

MINUTES

MEETING NAME TECHNICAL ASSURANCE OF METERING EXPERT GROUP

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|------------------------|-----------------|
| Meeting number | 36 |
| Date of meeting | 17 October 2018 |
| Venue | ELEXON Ltd |
| Classification | Public |

ATTENDEES AND APOLOGIES

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|------------------|-------------------|----|--------------------------------|
| Attendees | Mike Smith | MS | TAMEG Chair |
| | Michael Taylor | MT | Technical Secretary |
| | Chris Day | CD | ELEXON |
| | Stephen Newsam | SN | ELEXON |
| | Katharine Higby | KH | ELEXON |
| | Ron Cook | RC | Independent Expert |
| | Nicholas Sawyer | NS | Npower |
| | Anthony Hobbs | AH | Siemens (Telephone) |
| | Lisa Young | LY | C&C Group (TAA) |
| | Warren Lacey | WL | Northern Powergrid (Alt) |
| | Daniel Lewis | DL | EDF Energy |
| | Rebecca Gaskill | RG | SSE |
| Apologies | Stephen Cuddihey | SC | UK Power Networks |
| | Colin Gentleman | CG | SSE |
| | Kevin Walker | KW | E.On |
| | Calvin MacFarlane | CM | Npower |
| | Richard Turner | RT | EDF Energy |
| | Anthony Smith | AS | IMServ |
| | Bob Dryden | BD | Npower |
| | Tom Chevalier | TC | Association of Meter Operators |

MINUTES

ADMINISTRATION

1. Minutes and Actions

- 1.1 The minutes for the Technical Assurance of Metering Expert Group (TAMEG) 35 meeting were approved without amendment within a month of the meeting.

ACTION 30.02

- 1.2 ELEXON agreed to inform the Performance Assurance Board (PAB) of TAMEG's concerns regarding Independent Connection Providers (ICPs) and Independent Distribution Network Operators (IDNOs)¹ obligations and the issues with the adoption process (in relation to commissioning measurement transformers and providing measurement transformer certificates)². The TAMEG agreed to modify the action to include Business Network Operators (BNO).
- 1.3 SSE Energy Supply Ltd has raised a BSC Issue ([Issue 72 'Ensuring measurement transformer assets installed by a Non-BSC Party are successfully Commissioned within BSC timescales'](#)). The first Issue Group meeting is arranged for 16 October 2018.
- 1.4 In addition, ELEXON took a paper to the PAB ([209/05](#)), regarding ICPs. The PAB suggested that the Panel raise TAMEG's and PAB's concerns with the [Competition in Connections Code of Practice \(CiCCoP\) Panel](#)³. ELEXON tabled a paper at the BSC Panel meeting on 9 August 2018 ([281/06](#)) and invited the Panel to send a letter to the CiCCoP Panel highlighting the concern around ICP's impact on Commissioning processes. The Panel agreed that it should send a letter. **Post meeting note:** ELEXON has confirmed the BSC Panel sent a letter to the CiCCoP on 20 August 2018.
- 1.5 Action closed.

ACTION 30.12

- 1.6 ELEXON agreed to report concerns (to the PAB)⁴ of Business Network Operators (BNO) Energisation not being appropriate for Settlement due to the lack of knowledge.
- 1.7 ELEXON noted that energisation of sites not owned by Balancing and Settlement Code (BSC) Parties is not a topic covered by the Issue Group looking at the Commissioning of measurement transformers. A TAMEG Member commented that clarification is required regarding whether BNOs not following recognised processes when energising connections is a BSC issue or a legal issue.
- 1.8 ELEXON agreed to look into this.
- 1.9 Action to remain open.

ACTION 31.02

¹ Following a review (post TAMEG35) of the PAB paper (PAB206/05) ELEXON has confirmed it only deals with concerns regarding ICPs in relation to commissioning measurement transformers.

² Added by ELEXON post TAMEG35 for clarification.

³ According to this web page the Energy Networks Association (ENA) is acting as Code Administrator for the CiCCoP.

⁴ Added by ELEXON post TAMEG35 for clarification.

MINUTES

- 1.10 KH agreed to investigate outstanding Non-Compliances (NCs) for CTs/VTs in the Licenced Distribution System Operator (LDSO) areas to compare with RCs CT/VT data and the National Measurement Transformer Error Statement (NMTES) to see what's missing.
- 1.11 This action will begin following the completion of ACTION 31.03 (below).
- 1.12 Action to remain open.

