

Training

Technical Assurance of Metering (TAM) Education Day

06 February 2018

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Agenda

Agenda item	Time	Lead
Welcome & Introduction	10:00	Kat Higby
Technical Assurance of Metering Overview	10:15	Kat Higby
Introduction to P283	10:45	Chris Day
Break	11:15	
Change	11:30	TAA
Lunch	12:30	
TAAMT Overview <ul style="list-style-type: none">Overview of TAA processTAA audit processTAAMT overviewTAAMT changes for 2018	13:30	TAA
Break	14:15	
The TAA Service – your questions answered	15:00	TAA



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Performance Assurance

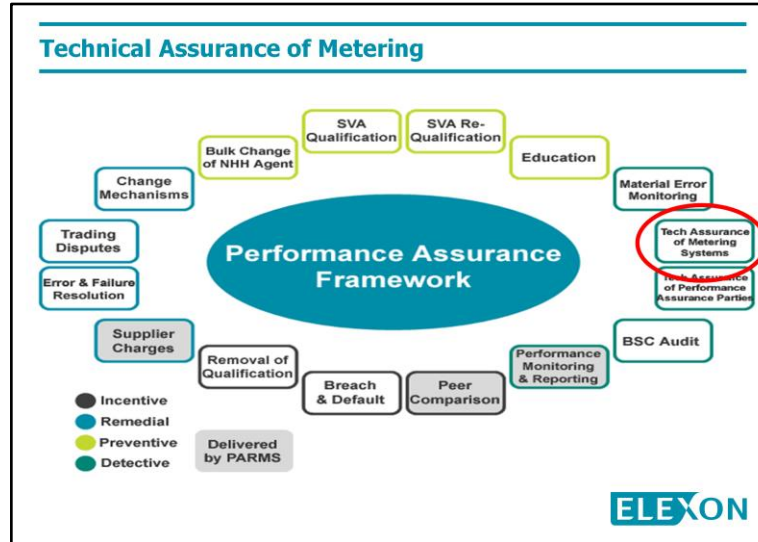
- The Performance Assurance Framework (PAF) is a set of assurance techniques:
 - Preventive (prevent Settlement Error)
 - Detective (detect Settlement Error)
 - Incentive (motivate Parties to prevent Settlement Error)
 - Remedial (correct Settlement Errors which have already occurred)
- These techniques are used flexibly to address Settlement Risks
- A Settlement Risk is anything that could pose a risk to accurate Settlement: it could be a failure in a process or an error in data
- The Performance Assurance Techniques must address risks to Settlement and the impact of actual failures or errors in Settlement



The Performance Assurance Framework (PAF) is a complementary set of preventive, detective, incentive and remedial assurance techniques. These techniques are used flexibly to address Settlement Risks.

A Settlement Risk is anything that could pose a risk to accurate Settlement: it could be a failure in a process or an error in data.

The Performance Assurance Techniques must address risks to Settlement and the impact of actual failures or errors in Settlement



You can see where the TAM technique fits into the PAF here
[CLICK](#)

Which illustrates that the technique is used to detect errors in Settlement and trends of these errors.



What is the Technical Assurance of Metering Technique?

- A detective Performance Assurance Technique (PAT)
- An audit performed to monitor the compliance of Metering Systems with the requirements stated in the BSC and its subsidiary documents
- Provides a level of assurance that the metered values passed into Settlement represent actual consumption.
- Checks provided by the Technical Assurance Agent (TAA) and managed by ELEXON



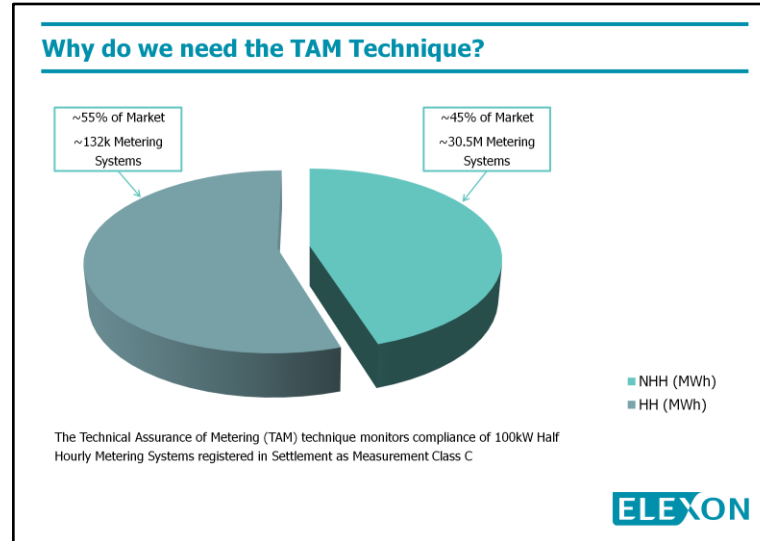
First of all, what is the technique?

It is a detective technique which forms a part of the Performance Assurance Framework

It is essentially made up of an audit which monitors compliance of Metering Systems against the regulations set out in the BSC and its subsidiary documents including BSCPs and Codes of Practice

It provides a level of assurance that the metered values passed into Settlement represent actual consumption.

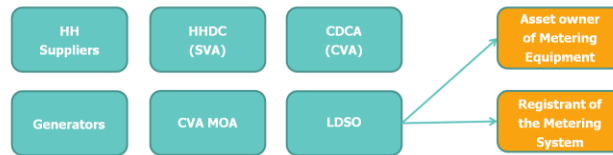
The audit itself is outsourced to the Technical Assurance Agent (currently C&C Group) and is managed by ELEXON.



This slide illustrates why we need the technique and why it covers the area of the market that it does. You can see from the pie chart that the HH meters cover 55% of the market even though there are only 132k Metering Systems compared to 30.5M NHH metering systems which only make up 45% of the market. The Technical Assurance of Metering (TAM) technique monitors compliance of 100kW Half Hourly Metering Systems registered in Settlement as Measurement Class C as they are the ones with the most associated risk. In other words, if there is an error on a HH meter, it is likely to be much bigger than if there was an error on a NHH meter.

The Technical Assurance of Metering Service

- The TAA is a BSC Agent procured and managed by ELEXON. The TAA is currently C&C Group Plc
- The TAA will use their own auditing procedures taking into account any relevant guidance issued by ELEXON or the PAB
- The following HH Parties are subject to TAM checks:



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The Technical Assurance Agent

TAA Auditor's Objectives

Review and report on compliance with the Code and CSDs with respect to HH Metering Systems

TAA Inspectors do not act as a substitute for the Registrant's own responsibility to ensure compliance with the Code or CSDs

Integrity, Objectivity and Independence

Exercise their professional judgement and act independently of the HH Party and ELEXON

ELEXON carries out ad hoc audits of the TAA inspectors

Confidentiality

Holding information on the TAAMT

Disclosure of information

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TAA Auditor's Objectives

The TAA auditors' objective is to review and report on compliance with the Code and Code Subsidiary Documents (CSDs) with respect to HH Metering Systems. TAA Inspectors do not act as a substitute for the Registrant's own responsibility for putting in place proper arrangements to ensure compliance with the Code or CSDs.

