Technical Assurance of Metering

How to rectify common non-compliances

You will find this guidance useful if you are;

- A Registrant,
- A Supplier
- A Party Agent, or
- A Licensed Distribution System Operator

This guidance will help you learn more about rectifying non-compliances raised under the Technical Assurance of Metering (TAM) process by the Technical Assurance Agent (TAA).

You can find the obligations that you need to adhere to for the Technical Assurance of Metering in Section L, of the BSC: Metering and BSCP27: Technical Assurance of Metering.

Further information on the types of Non-compliances can be found in the Categories of Common Non-compliance guidance.

What is the Technical Assurance of Metering?

The TAM is a detective assurance technique. It's described in Section L of the BSC and in BSCP27. The process involves inspecting a sample of Half Hourly (HH) Metering Systems by the TAA.

The TAA checks the HH Metering Systems for compliance to the appropriate obligations in the BSC and Code Subsidiary Documents (CSDs). There are different sample types:

- 1% of the HH Supplier Volume Allocation (SVA) Metering System population,
- 5% of the HH Central Volume Allocation (CVA) Metering System population,
- A 'specific sample' designed to look at particular areas of risk to the HH Metering System population, and is directed by the Performance Assurance Board (PAB). This can be up to 20% of the HH SVA sample.

If Non-compliances are raised, the **responsible party** (clarified further in Appendix A) is expected to rectify them at the inspection, or by providing a rectification plan to the TAA and carrying it out within the required timescales. The details of the Non-compliances and rectification plans are held in the TAAMT and the Common Categories of Non-compliances guidance.

What needs to be rectified?

Non-compliances fall under one of four categories, all of which need to be addressed:

- **NC (or NP):** A Consumption Data Comparison Check (CDCC) is performed. The TAA takes data directly from the Metering System, and directly compares this data with that taken by the DC. A non-compliance is applied where the two sets of data do not match.

- Where it can't be performed NP is recorded, this does not need to be rectified.
- **Category 1:** affects the quality of data for Settlement purposes.
- **Category 2:** potentially affects the quality of data for Settlement purposes (but doesn't currently affect it).
- **Observation:** inconsistencies with Code of Practice (CoP) requirements, but doesn't affect, or potentially affect the quality of data for Settlement purposes.

If you need to prioritise any rectifying action, priority should be given to the CDCC and category 1 non-compliances first because these pose a higher risk to the data entering Settlement.

What else do I need to know?

Before a TAA Inspection visit

Pre-Audit Meter Exchanges

The TAA comes across Metering Systems where replacement (on or off site) or alteration work has taken place between notification of the audit and the day of the inspection visit. As a result, the Meter Operator Agent (MOA) updates and resends the Meter Technical Details (MTDs) to the required parties.

When the TAA performs the Inspection Visit, the Data Collector (DC) has not always received the MTDs from the MOA or uploaded the new MTDs correctly and in time for the TAA to see the updated MTDs. This can lead to a non-compliance being recorded against the DC because it has incorrect MTDs, though this is not the fault of the DC.

We recognise that there are some occasions where such work is necessary (e.g. because of a fault or emergency work etc.). Where this is the case, to rectify the non-compliance, you should advise the TAA through the normal process, providing evidence of the correct MTDs and the reason that the work took place.

In all other circumstances, please refrain from doing such work between notification of and the performing of an Inspection Visit. This approach has been endorsed by the PAB.

The TAM technique checks a sample of the HH Metering System population. We use the data from this technique to extrapolate trends and findings for the entire population. We need to ensure that all pre-audit visits and alterations are genuine, to avoid skewing the results, and in some cases causing further, more serious, non-compliances.

MTDs from Supplier Agents - provision to the TAA

MTDs can be input into the TAAMT using the online form (for a CoP 5 Metering System) or adding the MTDs to the inspection visits as a file, or by emailing the TA Helpdesk. For help in completing this, please contact taa_servicedesk@candc-uk.com or have a look at the help files in the HELP tab of the TAAMT.

