

Estimated Station Services

Revenue Metering Standing Committee
April 29, 2010



- Chapter 9, section 2.1A.3 states
Where connection station service is not separately metered by an RWM, the energy consumption associated with connection station service shall be estimated by the metered market participant designated by the registered market participant for the relevant connection facility or, in the absence of such a metered market participant, by such registered market participant, in accordance with the equations and procedures described in the applicable market manuals, which estimates shall be stamped by a registered professional engineer and shall be subject to audit by the IESO.
- Market Manual 3.7, section 2.3.1, 2.3.2 and 2.3.3 describes procedure/requirements to prepare and register a station service estimate
- As part of the 2010 Meter Audit Program, IESO has selected a number of station service estimates for audit
- Selection limited to un-metered connection station service estimates (SS estimates for the purpose of apportioning are not selected)

MM 3.7 Section 2.3.1

- Requirements for Non-Metered Station Services will be updated next Baseline (Sept. 2010).

2.3 Guidelines for Preparing Totalization Tables

2.3.1 Non-Metered Estimated Station Services

Non-Metered Station Services

The *metering service provider* must provide, when applicable, the station service factor in kW. This factor is submitted using IMO-FORM-1311 “Connection Facility Station Service – Not metered by a RWM”. (Chapter 9, Section 2.1A of the *market rules*) IMO-FORM-1311 must be stamped and signed by a registered professional engineer (Professional Engineers of Ontario (PEO)). This value is entered on IMO-FORM-1310 “Totalization Table Form” for submission to the *IESO*. When processing IMO-FORM-1310 in MV-STAR, the *IESO* creates a virtual meter, with a constant, 5-minute interval value representing the station service factor.

The main following assumptions shall be used in the calculation are as follows determining the station service factor:

- secondary estimated load will be calculated as the sum of the rated value of all connected loads of the equipment in-use at the station, in kW;
- if the percentage usage of the estimated load cannot be determined, the default value to be considered in calculation must be 75%;
- the station service load will be calculated up to the Defined Meter Point (DMP) as 2.0% higher than usage of the secondary estimated load; and
- the value of the ~~estimated station service factor load~~ shall be rounded to the nearest kW;
- annual checks must be performed to confirm estimate is still valid.

MM 3.7 Section 2.3.2

- Requirements for Estimated Station Services Using Retail Meters will be updated next Baseline (Sept. 2010).

2.3.2 Meter-Estimated Station Services Using Retail Meters

The *metering service provider* can ~~use an alternative method to supply~~ determine the station service factors by using a Measurement Canada approved and sealed retail meters to estimate the load.

The main items to consider ~~while~~ when using retail meters are:

- the estimate must be ~~shown based to be accurate~~ on annual consumption determined from the meter readings of the retail meter;
- ~~poor load factors must be adjusted or not used for this method~~ the estimate must take into account losses between the location of the retail meter to the Defined Meter Point (DMP); 1% losses for each level of transformation is acceptable;
- the value of the station service factor should be rounded to the nearest kW₃; and
- ~~annual~~ annual checks ~~readings of the retail meter must be performed~~ readings of the retail meter must be performed ~~recorded~~ to confirm estimate is still valid; ~~if the results are different, an updated estimate must be submitted and registered.~~

The station service factor ~~obtained by using retail meters~~ is ~~also~~ submitted using IMO-FORM-1311 "Connection Facility Station Service – Not metered by a RWM". Refer to Section 2.3.1.

Audit of Estimated Station Services

- Audit to confirm station service estimate meets current requirements of MM3.7, section 2.3.1 or 2.3.2
- If using 'Retail Meter', estimate must be accurate and reviewed/confirmed annually
- How will non-compliant findings be treated:
 - Audit report will identify actions to bring findings into compliance
 - NCER will be reported to MACD (includes impact of alleged breach)
 - MACD to address issues with Participant

Questions

