



Ontario

Ontario Energy Board

RETAIL SETTLEMENT CODE

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Revision Date: December 21, 2001

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1 GENERAL AND ADMINISTRATIVE PROVISIONS

1.1 Purpose of the Code

This Code sets the minimum obligations that a distributor and retailer must meet in determining the financial settlement costs of electricity retailers and consumers and in facilitating service transaction requests where a competitive retailer provides service to a consumer. These obligations arise through sections 26 through 31, inclusive, of the *Electricity Act, 1998* and the conditions of distributions' licences and retailers' licences.

1.2 Definitions

“Act” means the *Ontario Energy Board Act, 1998*, S.O. 1998, c.15, Schedule B.

“affiliate” with respect to a corporation, has the same meaning as in the *Business Corporations Act*.

“Affiliate Relationships Code” means the code, approved by the Board and in effect at the relevant time, which among other things, establishes the standards and conditions for the interaction among electricity distributors or transmitters and their respective affiliates.

“ancillary services” means services necessary to maintain the reliability of the IMO-controlled grid; including frequency control, voltage control, reactive power and operating reserve services.

“Board” means the Ontario Energy Board.

“building” means a building, portion of a building, structure or facility.

“competitive electricity costs” are those costs billed through the IMO or paid by the distributor to embedded retail generators or neighbouring distributors that cover competitive electricity services. Such costs will apply to electricity supply whether such supply is provided via SSS or a competitive retailer.

“competitive electricity services” means those services provided through the IMO, embedded retail generators or neighbouring distributors that are deemed by the Board to be competitive as set out in Appendix A.

“competitive retailer” is a person who retails electricity to consumers who do not take SSS.

“consumer” means a person who uses, for the person's own consumption, electricity that the person did not generate.

“cycle billing” means the practice of billing a block of consumers whose meters are read according to a common meter-reading cycle as if all meters were read on the same day, even

though meter-reading practices result in some meters being read within a few days, plus or minus, of the target read date.

“distribute” with respect to electricity, means to convey electricity at voltages of less than 50 kilovolts.

“distribution services” means services related to the distribution of electricity and the services the Board has required distributors to carry out, for which a charge or rate has been approved by the Board under section 78 of the *Act*.

“distribution system” means a system for distributing electricity at voltages less than 50 kiloVolts and includes any structures, equipment or other things used for that purpose.

“Distribution System Code” (“DSC”) means the code, approved by the Board and in effect at the relevant time, which, among other things, establishes the obligations of distributors with respect to the services and terms of service to be offered to consumers and retailers and provides minimum technical operating standards for distribution systems.

“distribution system losses” are energy losses resulting from the interaction of intrinsic characteristics of the distribution network, such as electrical resistance with network voltages and current flows.

“distribution system loss factor” means a factor(s) by which metered loads must be multiplied such that when summed equal the total measured load at the supply point(s) to the distribution system.

“distributor” means a person who owns or operates a distribution system.

“*Electricity Act*” means the *Electricity Act, 1998*, S.O. 1998, c.15, Schedule A.

“Electronic Business Transaction System” or “EBT System” means the authorised computer-based transaction mechanism for transmitting common format data among market participants.

“embedded distributor” means a distributor who is not a wholesale market participant and that is provided electricity by a host distributor.

“embedded retail generator” means a generator who is not a wholesale market participant and whose generation facility is connected to the distribution system but does not include a person that consumes more electricity than it generates.

“embedded wholesale consumer” is a consumer who is a wholesale market participant and whose facility is not directly connected to the IMO-controlled grid but is connected to a distribution system.

“embedded wholesale generator” is a generator who is a wholesale market participant and whose generation facility is connected to the distribution system.

“generate” with respect to electricity, means to produce electricity or provide ancillary services, other than ancillary services provided by a transmitter or distributor through the operation of a transmission or distribution system.

“generation facility” means a facility for generating electricity or providing ancillary services, other than ancillary services provided by a transmitter or distributor through the operation of a transmission or distribution system and includes any structures, equipment or other things used for that purpose.

“generator” means a person who owns or operates a generation facility.

“host distributor” means the registered wholesale market participant distributor who provides electricity to an embedded distributor.

“IMO” means the Independent Electricity Market Operator established under the *Electricity Act*.

“IMO Controlled Grid” means the transmission systems with respect to which, pursuant to agreements, the IMO has the authority to direct operations.

“interval meter” means a meter that measures and records electricity use on an hourly or sub-hourly basis.

“load transfer” means a MIST-metered, network supply point of one distributor that is supplied through the distribution system of another distributor and where this supply is not considered a wholesale supply point.

“lock-box arrangement” means an arrangement where a financial institution (typically a bank or some other financial institution) is designated by the parties to accept payment from consumers on behalf of the parties and to distribute the collected revenue to the parties according to prescribed rules.

“Market Rules” means the rules made under section 32 of the *Electricity Act*.

“meter installation” means the meter and, if so equipped, the instrument transformers, wiring, test links, fuses, lamps, loss of potential alarms, meters, data recorders, telecommunication equipment and spin-off data facilities installed to measure power past a meter point, provide remote access to the metered data and monitor the condition of the installed equipment.

“MIST meter” means an interval meter from which data is obtained and validated within a designated settlement timeframe. MIST refers to “Metering Inside the Settlement Timeframe.”

“MOST meter” means an interval meter from which data is only available outside of the designated settlement timeframe. MOST refers to “Metering Outside the Settlement Timeframe.”

“non-competitive electricity costs” means costs for services from the IMO that are not deemed by the Board to be competitive electricity services plus costs for distribution services, other than SSS.

“non-competitive electricity services” means those services received from the IMO that are not deemed to be competitive electricity services, plus distribution services, other than SSS.

“non-interval meter” means a device that measures and records electrical usage cumulatively over the meter reading period.

“power factor” means a variable equal to the ratio of kW and kVa demand.

“prepaid meter” means a meter that allows a consumer to purchase a credit for a certain amount of electricity at a fixed price from a distributor or retailer by having the amount posted to the meter at the consumer’s location. When the purchased amount of electricity has been used, the meter will automatically interrupt electricity supply to the location.

“primary metered customer” means a customer whose meter point is located on the primary side of a distribution transformer.