If you are providing MTDs for a CVA site, CoP1, 2, or 3 Metering System, or for a SVA site with a Complex Supplementary Site Information Form, these files still need to be uploaded to the TAAMT. The TAA will process can process them manually.

If you're not sure how this process works and / or need access to the TAAMT please contact the TAA (taa_servicedesk@candc-uk.com) or email tametering@elexon.co.uk and we will provide access and education on using the system.

We are working with the TAA and industry to look at efficiencies for this process e.g. how we can decrease manual intervention and continually work on improving all aspects of the service.

Providing Measurement Transformer Certificates – using the National Measurement Transformer Error Statement (NMTES)

If you have exhausted all routes (as described in BSCP27 Section 4) to obtain Measurement Transformer Certificates for the Metering System to be Inspected, you can look at the NMTES to see if the particular Type, Ratio, Manufacturer, Class and Rating (VA) of the measurement transformer is listed.

To do this:

1. First identify whether the particular CT is on a LV circuit (i.e. below 1000v) or a HV circuit (above 1000v);

   In other words determine whether it is an 'LV CT' or an 'HV CT'. If you are missing a certificate for a VT then by definition this will be on a HV circuit so just look up 'VT'.

2. Then you need to compare the Ratio of the installed measurement transformer and see if one with a similar ratio is listed.

   - With multi-ratio CTs and VTs you need to make sure the ratio selected on site matches the ratio underlined in the NMTES Ratio column. This is because the underlined number indicates the primary to secondary ratio for which the generic Error listed relates (e.g. 100/50/5 means that the generic Error quoted relates to a 100/5 setting on the CT and not the 50/5 setting).

3. Next confirm the Manufacturer's name matches one of those listed.

4. Then check that the measurement transformer is of the appropriate accuracy Class.

5. If the Rating of the measurement transformer matches what's listed in that particular row of the NMTES then you can clear that certificate related non-compliance as you will have identified a generic certificate for the measurement transformer.

6. You can then communicate to the TAA that you have followed these steps and that a generic certificate exists for this Metering Equipment in the NMTES, you must tell the TAA which record on the NMTES you have used.

ELEXON directed the TAA to permit Measurement Transformer certificates of a similar age, make and model for CoP three and five Metering Systems, this process aligns with that used for CoP 1 and 2 Metering Systems.

After the TAA Inspection Visit

Timescales for rectifying Non-compliances

When you are notified that a NC has been applied, you must either rectify it immediately, or provide a rectification plan to the TAA (preferably via the TAAMT) within **ten working days**, as per BSCP27. The plan should indicate the actions you are going to take to rectify the non-compliance with associated timescales. We expect that non-compliances should be rectified within reasonable timescales, in particular Category 1 non-compliances.

The TAA monitors and manages the process for obtaining 'missing' rectification plans. Where the TAA feels that rectification plans and actions have not been completed in a timely manner, he will escalate this to ELEXON.

The TAA also monitor and chase all outstanding Category 1 non-compliances. The TAA report on progress to ELEXON on a monthly basis, in turn ELEXON report progress to the PAB.

The PAB reviews **TAM performance metrics** of both Registrants and MOAs on a monthly basis. Where a party is consistently underperforming, the Error and Failure Resolution process is likely to be applied.

It is important that issues are rectified as soon as operationally possible, in particular for Category 1 Non-compliances. If a non-compliance has resulted in Settlement Error, a Trading Dispute can be raised through the procedures set out in BSCP11: Trading Queries and Trading Disputes.

Using the NMTES to rectify non-compliances (non-provision of measurement transformer certificates and overall accuracy not maintained)

If you have received a non-compliance for non-provision of a measurement transformer certificate (2.16) then you may be able to clear this by looking up the NMTES:

To do this:

1. Follow steps 1-5 under 'Providing Measurement Transformer Certificates – using the National Measurement Transformer Error Statement (NMTES)'

2. After completing steps 1-5, you can then provide a rectification plan for the TAA to review with your evidence.

3. If you have a non-compliance related to overall accuracy not being maintained because certain certificates are missing (category 2.06), you might be able to use steps 1-5 to see if the measurement transformer in question is listed on the NMTES.