ACTION 31.03

- 1.13 ELEXON to take paper to the Supplier Volume Allocation Group (SVG) to get RC's data on to the National Measurement Transformer Error Statement (NMTES) so the related Current Transformer (CT)/Voltage Transformer (VT) non-compliances can be cleared.
- 1.14 ELEXON noted that 80% of data is already available on NMTES. An update will be delivered to the TAMEG following completion of the review.
- 1.15 Analysis of the data ongoing. Lack of resource time has delayed progress.
- 1.16 Action to remain open.

ACTION 32.02

- 1.17 MS noted all the issues regarding compliance certificates and agreed to set up a working group to discuss the issues in more detail to add new requirements to BSCP601⁵.
- 1.18 Due to resource issues this has not been progressed.
- 1.19 Action to remain open.

ACTION 32.08

- 1.20 A TAMEG Member advised that the Meter Operator Code of Practice Agreement (MOCOPA) labels should be used in Settlement for determination of class accuracy and CT ratios.
- 1.21 ELEXON to take paper to the Performance Assurance Board (PAB) as part of the ongoing certificate requirement work (see Agenda Item 6).
- 1.22 Action to remain open.

ACTION 33.02

- 1.23 HHMOA to carry laptops to site. The TAMEG requested that ELEXON and the TAA look into the benefits of implementing the change to guidance to instruct the MOA to carry a laptop to site.
- 1.24 KH to update the wording on the guidance note to reflect discussion at the AMO. MOAs taking laptops to site should be a suggestion not a requirement.
- 1.25 KH confirmed the guidance has now been updated and will be published in due course.
- 1.26 Action closed.

ACTION 34.01

⁵ Metering Protocol Approval and Compliance Testing

MINUTES

- 1.27 SJ agreed to investigate the request of the Aggregation Rule from the Registrant and Central Data Collection Agent (CDCA) and noted that it may involve raising a change to the TAA Local Working Instructions (LWI).
- 1.28 The TAA confirmed that a change request is not required, but the TAA LWI will need to be updated.
- 1.29 ELEXON to provide update in January TAMEG Meeting.
- 1.30 Action to remain open.

ACTION 34.02

- 1.31 SJ agreed to take the points from the discussion on "Re-classifying Category 1 Non-Compliances" away, add the extra steps to the diagram and circulate the updated diagram to TAMEG members.
- 1.32 Under Agenda item 7 at TAMEG 32 SJ noted that further amendments will be made to the diagram and it will be circulated to TAMEG via email.
- 1.33 KH agreed to circulate amended diagram to members and take output to the PAB for approval.
- 1.34 ELEXON to provide update in January TAMEG Meeting.
- 1.35 Action to remain open.

ACTION 34.06

- 1.36 The TAMEG asked ELEXON to check when the site will be Commissioned so that the Category 1 non-compliance can be closed. If there has not been any progress, ELEXON to instruct the TAA to re-visit the site and close the non-compliance if the error has been corrected.
- 1.37 At TAMEG 35 ELEXON noted the site is due to be demolished and the non-compliance subsequently be closed. The TAMEG noted it will monitor this action until completion.
- 1.38 At TAMEG 36 KH noted that the Technical Assurance Agent (TAA) has been unable to visit the site in question due to the presence of asbestos. The TAA noted that the site is due to be demolished. The TAA will continue to monitor the non-compliance until the site has been demolished. The TAMEG agreed to close this action.
- 1.39 Action closed.

ACTION 34.07

- 1.40 ELEXON to check the progress of the open Trading Dispute. If the error has been corrected, ELEXON to instruct the TAA to re-visit the site and close the non-compliance.
- 1.41 Re-inspection completed. The site was found not to be in the same condition as the original audit. ELEXON and the TAA to discuss next steps.
- 1.42 At TAMEG 36 ELEXON noted that the Trading Dispute has now been rectified and that a complex mapping table has been produced and implemented by the Half Hourly Data Collector (HHDC). ELEXON added that discussions are ongoing with TAA and the Half Hourly Meter Operating Agent (HHMOA) to acquire the information required to close the outstanding non-compliance as Settlement has already been corrected. The TAMEG agreed that this action should be closed, and the non-compliance be monitored via the Category 1 non-compliance report.
- 1.43 Action to be closed.