“rate” means any rate, charge or other consideration and includes a penalty for late payment.

“Rate Handbook” means the document approved by the Board that outlines the regulatory mechanisms that will be applied in the setting of distributor rates.

“registered facility” means a facility registered with the IMO that is capable of supplying physical services and/or capacity reserve.

“registered wholesale meter” means a meter that the IMO has registered in accordance with the Market Rules for the purpose of wholesale settlements “retail” with respect to electricity means:

- (a) to sell or offer to sell electricity to a consumer,
- (b) to act as agent or broker for a retailer with respect to the sale or offering for sale of electricity, or
- (c) to act or offer to act as an agent or broker for a consumer with respect to the sale or offering for sale of electricity.

“Retail Settlement Code” or “Code” means this code approved by the Board and in effect at the relevant time, which, among other things, establishes a distributor’s obligations and responsibilities associated with financial settlement among retailers and consumers and provides for tracking and facilitating consumer transfers among competitive retailers.

“Retail Settlement Variance Account” or “RSVA” means the variance account referred to in this Code.

“retailer” means a person who retails electricity.

“secondary metered customer” means a customer whose meter point is located on the secondary side of a distribution transformer.

“Service Agreement” means the agreement that sets out the relationship between a licensed retailer and a distributor, in accordance with the provisions of Chapter 12.

“service area” with respect to a distributor, means the area in which the distributor is authorised by its licence to distribute electricity.

“service transaction request” or (“STR”) means a written authorisation, unless otherwise provided for in the Code, that initiates a change from current service provision to alternative service provision.

“Standard Supply Service” (“SSS”) means the service approved by the Board and in effect at the relevant time, which, among other things, establishes the minimum conditions that a distributor must meet in carrying out its obligations to sell electricity under section 29 of the *Electricity Act*.

“supply facility losses” are the energy losses that occur as a result of the difference between the point of delivery of energy from the transmission system and the metered delivery point for a distributor.

“supply facility loss factor” means the factor(s) by which delivery point metered loads must be multiplied such that when summed equal the total measured load at the delivery point(s) to the distribution system .

“time-of-use meter” means a device that measures and records electrical usage during pre-specified periods of the day cumulatively over a meter reading period.

“total losses” means the sum of all energy losses including distribution system losses, supply facility losses and unaccounted for energy.

“transmission system” means a system for transmitting electricity and includes any structures, equipment or other things used for that purpose.

“transmitter” means a person who owns or operates a transmission system.

“unaccounted for energy” means all energy losses that cannot be attributed to distribution system losses or supply facility losses. These losses include measurement error, errors in estimates of distribution system losses or supply facility losses and unmetered loads, energy theft and non-attributable billing errors.

“unmetered loads” means electricity consumption that is not metered and is billed based on estimated usage.

“wholesale consumer” means a person that purchases electricity or ancillary services in the IMO-administered markets or directly from a generator, other than an embedded retail generator.

“wholesale market participant distributor” or “WMPD” means a distributor who is a wholesale market participant, including a distributor who is provided electricity by a neighbouring distributor through a registered wholesale meter.

“wholesale market participant” means a person that sells or purchases electricity or ancillary services through the IMO-administered markets.

“wholesale settlement costs” mean costs for both competitive and non-competitive electricity services billed to a distributor by the IMO or a host distributor, or provided by an embedded retail generator or by a neighbouring distributor.

“wholesale supplier” means a person who sells electricity or ancillary services through the IMO-administered markets or directly to another person, other than a consumer.

“written authorisation” includes authorisation given by electronic mail or any other similar technology, but does not include authorisation given verbally.

1.3 Interpretations

Unless otherwise defined in this Code, words and phrases shall have the meaning ascribed to them in the *Act* or the *Electricity Act* as the case may be. Headings are for convenience only and shall not affect the interpretation of this Code. Words importing the singular include the plural and vice versa. A reference to a document or a provision of a document includes any amendment or supplement to or any replacement of that document or that provision of that document. An event that is required under this Code to occur on or by a stipulated day which is not a business day may occur on, or by, the next business day.

1.4 To Whom This Code Applies

This Code applies to all electricity distributors licensed by the Board under Part V of the *Act*. This Code also applies to electricity retailers licensed by the Board under Part V. These entities are obligated to comply with the Code as a condition of their licences.

1.5 Hierarchy of Codes

The order of hierarchy for this Code in relation to other codes, subject to any specific conditions of any licence that apply to a distributor or a retailer, is as follows:

1. Affiliate Relationships Code
2. Distribution System Code
3. Retail Settlement Code
4. Standard Supply Service Code

1.6 Amendments to This Code

This Code may only be amended in accordance with the procedures set out in the licence issued to a distributor or a retailer.

1.7 Coming into Force

This Code and any amendments to this Code shall come into force on the date that the Board publishes the Code or an amendment to the Code by placing it on the Board's website, except where it is expressly stated otherwise and except for the following provisions that shall come into effect on the date that subsection 26(1) of the *Electricity Act* comes into force: Chapters 3 through 8; and sections 10.6.1 and 10.6.2. Further, no STR related to a change in competitive electricity service provider shall take effect until subsection 26(1) of the *Electricity Act* has come into force.

1.8 Requirements for Board Approvals

Any matter under this Code requiring a determination of the Board may be determined by the Board without a hearing or through an oral, written or electronic hearing, at the Board's discretion.

2 SUMMARY OF SETTLEMENT OBLIGATIONS

All licensed distributors that are required to adhere to this Code as a condition of their licence shall provide the services summarised in sections 2.1 through 2.7 according to the detailed rules and procedures outlined in Chapters 3 through 12. These services shall be provided to all consumers located within a distributor's service area and to all retailers serving such consumers. All services described in this Code must be provided without discrimination or preference to each retailer, generator or consumer who requests such services.

2.1 Determine Wholesale Settlement Costs

A distributor shall determine the wholesale settlement costs for consumers, including consumers served under SSS, connected to the distributor's distribution system. Wholesale settlement costs

shall be determined in accordance with Chapters 3 and 4. A distributor is not obligated to determine the settlement costs relating to competitive electricity services or non-competitive electricity services for which another wholesale market participant is obligated to pay to the IMO.