Integrity, Objectivity and Independence

TAA Inspectors should exercise their professional judgement and act independently of the HH PAP and act independently of ELEXON, too.

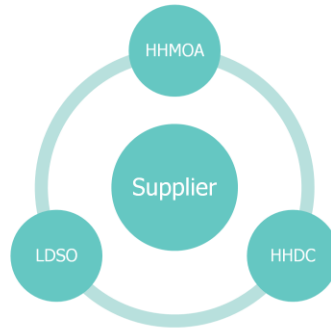
The TAA Inspectors should not carry out work for a HH PAP outside of their TAA Inspectors' functions, if it would impair their independence, or might give rise to a reasonable perception that their independence could be impaired.

The ELEXON Metering Experts will carry out ad hoc audits of the TAA inspectors to ensure that the audits are carried out in this way appropriately.

Confidentiality

The TAA and ELEXON should take all reasonable steps to ensure that they comply with relevant statutory and Code requirements relating to the holding and disclosure of information received or obtained during the check.

Responsibilities



- Responsibilities within the TAM Technique sit with the Supplier
- In order for the Supplier to carry out its responsibilities, it usually requires help from Agents

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You'll see from the following slides that the obligations within TAM all sit with the Supplier/registrant of a metering system, however the supplier needs help from the DC, the MOA and the LDSO to arrange access for the TAA to attend sites and also to clear identified non-compliances.

Obligations for TAM

- [Section L](#) sets out the requirements for TAM
- [BSCP27](#) contains the process in detail
- The [Codes of Practice](#) contain installation requirements
- [Guidance](#) - website



Timescales

BSCP27 Section 3

Notification

- TAA – Registrant & agents: at least 20 wds

Provision of Information

- Registrant & agents – TAA: 10 wds prior to inspection
- (MOA can provide MTDs on inspection date)

Rectifying non-compliance

- Registrant & agents – TAA: evidence or plan within 10 wds



Required information

BSCP27 Section 1.13 & BSC Section L 7.2

Meter Technical Details

- MOA
- DC
- Supplier (optional)

- Commissioning Records

- Metering Equipment Certificates

- Via TAAMT

Technical Assurance Agent Management Tool

MTDs must be those used by the DC to obtain metered volumes

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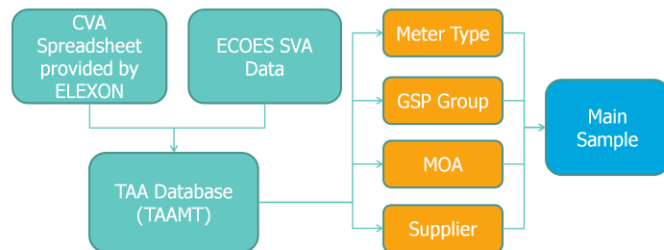
Sample Types

- **Main Sample** – a random sample of SVA (1% of all MSIDs in the market) and CVA Metering Systems (17% of all MSIDs in the market)
- **Specific Sample** – Focuses on high risk SVA Metering Systems/areas. Accounts for no more than 20% of the total number of SVA TAA visits per year
- **Targeted Inspections** – where a non-compliance is suspected on SVA or CVA Metering Systems
- **Re-inspection Audits** – a percentage of re-inspections on sites where Category 1 non-compliance was found to assure that it has been rectified as reported



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How is the Main Sample Selected?



- The sample shall not be biased towards any one Registrant, Meter Operator Agent, GSP Group or type of Metering Equipment
- When completing the main sample, consideration is given to geographical location

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Outcomes of a Successful Site Visit

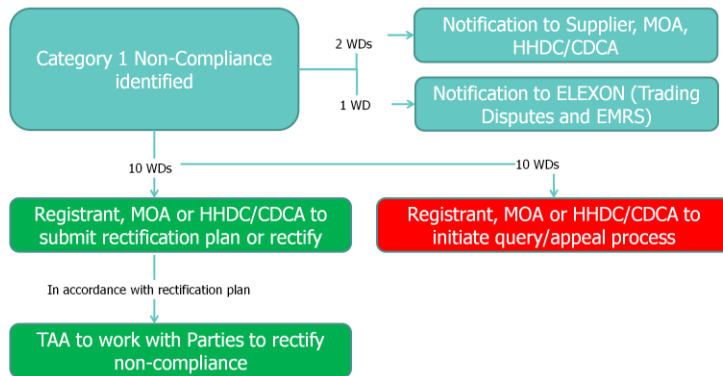
Providing the TAA can gain access to the site, there are 4 possible outcomes:

- **Compliant** – No non-compliances identified at site
- **Category 1 Non-Compliant** – Non-compliance identified which is currently affecting the quality of data for Settlement purposes
- **Category 2 Non-Compliant** – Not directly affecting Settlement but has the potential to
- **Observation** – Not affecting Settlement and does not have the potential to



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Category 1 Non-Compliance



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Category 1 Non-Compliances

- 1.01 - Inaccuracy of Standing Data (Key MTD fields) held by Data Collector
 - Outstation serial number, Meter ID (serial number), Outstation number of channels, Measurement Quantity ID, Pulse multiplier, Channel configuration, Outstation multiplier/Outstation channel multiplier, Complex Site Supplementary Information Form (SVA only)
- 1.02 - Metering Equipment Incorrect or Unsatisfactory
 - Metering Equipment not functioning correctly, Metering Equipment not programmed correctly, Overall accuracy of Metering System not maintained, Summation CTs used, Correct Energy Measurement Check indicates error in metered volume
- 1.03 - Timing Error (Major)
 - Outstation clock outside agreed tolerance
- 1.04 - Measurement Transformer Ratios Physically Incorrect
 - Measurement transformer ratios different from those set up in Meter
- 1.05 - Compensation Calculations Incorrect
 - Meter compensation for Measurement Transformers Incorrectly applied or not applied
 - Meter compensation for Power Transformers incorrectly applied or not applied
- 1.06 - Miscellaneous
 - Other non-compliance not covered elsewhere




Category 2 Non-Compliances

- 2.01 - Inaccuracy of Standing Data held by Meter Operator Agent
- 2.02 - Inaccuracy of Standing Data (non-Key MTD fields) held by Data Collector
- 2.03 - Non-provision of Standing Data
- ★ 2.06 - Metering Equipment Incorrect or Unsatisfactory
- 2.07 - Measurement Transformer and/or Meter Certificates
- 2.08 - Unsuitable Environment
- 2.09 - Inadequate Over-current Protection
- 2.10 - Separate Phase Failure Alarms not Installed or Inadequate/Failed – Local and Remote
- 2.11 - Inadequate Metering Equipment Integrity
- 2.12 - Metering Equipment Test Facilities
- 2.13 - Miscellaneous
- ★ 2.14 - Timing Error (Minor)
- ★ 2.15 - Commissioning Records
- ★ 2.16 - Measurement Transformer Certificates not provided or incorrect
- ★ 2.17 - Meter Certificates not provided or incorrect







