Issue 72

Ensuring measurement transformer assets installed by a Non-BSC Party are successfully Commissioned within BSC timescales

16 October 2018

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Health & Safety

In case of an emergency

An alarm will sound to alert you. The alarm is tested for fifteen seconds every Wednesday at 9.20am

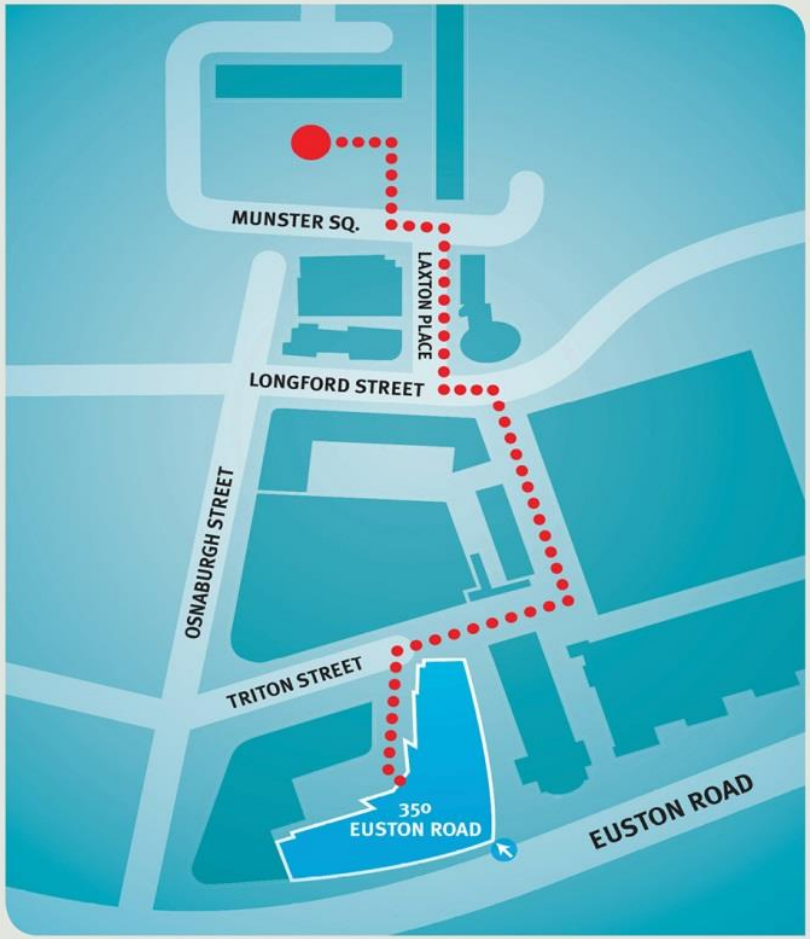
Evacuating 350 Euston Road

- If you discover a fire, operate one of the fire alarms next to the four emergency exits.
- Please do not tackle a fire yourself.
- If you hear the alarm, please leave the building immediately.
- Evacuate by the nearest signposted fire exit and walk to the assembly point.
- Please remain with a member of ELEXON staff and await further instructions from a Fire Warden.
- For visitors unable to use stairs, a Fire Warden will guide you to a refuge point and let the fire brigade know where you are.

When evacuating please remember

- Do not use the lifts.
- Do not re-enter the building until the all clear has been given by the Fire Warden or ground floor security.

Our team on reception is here to help you, if you have any questions, please do ask them.



