

From: McKendry, David [<mailto:DavidMckendry@hydroottawa.com>]
Sent: March 7, 2017 9:54 AM
To:@gmail.com
Subject: FW: Smart Meter Calibration - further questions

xxx, I trust that the following may be of assistance.

Dave

A. Do I understand it correctly that Measurement Canada transfers its responsibility for calibration of devices to the manufacturer? If so, under what legislation is this permitted/authorized?

Measurement Canada references:

Can I Count On My Meter?

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm03961.html>

and,

E-26—Reverification periods for electricity meters and metering installations

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm00597.html>

and,

Electricity and Gas Meter Inspection Services

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm03991.html>

and,

Electricity — Complete list of accredited service providers

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm00525.html>

B. If Measurement Canada transfers it's responsibility to calibrate Smart Meters to the manufacturer of the Smart Meters, are there specifications to be met and how is the accreditation earned by the factory?

Measurement Canada references:

Measurement Canada - About us

https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/h_lm00013.html

and,

S-A-01:2016—Criteria for the accreditation of organizations to perform inspections pursuant to the Electricity and Gas Inspection Act and the Weights and Measures Act

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm00432.html>

C. Would it be possible to get the criteria the factory had to meet in order to be accredited to calibrate Smart Meters?

Measurement Canada references:

S-A-01:2016—Criteria for the accreditation of organizations to perform inspections pursuant to the Electricity and Gas Inspection Act and the Weights and Measures Act

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm00432.html>

and,

E-26—Reverification periods for electricity meters and metering installations

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm00597.html>

and,

EL-ENG-11-01—Initial certification of calibration consoles by organizations delegated by Measurement Canada

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm04507.html>

and,

EL-ENG-12-01 — Requirements for the certification and use of measuring apparatus—electricity meter calibration consoles

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm04604.html>

D. Would it be possible to get the specifications provided by Measurement Canada to the factory that informs the factory on the calibration process to be adhered to?

Measurement Canada reference:

S-E-02—Specifications for the verification and the reverification of electricity meters

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm00171.html>

E. Is there any independent 'inspection' process undertaken by Measurements Canada that ensures the calibration procedure followed by the factory is actually calibrating the Smart Meters consistently and accurately? In fact, perhaps you could elaborate on what checks are in place to ensure the factory is actually calibrating the Smart Meters?

Accredited Meter Verifiers are subject to annual audits; Measurement Canada product audits, Measurement Canada Quality / Accreditation Audit, and ISO 9001 registration and surveillance audits consistent with and covering the required elements and others as required by this Federal Regulator.

F. What is the name and location of the factory where the Hydro One Ottawa Smart Meters are manufactured?

Measurement Canada references:

<https://www.ic.gc.ca/eic/site/mc-mc.nsf/eng/lm00525.html#Elstere>

Elster Solutions, LLC (formerly Elster Electricity, LLC)

Raleigh, North Carolina, USA – additional testing facility in San Luis Potosi, Mexico

Certificate Number: A0233

Accredited since 2006-04-12

Date: 2013-10-10 (Present scope of accreditation)

Organization type: manufacturer

Device type or class: electronic single phase energy meters / electronic polyphase energy meters / electronic demand meters

Inspection type: 100% verification

----- Forwarded message -----

From:@gmail.com

Date: Mar 6, 2017 9:52 PM

Subject: RE: Smart Meter Calibration - further questions

To: "McKendry, David" <DavidMckendry@hydroottawa.com>

Cc:

Notice: External Email

Thank you Dave.

As you probably anticipated, this has generated a few more questions in my mind:

1. Do I understand it correctly that Measurement Canada transfers its responsibility for calibration of devices to the manufacturer? If so, under what legislation is this permitted/authorized?
1. If Measurement Canada transfers it's responsibility to calibrate Smart Meters to the manufacturer of the Smart Meters, are there specifications to be met and how is the accreditation earned by the factory?
1. Would it be possible to get the criteria the factory had to meet in order to be accredited to calibrate Smart Meters?
1. Would it be possible to get the specifications provided by Measurement Canada to the factory that informs the factory on the calibration process to be adhered to?
1. Is there any independent 'inspection' process undertaken by Measurements Canada that ensures the calibration procedure followed by the factory is actually calibrating the Smart Meters consistently and accurately? In fact, perhaps you could elaborate on what checks are in place to ensure the factory is actually calibrating the Smart Meters?
1. What is the name and location of the factory where the Hydro One Smart Meters are manufactured?

Many thanks for your patience in responding to this...it is fine to respond during regular business hours.

XXXXX XXXXX

From: McKendry, David [<mailto:DavidMckendry@hydroottawa.com>]
Sent: March 6, 2017 9:10 PM
To:@gmail.com
Subject: RE: Smart Meter Calibration

XXXX, answers below in red... Dave

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www.hydroottawa.com

From: McKendry, David
Sent: March-06-17 8:38 PM
To: X..... X...
Subject: RE: Smart Meter Calibration

Thanks for the clarification XXXX. Will get back to you.

Dave

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From:@gmail.com
Sent: March-06-17 3:52 PM
To: McKendry, David
Subject: Smart Meter Calibration

Notice: External Email
Hello Mr. McKendry,

I called Hydro One offices to learn who calibrates Smart Meters and how often they are recalibrated—I was advised to contact your office for answers.

Please focus your response clearly and concisely to my questions and feel free to response in the body of this email in a different colour font:

1. Are Smart Meters calibrated and if so, by whom,

The meters are factory calibrated, inspected and sealed in compliance with Measurement Canada meter accreditation.

1. How often are Smart Meters recalibrated, and

Meters are re-inspected by Hydro Ottawa 10 years after initial factory inspection under a Measurement Canada accreditation program. Meters may be physically tested yet may alternately be extended in service through statistical methods.

1. Where do we find confirmation that our Smart Meter has been calibrated/recalibrated specifically – on the meter, on our electricity bill...where?

The inspection information is not on the energy bill, that data resides in Hydro Ottawa's billing system. Electronic meters are not calibrated like old style meters at the time of re-certification, the accuracy is so high and consistent they are simply "as found" tested to capture the accuracy of the device for the inspection certificate.

I look forward to a speedy response focussed on the questions above, without distraction of other details about Hydro One that I don't need at this time.

Thank you,
Xxxx xxx
Ottawa, ON

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