

Revenue Metering Standing Committee

Minutes of Meeting

Date held: June 2, 2016	Time held: 9:00 AM	Location held: Crowne Plaza, Toronto Airport
Invited/Attended	Company Name	Attendance Status (A)ttended; (R)egrets; (S)ubstitute
Muhammad Ali	Ontario Power Generation Inc.	A
John Nodwodry	Ontario Power Generation Inc.	A
Jaspreet Nijjar	Hydro One Networks Inc.	A
Ai Uehira	Hydro One Networks Inc.	A
Mohnish Bilimoria	Hydro One Networks Inc.	A
Paul Szymanski	Hydro One Networks Inc.	A
Nishant Gehani	Rodan Energy Solutions Inc.	A
Robert Hnatejko	Rodan Energy Solutions Inc.	A
Geetika Tandon	Veridian Connections Inc.	A
Robert Gudzak	Waterloo North Hydro Inc.	A
Mike Kuntz	Waterloo North Hydro Inc.	A
Roger Ersil	Oshawa PUC Services Inc.	A
David Sharpe	Meter Services Peterborough Inc.	A
Daniel Luxmore	Hydro Ottawa Limited	A
Ted Villemaire	Powerstream Inc.	A
Ken Parkes	Powerstream Inc.	A
Philip Genovese	Horizon Utilities Corporation	A
Rob Henschel	Horizon Utilities Corporation	A
Bill Luo	Horizon Utilities Corporation	A
Paul Rempel	Enwin Utilities Ltd.	A
Mark Pearce	Enwin Utilities Ltd.	A
Hans Paris	Guelph Hydro	A
Ian Howard	Schneider Electric	A
Sera Moffat	Schneider Electric	A
Sandra Pedro	Schneider Electric	A
Chris Lane	Schneider Electric	A
Eric Langford	Langford & Associates	A
Richard Zaworski	IESO	A
Heather Kline	IESO	A
Yan Bechamp	IESO	A
Mohamed El-Madhoun	IESO	A
Neill Wong	IESO	A

Jurgen Van Dijken	CRU Solutions Inc.	R
Eddie Augusto	Powerstream Inc.	R
Frank Pignataro	Toronto Hydro-Electric System Limited	R
Ron Merrett	N-Sci Technologies Inc.	R
Jon Pasiak	N-Sci Technologies Inc.	R
Scribe: Neill Wong Please report any corrections, additions or deletions e-mail to scribe.		

All meeting material is available on the IESO web site at: [IESO Revenue Metering Standing Committee](#)

RMSC Agenda Items/Minutes:

1. Metering Installations Status Update (IESO - Mohamed El-Madhoun)

Presentation by IESO: Metering Installation Status Update

- 1.1 Seal Expiry & MC IT Temporary Permission
- 1.2 Online IESO
- 1.3 TCP/IP update
- 1.4 TCP/IP Phase 2 Implementation

Discussion/Questions:

- 1.5 Can a TCP/IP upgrade effective on July 1, 2016 be postponed to 2017?

IESO response: Deferral requests will be reviewed on a case-by-case basis. IESO will initiate conformance monitoring to track the progress of TCP/IP upgrades. Consideration will be extended to existing in-flight tasks which were set up under a staged implementation.

2. Measurement Canada Updates (IESO - Richard Zaworski, Mohamed El-Madhoun & Yan Bechamp)

Presentation by IESO: IESO and Measurement Canada Memorandum of Understanding

Presentation by IESO: Measurement Canada Updates – MC Consultations

Presentation by IESO: Measurement Canada Bulletins

Discussion/Questions:

- 2.1 Is the IESO a contractor?

IESO response: Contractor obligations and responsibilities are shared between the IESO and the market participant. Some IESO functions may be classed as a contractor activity. (e.g. maintaining the metering registry and metering database)

- 2.2 How far back will a metering error be reconciled?

IESO response: IESO will settle adjustments back to 2 years as supported by an IESO Level 3 audit.

