

MEP & ATH Forum

Component Certification

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Issues Identified with Component Certification

- Calibration assumed to be certification
- Calibration dates quoted as certification dates
- Stickers not compliant
- Installation certification reports not containing component certification details
- Unclear dates for installation and component certification and expiry
- Multiple additional dates causing confusion

Code Requirements - MEP

- ▶ **10.38 Certification of metering installations**
 - A metering equipment provider must—
 - (a) obtain and maintain **certification** in accordance with this Part—
 - (i) for each **metering installation** for which it is responsible; and
 - (ii) for each **metering component** in a **metering installation** for which it is responsible;

- ▶ **4 of Schedule 10,6: Metering equipment provider record keeping and documentation**
 - (1) A metering equipment provider must—
 - (b) for each **metering installation** for which it is responsible other than an **interim certified metering installation**, keep accurate and complete records of—
 - (i) the **certification** expiry date of each **metering component** in the **metering installation**; and
 - (iii) the manufacturer's, or if different the most recent, test certificate for each **metering component** in the **metering installation**; and
 - (v) all **certification reports** and **calibration reports** showing dates tested, tests carried out, and test results for all **metering components** in the **metering installation**

Code Requirements - ATH

- ▶ Selected component certification.
 - An **ATH** must, when it **certifies** a **metering installation** under this clause, ensure that the **metering installation certification report** includes confirmation that the **ATH** has—
 - (b) ensured that each **metering component** in the **metering installation** has been **calibrated** and **certified** as required in this Part;

- ▶ Comparative certification
 - An **ATH** may only use the **comparative recertification** method to **recertify** a **category 2 metering installation** in accordance with this Part if—
 - (b) each of the following **metering components** in the **metering installation** has been **certified** in accordance with Schedule 10.8:
 - (i) **data storage device**;
 - (ii) **meter**.

Step 1—Certification-of-Meter



Two-main-requirements

Calibration-report

(1(1)(b)-of-10.8)

Type-test-report

(1(1)(a)-of-10.8)

Meter-**certification**-report-(1(1)(d)-
of-10.8)

Certification-date

Validity-period-(no-expiry-date)

Meter-certification-expiry-determined-at-
the-time-of-installation-certification

Step 2—Installation-certification

Installation-**certification**-report-(8-of-10.7)

Certification-date-is-date-installation-certified

Expiry-date-is-commissioning-date-plus-validity-period-
(17(2)-of-10.7);-Note:-components-do-not-yet-have-an-
expiry-date.

Meter-certification-expiry-date-is-recorded-and-is-also-the-
commissioning-date-plus-the-validity-period-(27(2)-of-10.7)

Meter-certification-expiry-date-is-also-recorded-on-the-
meter-certification-report-(can-be-combined-with-
installation-certification-report)

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Type Test Report – Schedule 10.8

- ▶ An **ATH** must, before it **certifies** a **meter**, ensure that—
 - (a) an **approved test laboratory** has—
 - (i) conducted **type-testing** that the **ATH** considers appropriate for the model and version of **meter**
 - **approved test laboratory** means a test laboratory that has been accredited under the Testing Laboratory Registration Act 1972 to ISO 17025 for the specific test required
- ▶ Type testing must verify compliance with the relevant ICP standards

Calibration Report – Schedule 10.8

- ▶ ATH must obtain and review the meter calibration report to confirm the meter complies with the standards listed in Table 5 of Schedule 10.1
- ▶ Must be produced by an approved calibration laboratory.
- ▶ **approved calibration laboratory** means the Measurement Standards Laboratory of New Zealand, or a calibration laboratory that has been accredited under the Testing Laboratory Registration Act 1972 to ISO 17025, or an international laboratory that has been recognised by the Chief Metrologist for the specific **calibration** required

Certification Report

- ▶ Can be part of the installation certification report
- ▶ Must include
 - (i) the date on which it **certified** the **meter**; and
 - (ii) the **certification** validity period for the **meter** for each category of **metering installation** that the **meter** may be used in; and
 - (iii) the maintenance requirements for the **meter**; and
 - (iv) the **meter calibration report**; and
 - (v) whether the **certification** was based on batch test certificates; and
 - (vi) if the **certification** was based on batch test certificates, confirmation that the manufacturer's batch testing facility is, in the **ATH's** opinion, of an acceptable standard;

Note, no expiry date. This is included in the installation certification report.

Report Terminology

- ▶ Current Report terminology includes:
 - Test report
 - Commissioning report
 - Metering installation certificate
 - Meter sheet
 - Job detail report
 - Metering report
 - Installation report

Suggested Terminology

- ▶ Replicate the terminology in the Code, as follows:
 - Calibration report
 - Component certification report
 - Installation certification report

Certification Terminology and Dates

- Current date terminology in reports includes:
 - Meter livening date
 - Test date
 - Install date
 - Livening date
 - Checked date
 - Report date
 - Job complete date
 - Job due date
 - Expected livening date
 - Status date
 - Start date
 - Commissioning date

Issues Caused by Current Terminology

- Incorrect Active date
- Incorrect Initial Energisation Date
- Incorrect metering installation certification or expiry dates

- These errors can lead to incorrect line charge billing or incorrect submission or submission for incorrect periods.

Recommended Terminology

- Replicate terminology in the Code, as follows for ICPs:
 - Electrical connection date
 - Energisation date

- As follows for metering
 - Calibration date
 - Component certification date
 - Component expiry date
 - Installation certification date
 - Installation certification expiry date

Recommendations

- ▶ ATH technical managers ensure meters are type tested, calibrated and certified
- ▶ Adopt consistent terminology for reports
- ▶ Adopt consistent terminology for date fields
- ▶ Ensure all reports and dates are clear for others who will use the information