2.2 Determine Distribution Charges

A distributor shall determine the charge for distribution services associated with electricity delivery in accordance with Chapter 4 for all consumers, including wholesale market participants, connected to the distributor's distribution system.

2.3 Implement Service Transaction Requests Involving Retailers

A distributor shall accept and process STRs according to the rules and procedures described in Chapter 10. This Code prescribes rules associated with STRs when a consumer's electricity supply is already provided by a competitive retailer or when this STRs will be provided by a competitive retailer once the STR has been processed. Specific services covered by this Code are listed in section 10.1.

2.4 Maintain Consumer Records

A distributor shall maintain records for all consumers for which it determines settlement costs.

2.5 Provide Access to Current Meter and Price Data

A distributor shall make available to a consumer, or to a competitive retailer designated by a consumer, validated meter usage information according to the standards and schedule delineated in sections 5.2, 11.1 and 11.2. If requested to do so by a retailer, a distributor also shall make available to the retailer the hourly price data used to calculate competitive electricity costs for the billing period over which a consumer is billed (e.g., as calculated in equation 3.3.1(b)), hourly price information from the IMO, or the host distributor as the case may be, and net system load data for each calendar day.

2.6 Provide Access to Historical Consumer-Specific Information

A distributor shall maintain and be able to provide historical consumer-specific information to a consumer, or to any party designated by the consumer, regardless of whether the consumer is served under SSS or by a competitive retailer. Information that must be maintained and provided as directed by a consumer is delineated in section 11.3 and includes information on electricity use, regulated rates under which a consumer is served, meter characteristics and payment information.

2.7 Establish Service Arrangements With Competitive Retailers

A distributor shall enter into a Service Agreement with any licensed retailer who wishes to provide electricity services to consumers connected to the distributor's distribution system and to utilise retail settlement services offered by the distributor.

3 DETERMINING SETTLEMENT COSTS FOR COMPETITIVE ELECTRICITY SERVICES

A distributor shall determine the cost of competitive electricity services purchased by a consumer for which, in accordance with section 2.1, it has settlement responsibility, according to the procedures described in sections 3.1 through 3.10.

3.1 Competitive Electricity Costs

The Market Rules provide that wholesale market participant distributors will be charged by the IMO for electricity delivered to the distributor at prices determined in the IMO-administered wholesale market. The IMO will also charge distributors for ancillary services, transmission services, IMO administrative services and other services required to operate the IMO-administered wholesale market and direct the operations and maintain the reliability of the IMO-controlled grid. The subset of IMO-billed services deemed by the Board to be competitive electricity services are identified in Appendix A.

An embedded distributor shall be billed by a host distributor based on charges determined by the host distributor in accordance with sections 3.2 and 3.3. The host distributor shall provide all data to an embedded distributor according to the schedule and methods described in section 5.1.

3.2 Distribution Losses and Unaccounted for Energy

When determining retail settlement costs, a distributor shall adjust measured consumption at a consumer's meter for total losses... The sum of total losses for a distribution system equals the difference between wholesale energy delivered to a distributor (including supply from embedded retail generators and load transfers) and the total energy measured at all retail and wholesale consumers' meters connected to the distribution system.

A distributor shall calculate the sum of distribution system losses and unaccounted for energy using the following equation 3.2(a):

Equation 3.2(a)

$$L_{d_x} + UFE_{d_x} = E_{d_x}^{in} - [(1 - PAF) E_{d_x}^{pm} + E_{d_x}^{sm} + E_{d_x}^{um}]$$

- where
- L_{d_x} = Distribution losses for distributor d_x
 - UFE_{d_x} = Unaccounted for energy for distributor d_x
 - $E_{d_x}^{in}$ = total electricity supplied to distributor d_x measured at all registered wholesale meters connected to a WMPD's distribution system or at all bulk supply meters through which an embedded distributor is supplied, plus electricity supplied by embedded wholesale generators (adjusted for distribution transformation losses), plus all supply provided by embedded retail generators connected to the distributor's system (adjusted for distribution transformation losses), plus all supply provided through load transfers
 - $E_{d_x}^{pm}$ = total load for all primary-metered consumers in distributor d_x 's service area measured at the consumer's meter, including primary-metered load transfers
 - $E_{d_x}^{sm}$ = total load for all secondary-metered consumers in distributor d_x 's service area measured at the consumer's meter, including secondary-metered load transfers

PAF = Primary adjustment factor, which equals either 1 percent or a distributor-specific value approved by the Board

$E_{d_x}^{um}$ = Estimated consumption for unmetered load billed by distributor d_x

This calculation includes distribution system losses associated with the distribution transformation from primary to utilisation voltage. Alternatively, a distributor may calculate losses up to the primary transformation level, if the result is mathematically equivalent to equation 3.2(a).

The distribution loss factor (DLF) is equal to the value by which the sum of end-use metered loads must be multiplied to equal the total energy supplied to distributor d_x . A distributor shall calculate the DLF for secondary-metered customers using equation 3.2(b).

Equation 3.2(b)

$$DLF_{d_x}^{sm} = 1 + \left[\frac{(L_{d_x} + UFE_{d_x})}{(1 - PAF) E_{d_x}^{pm} + E_{d_x}^{sm} + E_{d_x}^{um}} \right]$$

where $DLF_{d_x}^{sm}$ = the distribution loss factor for secondary-metered consumers

A distributor shall calculate the distribution loss factor for primary-metered consumers using equation 3.2(c).

Equation 3.2(c)

$$DLF_{d_x}^{pm} = DLF_{d_x}^{sm} \cdot (1 - PAF)$$

where $DLF_{d_x}^{pm}$ = the distribution loss factor for primary-metered consumers

For secondary-metered consumers who own their own transformation equipment or who have additional stages of transformation prior to loads being metered (e.g., some individual metered apartments), a site-specific loss factor (SSL) may be more accurate than that assumed in PAF. A

distributor, upon receiving approval from the Board, may calculate the DLF adjusted for site-specific losses, using equation 3.2(d).