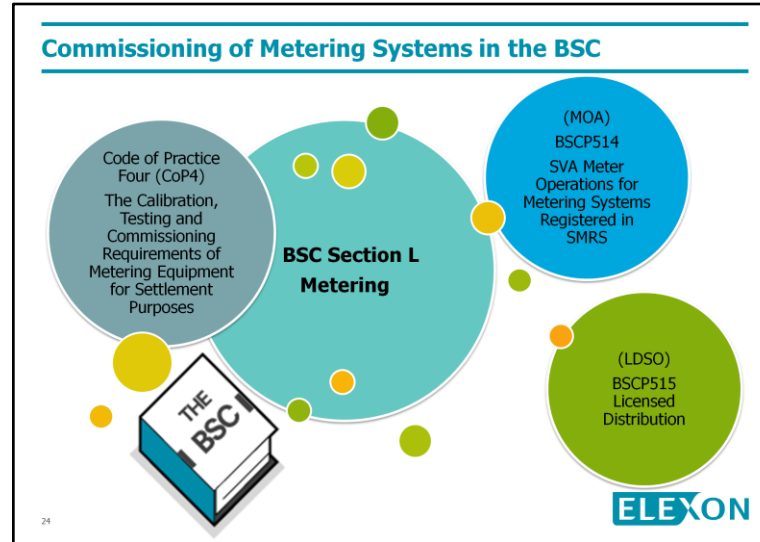
Public

**Commissioning of
Metering Systems
post P283**

Technical Assurance of Metering
Education Day

6 February 2018
Chris Day

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Commissioning is to be performed on all new metering equipment which is to be used in Settlement.

BSC Section L 'Metering' sets the obligations and

CoP4 sets out what has to be commissioned, requirements for calibration and commissioning of equipment

BSCPs state how and in what timescale this should be done

BSCP514 Meter Operator Agent

BSCP515 for Licenced Distribution Network Operators

It does detail Supplier actions as well as MOA and LDSO.

Commissioning of Metering Systems in the BSC

- The Registrant of each Metering System shall ensure that Metering Equipment is: "(a)" installed and commissioned (if not already installed and commissioned) ... (Section L 2.1.1)
- The Registrant of each Metering System shall ensure (a) in the case of Half Hourly Metering Systems, that the Metering Equipment shall be commissioned (including, where any issues are identified during the commissioning of that Metering Equipment, notifying and consulting with the Distribution System Operator and/or the Transmission Company, as applicable) in accordance with the relevant issue of Code of Practice Four ... (Section L 3.6.1)
- In the case of Half Hourly Metering Equipment it shall be the responsibility of the MOA to notify its Registrant, via an auditable, electronic method, that either:
 - All items of Metering Equipment have been fully and successfully Commissioned in accordance with this CoP4; or
 - There are defects or omissions in the completion of the processes set out in this CoP4 which have the potential to affect Settlement. Such notification shall include details of any defects or omissions identified and an assessment of the potential implications for the Registrant, customer and network operator. Where such notification is provided and the Registrant believes that there is a risk to Settlement it shall, in accordance with Section L3.6 of the BSC, consult with the relevant network operator and agree the appropriate steps to be taken to minimise the risks to Settlement. Such agreements shall be recorded and be made available on request to the BSC Panel. (CoP4 Scope)
- Commissioning of Metering Systems that include measurement transformers (BSCP514 Section 5.2.2.A), (BSCP515 Section 3.3.A)

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Insert: Document title

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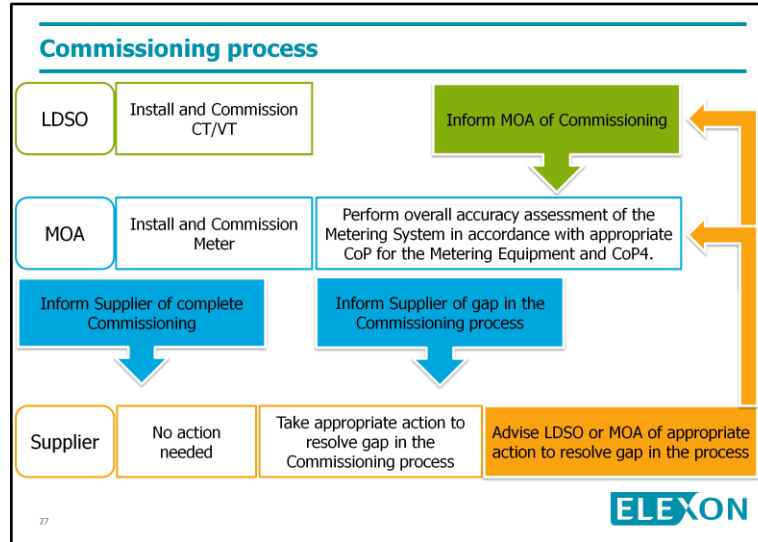
Commissioning of Metering Systems in the BSC

- Where measurement transformers are owned by a BSC Party that Party shall be responsible for ensuring the requirements of 5.5 (Commissioning), are performed on its Metering Equipment up to and including the Testing Facilities. In addition that Party shall prepare, and make available to the appointed MOA, complete and accurate commissioning records in relation to these obligations. Where measurement transformers are not owned by a BSC Party the Registrant, via its appointed MOA, shall be responsible for the Commissioning of all Metering Equipment. (CoP4 5.5)
- CoP4 Section 5.5.2 details what elements of accuracy a Commissioning Test should confirm.
- Where individual items of Metering Equipment are to be replaced then only those items are required to be Commissioned. For clarification, Metering Systems in their entirety need not be re-Commissioned when items are replaced within that system. (CoP4 5.5.2)
- The MOA shall provide such evidence, as BSCCo may require, to confirm that, following its Commissioning, Metering Equipment shall meet the requirements of the Code and relevant Codes of Practice. This evidence must be Traceable and dated. (CoP4 Section 5.5.4)

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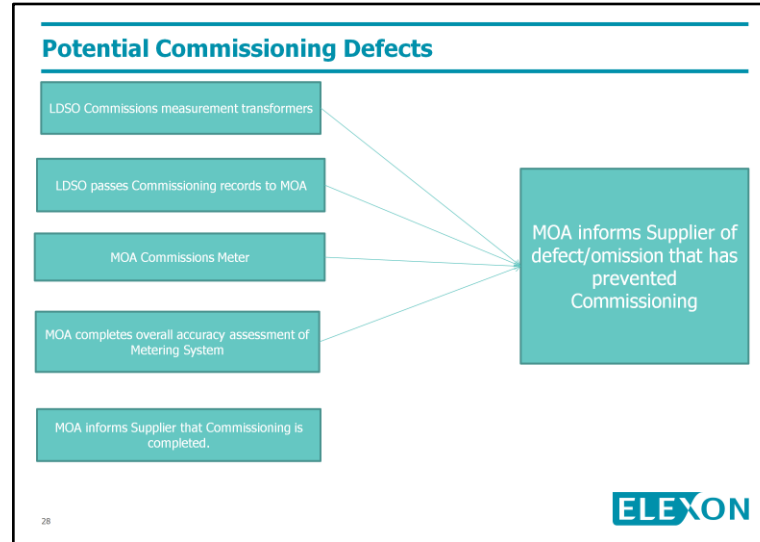
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Describe what happens during the process

This is the process that the work streams we will be talking about will look to improve



Talk through the process.