ACTION 34.08

- 1.44 The TAMEG requested that ELEXON complete some root cause analysis on the Trading Disputes which have been closed. This would assist the TAMEG with identifying where improvements can be made. In addition,

MINUTES

ELEXON should identify the Trading Disputes which have been raised as a result of the TAA raising a Category 1 non-compliance and notifying ELEXON and provide further detail on these where possible.

1.45 At TAMEG 35 KH noted the action is ongoing and an update will be provided at TAMEG 36.

1.46 At TAMEG 36 ELEXON commented that the Trading Dispute report has been updated.

1.47 Action closed.

ACTION 34.09

1.48 ELEXON advised that LDSOs providing electrical single line diagrams (SLDs) ahead of Inspection Visits will not be made a requirement but will be added to the guidance for arranging Inspection Visits. MS clarified where SLDs are provided these should include the location of the Boundary Point(s) and the location of Settlement measurement transformers. ELEXON to put together wording in the guidance to establish what is required from the SLD.

1.49 At TAMEG 35 ELEXON advised it is updating the guidance and in discussions with the TAA to confirm if the email sent to the LDSO needs to be updated (as LDSOs have now been included in the TAA process for post P283 installations so that they can confirm ownership or not of the measurement transformers and provide commissioning records if they do own them).

1.50 At TAMEG 36 ELEXON noted that guidance note has been updated and will be published in November.

1.51 Action closed.

ACTION 34.10

1.52 The TAMEG recommended that all non-compliances raised prior to the implementation of P283 should be closed. ELEXON took an action to investigate this and make a recommendation to the PAB.

1.53 ELEXON noted the TAMEG comments are being taken to [PAB210](#). Further investigation will take place following the PAB meeting.

1.54 ELEXON noted that discussions with the TAA did not result in a conclusive answer about closing all pre P283 commissioning related non-compliances. ELEXON advised TAMEG to provide further evidence to the PAB to demonstrate that sites are commissioned correctly.

1.55 Action to be closed

ACTION 35.01

1.56 MS noted that one LDSO had agreed to provide energisation status data following TAMEG 35. MS noted that ELEXON's compliance team had requested and received a copy of the other responses presented.

1.57 MS agreed to provide the additional information provided by that LDSO after the TAMEG 35 meeting to the ELEXON compliance team for review.

1.58 ELEXON commented that LDSO has been chased and it is still waiting for a response which will be passed to the compliance team.

1.59 Action to remain open.

ACTION 35.02

1.60 ELEXON recommended closing ACTION 32.09 and splitting it into two. Action 35.02 was to

- update to the accuracy requirements for CTs (in CoPs 3 and 5) and Meters (in CoP5).

1.61 ELEXON noted that action is to be delayed awaiting progression of 'enabling Change Procedure (CP)'.

1.62 Action to remain open.

MINUTES

ACTION 35.03

1.63 Action 35.03 was about:

- the wider changes to the requirement to provide certificates to the TAA and the process for assessment of overall accuracy of a Metering System.

1.64 ELEXON commented that action will be initially progressed as an 'enabling CP' to all other certificate related work-streams and will be discussed at future TAMEG meetings.

1.65 Action to remain open.

ACTION 35.04

1.66 Action was a duplicate, no action required.

1.67 Action closed.

ACTION 35.05

1.68 The TAMEG agreed that, in his absence at this TAMEG meeting, the Consultant to the Association of Meter Operators (AMO), TC, take an action to formally write to MOCOPA to highlight its concerns with access in regards to Settlement impacting issues.

1.69 Awaiting update from TAMEG Member following letter sent to MOCOPA.

1.70 Action to remain open.

ACTION 35.06

1.71 ELEXON noted that 16 CoP10 Metering Systems had been selected during the 2018/19 audit year as they were registered as Measurement Class C.

1.72 The TAMEG advised Registrants to complete a data cleanse of their portfolios for target MPANs which may have experienced the issue. The TAA is to continue the audit ensuring at all cases are highlighted, monitored, and will report back.

