Minutes of the [14th] Meeting of the Revenue Metering Sub-Committee

10 May 2006, 9:00 to 3:00
IESO Skymark Training Room

Attendees:

Vito Genovese, Horizon
Doug Currie, HydroOne Networks
Gary Nunes, Rodan
Vasilica Parpalea, Rodan
Gordana Andjelkovic, Hydro One
Luc Jarry, Utilismart Corp.
Graham Henderson, Hydro One
Al Dharshi, OPGI
Gordon Roberts, Wardrop Eng.
Keith Rye, Peterborough Utility Services Inc
Kevin Myers, Veridian
Dan Dumais, Falconbridge
Vlad Stanisic, OPGI
Jeff Simpson, Westcast Industries
Ron Merrett, Great Lakes Power
Randy Church, Hydro One
Rob Reid, N-Sci Technologies Inc.
Tom Wasik, Enersource Hydro Mississauga
Luc Van Overberghe, Measurement Canada
Doug Thomas, IESO
Rowan Jones, IESO
Richard Zaworski, IESO
John Antonakos, IESO

1. Items from Last Meeting

1.1. OEB rate order.
1.1.1. Target implementation May 1, 2006 now in effect. Details to be discussed at this RMSC meeting.
1.2. PME Bypass Switches
1.2.1. Dave Wilkinson & Herb Haller to develop process.
1.2.2. Use of condition guarantee is not an option. There will be a Terminal Point Tag.
1.2.2.1. Notification of operation between two parties. The host LDC will be assigned controlling authority when MP is embedded and the IESO when MP is directly connected.
1.3 Monthly MSP performance Reports
1.3.1 Can reports be issued for MSP to Delivery Points?
1.3.2 Will be investigated. There is a need to develop reporting process.

2. Update on seal expiry progress.

2.1. Presentation by the IESO (2 - Seal Expiry Update_060510.pdf).
2.2. Approx. 81% of the 2003/4 seal expiries completed.
2.3. Approx. 67% of the 2005 seal expiries completed.
2.4. Approx. 78% of the 2003/04/05 seal expiries completed.
2.5. Approx. 24% of the 2006 seal expiries completed.
2.6. Positive trend continues.
2.7. Remaining Meter installations will probably be the more difficult to complete.

3. Hydro One 2006 Rate Order

3.1. Presentation by IESO (3a – OEB 2006 Rate Order .pdf)

3.2. OEB rate orders –Update on LDC rate orders on OEB web page, www.oeb.gov.on.ca/html/en/consumers/understanding/2006edr_decisions.htm
3.2.1. Some submissions are still not approved.
3.2.2. Hydro One TLF has not changed. New Engineered calculations for express to be detailed by Graham Henderson.
3.2.3. Effective May 01, 2006.
3.2.4. 2006 Rate Order does not detail SSLF and DLF. TLF is only listed.
3.3. MSP are to follow the same procedures and initiate Meter registration with TLF changes.
3.3.1. Effective date of changes made to TT is based on the Settlement Calendar and determined by time lines of the preliminary and NOD windows.
3.4. Approx. 380 installations affected are embedded points and approx 50 are end use customers (NON-LDC).
3.4.1. Priority will be given to end use customers (MMP's)
3.4.2. MSP of end use MMP's have been notified.
3.5. IESO to meet with OEB.
3.5.1 Review Market Manual 3.7 Appendix D Settlement Principals
3.5.2 Verify TLF definition in 2006 Rate Order.
3.5.3 Confirmation of TLF Pancaking. Should MSP's wait for OEB clarification (Vito Genovese – Horizon Utilities)?
3.5.4 Does OEB have precise definition for Secondary Metered to Primary Metered customers? (Gary Nunes – Rodan)
3.5.5 What criteria to be used for >< 5 Megawatt customers
3.5.1 IESO to provide of update of meeting with OEB with minute distribution.
3.5.2 Graham Henderson – Hydro One suggested that the RMSC make decision on action to be taken in the event of OEB delays.
3.6. **Presentation by Graham Henderson (3b – Hydro One 2006 Rate Order .pdf**)
3.6.1. Hydro One RTSR tariffs will be calculated on aggregate demand loads
3.6.2. LV rate implementation effective May 01, 2006.
3.6.2.1 Difference in calculation is that it will be applied on a per feeder basis for LDC's
3.7. Hydro One TLF has note changed. Some changes to application of rate.
3.7.1. A true calculation of the TLF for customers having MP outside Hydro One facilities.
3.7.2. Radial Line losses to be calculated back to MP.
3.8 Rate Order defines "Express Feeder" as feeder supplies only one customer.
3.8.1 Emergency taps on a feeder disqualify a feeder to be determined "Express".
3.8.2 Express feeder may be changed at any time if a customer is added. Hydro One will not supply calculations.
3.9 Graham Henderson suggest that a consistent approach of using 0.6% in TLF calculations at TS MP's. A consensus on a method used must be agreed to by RMSC to use 0.6% or the calculated value in the TLF calculations. Hydro One does not intend to force this option. Their view is to offer a benefit to customers using 3.6% for calculations to the TS_MP.
3.9.1 IESO to review SSLA calculation at DS stations. Suggestion that loss adjustments are per rate order are recorded on TT.
3.10Tom Wasik – Enersource Hydro asked how Hydro One is to communicate to MMP's. Hydro One not finalized any plans to how and who to tell.
3.10.1 Question if MMP's need to request information for TLF calculation on behalf of MSP's. Hydro One comfortable with existing relations with corresponding MMP's