Highlight that the process can fall down at any point and a MOA may pass a defect/omission to Supplier for anyone.

Potential Commissioning Defects

MOA informs Supplier of defect/omission that has prevented Commissioning

LDSO Commissions measurement transformers	LDSO passes Commissioning records to MOA	MOA Commissions Meter	MOA completes overall accuracy assessment of Metering System
Supplier: Support with access issues.	Supplier: Escalate non-receipt of Commissioning record to relevant LDSO. This should be a continuous process.	Supplier: Support with access issues. MOA: Provide action plan to Registrant for any technical issues. (Insufficient Load)	Supplier: Escalate non-receipt of measurement transformer calibration certificates to LDSO.
LDSO: Provide action plan to Registrant/MOA for any technical issues.	LDSO: Send Commissioning record.		MOA: Provide action plan to Registrant for any accuracy issues.
LDSO: Provide contact details for ICP where applicable.			
Supplier: Provide landlord details for BNO where applicable.			

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Insert: Document title



Supplier – Support. Contact Details?, Education.



Future Changes

Creation of Commissioning
Dataflows

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Why create Commissioning Data flows?

- Current process issues
 - An increased chance of error due to the manual nature of communication methods
 - Difficulty in tracking and auditing e-mails and similar communications
 - Loss of confidential information over the email exchange
 - Time consuming to recover records, scan and email
 - Delays to material defects or omissions from being dealt with



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P283 TAPAP completed 2016 showed that

LDSOs email Commissioning records as PDF attachments to the MOAs

MOAs will then email their Registrant (Supplier) to notify them of the Commissioning status

Any follow up communication is all done by email

During the check Commissioning evidence not available
which presents a potential risk to Settlement as no assurance
Commissioning completed and within CoP4 limits
No evidence the communications obligations were fulfilled

Feedback from industry was that data flows required to make
this process easier to complete

Current process issues

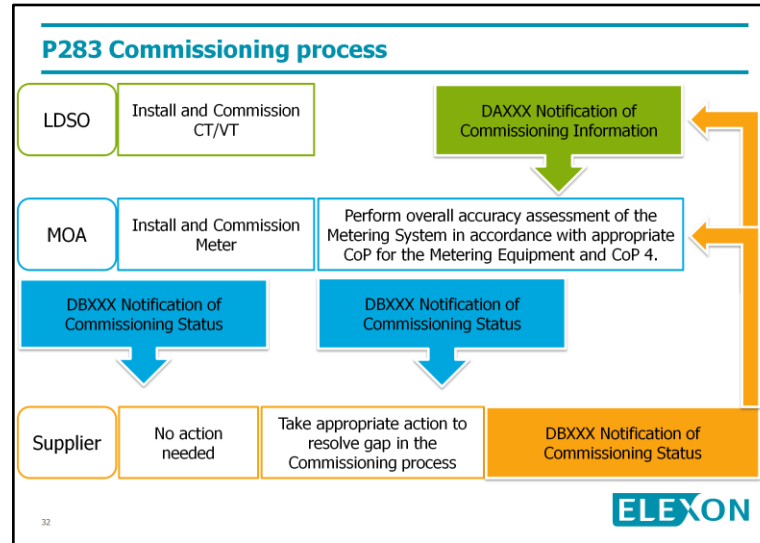
An increased chance of error due to the manual nature of
communication methods

Difficulty in tracking and auditing e-mails and similar
communications

Loss of confidential information over the email exchange

Time consuming to recover records, scan and email

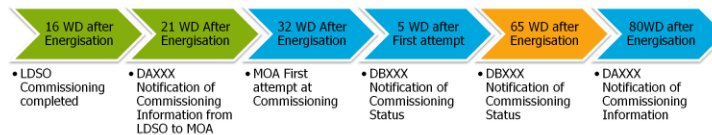
Delays to material defects or omissions from being dealt with



What are the dataflows and what do they do -

Describe how the dataflow will work in the process

Amended timescales: New connections



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New timescales have been applied to the process;

LDSO Commissioning: 16 (16) WD after Energisation

LDSO Pass Commissioning information to MOA: 21(22) WD after Energisation

MOA First attempt at Commissioning: 32(16) WD after Energisation

MOA Advise Supplier of defect/omission: 5(5) WD after first attempt

MOA Advise Supplier of defect/omission: 5(5) WD after Commissioning complete

Supplier resolution of any defect or omission: 65 WD after Energisation


(no timescales – this is a new step to make existing obligations clearer)

Final deadline for MOA to complete Commissioning: 80 WD after Energisation

(no timescales – this is a new step to make existing obligations clearer)

Code of Practice 4 Changes

- Where measurement transformers are owned by a BSC Party that Party shall be responsible for ensuring the requirements of 5.5, are performed on its Metering Equipment up to and including the Testing Facilities. In addition that Party shall prepare, and make available upon request to the appointed MOA, complete and accurate commissioning records in relation to these obligations.
- Where measurement transformers are owned by a BSC Party that Party ~~The MOA~~ shall provide such evidence, as BSCCo may require, to confirm that, following its Commissioning, Metering Equipment (up to and including the Testing Facilities) shall meet the requirements of the Code and relevant Codes of Practice. Where measurement transformers are not owned by a BSC Party the Registrant, via its appointed MOA, shall be responsible for these requirements.



BSC CP1497

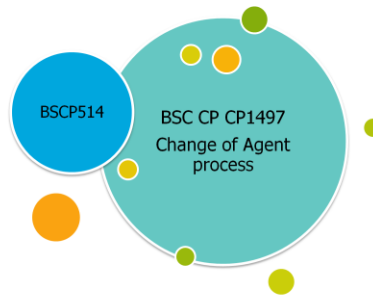
Introduction of data flows for Half Hourly Meter Operator Agents to pass on Commissioning information when there is a Change of Agent

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Change of Agent Process

- BSCP514 2.2.2 Termination of Appointment of Meter Operator Agent

(...) c) Data and other information to be transferred shall include Meter Technical Details including that relating to the associated Communications Equipment as appropriate, **commissioning data**, mapping data and certification and/or calibration details. (...)



