



Market Rule Amendment Proposal

PART 1 – MARKET RULE INFORMATION

Identification No.:	MR-00342-R00		
Subject:	Revenue Metering		
Title:	Toronto Hydro High Voltage Revenue Metering Proposal		
Nature of Proposal:	<input checked="" type="checkbox"/> Alteration	<input type="checkbox"/> Deletion	<input type="checkbox"/> Addition
Chapter:	6	Appendix:	
Sections:	2.1		
Sub-sections proposed for amending:	2.1.1.1		

PART 2 – PROPOSAL HISTORY

Version	Reason for Issuing	Version Date
1.0	For Technical Panel Review and Comment	20 February 2008
2.0	For Technical Panel Review and Comment	12 March 2008
3.0	For Revenue Metering Standing Committee Review and Comment	28 March 2008
4.0	For Technical Panel Review and Comment	16 April 2008
5.0	Published for Stakeholder Review and Comment	1 May 2008
6.0	For Technical Panel Vote	26 May 08
7.0	Recommended by Technical Panel. Submitted for IESO Board Approval	10 June 2008
Approved Amendment Publication Date:		
Approved Amendment Effective Date:		

PART 3 – EXPLANATION FOR PROPOSED AMENDMENT

Provide a brief description of the following:

- The reason for the proposed amendment and the impact on the *IESO-administered markets* if the amendment is not made.
- Alternative solutions considered.
- The proposed amendment, how the amendment addresses the above reason and impact of the proposed amendment on the *IESO-administered markets*.

Summary

This amendment proposes to allow the use of a single revenue metering installation for more than one connection point, more than one facility and more than one defined meter point. This amendment is required to facilitate a proposal that would allow market participants to install high voltage revenue metering in specified circumstances.

Three types of amendments are proposed:

- First, to explicitly permit a single metering installation for more than one connection point, more than one facility and more than one defined meter point. Refer to R00 and R01.
- Second, to impose new obligations on the market participant installing these revenue metering installations to review associated information and calculations on an annual basis and when material changes occur within the revenue metering envelope. Refer to R02.
- Third, to authorize the IESO to not permit such a metering installation to be registered or used for settlement purposes unless the IESO is satisfied with the accuracy of the energy measurements of the metering installation. Refer to R01 and R03.

This amendment would allow market participants to save a significant amount of money associated with installing or upgrading revenue metering, while maintaining the settlement integrity of the IESO-administered markets. Application to other market participants, while not apparent today, may become more apparent as the Ontario electricity sector evolves: e.g. merger of local distribution companies or large industrial consumers with multiple connection points.

Background

Toronto Hydro-Electric System Limited (THESL) has approached the IESO with a request for market rule amendments that would allow THESL to install high voltage revenue meters rather than upgrade existing (low voltage) metering installations to meet the full market rule requirements¹. THESL has been developing this proposal for a number of years, in consultation with the IESO, Hydro One

¹ Background information on the THESL proposal can be found on the IESO public web site at the following locations:

http://www.ieso.ca/imowebpub/200711/rm_pres-20071004-IESO_Presentation.pdf

http://www.ieso.ca/imoweb/pubs/tp2007/tp207-5_Presentation_THESL_HV_Revenue_Metering.pdf

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Networks and the IESO Revenue Metering Standing Committee. THESL has identified that acceptance of this proposal would result in substantial costs savings to THESL and their end-use customers.

Existing Revenue Metering Framework

In order to appreciate the consequences of the THESL proposal, one needs to have an appreciation of the existing revenue metering framework within the IESO-administered markets. A number of market rule definitions are key to understanding the existing framework:

“*connection point* means a point of connection between the *IESO-controlled grid* and a *generation facility* or *load facility*, or the point at which a neighbouring *transmission system* is connected to the *IESO-controlled grid*;

defined meter point means:

(a) in respect of a *facility* connected to the *IESO-controlled grid* by a *connection facility* that is a radial line designated by the *IESO* for such purpose, the point at a voltage above 50 kV at which the designated radial line is connected to (i) the high voltage bus of the facility, or (ii) the facility, if there is no such high voltage bus;

(b) in respect of a *facility* connected to the *IESO-controlled grid* by a *connection facility* other than one referred to in (a), the point at a voltage above 50 kV at which the *connection facility* is connected to the *IESO-controlled grid*; and