4. Emergency Load Reduction Program (ELRP) Update

4.1 Presentation by the IESO (Emergency Load Reduction Program (ELRP) rev 2.pdf)

4.1.1. ELRP to be in effect as early summer. No end date to this program.

4.2 Two types of activities, Day Ahead & Day At Hand

4.2.1 Notification to participant is implemented very early in the process.

4.2.2 Program will operate weekdays from 08:00hr to 20:00hr. Participating customers must be available 24/7 for notification if condition is put into affect. This includes Sunday's for Monday activity.

4.3 Participating customers have no guarantee of activation and will only be paid if activated.

4.3.1 Money paid out for standby mode is not significant but when activated it can be beneficial to customer.

4.4 Statistical method of calculating load reduction will be allowed to ensure that we don't loose opportunity to A/C type loads to assist in ELRP.

4.5 Target is to have 500 MW of load available for reduction. Will try to secure 200 MW for this summer.

4.6 Market Manual available on Web site.

4.6.1 Al Dharshi – OPG asked if penalties will be issued if contracted deliveries are not met. Answer is that although there are no penalties, the parties involved will be talk to if they consistently under deliver.

4.6.2 What if participant over delivers their expectations. Only 20% of over delivered reduction will be paid, the rest will not be compensated.

4.6.3 Will IESO wait for participants or approach potential clients. IESO is both approaching and receiving participants to ensure that emergency conditions are addressed.

4.6.4 Rob Reid questioned if historical data was available to support plan. No real captured data but still is needed to address daily changes on system.

4.7 General comments from Randy Church is that in the 80's there were similar programs such as Water Heater controlling that work well in load reduction and sees program being successful.
Gary Nunes asked if comparisons be made available to group, IESO agreed that this can be done.

4.8 Voltage reduction will not be part of program, only load reduction.

5. Power Supply Options to Meter – Hydro One

5.1. Presentation by the Gordana Andjelkovic Hydro One (5 - Meter Power Supply Options .pdf).

5.2. During periods of Non-Standard Operating Conditions, there are concerns with having Alt. Meter powered by VT's while TX is de-energized for extended time period.

5.2.1. If TX is de-energized for a significant amount of time the battery in the meter may fail rendering the meter useless.

5.2.2. If TX is de-energized during IESO interrogation, MTR will be generated consistently.

5.2.2.1. HONI has identified 5 stations that can operate under these non-standard conditions.

5.3. Recommendation to Alternate power supply to Alt. meter standardized.

5.3.1. One recommendation is that use of auto transfer relays that are connected to both SS for Main and Alt. meter between VT's for both meter installations.

5.3.1.1 Question was raised as to how fast the transfer will take. The transfer will take approx. 2-3 seconds.

5.3.2. Benefits are that daily MTR's for no communications conditions are eliminated as well as reliability in ensuring proper market settlement.

5.4. Gordana Andjelkovic proposed a vote to the RMSC to agree in principal to a Standardized approach to AC supply to meters in non-standard operating conditions.

5.4.1. RMSC unanimously accepted proposal. IESO to review Hardware Standard.

6. Power Supply Options to Meter – Rodan

6.1. Presentation by Gary Nunes (6,7,8 – Rodan Presentation to RMSC(May 10-06).pdf)

6.2. Carry over on issued raised by previous presentation.

6.2.1 Recommendations made that both Main and Alternate meters have auxiliary power supplies.

6.2.1.1 Question as to how proposal complies with IESO Hardware standard.

6.2.1.2 IESO to determine what is considered a separate source. Take away both proposed methods (Hydro One & Rodan) and review how the Market Rules are affected. Will review any issues that arise at next MSP meeting.

7. IT Secondary Cabling Color Codes

7.1. Presentation by Gary Nunes - Rodan (6,7,8 – Rodan Presentation to RMSC(May 10-06).pdf)

7.2. An IESO requirement is that Measurement Canada colour coding be followed.

7.2.1 When trying to colour code larger size wires such as #6 & #8 it can be very costly. Recommendation is that IESO requirements not met in some conditions were cost or it's not practical.

