm the correct configuration of the equipment.



What counts as Metering Equipment?

Defined in Section X Annex X-1 'General Glossary' of the Balancing and Settlement Code (BSC) as Meters, measurement transformers (voltage, current or combination units), metering protection equipment including alarms, circuitry, associated Communications Equipment and Outstations and wiring.



What counts as low voltage?

CP1505 uses the LV definition listed in The Electricity Supply and Continuity Regulations 2002: 'In relation to alternating current, a voltage exceeding 50 volts measured between phase conductors (or between phase conductors and earth), but not exceeding 1000 volts measured between phase conductors (or 600 volts if measured between phase conductors and earth), calculated by taking the square root of the mean of the squares of the instantaneous values of a voltage during a complete cycle.'

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Proposed solution

This change proposes to add and amend text in CoP4 to specify that CTs preinstalled in cut outs or switchgear may be Commissioned 'off site'. This is conditional on the 'off site' tests being completed in line with requirements detailed in Sections 5.5 and 6.2 (HH and NHH respectively) of CoP4.

Where CTs are owned by a BSC Party, that Party shall be responsible for ensuring the requirements of these sections of CoP4 are performed on its Metering Equipment up to the Testing Facilities. Where the CTs are not owned by a BSC Party, the Registrant of the Metering System, via its appointed Meter Operator Agent (MOA), shall be responsible for ensuring these requirements are met.

CP1505 also proposes an amendment to the existing footnote regarding the instruments used for Commissioning (footnote 7). The addition shall confirm responsibility and traceability of the Commissioning tests completed 'off site'.

The added text this change proposes gives a BSC Party the ability to Commission CTs 'off site' whilst emphasising the responsibility for ensuring full Commissioning of the Metering System is completed to the current CoP4 standard. It also specifies that some 'on site' tests are still required to confirm the overall accuracy of the Metering System (as per the relevant CoP), such as the connections up to the Meter and the Meter itself.

Finally this CP shall add in two new footnotes (8 and 9). The first explicitly excludes multi ratio design CTs from being able to be Commissioned off site. The second clarifies that the MOA is not required to complete additional testing following the off site Commissioning of CTs.

This is due to the incorrect configuration of multi ratio CTs posing a greater risk to Settlement. The second footnote has been added following CP Consultation, in order to reduce possible ambiguity within CoP4.

Proposer's rationale

It has been brought to ELEXON's attention by a number of market participants - both BSC Parties (Licensed Distribution System Operators (LDSOs)) and non-BSC Parties (Independent Connection Providers (ICPs)) - that the requirement in CoP4 to Commission Metering Equipment 'on site' is not always practical or possible. Commissioning of Metering Equipment would be more cost efficient if completed 'off site'. The current requirement to Commission 'on site' causes duplication of testing, which is unnecessarily resource intensive and time consuming. In some instances, the CTs may not be accessible to complete Commissioning 'on site' where modern design of the sealed unit does not easily allow access. This CP was raised by GTC (ETCL & IPNL) on the 12 March 2018.

3 Impacts and Costs

Central impacts and costs

Central impacts

CP1505 will require changes to CoP4, which is jointly owned by the ISG and SVG. No Central System changes are required for this CP.

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none">CoP4	<ul style="list-style-type: none">None

Central costs

The central implementation costs for CP1505 will be approximately £240 (one ELEXON working day to implement the necessary document changes).

BSC Party & Party Agent impacts and costs

This CP has an impact on Distribution System Operators (DSOs) and HH Meter Operator Agents (HHMOAs) which has been confirmed through CP consultation.

The impacts identified were mostly due to the amendment of standing processes and the necessity of a closer relationship with the off site Commissioning agent in order to ensure the timely receipt of test certificates.

Other impacts focussed on the wording of 'additional Commissioning' tests required by the MOA and the implication for further training and purchase of new equipment that could be required. However, it has been established that the context of 'additional Commissioning tests' was unclear and this has subsequently been addressed. No additional Commissioning tests to those already established in CoP4 will be required by the MOA.

Additionally the Consultation highlighted that savings would be accrued by some DSOs through the removal of 'unnecessary' resource intensive procedural site visits.