(c) in respect of an *embedded market participant*, the point at which the *embedded market participant’s facility* is connected to the *distribution system* within which it is embedded;

delivery point means a uniquely identified reference point determined in accordance with section 2.4A.1 of Chapter 9 and used for *settlement* purposes in the *real-time markets*, other than in respect of transactions involving the transmission of *energy* or *ancillary services* into or out of the *IESO-controlled grid* from a neighbouring *transmission system*;

meter point means, in respect of a load facility and of a generation facility with respect to which the current transformers are located on the output side of the generation facility, the physical location of the current transformers used to measure power flow and, in respect of a generation facility with respect to which the current transformers are located on the grounded side of the generation facility, the physical location of the voltage transformers;

metering installation means any apparatus, including but not limited to an *RWM*, used to measure electrical quantities and includes the communication system by which metering data is transferred to the relevant telecommunications network through which metering data is transferred to the communication interface of the metering database;

registered wholesale meter or *RWM* means a meter that meets the criteria specified in Chapter 6 and that is registered with the IESO. References to a registered wholesale meter or RWM within Chapter 9 also include meters in metering installations whose registration has expired but the IESO determines that the continued use of the metering installation is necessary for the efficient operation of the IESO-administered markets;”

For directly connected facilities, the IESO-administered markets revenue metering provisions are based on the following relationships:

- For a given facility, the defined meter point and delivery point are located at the connection point.

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- Each connection point for a facility has a unique metering installation (Ch 6 sec 2.1.1)
- Meter point (the location of the RWM current transformers) should be located at the defined meter point and if the meter point is not located at the defined meter point, site-specific loss adjustments are required to reflect the losses between the meter point and the defined meter point (Ch 6 sec 4.2.)
- Where the RWM is used for determination of transmission charges, the transmitter needs to approve the meter point documentation (Ch 6 sec 6.1.2A)

Chapter 6 of the market rules specifies the wholesale revenue metering standards. There are two standards: a full Chapter 6 standard, and an alternative metering installation standard (AMIS). Section 4.4 of Chapter 6 allows for registration of legacy metering installations under the AMIS. The expiry of registration under AMIS is triggered by either the expiry date of the revenue meter seals or by a substantial upgrade of the metering installation or the facility. Upon the expiry of the alternative standard registration, the market participant is required to upgrade the installation to meet the full Chapter 6 standard.

THESL Situation and Proposal

THESL has a total of 106 existing revenue metering installations. Of these, 71 are in the downtown transmission corridor and form part of this proposal. Considering these 71 installations, 27 have been partially upgraded to be compliant with the full Chapter 6 standard.

The connection facilities associated with these 71 installations are owned by THESL or Hydro One Networks. The transmission lines and facilities upstream of the 71 installations are part of the IESO-controlled grid. The end-use consumers connected to these 71 installations are, with one exception, THESL retail customers. The cost of completing all the required upgrading of the existing metering installations to the full Chapter 6 standard is estimated at \$40-\$45 million.

As an alternative to upgrading all the 71 existing revenue metering installations, THESL proposes to install fourteen (14) metering installations upstream of the existing installations, at the two main transformer stations (Sheppard and Manby) that feed the downtown Toronto area. The arrangement would be as follows:

- Sheppard TS – six metering installations, 1 energy delivery point, 2 transmission delivery points.
- Manby TS (North) – four metering installations, 1 energy delivery point, 2 transmission delivery points
- Manby TS (South) – four metering installations, 1 energy delivery point, 2 transmission delivery points

The proposed metering installations would be compliant with the full Chapter 6 standard and would become the energy delivery points for the settlement purposes. The defined metering points and the connection points associated with the existing 71 metering installations would not change, as the boundary of the IESO-controlled grid is not changing.

THESL acknowledges that the following two adjustment factors will be required to make the high voltage metering equivalent to the existing metering:

- Transmission line losses between the three proposed energy delivery points and the defined meter

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points to ensure that the energy consumption and transmission line losses are equivalent; and

- Load diversity of the existing connection points to ensure that the transmission demand charges are determined equivalently.

Over the past two years, THESL has developed a mathematical model that would calculate the above adjustments accurately, based on an IESO methodology and using information supplied by Hydro One Networks.

THESL has estimated the cost of installing the 14 high voltage revenue metering installations to be \$15 million.

Approximately 10% of the energy consumed in Ontario would be measured under this proposal.