7.3. Luc Van Overberghe – MC stated that Measurement Canada accepts both MC and local LDC standards.

7.4. Comments

7.4.1. IESO Market Rules have no flexibility that MC offers.

7.4.1.1. IESO will look at the issues and report back on how conditions are to be handled. May consider putting tagging guidelines into place.

8. SSLA and De-Energized Transformers

8.1. Presentation by Gary Nunes (6,7,8 – Rodan Presentation to RMSC(May 10-06).pdf)

8.2. Issues are that costs accumulate for MMP that have de-energized transformers.

8.2.1 MMP have option to re-register Meter Installations with new SSLA under these conditions.

8.2.1.1 Problems with the above are that it may be unknown what time duration of this condition may apply. It may not be cost effective and to onerous of a task.

8.3. IESO is notified of outage conditions of TX for Meter processing and MTR issues.

8.3.1. Vito Genovese – Horizon suggest that MV-Star changes can help this issue.

8.3.1.1. IESO stated that there are many other conditions to cover as well as the above.

9. Compliance Aggregation

9.1. Presentation by the IESO (9 - Compliance Aggregation .pdf)

9.2. Participation

9.2.1 In current model of registration, need to re-assign new DMP ID's are required.

9.2.2 Tom Wasik – Enersource questioned if it would apply to Ramp-up & Ramp-down conditions.

9.2.3 Gary Nunes questioned who is leading this change.

9.2.3.1. IESO Facility registration is taking lead on program. Meter group to implement settlement process.

10. 25 Hz Meters – ION 7700

10.1. Presentation by Doug Currie (10 – 25hz Cycle Metering Standard .pdf).

10.2. Issues are that there currently is no IESO compliant meter as well as MC approved meter for 25 Hz metering.

10.3. PML has done some testing at varying voltages (57v – 120v) and verifies that the meter performs well.

10.3.1 Hydro One and Measurement Canada to determine approval of Meter Type. MC still regulates 25Hz measurement and is willing to work towards solution.

10.4. RMSC need to agree on direction being taken and MC need to approve meter. IESO will need to update Compliant Meter listing and review market rules to determine if other sections are affected, if direction is taken.

10.5. Questions and comments.

10.5.1. Why is the ION 7700 selected for 25Hz metering.

10.5.1.1 The ION 7700 exists and has been tested for accuracy. Looking at some of the compliant meters the cost would be too great for minimal loads.

10.5.1.2 IESO to determine what Market Rule Standards are impacted when MC approves ION 7700. One requirement the ION 7700 does not meet is security codes settings. Some exemptions may be applied if accepted.

11. Use of Slip-over CT's

11.1. Presentation by Vito Genovese – Horizon Utilities (11 – Slip Over CT .pdf).

11.2. Current devices are not Revenue Approved devices by MC.

11.3. Manufacture will seek MC approval only if orders are place for these units.

11.3.1 Hydro One does not have current approval for the use of these devices on there facilities but will review the request and answer back to the RMSC. If approved, it would help old installations in the registration process.

11.3.2 MC recommends that a submission for approval be put into the queue now to avoid delays if a decision is made to proceed.

12. Measurement Canada IT Temporary Permission – HONI Update

12.1. Presentation by Randy Church (12 – RMC-MC Temp Permission-May 10-2006.pdf).

12.2. Progress has been made on finding and verifying IT test cards, and updating PSDB database.

12.3. PML working on developing test equipment for testing of IT's under load conditions.

12.4. Hydro One's highest issue is the cost to replace non MC approved IT's. The projected cost is between 40 to 70 million dollars. Other then money, there are Hydro One resource and contractor availability, as well as other unknown problems that may arise.

12.5. IESO working with Hydro One to see what relief maybe offered by Market Rules but MC approval is required

12.6. Question was asked if some CT's can be approved if accessible. One problem is that in some cases the station needs to be taken out of service for hours.

13. HONI PSDS – Update

13.1 Presentation by Randy Church (13 – RMC-PSDB Data for SSLA-May 10-2006.pdf).

13.2 Of 776 TX's available for SSLA calculations – 726 TX's test cards have been found and have been verified and are 95% correct. Values used for SSLA calculations are only being verified.

13.3 Suggestion made that remaining 50 TX's with no cards, have similar TX types cards used for approval if MC accepts process.

14. MR-0312 Update

14.1 Presentation by the IESO (14 – MR-0312 .pdf).

14.2 Update on the status of the Market Rule Amendment to be reviewed and if accepted to be completed by end of fourth quarter.

15. Update on Alpha Framework Development

15.1 Presentation by the IESO (15 – 20060510_IESO_Conforming_Meter_Frameworks.pdf)

15.2 Update on progress with Alpha meter.

15.2.1. Required to program meter to record both KW Del & KW Rec. This is done in the "Quantities Metered" section of the meter programming.

Next Meeting: 6th September 2006 at Skymark