

Revenue Metering Standing Committee



Minutes of Meeting

Date held: <i>April 02, 2009</i>	Time held: 09:00 am	Location held: Monte Carlo Inn
Invited/Attended:	Company name:	Attendance Status: (A)ttended; (R)egrets; (S)ubstitute
Robert Henschel	Horizon Utilities	A
Luc Van Overberghe	Measurement Canada	A
Dominic Consorti	Hydro One	A
Vladimir Stanisic	Ontario Power Generation	A
Terry Court	Hydro One	A
Matt Weninger	Guelph Hydro Electric Systems	A
Tanya Laschuk	Veridian	A
Zoran Stojanovic	Utilismart Corporation	A
Mark Simpson	Brantford	A
Gary Nunes	Rodan Meter Services	A
Joanne Turner	Brookfield Power	A
Jeff Simpson	Wecast Industries Inc.	A
Guests:		
Selina Chang	Rodan Meter Services	A
Jennifer Darling	Utilismart Corporation	A
Jim Katsios	Hydro One	A
Kai Wong	Hydro One	A

IESO Staff :		
Richard Zaworski	IESO	A
John Antonakos	IESO	A
Neill Wong	IESO	A
Yan Bechamp	IESO	A
Cynthia Harrison	IESO	A
Scribe: <i>Name of scribe</i> Please report any corrections, additions or deletions e-mail to scribe		

All meeting material is available on the IESO web site at:

http://www.ieso.ca/imoweb/consult/revMetering_sub.asp

Agenda item below:

Item 1 – Items from last meeting

1.1 IESO to present in this meeting the following items:

- High Accuracy IT's Recommendations and Baseline Update – Presentation for this meeting
- End-to-End Proposal - Presentation for this meeting

1.2 Temporary No-Load Energization of Facilities – Presentation for this meeting

1.3 IT replacement – Metering Installations Upgrade Lead Time Working Group - Update

Item 2 – Seal expiry update

- 2.1 Presentation by the IESO (02 - Seal Expiry Update.pptx)
- 2.2 Approx. 97% of the 2003/4 seal expiries completed.
- 2.3 Approx. 97% of the 2005 seal expiries completed.
- 2.4 Approx. 94% of the 2006 seal expiries completed.
- 2.5 Approx. 87% of the 2007 seal expiries completed.
- 2.6 Approx. 61% of the 2008 seal expiries completed.
- 2.7 The above number do not include installations that have expires of IT's on IT dispensation.

Item 3 – Meter Installation Upgrade Lead Times Working Group

- 3.1 Presentation by the IESO (03 - MI Upgrade Lead Times WG.pptx).
- 3.2 Background discussion on how RMSC working group formed to address issues with long lead times identified by market participant in replacing IT's that have or are approaching expiry of Measurement Canada temporary permission
- 3.3 Working group members identified
- 3.4 Overview of items open for discussion by working group
- 3.5 First meeting held on Nov. 28, 2008.
- 3.6 IT Dispensation listing was update by IESO and Hydro One.
 - Approximately 1400 IT's do not have MC approval type
 - IESO will retain listing information for the purpose of issuing notification to MMP's with meter installations that have IT's on the temporary permission list.
 - IESO and Hydro One will work together to maintain list
- 3.7 Hydro One has had informal discussions with Measurement Canada. M.C. was receptive to discussions and will review suggestions and any further submission by Hydro One.
- 3.8 Hydro One lead time to complete IT replacement is approximately 36 months from initial application by MMP. Hydro considering updating H1 customer web page to reflect this time line.
 - H1 estimates that they will be able to accommodate 60 full metering installation upgrades annually
 - These upgrade to be split evenly between Hydro One installations and customer installations
- 3.9 Hydro One suggested that MMP's be permitted to replace Legacy meters with IESO Compliant meters when device seal year expires. IESO to review Market Rules and processes to determine if this can be done.
- 3.10 IESO clarified that changes to metering installations will be considered as a substantial upgrade requiring the metering installation to be registered under the "Decoration of Compliance" requirements.