Comparison of THESL Proposal to Existing Market Rule requirements

The THESL proposal would not be allowed under the existing market rules because the existing revenue metering framework did not contemplate high voltage revenue metering for multiple defined meter points and connection points. For example:

- Section 2.1 of Chapter 6 implies that there is a specific revenue meter installation for each connection point. The THESL proposal would have one revenue metering installation for many connection points.
- Section 4.2 of Chapter 6 implies a unique metering installation for a single facility and single defined meter point. The THESL proposal would have a single metering installation for many facilities and defined meter points.

Market rule amendments are proposed to allow the THESL proposal, rather than using the exemption process, for the following reasons:

- The THESL proposal is an enduring solution to their situation and is a permanent alternative to the existing requirements. Such permanent solutions should be specified within the market rules.
- Using the market rule amendment process allows for direct stakeholder review, input and influence on the proposed changes, and related potential future changes through the Technical Panel.
- Enshrining the changes as market rules would allow for application of the requested changes to other market participants in the future.

Discussion

This amendment proposes to clarify that a single metering installation may be associated with more than one connection point or embedded connection point (refer to section 2.1.1.1 below).

This amendment is a clarification, as the existing rules do not explicitly require a one-to-one correspondence between metering installation and connection point. The clarity provided by this amendment would improve transparency and remove ambiguity.

It should be noted that the existing rule requirement that a metering installation complies with the other market rule requirements would apply to a metering installation associated with more than connection point and embedded connection point.

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2. Requirements for Metering Installations

- 2.1.1 Subject to section 2.1.3, the *IESO* shall not permit a person to participate in the *real-time markets* or the *procurement markets* or to cause or permit electricity to be conveyed into, through or out of the *IESO-controlled grid* in respect of a *connection point*, other than an *interconnection*, or in respect of an *embedded connection point* unless the *IESO* is satisfied that:
- 2.1.1.1 the *connection point* or *embedded connection point* has an associated metering installation that, subject to section 4.4, complies with the requirements of this Chapter and of any policy or standard established by the *IESO* pursuant to this Chapter. A single metering installation may be associated with more than one connection point or embedded connection point;
 - 2.1.1.2 if the person is or will be the *metered market participant* for the *metering installation* referred to in section 2.1.1.1:
 - a. the person has entered into an agreement under section 3.1.2.2(a) in relation to the *metering installation* or is a registered *metering service provider*; and
 - b. if the person is also an *embedded market participant*, has advised the relevant *distributor* or *transmitter* of the entering into of the agreement referred to in section 2.1.1.2(a); and
 - 2.1.1.3 either
 - a. such *metering installation* has been and continues to be registered with the *IESO* in accordance with the procedures referred to in section 6.1.2., or
 - b. such *metering installation* has been registered with the *IESO* in accordance with the procedures referred to in section 6.1.2 and the registration has expired provided that the *IESO* determines that the continued use of the *metering installation* is necessary for the efficient operation of the *IESO-administered markets*.
- 2.1.2 Subject to section 2.1.3, the *IESO* shall refuse to permit a person to participate in the *real-time markets* or the *procurement markets* or to cause or permit electricity to be conveyed into, through or out of the *IESO-controlled grid* in respect of any *connection point*, other than an *interconnection*, or an *embedded connection point*

if the conditions set forth in section 2.1.1 are not satisfied. Such refusal is a *reviewable decision*.

2.1.3 Section 2.1.1 and 2.1.2 shall not apply in respect of a person, other than a person that is or will be the *metered market participant* for a *metering installation*, that demonstrates to the satisfaction of the *IESO* that it will for *settlement* purposes have allocated to it *metering data* by means of *physical allocation data* submitted by a *metered market participant* in accordance with section 2.4 of Chapter 9.

2.1.4 This Chapter applies in respect of a *metering installation* that measures the consumption of *energy* in accordance with section 2.1A.1 of Chapter 9.

PART 5 – IESO BOARD DECISION RATIONALE

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PART 1 – MARKET RULE INFORMATION

Identification No.:	MR-00342-R01		
Subject:	Revenue Metering		
Title:	Toronto Hydro High Voltage Revenue Metering Proposal		
Nature of Proposal:	<input type="checkbox"/> Alteration	<input type="checkbox"/> Deletion	<input checked="" type="checkbox"/> Addition
Chapter:	6	Appendix:	
Sections:	4.2		
Sub-sections proposed for amending:	4.2.2A (new)		

PART 2 – PROPOSAL HISTORY – REFER TO MR-00342-R00

Version	Reason for Issuing	Version Date
Approved Amendment Publication Date:		
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PART 3 – EXPLANATION FOR PROPOSED AMENDMENT

Provide a brief description of the following:

- The reason for the proposed amendment and the impact on the *IESO-administered markets* if the amendment is not made.
- Alternative solutions considered.
- The proposed amendment, how the amendment addresses the above reason and impact of the proposed amendment on the *IESO-administered markets*.