    - Where this is the case you can use the Error figure associated with it to help clear the 'overall accuracy not maintained' non-compliance.

4. Provide a rectification plan for the TAA to review with your evidence.

NB. You may not be able to clear the non-compliance in all cases as other certificates may still be missing, e.g. the meter certificate.

Providing evidence of rectification to the TAA

When all actions have been taken to rectify the non-compliance, evidence must be provided to the TAA. If the TAA requires more evidence from you, he will request it. The TAA considers and records the non-compliance as resolved and closes it as appropriate.

Because of the nature of different types of non-compliances, different types of evidence are required. Appendix A details the appropriate evidence.

Collaborative responsibilities

Many of the actions to rectify non-compliances require a collaborative approach by those involved. For example:

- Where a CT / VT needs replacing, the MOA is assigned responsibility in the TAAMT. However, to replace the CT / VT the MOA and LDSO need to work closely to complete the actions.

- Where certificates for Metering Equipment are required, the MOA and LDSO need to work collaboratively to provide to the TAA.

When a category 1.01 is assigned to the DC, the DC needs to work closely with the MOA to get accurate MTDs into its system by requesting the MOA investigate why it has the incorrect MTDs. The MOA must respond by sending accurate MTDs (post investigation and update if necessary). The Supplier may need to co-ordinate this approach.

Commissioning after changes to Metering Equipment

If a MOA alters, replaces or updates the Metering System, it must be commissioned. This is a requirement set out in the BSC and the Metering Code of Practice (CoP) 4.

Commissioning provides assurance that the system will record data for Settlement purposes accurately. If commissioning is not, or is partially / incorrectly performed, this can result in errors entering Settlement.

There can be a financial and reputational impact to Industry where errors occur.

Do I need to seek Metering Dispensation Approval?

For financial or practical reasons, it may not be possible for Metering Equipment to comply with a Code of Practice. To avoid a non-compliance for such instances, the Registrant should apply for a Metering Dispensation. Section L of the BSC and BSCP32 contain obligations and requirements for Metering Dispensations.

Section L allows for generic Metering Dispensations to be applied to any item of Metering Equipment. For further information about current generic Metering Dispensations, refer to the Statement of Generic Metering Dispensations document.

BSCP32: Metering Dispensations defines the interfaces and timescales for Metering Dispensation applications, as well as providing the application forms.

We hold a register of specific dispensations, both confidential and not.

What other information is available?

- BSC Section L: Metering
- BSCP27: Technical Assurance of Metering and appropriate Metering Codes of Practice
- Categories of common non-compliance guidance
- TAA Working Instruction Documents - These are documents that detail the process for the TAA Inspector to refer to when assessing a Metering System for compliance to the BSC and its Code Subsidiary Documents. They also provide assurance that the Inspectors follow a consistent approach. These documents are published on the Technical Assurance of Metering page of the BSC Website.
- The Technical Assurance Agent Management Tool - www.elexon-assurance.co.uk

Appendix A

How do I rectify Non-compliances and whose responsibility is it?

The following table shows:

- The common non compliances raised by the TAA
- Who is responsible for fixing them
- Which standard rectification plan should be used in the TAAMT
- What actions we recommend to rectify these non-compliances

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
NC	Comparison Identified inconsistent data. Consumption data held by Data Collector outside tolerance when compared with metered energy data.	✓		✓	Other	This will affect the quality of data entering into the Settlement process. To rectify this NC the DC will need to work with the MOA to confirm / resolve site arrangements. The MTDs must be updated as necessary and be re-issued to the required participants as set out in the relevant BSC documentation. The relevant fault investigation process is adequate for supporting this process. Re-commissioning must occur and updated MTDs and applicable evidence should be provided to the TAA.
Inaccuracy of Standing Data (Key MTD fields) held by Data Collector						
1.01	Meter Id (Serial Number) Outstation number of channels	✓		✓	Provide correct D0268 Data (SVA)	If these data items are incorrect in the DC system, it will affect the way the data is translated