2.3 Are changes to the EGIA (Electricity and Gas Inspection Act) being contemplated?

IESO response: Within the written EGIA act today, a “schedule” of IESO responsibilities will be developed (e.g. meter location and name; meter data). MC (Measurement Canada) will be assessing jurisdictional compliance of the EGIA act across Canada.

2.4 What is the purpose for a “Loss Compensation Agreement”?

IESO response: The market rules provide for fixed loss allocation based on breaker count, whereas for example, a loss agreement may be based on consumption and generation.

2.5 The main/redundant metering installation is not represented in the MC standard drawings.

IESO response: This drawing standard was not raised in any previous discussions with MC.

2.6 How is loss compensation programmed inside the meter managed after the meter is sealed?

IESO response: In the IESO-administered market, loss compensation is implemented outside the meter.

2.7 Why is CT connecting lead burden specified for not more than 50%?

IESO response: This specification does not reflect the reduced burden for modern day solid-state meters. IESO is proposing a 90% connecting lead burden threshold.

2.8 Discussion ensued around interval meter data and register meter data retention which is 6 years by MC statute, and 7 years by IESO data policy. SLUM data, or source meter data, consisted of encoder readings and pulse readings. PLUM data, or processed meter data, is seen to be translated meter readings.

3. Baseline Updates 35.1 (IESO – Yan Bechamp & Heather Kline)

Presentation by IESO: Baseline Updates 35.1

Presentation by IESO: MSP Performance Measure Tool

Discussion/Questions:

3.1 Market participants who operate shadow settlements systems should be aware that effective June 1, 2016 00:00:00, the loss precedence flag attribute is set YES to turn on cumulative equation losses for service points that are summary points.

3.2 MSP Performance Measure Tool will gather inputs from Online IESO RRMI, MTR, ARMI databases and MV90 RI log.

3.3 The 13 performance measures developed in the 2014 stakeholdering initiative will be used.

4. ION Meter Clock Drift (Schneider Electric – Ian Howard, Sandra Pedro, Chris Lane & Sera Moffat; Langford & Associates – Eric Langford)

Presentation by Schneider Electric: N/A

Discussion/Questions:

- 4.1 All generations of the ION 8600 series are affected (e.g. ION 8650). The clock drift issue is not hardware dependent, affecting meters of different componentry. Schneider is also reviewing various firmware release changes.
- 4.2 Schneider requested assistance from the IESO market with any:
- MV90 diagnostic logs
 - Meter data affected
- 4.3 IESO will share with Schneider any incidents of power outages and clock drift which may help to identify any patterns. However, any objections should be noted from the MSPs to attention of Heather Kline in IESO Settlements.
- 4.4 Schneider requested that for MTR (meter trouble report) problematic sites:
- To change the clock source to internal clock crystal using ION Setup, recording the change date/time.
 - To provide a snapshot of meter data (prior to clock source change) for Schneider in Victoria, B.C. to analyze

5. Station Service Estimates and Embedded Generation (Hydro One Networks Inc. – Mohnish Bilimoria & Jaspreet Nijjar)

Presentation by Hydro One Networks Inc.: Station Service Estimate Submissions

Presentation by Hydro One Networks Inc.: Tx Gross Load Billing – embedded generation registration process issues

Discussion/Questions:

- 5.1 New feeders will trigger a loss allocation change. However, the Loss Allocation Agreement in place should govern the percentage loss allocation between market participants.
- 5.2 Electrical work inside the substation will not result in Hydro One to install a retail meter, as such costs are not insignificant. Instead, a site survey will be completed.
- 5.3 The IESO requests to receive any results from Hydro One, where a comparative analysis of metered data versus site survey data, shows significant differences.
- 5.4 What will happen with the IESO's past station service meter audits?
IESO response: All open audits will require remediation to close out.
- 5.5 Hydro One will implement GLB (Gross Load Billing) for revenue recovery on a moving forward basis. [e.g. not for an EG (embedded generation) registered in 2006; but for EG registered in 2015 moving forward]
- 5.6 How does a LDC know which EGs are eligible? Hydro One will review and qualify.
- 5.7 It was pointed out that upon commercial operation, EG names also could change.

Action Item Summary

#	Date	Action	Status	Comments
1				
2				
3				