Equation 3.2(d)

$$DLF_{d_x}^{SSL} = DLF_{d_x}^{sm} \cdot \left[\frac{(1 - PAF)}{(1 - SSL)} \right]$$

where $DLF_{d_x}^{SSL}$ = the site-specific adjusted distribution loss factor

A distributor shall calculate its weighted average supply facility loss factor by summing energy delivered at each of the supply facility points plus associated supply facility losses, including all supplies from the transmission system, supplies from all embedded generators and supplies from host distributors which sum shall be divided by the total energy delivered at all of the supply facility delivery points. Each of these supplies shall be adjusted for the appropriate loss factor representing the energy losses between the meter point and the defined point of sale. A distributor shall enter into an agreement to purchase energy from an embedded retail generator within its service area, where such generator has indicated that it intends to generate electricity for sale directly to such distributor and that it has obtained such licences from the Board for generating and wholesaling electricity as are required. The contract shall specify that the generator must meet the technical and metering requirements set out in the Distribution System Code. The price under the agreement at which all energy sales shall be settled will be the competitive electricity price as described in Appendix “A” to the Code. A distributor shall calculate the supply facility loss factor using equation 3.2(e).

Equation 3.2(e)

$$SFLF_{dx} = \frac{\sum (E_{PRWM}^s + SSL_{dxPRWM}^s)}{\sum E_{PRWM}^s} + \frac{\sum ((E_{RWM}^y + SSL_{RWM}^y) \cdot TLF_{dxy})}{\sum E_{RWM}^y} + \frac{\sum E_{REG}}{\sum E_{REG} + \sum E_{WMG} + \sum E_{LT}^dy} + \frac{\sum E_{WTG}}{\sum E_{WTG} + \sum E_{LT}^dy} + \frac{\sum E_{LT}^dy \cdot TLF_{dy}}{\sum E_{LT}^dy}$$

where: $SFLF_{dx}$ = the supply facilities loss factor for distributor d_x where supply facilities include all points of energy delivery to distributor d_x .

E_{PRWM} = hourly energy measured at all primary registered wholesale meters for directly connected distributor d_x as provided by the IMO minus any load delivered to wholesale customers within d_x 's territory.

E_{REG} = hourly energy supplied by retail embedded generators to distributor d_x adjusted for each generator's losses that occur as a result of the difference between the location of the generator's meter and the assigned supply facility delivery point. The distributor's loss adjustment shall treat retail generator's in an equivalent manner to the loss adjustments for wholesale generators. All retail embedded generators that are supplying energy into distributor d_x 's distribution system shall be settled using the price set out in Appendix "A" for the purposes of calculating the competitive electricity costs of consumers.

E_{WMG} = hourly energy supplied by all embedded wholesale market generators in distributor d_x service areas as measured by the IMO adjusted for each generator's site-specific connection facility loss factor.

SL_{dx}^s = a distributor's allocation of site-specific facilities losses at supply point s as provided by the IMO

TLF_{dy}^s = the total loss factor of host distributor d_y .

E_{LT} = Hourly energy supplied to distributor dx under a load transfer arrangement with distributor dy where the amount is measured by an interval meter

E_{RWM} = hourly energy supplied to distributor d_x by a host distributor

The weighted average supply facility loss factor shall be multiplied by the applicable DLF calculated in accordance with equations 3.2 (b) and (c) to equal the total loss factor for the distributor to be applied to a consumer's energy consumption for the purposes of calculating competitive energy costs. The intent of the total loss factor is to ensure an appropriate allocation

of both distribution system losses and supply facility losses to all loads within the distributor's service area. . A distributor shall calculate its Total Loss Factor using equation 3.2(f).

Equation 3.2(f)

$$TLF_{dx} = SFLF_{dx} \bullet DLF_{dx}$$

where: TLF_{dx} = the total loss factor for distributor d_x

A distributor shall calculate an annual average loss factor for the determination of site-specific supply facility losses. A distributor shall calculate a SFPLF on an annual basis using estimated data and shall record the differences between the annual average estimate supply facility loss factor and the actual monthly billed loss factor from the IMO and/or host distributor(s) in the RSVA. A distributor shall record the difference between the DLF and its actual distribution system losses in the RSVA. For the purposes of calculating either the DLF or SFLF a distributor may use historical data or estimated data, subject to such estimated data being reasonable.

Unless stated otherwise in the Rate Handbook, the DLF is not intended to be calculated as a rolling, five-year average but rather as a value held constant in between rate proceedings or over some other period of time specified in the Rate Handbook. The appropriate total loss factor shall be applied to all consumers, whether wholesale or retail and regardless of meter type. If a distributor wishes to estimate losses separately from UFE, the distributor must obtain approval from the Board.

3.3 Methodology for Determining Settlement Costs for Competitive Electricity Services

The methodology a distributor shall use to determine settlement costs for competitive electricity services differs depending on whether the consumer has an interval meter or a non-interval meter and whether the distributor is a WMPD or an embedded distributor.

3.3.1 Consumers With Interval Meters

Both WMPD and embedded distributors shall determine settlement costs for consumers with interval meters in a manner mathematically equivalent to equation 3.3.1(a) for both remotely and manually read interval meters. For settlement purposes, interval-metered load transfers and supply to embedded distributors shall be treated by the host distributor as if they were an end-use customer.

Equation 3.3.1(a)
Calculation of Settlement Costs for Interval-Metered Customers

$$CEC_B^r = \left[\sum_{h=1}^B P_h^{d_x} \cdot E_h^r \right] \cdot TLF_{d_x}$$

- Where
- CEC_B^r = Competitive electricity costs for interval-metered consumer r for billing period B (\$)
 - E_h^r = energy use in hour h measured by an interval meter at consumer r 's location (kWh/h)
 - $P_h^{d_x}$ = hourly electricity price for distributor d_x (\$/kWh/h) determined in accordance with Appendix A.
 - TLF_{d_x} = total loss factor for distributor d_x , as defined in equations 3.2(b) or 3.2(c), depending upon whether a consumer is primary or secondary metered multiplied by the delivery point loss factor for distributor d_x calculated in accordance with equation 3.2(e).
 - B = the number of hours in billing period B for consumer r

3.3.2 Consumers With Non-Interval Meters

Both WMPD and embedded distributors shall determine settlement costs for consumers with non-interval meters in a manner mathematically equivalent to equation 3.3.2(a).