Item 4 – 2008 Settlements Issues

- 3.1 Presentation by the IESO
- 3.2 In camera session only

Item 5 – Optical IT’s – Issues and Baseline Update

- 5.1 Presentation by the IESO (05 -Optical IT's.pptx)
- 5.2 It was presented to the group that during an audit of a metering installation using Optical IT’s, a significant finding was reported;
 - The ‘Maintenance Required’ and ‘Data Invalid’ LED alarms for the Optical Voltage and Current Sensor were active at time of the field audit
 - The corresponding action required by the IESO was for the MSP to provide details regarding the alarm status of the Optical Voltage and Current Sensor. Response to address impact on measurement accuracy and must be attested by the manufacturer. MSP to also provide routine maintenance procedures for ongoing monitoring and reporting of the alarm status of the Optical IT’s.
- 5.3 Issues identified by IESO resulted in the proposal to add a new section in the “Wholesale Revenue Metering Standard – Hardware” that will require MMP to address monitoring requirements.
- 5.4 Some concerns about the proposed wording were raised on how it would affect future Manufacturers of Optical IT’s. It was suggested to bring back alarms to meters for collection. It was identified that current systems may not be able to collect and identify alarm codes of IT products.
- 5.5 It was noted that the trend seemed to indicate that participants are abandoning current use of Optical IT’s or future plans that included these devices.
- 5.6 The group supported the wording and baseline changes proposed. Changes will be incorporated in Baseline 21.1 and be in effect as of June 3rd, 2009.

Item 6 – End to End Testing - Proposal

- 6.1 Presentation by the IESO (06-End to End and EUR proposed changes (April 02).pot)
- 6.2 Process redesign will reduce number of steps taken.
 - 6.2.1 New process focused on improving efficiency and effectiveness of the EUR process while verifying the IESO is reading and translating metering data accurately as registered by the MMP.
 - 6.2.2 No distinction between injected and true load test.
 - 6.2.3 Exact comparison of energy values limits possible multiplier errors in master file.
 - 6.2.4 Test will able to be performed to load levels as low as 0.1 amps
- 6.3 Some issues to be addressed for new process are:
 - Assurance that metering installation has been commissioned in accordance with MM 3.2 Appendix B
 - Changes to existing MSP processes and IESO processes

Item 7 – High Accuracy IT's – Recommendations and Baseline Update

- 7.1 Presentation by the IESO (07-HAIT WG Status Update.ppt)
- 7.2 Recommendation from High Accuracy Instrument Transformer Working group to adopt changes made by Measurement Canada, ANSI C57 and CAN/CSA standards and incorporates 0.15 and 0.15S accuracy class into the revenue metering standards.
- 7.3 Proposed dates for implementation and adopting high accuracy class CT standards into the wholesale market are: Jan 1, 2010 or July 1, 2010
- 7.4 Working group recommended to develop an alternative approach based on settlement of energy to evaluate CT operation below 10% rated nominal rate
- 7.5 General discussion with group:
 - Concerns that new standards are not perceived to be “Made in Ontario” solutions. Established national standards should be considered.
 - Clarification to 0.3 accuracy class with extended-range test not being accepted. This to take in effect with the acceptance of high accuracy IT's. IT's already in system will be addressed as approval is recognized by Measurement Canada and MFG.
- 7.6 Working group to finalize report and circulate to RMSC for acceptance.

Item 8 – ION Error 600 - Update

- 8.1 Presentation by the IESO (08-Error 600 April 02 2009.ppt)
- 8.2 Presentation by IESO (02b - Error 600 Dec 4 2008.ppt)
- 8.3 Issue brought to the attention of IESO by MSP in mid October. Further investigation revealed many MTR's issued (average of 125 per month) as a result of clock error and interval tolerance (error 600 present).
- 8.4 Changes made to how clock error MTR's are now issued. If Error 600 is present in ION meters event log an MTR is released.
- 8.5 IESO will to issue MTR for clock error (error 600) issue. If the meter experienced a single error 600 event, the MSP will instruct IESO to close the MTR. If second occurrence on same meter, it is expected that the meter be replaced. If the meter experiences multiple error 600 events on the first occurrence, the meter must be replaced.