The BSC Party & Party Agent impacts are summarised in the table below. Please see Attachment B for the full responses.

BSC Party & Party Agent Impact Summaries (see attachment B for full responses)	
BSC Party/Party Agent	Impact
ESP Electricity Ltd	<ul style="list-style-type: none">A more efficient and cost effective use of resource.
SP Distribution SP Manweb	<ul style="list-style-type: none">Closer contact with the manufacturer to ensure the required quality of Commissioning.Closer contact with manufacturer to ensure timely receipt of test certificates.

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BSC Party & Party Agent Impact Summaries (see attachment B for full responses)

BSC Party/Party Agent	Impact
Southern Electric Power Distribution plc Scottish Hydro Electric Power Distribution plc	<ul style="list-style-type: none"> • Remove requirement of unnecessary site visits. • More effective use of resource. • Minor updates to documents and processes.
SSE Energy Supply Ltd SSE Electricity Ltd	<ul style="list-style-type: none"> • Changes to MOA testing/ required equipment. • Additional MOA training.
Npower	<ul style="list-style-type: none"> • Required to change MOP Field Processes which will have an impact on our business. • Changes to MO.
Northern Powergrid	<ul style="list-style-type: none"> • Use integrated metering CT panels as standard for LV installations and so will benefit through CP. • Reduction of risk of CT/Meter mismatch therefore positive effect on risk to Settlement. • Better quality of Commissioning may be achieved in a more controlled environment with more readily available testing equipment.

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4 Implementation Approach

Recommended Implementation Date

CP1505 is proposed for implementation on **1 November 2018** as part of the November 2018 BSC Release.

The November 2018 Release is the next Release that can include this CP.

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ISG's initial views

CP1505 was presented to the ISG for information at its meeting on 20 March 2018 ([ISG203/04](#)).

ISG members initially questioned the level of Commissioning that could currently be completed in line with CoP4. The ISG also questioned how many MW of load had been installed under the current arrangements in order to gauge the potential materiality of the issue. ELEXON responded that the Proposer had installed 650 LV installations within the last 12 months, representing approximately 160MW load. Post meeting, it was confirmed as not possible to Commission CTs pre-installed in cut outs or switchgear via prevailing load (after energisation) due to the physical inaccessibility of the test terminals. However, it is possible to Commission (pre-energisation) via injection testing, which is already required for Central Volume Allocation (CVA) Metering Systems. This is not the case for Supplier Volume Allocation (SVA) Metering Systems and Parties argue that primary injection for CoP4 LV sites is impractical and not cost effective - particularly when elements of these tests have already been completed by the manufacturer off site.

ISG members questioned the point at which manufacturers complete the Commissioning tests and whether this was at the point of physical manufacture or at the point of sale. The ISG members noted concern regarding the time between the installations being initially tested and then the point of installation on site, and questioned the point at which assurance would be provided. Members were concerned that CTs accuracy could degrade between the point of manufacture and point of installation or through adverse and lengthy transportation conditions. In turn they asked if the certificates of assurance are time limited. It has been clarified by the Proposer that the LV installations are tested at the point of manufacture and the installations are then shipped directly to site (approximately 3-4 days). ELEXON noted a possible risk of CTs being damaged through adverse and lengthy travel conditions. Any such damage would be identified by the MOA's established site testing which is still required under CoP4.

The ISG questioned whether, if tests have been completed by the manufacturer, there would be assurance that the installation was fit for purpose on site. An ISG member explained that the DSO requires (time limitless) certificates that testing has been completed for audit purposes and therefore certificates are retained for each individual asset.

SVG's initial views

CP1505 was presented to the SVG for information at its meeting on 27 March 2018 ([SVG206/08](#)).

The SVG did not provide any direct comments on CP1505.

SVG's final views

The Assessment Report for CP1505 was presented to the SVG for decision at its meeting on 29 May 2018 ([SVG208/03](#)).

