

End to End Testing/Engineering Unit Report Proposed Changes

MSP Working Group
March 12, 2009



- Working group established to review proposed changes to process outlined in Market Manual 3.2, Appendix B (Requirements for Commissioning a Metering Installation) and Appendix C (Guidelines for Conducting End-to-End Testing and Meter Master File Comparison)
- Working group to meet March 12, 2009 (1 day session)
- Participants include:
 - David Sharpe – Peterborough Utilities Inc.
 - Vito Genovese – Horizon Utilities
 - Selina Chang– Rodan Energy & Metering Solutions Inc.
 - Terry Court – Hydro One Networks Inc.
 - Roger Ersil – PowerStream Inc.
 - Richard Zaworski – IESO
 - John Antonakos – IESO

- MR's define obligations – no change
 - MMP must ensure the meter installation complies with requirements of IESO MR's, policy or standards
 - Chapter 6, section 3.1
 - MSP's responsible for the provision, installation, commissioning, maintenance, repair, replacement, inspection and testing of metering installations – Appendix 6.2, section 1.3.1.1
 - IESO to initiate and perform any end-to-end testing required prior to registration of a metering installation – Chapter 6, section 13.1.1.10

- Purpose of the end to end test is to confirm that the IESO is accurately reading and translating meter data
 - efficient, effective and transparent process

- **Efficiency** - Current EU Reporting process involves numerous hand-offs between IESO and MSP
 - Submitted EUR by year; 2005-1061, 2006-734, 2007-657, 2008-864 & 2009-182(TD)
- **Effectiveness** – Current EU Report does not confirm that IESO is accurately reading and translating meter data with 100% certainty. ‘Holes’ in some areas (although mitigated to some degree).
- **Effectiveness** – True load test requires $>0.25A$ for completion of EU Report
- **Effectiveness** – VAR issue during some loading conditions
- **Effectiveness** - Does not address the accuracy of the metering installation. (Proper commissioning confirms metering installation accuracy)

- Reduce hand-offs of EU Report resulting in quicker completion of meter registration process
 - IESO_{SP} to MSP to IESO_{SP} (3 steps)
- Opportunity to automate both MSP and IESO processes
- Energy values compared instead of demand values
- No differentiation between True Load and Injection Load Test.
- Enhanced MIRT validation as part of registration process

- **EUR Report package to include**
 - Cover page
 - Master file information in IESO systems (MIRT file information as submitted by MSP)
 - Interval data report for all meter channels which includes raw meter data (pulse counts) and translated data (energy values)

- **New process**

- Requires more information to be collected by field staff to confirm Master file used by IESO to interrogate meters
- Requires exact comparison of IESO translated data to MSP translated data
- Energy values compared instead of Demand values
- No declarations required
- Lower test currents accepted (new min to be established)
- No assumption of proper meter installation commissioning
- Process can potentially be completed in a four hour period

- Number of issues need to be considered
 - Injection test and True Load test
 - Changes to commissioning process and EU reporting meets the objectives of the injection test.
 - Main/ Alt comparison.
 - If lower current level established, need to consider resolution of meter types to ensure function can be performed.
 - Identification of data pre and post meter changes
 - Need to identify source of meter data (meter replacements).
 - How will edits be handled?

- Meter only change out (Compliant and Legacy)
 - Process to ensure EU Report has capability to provide report on one meter only change out or two meter change out.
- Consideration to no load at time of meter change out.
- Changes to existing MSP processes and IESO processes
 - Process changes to address enhancements to commissioning and EU reporting
- IESO Metering staff is no longer directly involved with EU Report process. Will continue to provide support to Production staff.

- As a result of changes to EUR process, IESO will require assurance that metering installation is commissioned in accordance with MM3.2 Appendix B



- Review with MSP's on May 07, 2009
- Introduce new EU Report form,
- Propose changes to MM 3.2 and Appendix B & C
- Provide training to all parties affected by process change (Function by IESO & MSP)
- Implement by Q4/2009