Equation 3.3.2(a)
Calculation of Settlement Costs for Non-Interval-Metered Customers

$$CEC_B^t = \left[\sum_{h=1}^B P_h^{d_x} \cdot NSLS_h^A \right] \cdot TLF_{d_x} \cdot E_B^t$$

where all terms not previously defined are defined as follows:

- CEC_B^t = Competitive electricity service costs for kilowatt-hour-metered consumer t served by distributor d_x for billing period B
- E_B^t = Cumulative energy use by consumer t in billing period B
- $NSLS_h^A$ = the share of the cumulative net system load in billing period B attributable to hour h based on the load shape in settlement area A , of which d_x is a part, as calculated in accordance with equations 3.4(A) through 3.4(c).

A distributor shall use the procedures described in section 3.4 to determine the net system load shape share.

3.4 Determining the Net System Load Shape

As indicated in sections 3.3.1 and 3.3.2, determining settlement costs for competitive electricity services requires weighting hourly wholesale prices by hourly usage for individual consumers. For an interval-metered consumer, hourly usage data are obtained from the consumer's meter. For a non-interval-metered consumer, hourly weights must be estimated. A distributor shall use the net system load shape (NSLS) to compute hourly shares of consumption for non-interval-metered consumers. The NSLS for a given period equals the hourly loads for all hours in that period.

A distributor shall calculate the net system load for a single hour in a manner mathematically equivalent to equation 3.4(a). The energy values for unmetered loads and MIST metered loads used in equation 3.4(a) shall be adjusted to reflect the appropriate total loss factors.

Equation 3.4(a)

Hourly Net System Load Calculation for A Single Distributor

$$NSL_{d_x}^{d_x} = \left[\sum_{s=1}^{S_{d_x}} \left(E_{d_x}^s + \sum_{k=1}^{K_{d_x}^{s,k}} E_{d_x}^{s,k} - \sum_{d_y=1}^{D_y} \sum_{l=1}^{L_{d_x,d_y}^s} E_{d_x,d_y}^{s,l} \right) + \sum_{d_y=1}^{D_y} \sum_{s=1}^{S_{d_y}} \sum_{l=1}^{L_{d_y,d_x}^s} E_{d_y,d_x}^{s,l} \right] - \sum_{r=1}^{R_{d_x}} E_{d_x}^{r,im} - \sum_{usl=1}^{USL} E_{d_x}^{usl}$$

$E_{d_x}^{r,im}$ = the energy use per hour for consumer r measured by an interval meter (*im*) that is read within the settlement time frame (i.e., a MIST meter) adjusted for the appropriate total loss factor.

R_{d_x} = the number of interval-metered customers with MIST type meters

$E_{d_x}^{usl}$ = the energy use per hour by an unmetered street lighting customer, usl , based on a “deemed profile” approved by the Board adjusted for the appropriate total loss factor.

USL = the number of unmetered street lighting customers

$E_{d_x,d_y}^{s,l}$ = the hourly electricity supplied by distributor d_x to distributor d_y through load transfer point l which is located on the portion of d_x 's distribution system that is supplied from the IMO-administered market through supply point s adjusted for the appropriate total loss factor.

$E_{d_y,d_x}^{s,l}$ = the hourly electricity supplied by distributor d_y to distributor d_x through load transfer point l which is located on the portion of d_y 's distribution system that is supplied from the IMO-administered market through supply point s adjusted for the appropriate total loss factor

L_{d_x,d_y}^s = the number of load transfers from distributor d_x to distributor d_y through load transfer point l which is located on the portion of d_x 's distribution system that is supplied from the IMO-administered market through supply point s

L_{d_y,d_x}^s = the number of load transfers from distributor d_y to distributor d_x through load transfer point l which is located on the portion of d_y 's distribution system that is supplied from the IMO-administered market through supply point s

D_y = the number of distributors with whom distributor d_x has a load transfer arrangement, either for supply into or out of d_x

s_{d_y} = the number of supply points through which distributor d_y receives electricity from the IMO-administered wholesale market

Two or more distributors holding separate distribution licences may use a common NSLS as long as the annual average price of competitive electricity service based on the common NSLS differs by less than 1 percent from the annual average price that would result from using the net system load shape representing each individual distributor's service area. In assessing the difference between the common NSLS price and the individual NSLS price, a distributor shall calculate the load-weighted average wholesale price for the most recent year for which relevant data are available using the net system load shape for its service area and the combined net system load shape for the multiple distributors with which it is considering combining. Before adopting a shared NSLS, the distributors shall notify the Board. A distributor shall include the two calculations relating to the differences in average prices as part of its notification to the Board. If the difference in average prices exceeds 1 percent, a distributor shall obtain approval from the Board before using a common net system load shape across multiple distributors. In the event of a material change to a distributor's service area (e.g. an amalgamation), the distributor shall confirm that the annual average price of competitive electricity service based on the common load shape continues to differ by less than 1 percent from the annual average price that would result from using the net system load shape representing each individual distributor's service area after the change in service area.

When two or more distributors are permitted to use a common load shape, in accordance with the provisions of the previous paragraph, the distributors shall use equation 3.4(b) for determining the net system load for a single hour. A distributor that does not combine with other distributors shall use equation 3.4(a) to estimate hourly load.

Equation 3.4(b)
Hourly Net System Load Calculation for an Aggregate Group of Distributors

$$NSL_h^A = \sum_{d_x=A}^{D^A} NSL_h^{d_x}$$

Where NSL_h^A = the net system load in hour h for settlement area A , which is a compilation of several licensed distribution areas
 D^A = the number of licensed distributors, d_x , in settlement area A

For any selected billing period, a distributor shall use equation 3.4(c) to calculate the hourly NSLS weight for each hour that shall be used in equation 3.4(a).

Equation 3.4(c)
 Calculation for Hourly Load Shares for a Billing Period

$$NSLS_h^A = NSL_h^A \div \sum_{h=1}^B NSL_h^A$$

Where $NSLS_h^A$ = the hourly net system load shape weighted for each hour of a billing period.

3.5 Variations Due to Differences in Meter Reading Practices and Billing Cycles

The average price paid for competitive electricity services will vary across billing periods due to the hourly variation in prices, NSLS and usage. This variation requires minor differences in the manner in which settlement costs for competitive electricity supply are calculated, depending on whether costs are based on actual or estimated electricity usage.