The SVG approved the amended redlining and the changes to be implemented on 1 November 2018 as part of the November 2018 Release. An SVG member questioned which

of WPD's suggestions were not able to be incorporated into the redlining; ELEXON clarified that it had incorporated their suggestion to allow off site Commissioning to be completed by an 'off site Commissioning Agent'. However, WPD had also proposed widening the scope of the CP – disagreeing with the solution's restriction to current transformers and low voltage installations. ELEXON advised that it had not progressed this, since ELEXON and the Proposer considered it to be outside the scope of the change.

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6 Industry Views

This section summarises the responses received to the CP Consultation. You can find the full responses in Attachment C.

Summary of CP1505 final CP Consultation Responses				
Question	Yes	No	Neutral/ No Comment	Other
Do you agree with the CP1505 proposed solution?	10	1	1	0
Do you agree that the draft redlining delivers the intent of CP1505?	9	2	1	0
Will CP1505 impact your organisation?	6	5	1	0
Will your organisation incur any costs in implementing CP1505?	2	7	3	0
Do you agree with the proposed implementation approach for CP1505?	10	1	1	0

CP1505 Consultation Responses

Those who agreed did so largely with a mention of the change enabling a 'more efficient use of resource' and enabling the compliance of current working practices. Those who disagreed did so due to the confusion caused by unclear wording within the redlining and due to concern of possible ambiguity in the solution of the CP.

Not all respondents initially agreed that the draft redlining delivered the proposed solution. The primary reason was because of the wording in sections 5.5.2 and 6.2, which included an unclear obligation for the MOA to complete 'additional' Commissioning tests and confirm secure connections up to 'and including the Testing Facilities'. ELEXON confirmed with the respondents that no 'additional' Commissioning tests to the already established practices of CoP4 would be required and the inclusion of responsibility up to and 'including' the Testing Facilities was also incorrect in some instances. The draft redlining has been amended to address these issues. ELEXON has contacted those who disagreed with the draft redlining for these reasons and confirmed they were satisfied that these issues had been resolved.

The removal of the restriction that the off site Commissioning must be completed by the manufacturer was suggested by a Distributor in order to improve the redlining. It was their view that this limitation was overly restrictive as they requested the capability to Commission the LV equipment at their depot for example. ELEXON and the Proposer agreed that this was a reasonable improvement. The obligation has been amended to enable an 'off site Commissioning agent' to complete the Commissioning tests. The identity, contact details and address of where Commissioning tests were performed shall still be required for audit purposes. These amendments have been communicated with the respondent. The respondent was pleased that their suggestions had been taken on board and the redlining had moved in the right direction but was disappointed that their suggestion to increase the scope to include voltage transformers could not be incorporated. ELEXON and the Proposer agreed that this would be outside of the issue identified within this CP and therefore too large of an increase in the scope of the change.

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A respondent highlighted possible ambiguity around the Commissioning requirements in CoP4 which they felt could be increased due to the proposed changes, which in turn may lead to a greater risk to Settlement and discrepancies within the Commissioning test process. The Proposer and ELEXON disagree with this view due to the same testing being required as it is currently, but in a more controlled and practical environment. ELEXON explained this view to the respondent but they confirmed their view had not changed.

Another argument the same respondent held against the solution was that on site Commissioning is still required for other metering systems such as HV and EHV and therefore it should still be required for LV systems. The Proposer and ELEXON disagree due to a substantial increase in risk involved with the Commissioning of HV and EHV systems. For these systems there is often a standard of infrastructure, such as roads and kerb lines, required for their initial installation which aids accessibility to the systems and reduces the hazard to the Commissioning agent. Therefore, ELEXON and the Proposer consider it a necessary and reasonable requirement to complete their full Commissioning tests on site as part of their installation. The Proposer highlighted that these systems often utilise multi ratio CTs. The Proposer had not intended the inclusion of multi ratio CTs but they had not been explicitly excluded in the draft redlining as it had been viewed LV installations do not use them. However, due to the higher risk of incorrect configuration and concern of ambiguity within the CP they have now been explicitly excluded from the redlining. ELEXON informed the respondent who held these views of the amendments made and the reasoning behind why the Proposer and ELEXON consider on site testing necessary for HV and EHV systems. The respondent was pleased that multi ratio CTs had been explicitly excluded but still held some concern with the change.