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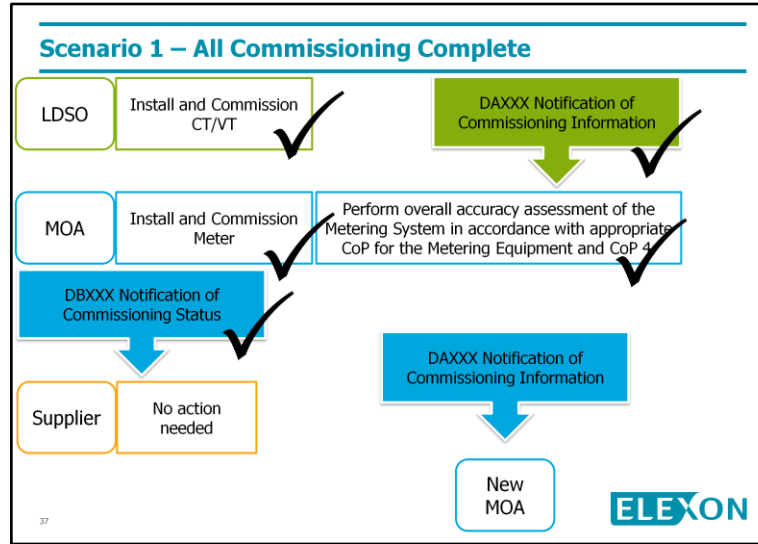
36

There is no formal process within the BSCPs for the passing of commissioning information when there is a change of agent.

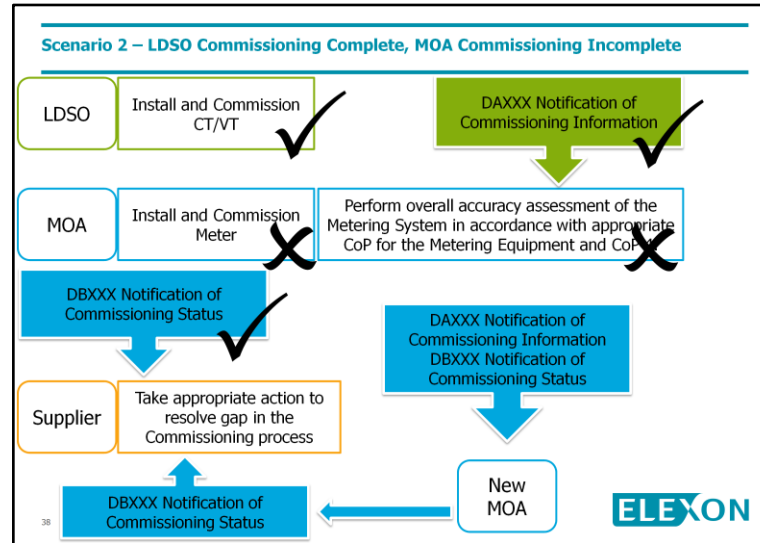
It only states that it shall be transferred

The two data flows will be introduced into the COA process to facilitate the passing of information

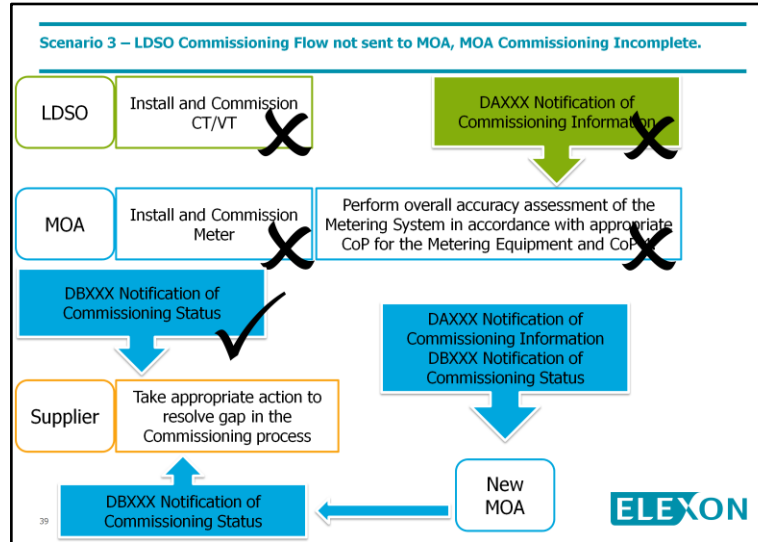
Both DAxxx and DBxxx flows will be used in this process



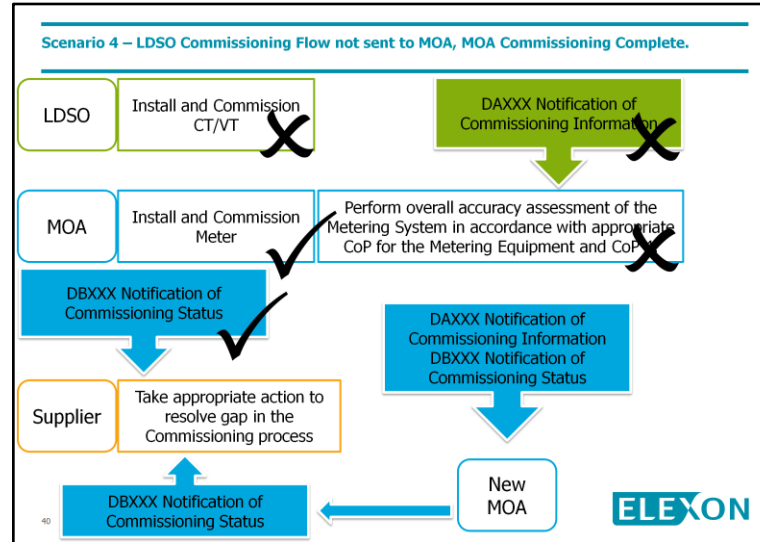
Scenario 1: All Commissioning completed and all information available for when there is a CoA.
At same time as D0268



Scenario 2: Measurement transformer Commissioning information is available but the MOA was not able to complete the Commissioning process before the CoA took place. Information will be sent from the old MOA to the new MOA and from the new MOA to the Supplier.
At same time as D0268



Scenario 3: Measurement transformer Commissioning information is not available because it had not been received by the old MOA before the CoA took place. The MOA work has also not been completed in this scenario. Information will be sent from the old MOA to the new MOA and from the new MOA to the Supplier. At same time as D0268



Scenario 4: Measurement transformer Commissioning information is not available because it had not been received by the old MOA before the CoA took place. The MOA Meter Commissioning has been done (but overall accuracy has not because the measurement transformer information has not been received. Information will be sent from the old MOA to the new MOA and from the new MOA to the Supplier.