3.5.1 Settlement Based on Actual Meter Reads

A distributor shall calculate settlement costs based on actual metered usage amounts, determined from actual meter reads, at both the start and end of a billing period according to equation 3.3.2(a) (or any mathematically equivalent approach). When performing this calculation, a distributor shall assume that the starting and ending meter reads for the period occurred at 12:00:01 a.m. on the day of the actual meter read.

3.5.2 Settlement Based on Cycle Billing

Distributors who use cycle billing may, when calculating the load-weighted average price for a billing period, treat all consumers whose meters are read according to the same meter reading

cycle as if all of their meters were read on the same day, as long as the difference between the actual read date and assumed read date is four days or less.

3.5.3 Settlement Based on Estimated Usage

There are two common situations in which distributors issue bills based on estimated rather than actual metered usage:

1. A distributor regularly bills consumers on a cycle that differs from the consumer's meter reading cycle.
2. A distributor is unable to read a meter during the normal meter reading cycle.

A distributor may determine settlement costs when usage is based on an estimated usage followed by an actual meter read by calculating a bill using the NSLS weighted average price for the entire period between actual meter reads and then deducting any amount previously billed based on estimated usage amounts. This calculation is shown in equations 3.5.3(a) and (b) below. Alternatively, a distributor may determine settlement costs by calculating costs incurred since the date of the prior estimated value based on the net system load shape weighted average price for the period between the date the estimate was made and the date the meter was read. This calculation is shown in equations 3.5.3(c) and (d) below.

Equation 3.5.3

Option 1—Preferred

$$(a) \ CEC_{t,t+1} = (EMR_{t+1} - AMR_t) \cdot AP_{t,t+1}$$

$$(b) \ CEC_{t+1,t+2} = (AMR_{t+2} - AMR_t) \cdot AP_{t,t+2} - CEC_{t,t+1}$$

Option 2

$$(c) \ CEC_{t,t+1} = (EMR_{t+1} - AMR_t) \cdot AP_{t,t+1}$$

$$(d) \ CEC_{t+1,t+2} = (AMR_{t+2} - EMR_{t+1}) \cdot AP_{t+1,t+2}$$

Where $CEC_{t, t+1}$ = costs for competitive electricity services covering the billing period from date t to date $t+1$

$AP_{t, t+1}$ = net-system-load-weighted average price during the billing period from date t to date $t+1$

AMR_t = usage based on an actual meter read on date t

EMR_{t+1} = estimated usage on date $t+1$

When determining settlement costs based on estimated usage, a distributor shall make available, upon request from a retailer or consumer, a description of the estimation method used.

3.6 Consumers With Time-of-Use Meters

A distributor shall determine competitive electricity service costs for time-of-use-metered consumers in the same manner as for other non-interval metered consumers according to the provisions of section 3.3.2. Upon request by a retailer or consumer, a distributor shall make a good faith effort to develop the capability to calculate settlement costs for consumers with time of use meters according to equation 3.6(a) and shall recover the incremental cost of providing such services from the requesting party in accordance with a rate approved by the Board under section 78 of the *Act*.

Equation 3.6(a)

$$CEC_B^t = \left[\sum_{h=1}^{T_1^B} P_h^{d_x} \cdot NSLS_h^A \cdot E_B^{t, T_1} \right. \\ + \sum_{h=T_1^B}^{T_2^B} P_h^{d_x} \cdot NSLS_h^A \cdot E_B^{t, T_2} \\ \vdots \\ \left. + \sum_{h=T_{n-1}^B}^{T_n^B} P_h^{d_x} \cdot NSLS_h^A \cdot E_B^{t, T_n} \right] \cdot TLF_{d_x}$$

Where E_B^{t, T_n} = the cumulative energy used in billing period B for the time-of-use block ending in hour T_n

$\sum_{h=T_n^B}^{T_n^B}$ = the summation across all hours in billing period B for the time-of-use block ending in hour T_n

3.7 Consumers With Demand Meters

A distributor shall determine competitive electricity costs for demand metered consumers in the same manner as for other non-interval metered consumers, according to the provisions of section 3.3.2

3.8 Consumers With Controlled Loads

A distributor shall determine settlement costs for loads that are constrained through either centralised or decentralised load control procedures in the same manner as if the loads were uncontrolled.

3.9 Consumers With Prepaid Meters

A distributor shall determine competitive electricity costs for prepaid meters in the same manner as for other non-interval metered consumers, according to the provisions of section 3.3.2.

3.10 Unmetered Loads

With the exception of street-lighting loads on public roadways, a distributor shall determine settlement costs for unmetered loads based on distributor specified, cumulative usage estimates for the relevant billing period and the net system load weighted average electricity price for the relevant billing period. Cumulative usage estimates for all unmetered loads shall be adjusted by the total loss factor of the distributor. For street-lighting loads, a distributor shall determine settlement costs using a load weighted average price for the billing period based on a load profile approved by the Board. The street lighting load shall be uplifted for total losses.

4 DETERMINING SETTLEMENT COSTS FOR NON-COMPETITIVE ELECTRICITY SERVICE

4.1 Services Provided Through the IMO or a Host Distributor

In addition to charges for competitive electricity services computed based on prices in the IMO-administered wholesale market, invoices from the IMO to distributors will, in accordance with the Market Rules, include charges for ancillary services, transmission services, IMO administrative costs and other services required to support the wholesale market. All charges from the IMO other than competitive electricity services shall be considered non-competitive electricity costs. Both WMPD and embedded distributors shall settle non-competitive wholesale service costs based on rates approved by the Board under section 78 of the *Act*. A distributor shall adjust a consumer's usage by the applicable total loss factor for the purpose of determining the consumer's non-competitive electricity costs. A distributor shall record, in its RSVA, the difference between the amount billed by the IMO to the distributor for non-competitive electricity services and the amount billed by the distributor to consumers, retailers and embedded distributors, in aggregate, for the same set of services.

4.2 Distribution Services

Each distributor shall charge for the cost of distribution services associated with electricity delivery in accordance with distribution rates approved by the Board under section 78 of the *Act*. Charges for distribution services shall apply to all consumers connected to a distributor's system, regardless of whether the consumer is served under SSS or by a competitive retailer.