A respondent suggested in order to more easily gauge that the off site Commissioning had been completed and not tampered with, tamper evident seals should be used on the CTs. ELEXON and the Proposer agreed with this view and updated the redlining to include this. The respondent also questioned the process of the provision of the Commissioning documents. ELEXON clarified the process for provision of part 1 of the Commissioning documents will not be affected. The test results will still be provided following completion within 16WD of installation/ energisation in accordance with the current process. The respondent who disagreed with the CP partly for these reasons has since updated their response to become neutral towards the CP.

One respondent agreed with the proposed CP solution on condition that the redlining be updated with their suggested improvements. This included the addition of text to create a responsibility that the third party Commissioning agent transports and installs the LV Metering Equipment correctly in accordance with the manufacturer's instructions. The respondent also suggested a requirement for the Distributor to add a Meter Operation Code of Practice Agreement (MOCOPA) label in such circumstances to account for non-standard phase rotation. ELEXON notes that the content of the MOCOPA label is not a BSC issue and therefore is out of scope; CoP4 only requires phase rotation to be standard at the Meter terminals. However, ELEXON did add wording to specify that no alterations can be made to the Metering Equipment once it has been Commissioned off site. ELEXON contacted the respondent following the amendments to the draft redlining and the respondent agreed for their response to be updated to agree with the solution.

Comments on the proposed redlining

Comments on the CP1505 Proposed Redlining		
Document & Location	Comment	The Proposer and ELEXON's Response
5.3.1	A typographical error – there should be a space between 'and' and '5.3.2 (Initial Calibrations)'.	This error has been amended.
5.3.1	<p>WPD suggests the proposed redline text for this section is changed as follows:</p> <p>For the avoidance of doubt where measurement current transformers contained within a LV cut outs or switchgear are Commissioned off site in line with section 5.5.2 (paragraph 3) the requirements detailed in sections 5.3.1 (Responsibility for Calibrations and Maintenance of Records) and 5.3.2 (Initial Calibrations) shall still endure and remain with the relevant BSC Party. The BSCCo (or any delegated 3rd party) shall have the right to audit any manufacturers performing Commissioning performed off site to ensure that this Commissioning is undertaken in line with CoP4 requirements. Any non-compliance found shall be the responsibility of the relevant BSC Party responsible for Commissioning.</p>	<p>The Proposer and ELEXON viewed it necessary to keep the proposal limited to current transformers and LV installations. This is due to the higher associated risk to Settlement that the full Commissioning of voltage transformers and HV installations holds.</p> <p>The Proposer explained the change could possibly be extended to include HV Metered Ring main units, where the whole package is sealed and delivered as a single unit. Certain aspects of the CoP4 part one Commissioning could be conducted off site. However, if the ring main unit is required to be Commissioned on site for protection, the Proposer was not sure of the benefits to be gained.</p> <p>ELEXON and the Proposer subsequently view that all HV installations should not be included within the change, in order to maintain clarity of the solution and avoid possible misinterpretation.</p>
5.3.1	<p>For the avoidance of doubt where current transformers contained within a LV cut outs or switchgear are Commissioned off site in line with section 5.5.2 (paragraph 3) the requirements detailed in sections 5.3.1 (Responsibility for Calibrations and Maintenance of Records) and 5.3.2 (Initial Calibrations) shall still endure and remain with the relevant BSC Party.¹ The BSCCo (or any delegated 3rd party) shall have the right to audit any manufacturers</p>	ELEXON and the Proposer agree with the suggested rewording but the suggestion has been updated to include 'off site Commissioning agent' as opposed to 'manufacturer' in the redlined text.