1.73 At TAMEG 36, under agenda item 5, ELEXON commented that the data cleansing exercise is ongoing.

1.74 Action to remain open.

2. Non-compliance stats report

2.1 The TAMEG discussed the non-compliance stats report.

2.2 ELEXON commented that there appear to be a higher number of Category 1.04 non-compliances (CT/VT ratio mismatches). ELEXON advised that improvements in CT/VT ratio mismatches are expected following the release of Commissioning data flows in November 2018.

2.3 ELEXON noted that the number of 'No Access' occasions reported in the non-compliance stats report is higher than usual. A TAMEG Member commented that further steps could be made to improve the rate of access for TAA site visits. A TAMEG Member advised that site access rates could be improved by improved communications between the TAA and the Registrant and that efforts should be made to ensure that the appropriate persons are contacted, notably 'key holders' when arranging site visits.

2.4 The TAA responded that the Registrant, notably the Supplier, is responsible for arranging the TAA Inspection Visit and that currently there are no obligations on the Registrant to confirm the customer has received communications regarding the TAA Inspection Visit before the TAA attends the site. This often results in TAA auditors attending sites when the customer has not previously confirmed the site visit (e.g. The TAA often see Registrant letters to the customer 'on the door mat' at unoccupied premises).

MINUTES

- 2.5 ELEXON noted that a greater amount of site information could be obtained if Suppliers were mandated to record information in existing data fields in the TAA Management Tool (TAAMT), which currently are often left blank. A TAMEG Member advised that the Supplier should be making all reasonable endeavours to contact the customer before the TAA attends site.

3. Outstanding Category 1 non-compliance report

- 3.1 The TAMEG discussed the Category 1 non-compliances from the report.
- 3.2 ELEXON reminded the TAMEG of the escalation process:
- 3.3 Once the TAA identifies a Category 1 non-compliance and notifies the relevant parties, parties have 10 Working Days (WD) to submit a rectification plan. If the TAA does not receive a response after 10WD the TAA sends a reminder to parties, after which parties have 10WD to respond before the TAA escalates to ELEXON. ELEXON noted that it can escalate outstanding Category 1 non-compliances to the PAB but this has not happened to date as responses have been forthcoming once escalated to ELEXON.
- 3.4 A TAMEG Member queried whether the escalation process has been published within the guidance documents. ELEXON responded that the PAB has approved the inclusion of escalation process flow charts.
- 3.5 A TAMEG Member queried whether non-compliances with the status 'rectified pending confirmation' are included as 'outstanding' on the non-compliance stats report. ELEXON confirmed that non-compliances with the status 'rectified awaiting confirmation' are included within the non-compliance report as they remain outstanding.
- 3.6 A TAMEG Member enquired whether there was a timescale for the TAA to resolve non-compliances with the status 'rectified awaiting confirmation'. The TAA responded that no timescale exists. ELEXON added that no Service Level Agreement (SLA) exists on the TAA to review rectification plans and noted that plan reviews can take differing amounts of time.
- 3.7 A TAMEG Member questioned whether there should be time obligations on TAA with regards to rectification reviews. The TAA responded that the status does not change if evidence has been requested and it is therefore difficult to determine which party is currently responsible for the next steps. A TAMEG Member commented that parties are unable to resolve non-compliances whilst waiting for the TAA to approve rectification plans. ELEXON to investigation SLAs with regards to TAA timescales for reviewing rectification plans and additional statuses for better transparency for the process 'next steps'.

ACTION 36.01

4. Trading Disputes report

- 4.1 The TAMEG discussed open Trading Disputes.
- 4.2 No comments.

5. Update on CoP10 Metering Systems registered in Measurement Class C

- 5.1 KH gave a verbal update on CoP10 Metering Systems registered in Measurement Class C (update captured under Action 35.06 of these minutes).
- 5.2 No comments.

6. Removal of the requirement to present calibration certificates to the TAA

- 6.1 The TAMEG discussed the requirements to present calibration certificates to the TAA.

MINUTES

- 6.2 A TAMEG Member queried whether the TAA uses a specific power factor (PF) to obtain the individual error contributions of measurement transformers when the calibration certificates do not provide errors at that PF and what value of burden is applied in the overall accuracy calculation. A TAMEG Member queried whether the TAA is able to provide examples of PFs used in the overall accuracy calculation when the information is not provided on the measurement transformer calibration certificates. The TAA agreed to send examples.