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Meeting objectives

- Review the background that gave rise to Issue 72;
- Discuss current BSC requirements of Commissioning in Code of Practice Four (CoP4) of measurement transformer assets installed by a Non-BSC Party;
- Define the Issue;
  - What is the scope of this Issue group?
  - Identify clear Issue statements;
- Explore potential solutions;
- Agree next steps;

BSC Issue Process

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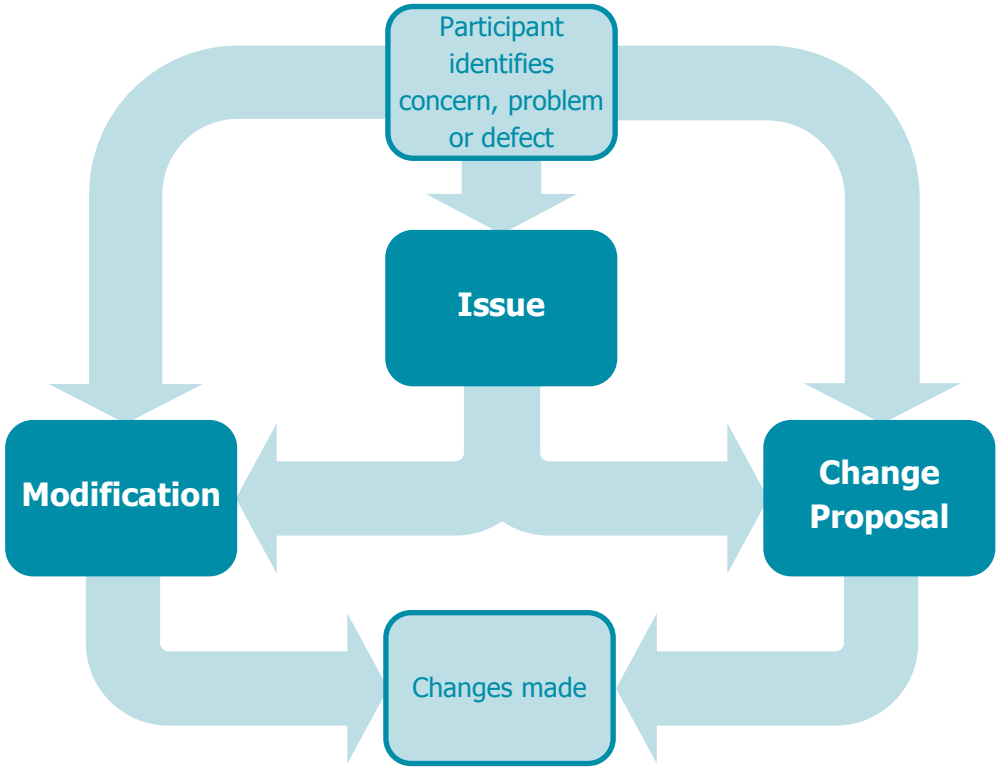
BSC Change Process

		Will my solution amend the BSC?	
		Yes	**No**
Do I have a clear solution?	**Yes**	Modification	CP
	No	Issue	Issue



BSC Issue Process

- Raised if participant wants to discuss an issue or concern;
- Issue Group convened to discuss the Issue;
- More of an informal, ad-hoc approach;
- Group will consider any ways forward;
  - e.g. solution (any BSC Party can take forward the outcomes of an Issue e.g. BSC Modifications), extra guidance, no change
- We will prepare a final Issue report for the BSC Panel;

Background to Issue 72 Peter Gray (SSE)

Background to Issue 72 (1 of 3)

- SSE have requested this Issue Workgroup reviews the Commissioning process, where the Measurement Transformers are installed by a non-BSC Party, and not owned by the LDSO at the time of Meter Installation.
- The BSC requirement is for the Registrant to instruct the MOA to complete the full Commissioning Testing, which would result in the MOA being responsible for the Commissioning of both the CT'S/VT's and Meters.
- The Commissioning of HV and EHV connections by the MOA may not be possible as the MOA will not hold the correct level of authorisation required by the LDSO.

Background to Issue 72 (2 of 3)

- There is misalignment between the Commissioning of non-BSC Party owned measurement transformers process as outlined in Code of Practice 4 (CoP4) and some industry operational processes.
- Where a measurement transformer is not commissioned by a MOA but rather the Commissioning is completed by a non-BSC Party (for example an Independent Connections Provider (ICP), the MOA requires the Commissioning and Calibration records; either from the non-BSC Party or the LDSO on adoption.
- There is currently no BSC established procedure regarding this process and as such there are no clear requirements on the provision of Commissioning and Calibration records from non-BSC Parties.