5 SETTLEMENT TIME LINE

5.1 Timing of Information From the IMO

The determination of settlement costs for a consumer or retailer depends on the receipt of hourly price and usage data from the IMO by a WMPD and from the host utility in the case of an embedded distributor. In accordance with the Market Rules, hourly price and usage data for the

trading day are provided by the IMO on a preliminary basis 10 business days after the trading day and on a final basis 20 business days after a trading day. A WMPD may not hold up settlement invoicing while awaiting the delivery of final data from the IMO required for a complete billing cycle. All settlement calculations shall be based on preliminary data. A distributor shall issue settlement invoices to retailers as soon as practical following receipt of preliminary price and usage data provided by the IMO or by the host distributor for the last trading day in the billing period covered by the settlement invoice. A distributor shall record in the RSVA any variances in settlement costs resulting from differences in preliminary and final data.

A host distributor must provide an embedded distributor with access to hourly data for all variables contained in equation 3.3.1(d) via the EBT System or via an alternative method agreed to between the host and embedded distributors.

5.2 Timing and Availability of Valid Meter Information

A distributor shall read all MIST meters at least once during a weekly period. The distributor shall complete the validation, editing and estimation (VEE) process for 100 percent of the hourly interval data obtained from MIST meters for the prior week according to procedures described in the Distribution System Code, and shall deliver the data to the EBT System by noon on the fourth business day after the meter reading day.

A distributor shall read all MOST meters and non-interval meters according to a meter-reading cycle established by the distributor. The distributor shall complete the VEE process for 100 percent of the meter-usage data according to procedures described in the Distribution System Code, and shall deliver the data to the EBT System by noon on the fourth business day after the scheduled meter reading day.

The distributor shall make available the information described in section 11.1 to retailers according to the schedule outlined above.

5.3 Timing of Settlement Invoices to Retailers

A distributor shall issue settlement statements to retailers according to the same meter reading and billing cycles as if the consumers served by the retailer were served under SSS. A distributor shall not impose billing or payment cycles on a different retailer than those imposed on the consumers served by the retailer unless the retailer agrees to such terms or unless the differences are due solely to differences in timing resulting from the ability to bill consumers more rapidly under fixed-price standard supply than to compute settlement costs for retailers.

5.4 Payment by Distributors to Retailers

Under distributor-consolidated billing (see section 7.2) a distributor shall collect revenue from consumers on behalf of a retailer. A distributor shall pay relevant amounts to a retailer on the same date that payment is due to the distributor from a consumer.

6 RETAIL SETTLEMENT VARIANCE ACCOUNT

A distributor shall establish a RSVA for the purpose of recording variances between the amount owed to the IMO by a WMPD or to a host distributor by an embedded distributor and the amount collected from consumers and retailers, that are created by the settlement process required under the Code. The manner and timing of disposition of the balances in the RSVA shall be determined by the Board.

7 SETTLEMENT AND BILLING OPTIONS

A distributor shall have the ability to accommodate three billing options:

1. Retailer-consolidated billing;
2. Distributor-consolidated billing; and,
3. Split billing.

The selection of a billing option shall be determined by the consumer and the retailer. The retailer shall notify the distributor of the desired option in accordance with the procedures described in Chapter 10.

7.1 Retailer-Consolidated Billing

The provisions that relate to retailer consolidated billing are set out in sections 7.1 to 7.1.3. If a consumer is being billed by way of retailer consolidated billing, the distributor shall bill the designated retailer for all competitive and non-competitive electricity costs incurred on behalf of the consumer, calculated in accordance with the provisions outlined in Chapters 3 and 4. A distributor shall not directly bill a consumer who is to be billed under retailer-consolidated billing except for certain customer-specific, irregularly recurring, miscellaneous, non-energy charges that have been itemized in a list provided to a retailer by a distributor. Charges described in section 9.3 of the Electricity Distribution Rate Handbook, with the exception of charges described in section 9.3.15, shall be billed by the retailer.

7.1.1 Information Flow From Distributor to Retailer

A distributor shall deliver settlement invoices to retailers using the EBT System. Unless other arrangements are agreed to in the Service Agreement established between the parties, a distributor shall itemise the costs attributable to each individual consumer served by a retailer. Costs for each consumer shall, at a minimum, be unbundled in the following manner, as appropriate:

- Competitive electricity service costs;
- Non-competitive electricity service costs;
- Distribution charges itemised in terms of the billing determinants used to calculate it (e.g. a fixed charge, usage charge and/or demand charge);
- Competition transition charge, if applicable;
- Rural rate protection charges or credits, if applicable;
- Market power mitigation credit;

- All applicable taxes itemized in accordance with the applicable legislation; and
- Avoided cost credits (e.g. for metering or billing services not provided by the distributor).

A distributor shall also provide a retailer with the following information at the same time as the distributor delivers the settlement invoice to the retailer:

- Individual consumer usage for the billing period for all consumers;
- Individual consumer peak demand for the billing period for all demand-metered consumers;
- The net-system-load-weighted average price used to calculate commodity costs for each individual consumer;
- Summary of the net amount owed to the distributor by the retailer for the entire invoice; and
- Payment due date.

A distributor shall also bill retailers periodically for transaction fees and other administrative costs incurred by the distributor on behalf of the retailer. Some of these costs will be consumer-specific (e.g. customer transfer costs, final meter read costs, etc.) while others may apply only to the retailer in aggregate (e.g. account set-up charges). Consumer-specific costs shall be itemised by consumer account number and by type of service. A distributor may invoice these charges according to a different schedule (e.g. monthly) rather than according to the schedule associated with settlement for services that are billed based on usage and, therefore, depend upon a distributor's meter-reading and billing cycle.

In all cases, the specific payment and billing schedule for settlement processing with retailers shall be clearly delineated in the Service Agreement that is required between distributors and retailers.

7.1.2 Consumer Non-Payment Risk

Under retailer-consolidated billing, the retailer is solely responsible for consumer non-payment risk. Any retailer providing services to consumers under retailer-consolidated billing shall pay

the consumer's distributor for all of the competitive and non-competitive service costs incurred by the consumer regardless of whether or not the retailer is paid by the consumer. In the event that a retailer is not paid by a consumer served under this billing option, the retailer may submit an STR to a distributor to return the consumer to SSS. A distributor shall process this request in the same manner and according to the same schedule as any other STR according to the rules and procedures outlined in Chapter 10. A retailer shall be responsible to the distributor for all costs that the non-paying consumer incurs before the transfer process has been completed. A distributor may collect payment from the retailer even if the non-paying consumer is disconnected or no longer receives services from the retailer. A retailer may not order a distributor to disconnect a consumer for non-payment of a retailer's bill.