ACTION 36.02

- 6.3 A TAMEG Member noted that measurement uncertainty is often not included on the Meter certificates and added that measurement uncertainties should be on the CT/VTs certificates. A TAMEG Member enquired whether the TAA uses an average. The TAA responded that the measurement uncertainties from the Meter certificates are used when possible but the TAA will raise a query with site auditors as to their process in the December 2018 TAA auditor team briefing.

ACTION 36.03

- 6.4 ELEXON commented that it is not the TAA's responsibility to calculate the overall accuracy but to validate overall accuracy is maintained within the relevant CoP overall accuracy limits. ELEXON added that CoP4 (Section 5.5 'Commissioning') clarifies that it is the MOA's responsibility to calculate overall accuracy: "...it shall be the responsibility of the relevant MOA to ensure that the Metering System complies with the requirements of the applicable CoPs including the assessment of overall accuracy based on any evidence provided by other Parties in accordance with CoP4."
- 6.5 ELEXON noted that the proposed CP attempts to clarify that the requirement should be to ensure that the Metering System is within the overall accuracy limits defined in the CoP which it is registered against. The CP looks to remove the specific requirement for a party to hold a calibration certificate where overall accuracy can be proven using different evidence available. ELEXON added that currently Metering System Commissioning can result in three non-compliances (2.06, 2.16 and 2.17), yet following the proposed CP there will be a combined non-compliance (Category 2.06).
- 6.6 A TAMEG Member commented that all Meters should have a corresponding calibration certificate. A TAMEG Member added that batch calibration certificates should not qualify as being compliant and that all Meters should have independent calibration certificates. A TAMEG Member concluded that the industry could be at risk of reducing accuracy of Meters.
- 6.7 A TAMEG Member commented that the majority of CVA sites that had been constructed between 1950 and 1990 are unlikely to hold measurement transformer calibration certificates. A TAMEG Member suggested that a proposal could be made to exclude obligations from historic sites. A TAMEG Member added that the introduction of CoP5 in 1993 would make a good 'post and retrospective' date for calibration certificate obligations.
- 6.8 ELEXON noted that more evidence is required before a proposal regarding calibration certificates can be presented to the PAB. ELEXON recommends that an email is sent out asking for TAMEG Members opinions and suggestions with responses to be discussed at the January TAMEG.

ACTION 36.04

7. PAT Review Update

- 7.1 ELEXON noted that the review of the Technical Assurance of Metering (TAM) Performance Assurance Technique (PAT) will include a re-evaluation of the sample size, methodology and resource delivery of the TAA. ELEXON advised that a working group to discuss the TAM review is to be held 30 November 2018.
- 7.2 ELEXON commented that if TAMEG Members wish to attend the working group they should contact Nathan Flood at ELEXON or [PAF Review 'at' elexon.co.uk](mailto:PAF_Review@elexon.co.uk).

MINUTES

8. AOB

- 8.1 A TAMEG Member commented that they had received a phone call regarding Building Network Operators (BNO) using non-standard ferrule numbers for measurement transformer wiring, at interfaces, on High Voltage sites. A TAMEG Member noted that it is a MOCOPA obligation to ensure that installation specifications are followed (Technical Specification 50-19), yet if installations are affecting Settlement then it falls under ELEXON governance.
- 8.2 ELEXON commented that there is some reference in the guidance documents that are to be published in November 2018 as to the standard 'pole orientation' for measurement transformers, but it is not currently in any CoP. A TAMEG Member commented that the CoP should be updated to include orientation of measurement transformers. ELEXON commented that before further action is pursued, National Grid should be consulted.

ACTION 36.05

- 8.3 A TAMEG Member enquired if any applications had been submitted for CEWE Prometer 100. ELEXON confirmed that an application had been received, reviewed and sent back and it is awaiting feedback. ELEXON added that a CP is being submitted to ISG in November or December to update BSCP601 to ensure it reflects the 'mega/kilo' switching requirements in CoP3 and CoP5.

9. Next Meeting

- 9.1 The next meeting (TAMEG 37) is scheduled for 10.00 am Wednesday 16 January 2019, at ELEXON.
- 9.2 **Post meeting note:** TAMEG 37 has been postponed until 17 April 2019.