At same time as D0268



Technical Assurance Agent

Changes to Scope of 2018 – 2019
Audit Year



Technical Assurance Agent

CVA

Auditing Multi- Circuits



Technical Assurance Agent

CVA

The Auditing of Offshore Metering
Installations



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SVA

Changes to Raising Commissioning
Non-Compliances in Relation to the
Introduction of P283



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SVA/CVA

Recording of Zero Load on Site
During the TAA Audit



Technical Assurance Agent

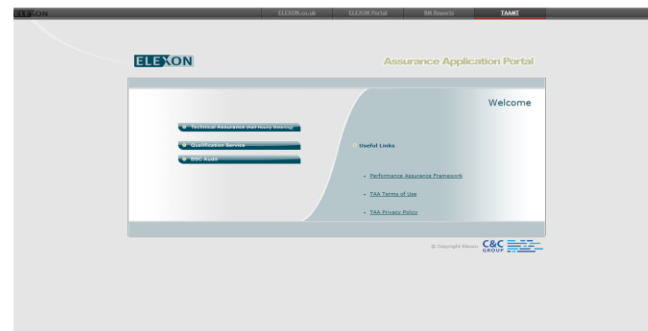
Important TAA Pages and Functionality

www.elexon-assurance.co.uk



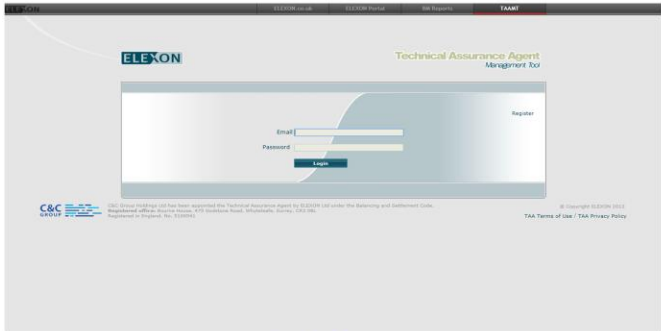


Technical Assurance Agent



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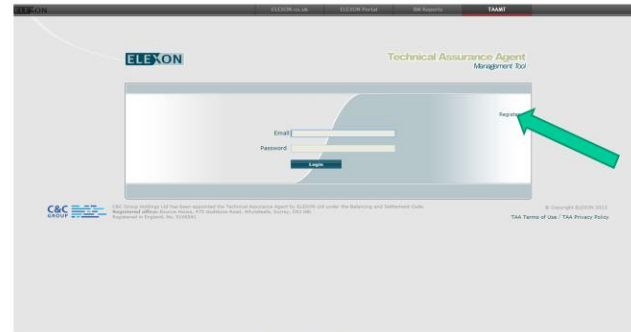
Technical Assurance Agent



Login Page



Technical Assurance Agent



Registration



Technical Assurance Agent

The screenshot shows a web browser window with the ELEXON logo in the top left and the title 'Technical Assurance Agent Management Box' in the top right. The main content area contains a registration form with the following fields: First Name, Email Address, Password, Telephone Number, Last Name, Company, Country, and Mobile Number. A 'Register' button is located at the bottom of the form. Below the form, there is a 'C&C GROUP' logo and a small block of text: 'C&C Group (UK) Ltd has been appointed the Technical Assurance Agent for 2012/13 and under the following conditions: Registered office: Service House, 175 Sandstone Road, Whitstable, Kent, UK. Reg. No. 08429474. Registered in England. No. 02429474.' To the right of this text is a copyright notice: '© Copyright 2012/13 C&C TAA Terms of Use / TAA Privacy Policy'.

Registration

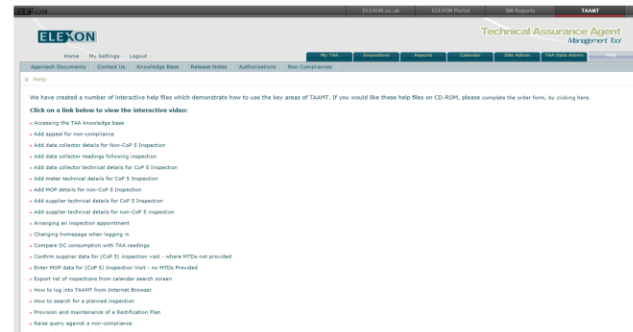
Technical Assurance Agent

The screenshot shows the 'Home' page of the 'Technical Assurance Agent Management System'. At the top, there is a navigation bar with the ELEXON logo on the left and the system name on the right. Below the navigation bar, there is a main content area with a heading 'Home' and a sub-heading 'Introduction'. The introduction text describes the system's purpose and the role of the Technical Assurance Agent (TAA). Below the introduction, there are sections for 'Purpose', 'The Technical Assurance Process', and 'TAA Management tool'. At the bottom of the page, there is a footer with the C&C GROUP logo on the left and the ELEXON logo on the right. The page number '53' is visible in the bottom left corner.

Home Screen



Technical Assurance Agent



Help Screen

Technical Assurance Agent

The screenshot displays the 'Technical Assurance Agent Management Tool' interface. The main content area is titled 'My TAA' and contains a list of key metrics for attention:

- Provide 'Inspection' information for a planned inspection - 98
- Provide 'WOP' information for a planned inspection - 82
- Provide 'Data Collector' information for a planned inspection - 109
- Provide 'Data Collector' information for a completed inspection - 82
- Confirm Provided Data Collector KMRs - 15
- Number of CIV CAT 2 non-compliances which have not been rectified - 1
- Number of CIV CAT 2 non-compliances which have not been rectified - 1484
- Number of CIV CAT 2 non-compliances which have not been rectified - 16
- Number of CIV CAT 2 non-compliances which have not been rectified - 1903
- Number of rectification plans requiring more evidence - 2385
- Number of queries raised awaiting resolution - 1
- Number of rectification plans awaiting TAA confirmation - 114

At the bottom of the screenshot, there is a C&C logo on the left, a copyright notice for Elexon Holdings Ltd in the center, and a 'TAA Terms of Use' link on the right.

My TAA Screen



Technical Assurance Agent

The screenshot displays the ELEXON Technical Assurance Agent web application. The main content area features a calendar for January 2018. The calendar grid shows days with colored indicators: green for 'Accepted' and red for 'Rejected'. A detailed view for Monday, 29 January 2018, is shown on the right, including the following information:

- 14113
- 210-215
- MOON STREET
- HOLWELL
- TYNS DLE
- MSID: 2000027302427
- Visit: 2018-0227
- Time: 9:00
- Agent: Barry Dunne
- Status: Accepted
- View Inspection
- BRITISH AIRWAYS PLC
- INTELLUCE HOUSE 3 & 4
- LAMPFORD ROAD
- HOLWELL
- TYNS DLE
- MSID: 2000027303275
- Visit: 2018-0228
- Time: 10:30
- Agent: Barry Dunne
- Status: Accepted
- View Inspection
- OFFICIAL INSPECTION LTD
- HOLWELL CENTRE
- LAMPFORD ROAD
- HOLWELL
- TYNS DLE
- MSID: 2000027303257

Calendar Screen



Technical Assurance Agent

The screenshot shows the 'Search Appointments' screen in the Technical Assurance Agent Management Tool. The page features a search form with the following fields and options:

- Search:** A dropdown menu to select the search criteria.
- MSID:** Text input field.
- Work Reference:** Text input field.
- Risk Code:** Text input field.
- Supplier:** Dropdown menu with 'Please Select...'.
- Inspection Period:** Date range selection.
- Rectification Plan Complete:** Radio button options.
- Tracking Method:** Dropdown menu with 'Please Select...'.
- Filter:** Radio button for 'Please Transformer Plates not accessed'.
- Meter Operator:** Dropdown menu with 'Please Select...'.
- Date Collected:** Date input field.
- Work Type:** Dropdown menu with 'Please Select...'.
- Distributor:** Dropdown menu with 'Please Select...'.
- GSP Group:** Dropdown menu with 'Please Select...'.
- Non Compliance:** Radio button options.
- Inspection Status:** Dropdown menu with 'Please Select...'.