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
	Measurement Quantity Id Pulse Multiplier Channel configuration Outstation multiplier / Outstation channel multiplier Complex Site Supplementary Information Form (SVA only)				Other (CVA – provide corrected MTDs as per BSCP20)	from the Metering System and entered into the Settlement process. To rectify this, NC the DC will need to work with the MOA to confirm site arrangements and ensure that they are adequately reflected in the MTDs before being loaded into the DC system. The MTDs must be updated as necessary and be re-issued to the required participants as set out in the relevant BSC documentation, as necessary. The relevant fault investigation process is adequate for supporting this process. Re-commissioning must occur, as necessary, and any updated MTDs and applicable evidence should be provided to the TAA.
Metering Equipment Incorrect or Unsatisfactory						
1.02	Metering Equipment not functioning correctly Metering Equipment not programmed correctly Overall accuracy of Metering System not maintained Summation CTs used Correct Energy Measurement Check (Primary/Secondary conductor prevailing load test) indicates an error in the metered volume	✓	✓		Change / Replace the metering System Equipment	Errors of this nature affect the quality of data that enters Settlement and as such must be rectified. Rectification of this NC requires a change/exchange to the Metering Equipment. Attendance and rectification by the relevant SO may be required. The MTDs must be updated, as necessary, and be re-issued to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA. Alternative actions may be to seek Metering System Dispensation approval through the relevant process.

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
Timing Error (Major)						
1.03	Outstation clock outside of agreed tolerance	✓	✓	✓	Correct the Metering System Clock	MOA must work with the DC to investigate and correct any clock drift exceeding the parameters set out: CoP 1 >± 30 seconds, CoP 2 >± 30 seconds, CoP 3 >± 1 minute, Cop 5 >± 2 minutes. If the Meter or Outstation clock is continually falling outside these tolerances, then it may be appropriate to replace the equipment entirely. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
Measurement transformer Ratios Physically Incorrect						
1.04	Measurement transformer ratios different from those set up in Meter (save for any difference being consistent with a measurement error compensation applied within the metering Equipment)	✓	✓		Change / replace Metering System Equipment Provide correct D0268 Data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	To rectify this NC the MOA is required to re-programme the Meter and update MTDs as necessary, reissuing to required participants as set out in the relevant BSC documentation. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
Compensation Calculations Incorrect						
1.05	Meter compensation for Measurement Transformers incorrectly applied or not applied	✓	✓		Change / replace Metering System Equipment Provide correct	The MOA must apply the Meter compensations correctly. This NC indicates that no commissioning had taken place (if it had, it would have shown the error). The MTDs must be

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		Registrant	MOA	DC		
	Meter compensation for Power Transformers incorrectly applied or not applied				D0268 Data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	updated as necessary and be re-issued to the required participants as set out in the relevant BSC documentation. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA. The MTDs must be updated as necessary and be re-issued to all parties in line with the BSC.
Inaccuracy of Standing Data held by Meter Operator Agent						
2.01	Outstation serial number	✓	✓		Provide correct D0268 Data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	It is the MOAs obligation to ensure the MTDs are accurate and correct. Where the MOA MTDs do not match the equipment on site the MOA must update the MTDs, as necessary, and re-issue to the required parties in line with the BSC. Evidence of rectification should be provided to the TAA.
	Meter Id (serial number)					
	Outstation number of channels					
	Measurement Quantity Id					
	Meter Register Multiplier					
	Pulse multiplier					
	Channel configuration					
	Outstation multiplier / Outstation channel multiplier					
	Measurement Transformer Ratios					
	Complex Site Supplementary Information Form (SVA only)					
Inaccuracy of Standing Data (non-Key MTD fields) held by Data Collector						