Summary

Please refer to MR-00342-R00.

Background

Please refer to MR-00342-R00.

Discussion

This amendment proposes to clarify that a metering installation can be registered for more than one facility (refer to proposed new section 4.2.2A below). This arrangement would arise once the THESL proposal is implemented as there would be a single THESL metering installation for many THESL facilities. The existing market rules, while not explicitly prohibiting this relationship, do imply that there is a single facility for each revenue metering installation.

The proposed amendment specifies “that all transfers of *energy* at any points of supply or consumption for the *facilities* to which the *metering installation* relates are determined in a manner satisfactory to the *IESO*” would apply to a metering installation registered for more than one facility. This requirement provides safeguards to the market regarding the accuracy of the energy supply and consumption values used for settlement purposes. This proposed safeguard is consistent with the existing requirement (section 4.2.2 of chapter 6) for a metering installation associated with a single facility and that is not located at the defined meter point for that facility.

In the specific situation where a single upstream metering installation is replacing several existing downstream metering installations, an additional market safeguard is proposed. It is proposed that the IESO must be satisfied with the accuracy of the energy transfers as measured by the new metering installation relative to the downstream metering installations before the IESO can use the upstream metering installation readings for settlement purposes. Differences between the upstream meter readings and adjustments and the existing downstream meter readings would result in a potentially significant change to the energy and uplift charges to Ontario market participants. This additional safeguard would be directly applicable to the THESL proposal and any future installation of a single revenue metering installation to replace more than one downstream revenue meter installation.

The conditions of IESO satisfaction are to be described in a market manual, which is referenced in the proposed rule amendment. The level of detail required for these conditions are consistent with what is seen in market manuals, as opposed to in the market rules. These conditions will be guided by the principle that a market participant will remain financially unharmed. Adding this principle to the rules allows a market participant to voice their concerns if they feel they have been financially harmed.

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4.2 Defined Meter Point and Error Correction Factors

4.2.1 Subject to section 4.4, each *metered market participant* shall ensure, in respect of each *metering installation* for which it is the *metered market participant*, that:

4.2.1.1 subject to sections 4.2.2 and 4.2.2A, the *meter point* is located at the *defined meter point* for the *facility* to which the *metering installation* relates and otherwise complies with all requirements for *meter points* set forth in this Chapter and in any policy or standard established by the *IESO* pursuant to this Chapter; and

4.2.1.2 any instrument *transformers* required for a *check meter* within a *main/check metering installation* are located in a position which achieves a mathematical correlation with the *metering data* from the *revenue meter*.

4.2.2 The *IESO* shall permit a *metering installation* to be registered in respect of a *facility* notwithstanding that the *meter point* is not located at the *defined meter point* provided that all transfers of *energy* at any points of supply or consumption for the *facility* to which the *metering installation* relates are separately *metered* in a manner satisfactory to the *IESO*.

Metering Installation Associated with More than One Defined Meter Point and/or Facility

4.2.2A The *IESO* shall permit a *metering installation* to be associated with more than one *facility* notwithstanding that the *meter point* is not located at the *defined meter points* for the *facilities*, provided that all transfers of *energy* at any points of supply or consumption for the *facilities* to which the *metering installation* are associated, are determined in a manner satisfactory to the *IESO*.

Where a *metered market participant* intends that such a *metering installation* is to be used for determining *settlement amounts* instead of one or more pre-existing downstream *metering installations*, the *IESO* shall not permit the use of the upstream *metering installation* for determining *settlement amounts* unless the *metered market participant* demonstrates, to the satisfaction of the *IESO* in accordance with the applicable market manual, the accuracy of the *energy transfer measurements* of the upstream *metering installation* relative to the downstream *metering installations*.

4.2.2B When developing the conditions of satisfaction referred to in section 4.2.2A, the *IESO* shall be guided by the principle that all *market participants* are to be held financially whole by the use of the upstream *metering installation*.

4.2.3 The *IESO* shall, in respect of *metering data* recorded in the *metering database* that was obtained from a *metering installation* whose *meter point* is not located at the *defined meter point* for [the a](#) facility to which the *metering installation* relates, adjust the *metering data* on the basis of the site-specific loss adjustments referred to in section 4.2.4 or 4.2.5.1 and, where applicable, on the basis of the loss adjustments provided pursuant to section 4.2.5.2.