Background to Issue 72 (3 of 3)

- There does not appear to be a clear Industry approach for MOA's to be trained by LSDO's, and subsequently holding the correct level of authorisation.
- Each LDSO operate their own version of Distribution Safety Rules, even though the content is aligned. In order to work on HV & EHV equipment these safety rules apply, along with the required authorisations to complete such works, therefore the requirements of each LDSO applies and may differ.
- It is the Registrant's responsibility to authorise the Meter System energisation. It's been found connections are energised by non-BSC Parties, before, and after, the Meter has been installed.
- Noted as part of consultation of CP1505 that ELEXON cannot hold a non-BSC Party (such as an ICP) accountable for Commissioning errors requiring subsequent rectification.

Current Requirements for measurement transformer assets installed by a Non-BSC Party

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Current Commissioning Requirements (1 of 3)

- Code of Practice 4 (CoP4) sets out the requirement for Commissioning, testing and the calibration of all Metering Equipment for Settlement purposes.
- Commissioning under CoP4 is required when new Metering Equipment is installed or materially changed.
- CoP4 paragraph 5.5 'Commissioning'
  - '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'
  - For the avoidance of doubt, and notwithstanding the obligation under the BSC for the Registrant to ensure compliance, it shall be the responsibility of the relevant MOA to ensure that the Metering System complies with the requirements of the applicable CoPs including the assessment of overall accuracy based on any evidence provided by other Parties in accordance with CoP4.'

Current Commissioning Requirements (2 of 3)

- CoP4 paragraph 5.5.2 'Commissioning Tests'
- Commissioning tests on site shall be performed to confirm and record where appropriate the following:

1. That the current transformers are of the correct ratio and polarity and correctly located to record the required power flow;

2. The voltage transformers are the correct ratio and polarity and correctly located to record the required power flow;

3. The relationships between voltages and currents are correct and that phase rotation is standard at the Meter terminals;

4. The burdens on the measurement transformers are within the correct limits;

Current Commissioning Requirements (3 of 3)

- Commissioning tests on site shall be performed to confirm and record where appropriate the following:

5. The Meters are set to the same current transformer and voltage transformer ratios as the installed measurement transformers;

6. The Meters have the correct Compensation for errors in the measurement transformers/connections and losses in power transformers where appropriate;

7. The output of the Metering System correctly records the energy in the primary system at the Defined Metering Point; and

8. The Metering Equipment detects phase failure and operates the required alarms.

What's the scope of the Issue?

What's the scope of the Issue? (1 of 4)

- How does the Issue relate to;
  - Independent Connections Providers (ICPs)?

What's the scope of the Issue? (2 of 4)

- How does the Issue relate to;
  - Building Network Operators (BNOs)?

What's the scope of the Issue? (3 of 4)

- How does the Issue relate to;
  - Customer-owned measurement transformers?

What's the scope of the Issue? (4 of 4)

- How does the Issue relate to;
  - Any other instances?

Consideration of other codes and crossover impacts

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- MCOPA
- DCUSA

- Potentially cross-Code solutions?
- CiCop

Areas of consideration

Areas of consideration

- Materiality & real world impact?
- Consumer impacts?
- Environmental impacts?
- Health and safety considerations?
- Settlement Risk
- Incorrect Supplier Billing
- Incorrect Use of System Billing
- Notification of Change of Energisation Status
- Installation of non-compliant Measurement Transformers
- Process of Adoption by LDSO
- Fault rectification within non-BSC party's equipment

Consideration of solutions

Consideration of solutions

- What are some potential solutions to the issue?

Next steps

Issue 72: Summary and next steps

- Recapitulation of the Issue group's first meeting
- We will circulate notes to Issue group members.
- ELEXON will conduct analysis as appropriate
- We will gather potential dates for the next Issue group meeting at an appropriate time subject to analysis.

Or;

- ELEXON will present the Issue 72 paper at the next appropriate Panel meeting