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
2.02	Data Collector's Meter Technical Details do not match on site equipment due to recent Meter Exchange				Provide correct D0268 Data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	Ensure the Meter exchange is genuine, as a result of the fault investigation or tamper investigate process. The MTDs must be updated as necessary and be re-issued to the required participants as set out in the relevant BSC documentation. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
	Other non-Key fields (e.g. Measurement Transformer Ratios & Meter Register Multiplier)					MOA may need to work with the LDSO to ensure that this NC is rectified. The MTDs must be updated as necessary and be re-issued to the required participants as set out in the relevant BSC documentation. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
Non-provision of Standing Data						
2.03	Meter Technical Details not provided – Meter Operator Agent and Data Collector	✓	✓	✓	Provide correct D0268 Data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	The MTDs must be provided to the TAA for inspection. BSCP27 states that all MTDs must be provided prior to the inspection visit, except for the MOA who may take these details to the inspection visit.
2.06	Incorrect CoP applied				Change / replace Metering System Equipment Provide Correct D0268 Data (SVA)	MOA must apply the correct CoP. Re-commissioning must occur where changes to the physical set up of the Metering Equipment have taken place and evidence should be provided to the TAA. Any updated MTDs must be provided to all parties in line with the BSC.

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
	Check Meter missing				Other (CVA – provide corrected MTDs as per BSCP20)	MOA must ensure that where the CoP requires, a check meter is both fitted and detailed in the MTDs. Any updated MTDs must be provided to all parties in line with the BSC. After all necessary work re-commissioning must occur and evidence should be provided to the TAA.
	Main Meter missing. Check Meter present and accurate					This may be an administrative or a physical NC or both. Where it is administrative, rectification requires the MTDs to be updated and these must be provided to all parties in line with the BSC. If the NC is physical, the MOA must ensure that the Metering System complies with the appropriate CoP and update the MTDs. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence must be provided to the TAA.
	Meter accuracy class incorrect					MOA must apply the correct meter accuracy class to the Meter. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
2.06 Cont'd	CT accuracy class incorrect				Change / replace Metering System Equipment Provide Correct D0268 Data (SVA)	MOA must apply the correct CT accuracy class to the Meter. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
	VT accuracy class incorrect				Other (CVA – provide	MOA must apply the correct VT accuracy class to

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
					corrected MTDs as per BSCP20)	the Meter. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
	Voltage selection relay not installed/working when summation CT's used					MOA must repair or replace the voltage selection relay or install one if necessary. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
	Possibility that overall accuracy of Metering System not maintained					Supplier and MOA (with assistant of the relevant SO) must provide all documentation to enable Overall Accuracy to be calculated. Failing that the NMTES should be used where applicable in the SVA Market. If the NC is the result of a physical metering problem, the MOA and the relevant SO will need to replace the Metering Equipment or adjust the Meter to compensate if possible. The MTDs must be updated as necessary and be re-issued to the required participants as set out in the relevant BSC documentation. Re-commissioning must occur and evidence should be provided to the TAA.
2.06 Cont'd	Unapproved data format and protocol in use				Change / replace Metering System Equipment Provide Correct	This NC requires that the Meter or Outstation is replaced. The MTDs must be updated and re-issued to the required participants as set out in the relevant BSC documentation. Re-commissioning must occur and evidence should

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
					D0268 Data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	be provided to the TAA.
Unsuitable Environment						
2.08	Environmental conditions likely to cause Metering Equipment failure				Other (Please provide a description when submitting your rectification plan)	MOA and Supplier must arrange to either move or protect the Metering Equipment. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
Inadequate Over-current Protection						
2.09	Insufficient discrimination between source and local fusing				Change / replace Metering System Equipment Provide corrected D0268 data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	MOA must ensure that the fusing set up is correct. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
	No local isolation					MOA must ensure that isolation is provided at the Meter in line with CoP requirements. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
	Main and check Meters not separately fused					MOA must ensure that main and check meters are separately fused. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
						evidence should be provided to the TAA.
	Other Metering Equipment not separately fused					MOA must ensure that all aspects of the Metering Equipment are separately fused. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
	Non-Settlement Meters not separately fused					MOA must ensure that all aspects of the Metering Equipment are separately fused. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
Separate Phase Failure Alarms Not Installed or Inadequate / Failed – Local and Remote						
2.10	Alarm not fitted where required Alarm not functioning	✓	✓		Change / replace Metering System Equipment Provide corrected D0268 data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	MOA must exchange the Meter for one that has a phase alarm fitted. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur and evidence should be provided to the TAA.
Inadequate Metering Equipment Integrity						
2.11	Settlement Metering Equipment not sealed	✓	✓		Change / replace Metering System Equipment	MOA must ensure that Metering Equipment is sealed in line with the CoP and MOCOPA (SVA) / BSC (CVA) provisions. Re-commissioning must occur, as necessary, and evidence should be

