

MINUTES

MEETING NAME TECHNICAL ASSURANCE OF METERING EXPERT GROUP

Meeting number	35
Date of meeting	18 July 2018
Venue	ELEXON Ltd
Classification	Public

ATTENDEES AND APOLOGIES

Attendees	Mike Smith	MS	TAMEG Chair
	George Player	GP	Technical Secretary
	Kat Higby	KH	ELEXON
	Chris Day	CD	ELEXON
	Jason Jackson	JJ	ELEXON
	Michael Taylor	MT	ELEXON
	Richard Turner	RT	EDF Energy
	Colin Gentleman	CG	SSE
	Rebecca Gaskill	RG	SSE
	Stephan Cuddihey	SC	UK Power Networks
	Ron Cook	RC	Independent Expert
	Kevin Walker	KW	E.On
	Anthony Smith	AS	IMServ
	Anthony Hobbs	AH	Siemens (Telephone)
	Lisa Young	LY	C&C Group (TAA)
Apologies	Alistair Barnsley	AB	E.On
	Calvin MacFarlane	CM	Npower
	John Noble	JN	EDF Energy
	Dave Siggers	DS	EDF Energy
	Dan Rynne	DR	IMServ
	Bob Dryden	BD	Npower
	Nicholas Sawyer	NS	Npower
	Warren Lacey	WL	Northern Powergrid (Alt)
	Simon Voyse	SV	Northern Powergrid
	Tom Chevalier	TC	Association of Meter Operators (AMO)
	Paul Gregory	PG	C&C Group (TAA)
	Stuart Jackson	SJ	C&C Group (TAA)

MINUTES

ADMINISTRATION

1. Minutes and Actions

- 1.1 The minutes for the Technical Assurance of Metering Expert Group (TAMEG) 34 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 A Balancing and Settlement Code (BSC) Party has raised a BSC Issue for Commissioning of non-BSC Party owned current transformers (CTs) and voltage transformers (VTs). ELEXON will investigate to see if this Issue will deal with BNOs too.
- 1.4 In addition, ELEXON took a paper to the PAB, regarding ICPs, who suggested that the Panel raise their concerns with the [Competition in Connections \(CiC\) Code of Practice Panel](#)³. This is currently in progress and will be tabled at the BSC Panel meeting on 9 August 2018.
- 1.5 Action to remain open.

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 A TAMEG member noted BNOs are advising all rectifying works following installation are the Meter Operator Agent's (MOA's) commercial liability. The MOAs noted they cannot complete rectification work as they do not own the equipment.
- 1.8 Action to remain open.

ACTION 31.02

- 1.9 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.
- 1.10 This action will begin following the completion of ACTION 31.03.
- 1.11 Action to remain open.

ACTION 31.03

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 CiC Code of Practice.

⁴ Added by ELEXON post TAMEG35 for clarification.

MINUTES

- 1.12 ELEXON will take a paper to the Supplier Volume Allocation Group (SVG) to get RCs data on to the NMTES so the related CT/VT non-compliances can be cleared.
- 1.13 ELEXON received the requested data from RC. CD is completing a review of the data provided by RC (and additional information provided by David Brown) to ensure the information is added to the NMTES. The initial review suggests that 80% of data is already available on NMTES. An update will be delivered to the TAMEG following completion of the review.
- 1.14 Action to remain open.

ACTION 32.01

- 1.15 MS agreed that ELEXON will speak to LDSOs to ask them to check their de-energised HV sites. Should LDSOs identify sites which have the wrong energisation status, they should amend them so that they will be included in the TAA main sample for audit purposes.
- 1.16 MS presented the findings at the TAMEG 33 meeting. A TAMEG member suggested that at least one LDSO had misunderstood what had been requested. MS agreed to re-ask LDSO/IDNOs.
- 1.17 After re-asking LDSO/IDNOs MS circulated the responses he received just prior to TAMEG 35. MS noted only a few discrepancies between what the LDSO/IDNOs thought the physical energisation status was for de-energised HV MPANs vs what the logical status was. MS noted that one LDSO had agreed to provide data following TAMEG 35. MS noted that ELEXON's compliance team had requested and received a copy of the responses presented.
- 1.18 Action closed.
- 1.19 MS agreed to provide the additional information provided by that LDSO after the TAMEG 35 meeting to the ELEXON compliance team for review.

ACTION 35.01 MS

ACTION 32.02

- 1.20 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.
- 1.21 As mentioned at previous TAMEG meetings the ELEXON change team are progressing many changes so the priority is to progress changes raised by BSC Parties first - Action to remain open.