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PART 5 – IESO BOARD DECISION RATIONALE

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Market Rule Amendment Proposal

PART 1 – MARKET RULE INFORMATION

Identification No.:	MR-00342-R02		
Subject:	Revenue Metering		
Title:	Toronto Hydro High Voltage Revenue Metering Proposal		
Nature of Proposal:	<input type="checkbox"/> Alteration	<input type="checkbox"/> Deletion	<input checked="" type="checkbox"/> Addition
Chapter:	6	Appendix:	
Sections:	3		
Sub-sections proposed for amending:	3.1.2.1d and 3.1.2.2c (both new)		

PART 2 – PROPOSAL HISTORY – REFER TO MR-00342-R00

Version	Reason for Issuing	Version Date
Approved Amendment Publication Date:		
Approved Amendment Effective Date:		

PART 3 – EXPLANATION FOR PROPOSED AMENDMENT

Provide a brief description of the following:

- The reason for the proposed amendment and the impact on the *IESO-administered markets* if the amendment is not made.
- Alternative solutions considered.
- The proposed amendment, how the amendment addresses the above reason and impact of the proposed amendment on the *IESO-administered markets*.

Summary

Please refer to MR-00342-R00.

Background

Please refer to MR-00342-R00.

Discussion

These amendments propose to impose additional obligations on the metered market participant who has a revenue metering installation associated with more than one connection point, defined meter point or facility. The new proposed obligations would require the metered market participant to review and update the metering installation information and documentation in the metering registry annually and when there are material changes to the IESO-controlled grid downstream of the metering installation. One specific material change noted is the application of another metered market participant to register a revenue metering installation downstream of the first metering installation. This information and documentation to be review and updated includes totalization tables, line loss adjustments etc.

There is an existing general obligation on the metered market participant to review and update the information and documentation on an ongoing basis. A more specific obligation under the circumstances of a metering installation associated with more than one connection point, defined meter point or facility is judged necessary for the following reasons:

1. The size and scope of the possible changes to IESO-controlled grid downstream of such a revenue metering installation can be significant compared to revenue metering installation associated with a single connection point. Given the potential for significant change, a more rigorous review and updating requirement is needed to ensure that significant changes are identified and factored into the metering installation information and documentation on a going forward basis. This would ensure settlement amounts are determined consistent with the changes.
2. An annual review and update requirement would ensure that the impact of changes that may not have been judged material at the time of the change are incorporated into the metering installation information and documentation on a going forward basis. This would ensure settlement amounts are determined consistent with the changes on a going forward basis.
3. Requiring the review and update when another market participant applies to register a downstream revenue metering installation would facilitate the registration process for the downstream metering installation. At a minimum, it is expected that the upstream metering installation totalization tables would need to be updated to net out the downstream revenue metering installation readings. Such updates must be done on a timely basis so as to not frustrate the registration of the downstream revenue metering installation.

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These new obligation would be placed (i) on the metered market participant directly if they are also the metering service provider for the metering installation (see proposed section 3.1.2.1d below) or (ii) on the metered market participant to ensure that the metering service provider does the reviews and updates (see proposed section 3.1.2.2c below). This approach is consistent with existing market rule obligations on metered market participant that may or may not be a metering service provider.

PART 4 – PROPOSED AMENDMENT**3. Metered Market Participants****3.1 General Obligations**

3.1.1 Each *metered market participant* shall:

- 3.1.1.1 ensure that, subject to section 4.4, each *metering installation* in respect of which it is the *metered market participant* complies with the requirements set forth in this Chapter and in any policy or standard established by the *IESO* pursuant to this Chapter;
- 3.1.1.2 comply with the obligations imposed on *metered market participants* in Appendix 6.1 and in any policy or standard established by the *IESO* pursuant to this Chapter; and
- 3.1.1.3 coordinate electronic access, by persons other than the *IESO*, to each *metering installation* in respect of which it is the *metered market participant* so as to prevent such persons from accessing the *metering installation* at a time or in a manner that may adversely affect the ability of the *IESO* to access the *metering data* in that *metering installation* in accordance with the notice given pursuant to section 8.1.7.