Item 9 – MR-0339 – Temporary No-Load Energization of Facility –Baseline Update

- 9.1 Presentation by the IESO (09-Market Rule 00339 RMSC April 2 2009.ppt)
- 9.2 Overview presented outlining issues and changes to Market Rules and Market Manuals.
- 9.3 Market Rule changes will permit IESO to allow temporary connection to grid for the purpose of commissioning without RWN.
- 9.4 Market Manual changes will outline process for submitting request including requirements by MMP if request accepted by IESO.
- 9.5 Proposed solutions outlined and non compliance action taken if requesting participant fails to comply with granted request.
- 9.6 Market Manual Part 3.2: Meter Point Registration and Maintenance will be available for comments on IESO website April 9, 2009.

Item 10 – MV90 Initiatives – Update

- 10.1 Presented by the IESO (10a-MV-90 xi Direct Lines April 2 2009.ppt)
- 10.2 Review of previous communication set up and issues such as 911 calls being made by MV90 system
- 10.3 Outlined new direct phone line configuration for both Clarkson and Backup Center.
- 10.4 Results were not favourable due to infrastructure issues. It was discovered that Bell telephone lines to Clarkson location consists of 5 km of copper lines. The BOC center having only 100 meters of copper line yielded the results that were initially expected. Initial Bell tests suggest high level of noise on Clarkson phone lines.
- 10.5 Current configuration, BOC center used until issues can be resolved with Clarkson location.
- 10.6 Presented by the IESO (10b-MV-90 xi TIM Testing RMSC April 2 2009.ppt)
- 10.7 New method of testing TIM's adopted by IESO metering group results quicker and effective time interval.
- 10.8 Testing is broken down into four distinct phases
 - Phase 1: Functional Testing
 - Phase 2: Operational Testing
 - Phase 3: Implementation
 - Phase 4: Monitoring
- 10.9 Implement C++ TIM's for remaining IESO Conforming meters.
- 10.10 Presented by the IESO (10c-MV-90 xi TCPIP RMSC April 2 2009.ppt)
- 10.11 An update of the TCP/IP project with Hydro One was presented identifying status and successes of project.
- 10.12 Improvement to communication reliability was noticed.
- 10.13 Download times compared to TCP/IP communication with new TIM implementation.
- 10.14 Presentation by the IESO (10d-MV-90 xi TCPIP Communication Expansion RMSC April 2 2009.ppt)
- 10.15 IESO metering group in discussions with IT&I of IESO reviewing possible solutions to make TCP/IP communications available to Market Participants and how third party access to TCP/IP meters.
- 10.16 Next steps are to meet with MSP's to review requirements to allow registration of metering installations with TCP/IP communications.

Item 11 – Baseline Update

- 11.1 Presentation by IESO (11-Wholesale Revenue Metering Standard - Hardware_Baseline Update.ppt)
- 11.2 Presentation outlined number of changes required for the accepted use of high accuracy IT's.
- 11.3 Addition of new section outlining the requirement of monitoring of metering installations comprising of new electronic instrumentation transformers.

Item 12 – Walk-in Items

12.1 2009 IESO Audit Program

- Focus primarily on upgraded metering installations
- Confined to eastern, central and southern Ontario
- 140 meter points selected of 880 eligible meter points
- Proportioned by meters registered by all MSP's.

12.2 Hydro One Rate Order Implementation

- New rate class-sub transmission (ST) replaces LV rate
- Application of TLF and Transformer Loss Adjustment (TLA)
- Effective date May 1, 2009

12.3 Hydro One Suggestion

- It was suggested that the requirement to replace meters with expiring seal year with a like meters be changed to allow for IESO conforming meters to be installed even if metering installation is not undergoing an upgrade. This would improve the accuracy of meter data and mitigate the settlement issues experienced with delayed data reconciliation.
- IESO to review current position and report back.

Action Item Summary				
#	Date	Action	Status	Comments
1	April 2, 2009	Item #3 action. Meter Installation Upgrade Lead Times Working Group to continue to report updates to RMSC.	<i>Ongoing</i>	
2	April 2, 2009	Item #7 action. High Accuracy Instrument Transformer Working group to circulate completed report to RMSC for acceptance.	<i>Ongoing</i>	
3	April 2, 2009	Item #12-3 action. Report back to group the IESO's position on the request.	<i>Ongoing</i>	