ACTION 32.08

- 1.22 MS agreed to ask ELEXON to instruct the TAA to accept Meter Operation Code of Practice Agreement (MOCOPA) labels.
 - 1.23 ELEXON not that only one TAMEG member had provided comments to ELEXON's analysis paper that was sent to TAMEG members by email prior to the TAMEG 34 meeting. ELEXON agreed to re-circulate the email to TAMEG members. Once further comments are received, ELEXON will make a recommendation to the PAB.
 - 1.24 Action to remain open.
-

⁵ Metering Protocol Approval and Compliance Testing

MINUTES

ACTION 32.09

- 1.25 ELEXON agreed to add this proposed solution (Class 0.5s CTs for Codes of Practice (CoPs) 3 and 5) to the proposal to change the Meter class accuracy requirement for CoP5 to class 1.0 and discuss the solution in the certificates working group (which has been proposed to assist with not having to present certificates to the TAA when it calculates and ensures overall accuracy is maintained).
- 1.26 ELEXON recommended closing ACTION 32.09 and splitting it into:
- updates to the accuracy requirements for CTs (in CoPs 3 and 5) and Meters (in CoP5); and
 - the wider changes to the requirement to provide certificates to the TAA and the process for assessment of overall accuracy of a Metering System.
- 1.27 Action closed.

ACTION 35.02 CD

ACTION 35.03 CD

ACTION 32.10

- 1.28 MS agreed to investigate what LDSOs and transmission companies currently specify for the rated burdens for CT/VTs for metering, so ELEXON can provide guidance to Parties going forward.
- 1.29 MS to provide an update in TAMEG 35 – See Agenda Item 9.
- 1.30 Action closed.

ACTION 33.02

- 1.31 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.
- 1.32 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.
- 1.33 July update – KH has booked out the relevant guidance and will update the wording prior to the next TAMEG meeting.
- 1.34 Action to remain open.

ACTION 34.01

- 1.35 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).
- 1.36 The TAA confirmed that a change request is not required, but the TAA LWI will need to be updated.
- 1.37 July Update - ELEXON to update the TAA LWI and guidance on the website. ELEXON to update TAMEG by email once this has been completed
- 1.38 Action to remain open.

ACTION 34.02

- 1.39 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.
- 1.40 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.
- 1.41 July update - KH to circulate amended diagram to members and take output to the PAB for approval.

MINUTES

1.42 Action to remain open

ACTION 34.03

- 1.43 The TAMEG discussed whether phase failures are being identified by HHDCs. ELEXON to look into the findings from the Fault Investigation TAPAP (conducted in 2013).
- 1.44 KH confirmed that she had investigated the information surrounding the TAPAP conducted in 2013 but was unable to find that the backing data behind the report. ELEXON recommended investigating Trading Dispute root causes for phase failures instead (under ACTION 34.08).
- 1.45 The TAMEG noted it has concerns with alarm flags being reported and resolved. A TAMEG member noted failure alarms will be noted in the data received by Data Collectors (DCs), and they should notify the Registrant.
- 1.46 Action closed.
- 1.47 MS read an email received from BD regarding phase fail reporting. BD's company has done initial analysis and identified a number of ex PC 05-08 sites which are now settled Half Hourly (HH). The next part of the exercise will be to test the end to end process including;
- is the Meter capable of recording phase fail;
 - has phase fail functionality been set-up in the Meter;
 - is there currently phase fail flagged.
- where phase fail is flagged;
- has the HHDC detected the phase fail flag; and
 - has the HHDC sent a D0001 with SVCC 08 to MOA and Supplier.
- once the MOA has been to site to rectify phase fail
- has the MOA sent D0002 to the HHDC and Supplier.

ACTION 34.04

- 1.48 ELEXON took an action to establish whether the new time drift thresholds have been applied by the TAA, and if not to close any non-compliances raised in error so far in 2018/19.
- 1.49 KH confirmed that the TAA had applied the new thresholds, and whilst there was carry over into Audit year 2018/19, these have since been identified and resolved.
- 1.50 Action closed.

ACTION 34.05

- 1.51 ELEXON took an action to instruct the TAA to close the existing Category 1 non-compliance and raise a Category 2.15 non-compliance because no Commissioning record had been provided for the replacement Meter.
- 1.52 The outstanding Category 1 non-compliance has been closed as the supply has been disconnected.
- 1.53 Action closed.

ACTION 34.06

- 1.54 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.

MINUTES

1.55 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.

1.56 Action to remain open.

ACTION 34.07

1.57 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.

1.58 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.

1.59 Action to remain open.

ACTION 34.08

1.60 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, 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.

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

1.62 Action to remain open.

ACTION 34.09

1.63 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.

1.64 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).

1.65 Action to remain open.

ACTION 34.10

1.66 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.

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

1.68 Action to remain open.

ACTION 34.11

1.69 Access to HV substations. A TAMEG member agreed to raise this at a MOCOPA meeting and requested ELEXON attendance to support. ELEXON agreed to attend the MOCOPA meeting and provide support as failure to gain access to Meters located within HV substation compounds can impact on the Registrants ability to ensure Meters are maintained (and calibrated) and faults rectified.