3.1.2 Each *metered market participant* shall:

- 3.1.2.1 if a registered *metering service provider*:
 - a. subject to section 4.4, register, provide, install, commission, maintain, repair, replace, inspect and test each *metering installation* in respect of which it is the *metered market participant* in accordance with the provisions of this Chapter and of any policy or standard established by the *IESO* pursuant to this Chapter; [and](#)

- b. comply with all of the obligations imposed on *metering service providers* in this Chapter and in any policy or standard established by the *IESO* pursuant to this Chapter; and
- c. provide to the *IESO* the information referred to in sections 1.2 and 1.3 of Appendix 6.5 and update such information as required to maintain such information current; and
- d. where the *metering installation* is associated with more than one *connection point, defined meter point or facility*, on a timely basis review and update the information referred to in sections 1.2 and 1.3 of Appendix 6.5 and provide it to the *IESO*:
 - (i) annually; and
 - (ii) when material changes are made to the *IESO-controlled grid* downstream of the *metering installation* including the application by another *metered market participant* to register a different *metering installation* downstream of the *metering installation*; or

3.1.2.2 if not a registered *metering service provider*:

- a. enter into an agreement with a registered *metering service provider* for the registration, provision, installation, commissioning, maintenance, repair, replacement, inspection and testing by that registered *metering service provider* of each *metering installation* in respect of which it is the *metered market participant*; and
- b. ensure that its *metering service provider* provides the *IESO* with the information referred to in sections 1.2 and 1.3 of Appendix 6.5 and updates such information as required to maintain that information current; and
- c. where the *metering installation* is associated with more than one *connection point, defined meter point or facility*, on a timely basis ensure that its *metering service provider* reviews and updates the information referred to in sections 1.2 and 1.3 of Appendix 6.5 and provide it to the *IESO*:
 - (i) annually; and
 - (ii) when material changes are made to the *IESO-controlled grid* downstream of the *metering installation* including the application by another *metered market participant* to register a different *metering installation* downstream of the *metering installation*; and

d be liable to the imposition of financial penalties and other sanctions, in accordance with Chapter 3, in respect of the failure by each *metering service provider* that acts as a *metering service provider* for a *metering installation* in respect of which it is the *metered market participant* to comply with the obligations imposed on *metering service providers* in this Chapter and in any policy or standard established by the *IESO* pursuant to this Chapter.

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PART 5 – IESO BOARD DECISION RATIONALE

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Market Rule Amendment Proposal

PART 1 – MARKET RULE INFORMATION

Identification No.:	MR-00342-R03		
Subject:	Revenue Metering		
Title:	Toronto Hydro High Voltage Revenue Metering Proposal		
Nature of Proposal:	<input type="checkbox"/> Alteration	<input type="checkbox"/> Deletion	<input checked="" type="checkbox"/> Addition
Chapter:	9	Appendix:	
Sections:	2.1		
Sub-sections proposed for amending:	2.1.1A.4 (new)		

PART 2 – PROPOSAL HISTORY – REFER TO MR-00342-R00

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PART 3 – EXPLANATION FOR PROPOSED AMENDMENT

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- Alternative solutions considered.
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Summary

Please refer to MR-00342-R00.

Background

Please refer to MR-00342-R00.

Discussion

This amendment proposes to recognize that the IESO may not use a registered wholesale meter (RWM) for determining settlement amounts if the conditions of the proposed sec 4.2.2A of chapter 6 (refer to MR-00342-R01) have not been met. The proposed amendment is made to section 2.1.1A of chapter 9 which list other exclusions for using an RWM for determining settlement amounts. The proposed amendment provides transparency.

PART 4 – PROPOSED AMENDMENT

2. Settlement Data Collection and Management

2.1 Metering and Metering Responsibilities

2.1.1 Subject to section 2.1.1A, every *meter* utilised for determining *settlement amounts* according to this Chapter must be a *registered wholesale meter (RWM)*.

2.1.1A Nothing in section 2.1.1 shall be construed as requiring the *IESO* to determine *settlement amounts* on the basis of an *RWM* in circumstances where:

2.1.1A.1 it is permitted to use another *meter* for this purpose pursuant to section 3.1.4A; or

2.1.1A.2 in circumstances where the *IESO* has determined that determination of *settlement amounts* using a *metering installation* whose registration

has expired is required for the efficient operation of the *IESO-administered markets*; or

2.1.1A.3 the *IESO* is determining *settlement amounts* related to the Emergency Load Reduction Program specified in section 15 of Chapter 7 using a measurement and verification plan referred to in section 15.1.1.2 of Chapter 7; [or](#)

[2.1.1A.4 the *IESO* has not permitted the use of the *RWM* for determining *settlement amounts* for the reason specified section 4.2.2A of Chapter 6.](#)

PART 5 – IESO BOARD DECISION RATIONALE

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