Buttons for 'Reset' and 'Search' are located at the bottom of the search form. The footer contains the C&C GROUP logo, copyright information for 2014, and a link to the TAA Terms of Use / TAA Privacy Policy.

Search Appointments Screen

Technical Assurance Agent

The screenshot displays the 'Search Failures' screen within the 'Technical Assurance Agent' application. The interface includes a navigation bar with 'Home', 'My Settings', and 'Logout'. Below the navigation bar, there are several tabs: 'Search Failures', 'Search Queue', 'Search Results', 'Inspection Alerts', 'Reclassification Alerts', and 'My Group Search'. The main content area is titled 'Search Failures' and contains a search form with the following fields:

Search		Help Operator	Please Select...
Failure Reference		Builder	Please Select...
Visit Reference		Data Collector	Please Select...
Post Code		Distributor	Please Select...
Category	1.23	Inspection Period	Please Select...
Status	Please Select...	Visit Type	Please Select...
Referred	Please Select...	UFI Group	Please Select...
Trading Method	Please Select...	Appointment Status	Please Select...
From:		To:	

At the bottom of the search form, there are 'Reset' and 'Search' buttons. The footer of the page includes the C&C GROUP logo, a copyright notice for ELEXON (© Copyright ELEXON 2016), and a link to the TAA Terms of Use / TAA Privacy Policy.

Search Failures Screen

Technical Assurance Agent

The screenshot displays the ELEXON Technical Assurance Agent interface. At the top, there is a navigation bar with the ELEXON logo and the title 'Technical Assurance Agent (Management Tool)'. Below this is a search filter section with various dropdown menus and input fields for filtering search results. The main area shows a table of search failures with columns for 'View Inspection Details', 'View Inspection Form', 'MISD', 'MIS Compliance Category', 'Inspection Date', 'Question', 'Non-Compliance Status', 'Rectified/Outstanding', and 'Total Non-Compliance'. The table contains several rows of data, including inspection numbers, dates, and compliance status.

View Inspection Details	View Inspection Form	MISD	MIS Compliance Category	Inspection Date	Question	Non-Compliance Status	Rectified/Outstanding	Total Non-Compliance
		2017-0176	1800011515	2380001202809	1.03-2017-0176	Is the Metering System clock within the allowable tolerance as detailed in section 4.2 of BS0272?	Non-Compliance Outstanding	152
		2017-1948	1800012841	11000000082020	1.03-2017-0176	Is the Metering System clock within the allowable tolerance as detailed in section 4.2 of BS0272?	Non-Compliance Outstanding	31
		2018-0136	1800009138	14260000000009	1.03-2018-0136	Is the Metering System clock within the allowable tolerance as detailed in section 4.2 of BS0272?	Non-Compliance Outstanding	16
		2018-0008	2000000008	2000001971261	1.03-2018-0008	Is the Metering System clock within the allowable tolerance as detailed in section 4.2 of BS0272?	Non-Compliance Outstanding	4

Search Failures Results Screen



Technical Assurance Agent

Collaps / Expand Inspection Details

Provide D2268 Distributor Information
 ESI Information supplied by the Data Collector
 ESI Information supplied by the Supplier

Inspection Confirmation		Visit Type	Role Sample
Visit Reference Number	1200061809915		
Inspection Date	September 2, 2013	Start Time	9:00
TAA Agent		Appointment Status	Accepted

Data Collector At Inspection		HCP At Inspection	Unknown
Supplier At Inspection	Unknown	Distributor At Inspection	Unknown
HCP Contact Name		HCP Contact Number	
HCP Contact Number		Supplier Contact Name	
Supplier Contact Name		Distributor Contact Number	

Collaps / Expand Site Details

Address	NEW NIGHTINGALE PRACTICE	GPS Latitude
BY	KENNINGHALL ROAD	GPS Longitude
	LONDON	
	E9 6BY	View on Map

Collaps / Expand Holding Points

HSD	1200061809915	Code of Practice	Unknown
Holding Point Status	T	HSD Group	LC

HSD	Name	Initial Contact	Email	Contact Number
HCP				
Supplier				
Data Collector				
Distributor				

Inspection Details Screen

Technical Assurance Agent

Overview of the TAA
Audit Process and
Tablet Application



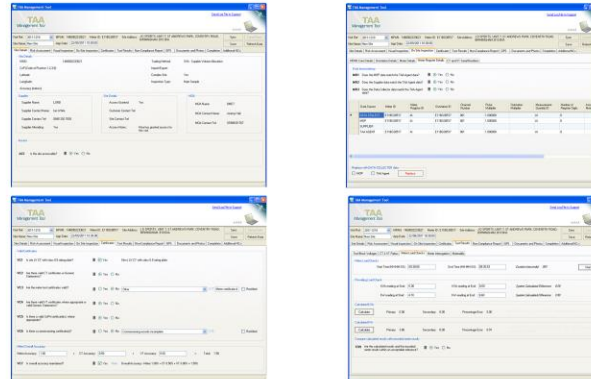
Overview of the TAA Audit Process

Technical Assurance Agent

Overview of a TAA Visit
Tablet Application



Technical Assurance Agent



Technical Assurance Agent

Consumption Data
Comparison Check



Technical Assurance Agent

The screenshot shows the ELEXON Technical Assurance Agent Management System interface. The page title is "Technical Assurance Agent Management System". The user is logged in as "My TAA". The main content area displays details for a "Site Collector Post Inspection".