1.70 ELEXON attended the MOCOPA Review Panel meeting on 27 June 2018 to support a TAMEG member who, in the end, could not attend. ELEXON reported back to the TAMEG that the Review Panel had confirmed that

MINUTES

MOAs should have access to the sites and should not be charged for access and this is clear in the Agreement (i.e. MOCOPA). A TAMEG member noted this is a MOCOPA issue, and if access is not granted this should be escalated to MOCOPA. 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.

1.71 Action closed.

ACTION 35.05 TC

ACTION 34.12

1.72 TC asked for Beth Brown to attend the next TAMEG meeting to explain how the PAF review will fit in with the TAA contract and re-procurement. The TAMEG chair will request that Beth Brown attends the next meeting.

1.73 MS confirmed that JJ would provide an update at this meeting – See Agenda Item 6.

1.74 Action closed.

2. Non-compliance stats report

2.1 A TAMEG member commented only one Category 1 non-compliance was recorded in the Q1 which is positive. The Category 1 non-compliance was non-material.

2.2 The TAMEG noted a concern that smaller Suppliers may not be arranging access for the TAA at Inspection Visits. The TAA is to follow up on Inspection Visit notifications with a phone call to Registrants to assist with an improvement in 'no access'. The Error Failure Resolution (EFR) technique can be used for Parties seen to be repeatedly failing to do enough to prevent 'no access'.

3. Outstanding Category 1 non-compliance report

3.1 The TAMEG discussed the Category 1 non-compliances from the report.

3.2 No comments.

4. Trading Disputes report

4.1 The TAMEG discussed open Trading Disputes.

4.2 A TAMEG member questioned one of the Trading Disputes which has been open since 2016. ELEXON advised that until root cause analysis is done on the Trading Disputes there is insufficient detail of the specific errors causing Trading Disputes. ELEXON is to complete root cause analysis to look for a trend and investigate if this is an isolated incident. ELEXON noted it is currently reviewing closed disputes for the last 3 months with a view to expand this to faulty Meter disputes.

5. PAF Review – Review of TAM Assurance Technique (Action 34.12)

5.1 JJ noted that a review of the TAM technique will be completed as part of the Performance Assurance Framework (PAF) review, recommendations will be delivered to the TAMEG prior to the procurement process, in Q3 of 2018. The recommendations provided by TC and the AMO have been taken into consideration, and a number of recommendations are being taken forward for industry feedback. Member of the TAMEG were invited to join the [Issue 69 Working Group](#) to provide their expertise.

6. CoP10 Metering Systems Registered as Measurement Class C

6.1 ELEXON noted that 16 CoP10 Metering Systems had been selected during the 2018/19 audit year as they were registered as Measurement Class C. The TAA had instructed the HHDC to select CoP5 from drop don list in the TAA Management Tool (TAAMT) in order to load the Meter Technical Details (MTDs). This paper

MINUTES

invited the TAMEG to to discuss whether the TAA should select an alternative site for inspection or continue this practice which may require a change to the TAA Management Tool (TAAMT).

- 6.2 A TAMEG member noted the issue may arise from P272⁶ sites which have been transferred to HH with legacy meter technical details retained. A TAMEG member noted that the issue has persisted for two months, but the number of instances is expected to increase. 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 all cases are highlighted, monitored, and will report back.

ACTION 35.06 KH/TAA

7. Rated burden for measurement transformer for settlement purposes (Action 32.02)

- 7.1 MS presented the responses to four questions on rated burden which had been sent out to transmission and distribution companies (LDSOs and IDNOs). The majority of companies who responded confirmed they do specify rated burdens in their own documents and the majority agreed that further guidance (but not too specific) could be added to the CoPs. One distribution company representing two LDSOs did not agree the CoPs would be an appropriate place to specify the rated burden requirements for current and voltage transformers for Settlement metering. The TAMEG noted advice on cable size and length is required as the burden on the measurement transformer has become negligible. The TAMEG noted that there is guidance available from MOCOPA, and additional guidance will be a duplication of work. The TAMEG agree to leave the guidance in its current form.

- 7.2 Action closed.

8. AOB

- 8.1 AH noted the extensive testing and cost required when bringing a Meter to the market, including the charges to change Translation Interface Modules (TIMs) for data collection system to allow for interoperability (i.e. the Supplier may have a limited choice of DCs because other DC don't have the protocols implemented and approved). AH noted the costs involved could form a barrier to introducing a new Meter types to the market, and requested the [BSCP601](#) review group, and the Panel Committees investigate. MS noted this is outside of the remit of the TAMEG but would highlight the issue to the contract manager for the Central Data Collection Agent (CDCA) as this is a BSC Agent that ELEXON appoints and if the cost of implementing new or updated TIMs is becoming prohibitive and limiting the availability of new Meter types in CVA, because manufacturers are unwilling to cover the costs of getting TIMs developed (if they do), then this could be looked at.

9. Next Meeting

- 9.1 The next meeting (TAMEG 36) is scheduled for Wednesday 17 October 2018, at ELEXON.

⁶ Mandatory Half Hourly Settlement for Profile Classes 5-8.