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Comments on the CP1505 Proposed Redlining

Document & Location	Comment	The Proposer and ELEXON's Response
	<p>performing Commissioning off site to ensure that theis Commissioning is undertaken in line with CoP4 requirements. <u>Any such audit will be facilitated by the BSC Party responsible for ensuring the requirements of 5.5 are performed on its Metering Equipment up to and including the Testing Facilities.</u>²</p> <p>Any non-compliance found shall be the responsibility of the relevant BSC Party responsible for <u>the Commissioning.</u>'</p> <p>1) It is not necessary to include this text in this section as the existing text still works for pre-commissioned units i.e. Regardless of how the CTs are commissioned it is still the BSC Party owning the equipment that is responsible for ensuring the requirements of 5.3 are met.</p> <p>2) Added this into section 5.3.1 instead of 5.5.4 as I think it fits better here.</p> <p>Therefore, the proposed additional red-line text for section 5.3.1 is:</p> <p style="padding-left: 40px;">'The BSCCo (or any delegated 3rd party) shall have the right to audit any manufacturers performing Commissioning off site to ensure that the Commissioning is undertaken in line with CoP4 requirements. Any such audit will be facilitated by the BSC Party responsible for ensuring the requirements of 5.5 are performed on its Metering Equipment up to and including the Testing Facilities. Any non-compliance found shall be the responsibility of the relevant BSC Party responsible for the Commissioning.'</p>	
5.5.1	WPD suggests the proposed redline	Suggestions addressed in a

Comments on the CP1505 Proposed Redlining

Document & Location	Comment	The Proposer and ELEXON's Response
	<p>text for Note 7 to this section is changed as follows:</p> <p>'⁷ or relevant network operator, as appropriate. Where measurement current transformers are Commissioned off site in line with paragraph 3 (section 5.5.2) then the BSC Party responsible for the Commissioning of measurement transformers shall ensure a traceable process exists and is followed for the periodic calibration of instruments used for Commissioning. '</p>	<p>previous comment.</p>
<p>5.5.2</p>	<p>WPD suggests the proposed redline text for this section is changed as follows:</p> <p>'Measurement Current Transformers preinstalled in an enclosure LV cut-outs or switchgear off site and where subsequent access or alteration is not expected under normal circumstances, delivered to site for connection may be partially Commissioned off site provided this is done in accordance with Section 5.5.2 of CoP4 other than the requirement that the Commissioning be performed on site. Additional Commissioning tests will be required on site by the MOA⁷ to complete the a full Commissioning tests in line with CoP4 obligations and confirm correct and secure connections from the measurement transformers Meter up to and including the Testing Facilities. Where the measurement current transformers are not owned by a BSC Party then the Registrant of the Metering System, via its appointed MOA, shall be responsible for ensuring these</p>	<p>ELEXON considers the suggested rewording, 'not expected under normal circumstances' to be too vague which could lead to potential misinterpretation and therefore introduce a risk to Settlement.</p>

Comments on the CP1505 Proposed Redlining

Document & Location	Comment	The Proposer and ELEXON's Response
	requirements are met.'	
5.5.2 – First sentence	<p>'Commissioning tests on site¹ shall be performed to confirm and record where appropriate the following:'</p> <p>1) This section also includes off site commissioning in the proposal so "on site" should be removed.</p> <p>The proposed new wording: '<u>Commissioning tests shall be performed on site with the exception of where</u> Current Transformers <u>are preinstalled integrated² within LV low voltage³ out outs or switchgear⁴ at manufacture. Providing there is no further alteration⁵ to the Metering Equipment following Commission some elements⁶ of the Commissioning tests off-site and delivered to site for connection</u> may be <u>carried out</u> Commissioned-off site <u>provided this is done in accordance with Section 5.5.2 of CoP4 other than the requirement that the Commissioning be performed on-site. Additional Commissioning tests will be required on-site by the MOA to complete a full Commissioning test in line with CoP4 obligations and confirm correct and secure connections from the Meter up to and including the Testing Facilities. Where the current transformers are not owned by a BSC Party then the Registrant of the Metering System, via its appointed MOA, shall be responsible for ensuring these requirements are met.⁷</u>'</p> <p>2) think this is a better word than preinstalled</p> <p>3) LV is not defined within CoP4 so will need to be added to section 4 –</p>	<p>ELEXON and the Proposer agree with all proposed amendments. A version of the suggested text has been incorporated into the redlining which includes other amendments made due to the CP Consultation.</p>