Inspection Details:

- Inspection Status: **Site Visited**
- Visit Reference Number: **2010-0000**
- Inspection Date: **July 6, 2010**
- TAA Agent: **Bill McFarlane**
- Appointment Status: **Accepted**
- FIELD (PHONE): **8007**
- OSP Group: **_JF**

Address: **Ferr Winifreda**
Ferr 132/33 Kv Substation
Minneapolis

GPS Location:
View on map

Please enter the actual consumption data for the meters listed below:

Meter ID	FIELD	UNIT
1320001	associated with 2000	between 11/01/2009 and 11/30/2009

67

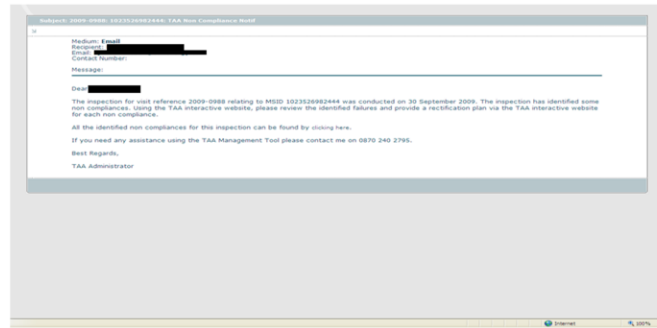
CDC Entry Screen

Technical Assurance Agent

Inspection Results



Technical Assurance Agent



Notification Email

Technical Assurance Agent

Inspections >> Search Inspections >> Inspection Details >> Non-Compliance

General Visit Info For 2010-0301

Inspector Follows

2 Records >> Viewing page 1 of 1

Ref #	Notes	Question	Comments	TAA Category	Rectified	Query	Appeal	Select
70002430	Non-compliance Outstanding	Is overall accuracy maintained?	Accuracy - Meter 0% + CT100% + VT0.00% =	2.06	No	Open		<input type="checkbox"/>
70002432	Non-compliance Outstanding	Are there valid CT certificates of accuracy?	Accuracy - Meter 0% + CT100% =	2.06	No	Open		<input type="checkbox"/>

1 Records >> Viewing page 1 of 1

Rectification Plans

1 Records >> Viewing page 1 of 1

Group ID	Group Name	Group Status	Plan Submitted	View Failures	Create/Update Plan
1012102	Rectification Plan	Not Started	Yes	View	View

1 Records >> Viewing page 1 of 1

Failures

2 Records >> Viewing page 1 of 1

Ref #	Status	Question	Comments	TAA Category
70002433	Rectified During Inspection	Has a password been deleted?	Yes	Note
70002431	Rectified During Inspection	Does the Supplier Meter Register Details data match the TAA?	Incorrect meter serial number and meter ID	Note

2 Records >> Viewing page 1 of 1

C&C GROUP
C&C Group Holdings Ltd has been approved the Technical Assurance Agent by ELEXON Ltd under the Sponsoring and Payment Code.
 Registered office: Second Floor, 411 Brookline Road, Whiteville, Dublin 12, D12 1K1.
 Registered in England No. 3112243.

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Non-Compliance Screen

Technical Assurance Agent

Inspection Results		Non-Compliance	
Site Assessment			
Was the site accessible?	Yes	Did the TAA Agent understand the site safety rules?	Yes
Was PPE established?	Yes	Was the area free of tripping, slipping and falling hazards?	Yes
Was the area free from all other identifiable hazards? (Eg. moving plant)	Yes	Where installed, were all CO2 alarms deactivated?	Yes
Were the site alarms de-activated?	Yes	Was the metering equipment located in a satisfactory environment? (Eg. Secure and dry)	Yes
Was there sufficient access to the meter point?	Yes	Was the Metering System free from electrical hazards?	Yes
Were all meter seals intact?	Yes	Were there valid CT certificates or valid generic statements?	Yes
Were the meter test certificates valid?	Yes	Were there valid VT certificates where appropriate or valid generic statements?	Yes
Were there CoP A test certificates where appropriate?	Yes	Were there commission certificates?	Yes
Visual Inspection			
Were the seals free of signs of tampering?	Yes	Were all labels appropriate to the CoP?	Yes
Was the metering system clock within the allowable tolerance?	Yes	Following the removal of the seals, was the Metering System free from signs of tampering?	Yes
Was the fitting in accordance with the correct version of the CoP?	Yes	Were all the CT risks in the open position and were the CT's not shorted out?	Yes
Test Results			
Meter ID	1562201	Was the phase rotation correct?	Yes
Was the phase future correct?	Yes	Was the integrity of all buses correct?	Yes
Were voltages within the allowed tolerance?	Yes	Did the measured CT ratio have the ratio as the standing data ratio? - Data Collector	Yes
Did the measured CT ratio have the ratio as the standing data ratio? - Transformer	Yes	Did the measured CT ratio have the ratio as the standing data ratio? - MCP	Yes
Did the measured VT ratio have the ratio as the standing data ratio? - Data Collector	Yes	Did the measured VT ratio have the ratio as the standing data ratio? - Transformer	Yes
Did the measured VT ratio have the ratio as the standing data ratio? - MCP	Yes	Are the calculated results and the recorded meter results within an acceptable tolerance?	Yes
Optical Reading	100.00	Data Collector Reading	100.00
Meter Core			
Data Source: DATA COLLECTOR			

Inspection Results Screen



Technical Assurance Agent

Rectification Plans



Technical Assurance Agent

Ref #	Status	Question	TAF Category
100000000	Completed/Exception Confirmation	Is there a commissioning certificate?	2.13

Rectification Plan Wizard

Plan Details	2010-05-24
WIR Reference	Plan 00000000
Rectification Action	
Rectification Target Date	01-Jan-2000
Plan Co-ordinator	Motor Operator Agent
Evidence	Cap 2.15 Commissioning Test cancelled Index 4714
Completion Date	00-Jul-2010
TAA requested further evidence	No
TAA Notes	
TAA confirm completion	No

User Name:
Email:

Rectification Communication Notes

Rectification Screen



Technical Assurance Agent

Queries and Appeals



Technical Assurance Agent

Technical Assurance Agent Management Tool

Home - My Settings - Logout

My TAA > My TAA Query Screen

Query Details

Visit Reference	2010-0584
Participant	Histor Operator Agent
Contact	John Heywood
Email	john.heywood@barama.com
Failure Reference	70502796
Query Summary	Histor Commissioning
Query Description	We have submitted the order commissioning paper work, please can you provide us some more information regarding this non-compliance.
Raised on	05 Jul 2010
Query Status	Failed
TAA Response	

Documents

Save Cancel

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Query Screen

Technical Assurance Agent

TAA Performance Reports



Technical Assurance Agent

Report Ref	Report Name	Company Group	Report Year	Report Date	Available Date
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	British Petroleum Ltd (BP)	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	British Petroleum Ltd - OGP	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	GLACON	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	Wynneberg	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	BP Energy (BPAS)	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	British Energy Civil	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	Central Petroleum (CPAS)	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	CEPRICA	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	Cambridge Lubricants Ltd	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	Cambridge Lubricants Supply Limited	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	Cambridge Lubricants Ltd	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	Cambridge Lubricants Ltd	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	Cambridge Lubricants Ltd	29-Mar-2012	Download
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0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	Cambridge Lubricants Ltd	29-Mar-2012	Download
0004	Non-Compliance By Supplier and Supplier Agent	01-04-2011	Cambridge Lubricants Ltd	29-Mar-2012	Download

Reports Screen