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
					Provide corrected D0268 data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	provided to the TAA.
	Password functionality not included in Outstation					MOA must ensure that the outstation has password capability if required. Any updated MTDs must be provided to all parties in line with the BSC. Re-commissioning must occur, as necessary, and evidence should be provided to the TAA.
Timing Error (Minor)						
2.14	Outstation clock outside agreed tolerance	✓	✓	✓	Correct the Metering System Clock Provide Corrected D0268 data (SVA) Other (CVA – provide corrected MTDs as per BSCP20)	The DC must trim the clock to correct. Where meters do not allow this to be done in one instance, then it must be done progressively. CoP 1 ± 20 seconds to 30 seconds CoP 2 ± 20 seconds to 30 seconds CoP 3 ± 20 seconds to 1 minute CoP 5 ± 20 seconds to 2 minutes If the Meter or Outstation clock is continually falling outside these tolerances, then it may be appropriate to investigate further following the relevant fault investigation process set out in the BSC and may lead to a replacement of Metering Equipment. If replacement is required the MTDs must be updated and provided to all parties in

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		Registrant	MOA	DC		
						line with the BSC. Re-commissioning must occur and evidence should be provided to the TAA.
Commissioning Records						
2.15	Commissioning records not provided	✓	✓		Provide Certificates	Records must be provided or re-commissioning must take place and evidence provided to the TAA.
	Commissioning records incorrect					
	Commissioning records incomplete					
Measurement Transformer Certificates not provided or incorrect						
2.16	Measurement Transformer Certificates not provided	✓	✓		Provide Certificates	Records must be provided or MOA can use the NMTES, if the Measurement Transformers are on it.
	Measurement Transformer Certificates do not match site equipment					
	Meter Certificates not provided or incorrect					
2.17	Meter Certificates not provided	✓	✓		Provide Certificates	Records must be provided and evidence provided to the TAA.
	Meter Certificates do not match site equipment					
Labelling Inconsistency						
0.16	Main/Check/Import/Export	✓	✓		n/a	Metering Equipment must be labelled correctly and if necessary changes to the physical set up.
	Circuits (feeders)					

NC	NC Category Description – What the problem is	Who is assigned as the responsible party to the NC?			Which Standard Rectification Plan could I use in the TAAMT?	What else do I need to know to help me rectify this NC?
		Registrant	MOA	DC		
	Measurement Transformer ratios and / or polarity Test Terminal Block connections					
Test Terminal Block						
0.19	Test Terminal Block not fitted / inappropriate	✓	✓		n/a	The MOA must ensure that the Metering System has a test terminal Block fitted and working effectively.
Unauthorised Access						
0.20	Possible unauthorised access to Meter location which could lead to interference with Metering Equipment	✓	✓		n/a	Access to the Meter location must be secured by the MOA or SO as applicable. Access must only be provided to the Meter location by the required parties in line with the BSC.

Need more information?

If you're not sure how this process works and / or need access to the TAAMT please contact the TAA (taa_servicedesk@candc-uk.com) or email tametering@elexon.co.uk and we will provide access and education on using the system.

Also see:

- BSC Section L: Metering
- BSCP27: Technical Assurance of Metering
- Metering Codes of Practice
- Categories of common non-compliance
- Technical Assurance of Metering
- The Technical Assurance Agent Management Tool

For further information please contact the **BSC Service Desk** at bscservicedesk@cgi.com or call **0870 010 6950**.