Comments on the CP1505 Proposed Redlining

Document & Location	Comment	The Proposer and ELEXON's Response
	<p>definitions and interpretations – or just use the words 'low voltage'.</p> <p>4) These are in ISUs too so I think the word 'Switchgear' covers all.</p> <p>5) Included this as any alteration to any of the equipment will invalidate the factory commission. Also, LV ACB installations with a remote meter panel would still require some on-site commission.</p> <p>6) Not all can be done off site.</p> <p>7) I don't think any of this is required as paragraphs 1 and 2 of section 5.5 already cover this. The introduction of pre-commissioned units should not cause the MOA to carry out additional commissioning tests.</p>	
5.5.4	<p>WPD suggests the proposed redline text for this section is changed as follows:</p> <p>'Where measurement transformer Commissioning has taken place off site, records shall include the identity of the off site third party Commissioning agent along with the contact details and address at which the testing was performed. For the avoidance of doubt, where BSCCo intends to audit a manufacturer completing off site Commissioning, BSCCo will contact the BSC Party responsible for ensuring the requirements of COP4 Section 5.5 have been met the Commissioning of measurement transformers. It is the responsibility of said Party to organise the site audit.'</p>	<p>ELEXON and the Proposer agree to amend 'third party Commissioning agent' to become 'off site Commissioning agent' and the requirement to record the contact details of the off site Commissioning agent has been removed.</p>

Comments on the CP1505 Proposed Redlining

Document & Location	Comment	The Proposer and ELEXON's Response
6.2	<p>WPD suggests the proposed redline text for this section is changed as follows:</p> <p>'Current Transformers preinstalled in an enclosure LV cut-outs or switchgear off site and where subsequent access or alteration is not expected under normal circumstances, delivered to site for connection may be partially Commissioned off site provided this is done in accordance with Section 6.2 of CoP4 other than the requirement that the Commissioning be performed on site. Additional Commissioning tests will be required on site by the MOA⁷ to complete the a full Commissioning tests in line with CoP4 obligations and confirm correct and secure connections from the current transformers Meter up to and including the Testing Facilities. Where the current transformers are not owned by a BSC Party then the Registrant of the Metering System, via its appointed MOA, shall be responsible for ensuring these requirements are met.'</p>	<p>Suggestions addressed in a previous comment.</p>

7 Recommendations

We invite you to:

- **AGREE** the amendments to the proposed redlining for CoP4 for CP1505 made following the CP Consultation;
- **APPROVE** the proposed changes to CoP4 for CP1505;
- **APPROVE** CP1505 for implementation on 1 November 2018 as part of the November 2018 Release; and
- **NOTE** that CP1505 was approved by the SVG at their committee meeting on 29 May 2018.

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Appendix 1: Glossary & References

Acronyms

Acronyms used in this document are listed in the table below.

Acronyms	
Acronym	Definition
Acronym	Definition
BSC	Balancing and Settlement Code (<i>industry Code</i>)
CP	Change Proposal
CoP	Code of Practice
CPC	Change Proposal Circular
CT	Current Transformer
DSO	Distribution System Operator
EHV	Extra High Voltage
HH	Half Hourly
HV	High Voltage
HHMOA	Half Hourly Meter Operating Agent
ICP	Independent Connection Provider
ISG	Imbalance Settlement Group (<i>Panel Committee</i>)
LV	Low Voltage
LDSO	Licensed Distribution System Operator
MOCOPA	Meter Operation Code of Practice Agreement
NHH	Non Half Hourly
SVG	Supplier Volume Allocation Group (<i>Panel Committee</i>)

External links

A summary of all hyperlinks used in this document are listed in the table below.

All external documents and URL links listed are correct as of the date of this document.

External Links		
Page(s)	Description	URL
2	Code of Practice 4: The Calibration, Testing and Commissioning Requirements of Metering Equipment for Settlement Purposes	https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/codes-of-practice/
6	ISG203 meeting ELEXON webpage	https://www.elexon.co.uk/meeting/isg-203/

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6	SVG206 meeting ELEXON webpage	https://www.elexon.co.uk/meeting/svg-206/
7	SVG208 meeting ELEXON webpage	https://www.elexon.co.uk/meeting/svg-208/

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