7.1.3 Distributor/Consumer Communication

For consumers served under retailer-consolidated billing, a distributor shall refer all billing inquiries to the consumer's retailer, including inquiries about distribution costs on the consumer's bill. A distributor shall directly address any consumer inquiries about meter accuracy, distribution rates and safety and reliability. Inquiries about usage, including how usage might be modified to lower bills, may be addressed either by the distributor or referred to the consumer's retailer.

7.2 Distributor-Consolidated Billing

The provisions that relate to distributor-consolidated billing are set out in sections 7.2 through 7.2.4. If a consumer is billed by way of distributor-consolidated billing, the distributor shall issue a bill to the consumer that includes the full cost of delivered electricity with the portion of the bill attributable to competitive electricity costs based on the contract terms between the consumer and their retailer. Under this option the distributor shall bill and collect from consumers on behalf of retailers. The charge for such billing services shall be approved by the Board under section 78 of the *Act*.

Two forms of distributor consolidated billing are possible; bill-ready and rate-ready. Under bill-ready billing, the portion of the bill covering competitive electricity services for each consumer is calculated by a retailer and the information is transmitted to the distributor for inclusion on the

consumer's bill. Under rate-ready billing, a distributor calculates the portion of the bill covering competitive services based on the price and terms provided by the retailer. In both cases, a distributor is responsible for calculating the portion of the bill covering non-competitive services. Also in both cases, the distributor must determine settlement costs attributable to the competitive electricity service portion of the bill according to the provisions outlined in Chapter 3. The distributor shall bill or credit the retailer for the difference in settlement costs calculated according to the provisions in Chapter 3 and according to the retailer's contract terms with the consumer.

A distributor shall provide bill-ready billing as a mandatory service upon request by a retailer. A distributor may provide rate-ready billing as an optional service and, upon request from a retailer, shall make a good faith effort to provide rate-ready billing.

7.2.1 Information Flow From Distributor to Retailer

A distributor shall issue settlement statements to retailers covering the difference between the cost of competitive electricity services calculated according to the provisions in Chapter 3 and the amount billed to consumers on behalf of the retailer. Settlement statements shall include charges for any settlement services provided by the distributor to a retailer at rates approved by the Board under section 78 of the *Act*. A distributor shall issue settlement statements on each business day in accordance with the meter-reading and billing cycle associated with the consumers being billed and the availability of necessary information from the IMO or from the host distributor. Settlement statements shall be communicated according to the EBT System.

7.2.2 Information Flow From Retailer to Distributor

Under bill-ready, distributor-consolidated billing, the distributor shall be capable of accepting at least one separate bill amount from a retailer for each individual consumer for each billing cycle. All metered and unmetered service points with respect to a particular account shall be aggregated by a retailer when providing a distributor with bill amounts. The amount shall be posted separately on the consolidated bill, along with a brief description of the services to which the amount pertains. The description provided by the retailer must fit within a single line on the bill using the distributor's standard bill format.

Retailers shall provide distributors with bill amounts for each of the retailer's customers connected to the distributor's distribution system in a timely manner so that billing to the consumer is not delayed. A data delivery schedule shall be set out in the Service Agreement. All bill information provided by a retailer to a distributor must be communicated according to the EBT System.

7.2.3 Consumer Non-Payment Risk

Distributors may use whatever means are available under the law to mitigate consumer non-payment risk, including the threat of, or implementation of, disconnection for non-payment of distribution charges according to procedures described in section 7.57.2.4

Distributor/Consumer Communication

A distributor shall address consumer inquiries concerning distribution service, meter accuracy and bill calculation errors. A distributor shall refer all inquiries pertaining to retailer pricing or contract terms to the relevant retailer. Inquiries about usage, including how usage might be modified to lower bills, may be addressed either by the distributor or referred to the relevant retailer.

7.3 Split Billing

The provisions that relate to split billing are set out in sections 7.3 to 7.3.3. If a consumer is billed by way of split billing, the distributor shall issue one bill to the consumer that covers all non-competitive electricity costs, less any administrative costs that are paid by the retailer. The consumer's retailer is responsible for the issuance of the other bill that covers the cost of competitive electricity services based on the price and other contractual terms agreed to by the consumer and the retailer. The requirement for distributors to provide a split billing option as set out in this section 7.3 shall be implemented on a date to be determined by the Board.

Under split billing, a distributor shall issue settlement statements to the consumer's retailer that charge for the competitive electricity costs calculated as described in Chapter 3, as well as any other relevant settlement costs or credits according to rates approved by the Board.

7.3.1 Information Flow From Distributor to Retailer

A distributor shall issue settlement statements to retailers covering the cost of competitive electricity services and other relevant costs and credits calculated as described in Chapters 3 and 4. A distributor shall issue settlement statements on each business day according to the meter reading and billing cycle associated with the consumers being billed. Settlement statements shall be communicated according to the EBT System.

7.3.2 Consumer Non-Payment Risk

A distributor and a retailer shall each be responsible for consumer non-payment risk for the bills that each issues to consumers. Any retailer providing services to consumers under split billing shall pay the consumer's distributor for all competitive electricity costs incurred by the consumer regardless of whether or not the retailer is paid by the consumer. In the event that a retailer is not paid by a consumer served under this billing option, the retailer may submit an STR to the distributor to return the consumer to SSS. A distributor shall process this request in the same manner and according to the same schedule as any other STR. A retailer shall be responsible to the distributor for all costs that the non-paying consumer incurs before the transfer process has been completed. A retailer may not order a distributor to disconnect a consumer for non-payment of a retailer's bill.

A distributor may use whatever means are available under the law to mitigate consumer non-payment risk, including the threat of, or implementation of, disconnection for non-payment of distribution charges according to procedures described in section 7.5.

7.3.3 Distributor/Consumer Communication

A distributor shall address all consumer inquiries concerning distribution service, meter accuracy, usage amounts and calculation errors. A distributor shall refer all inquiries pertaining to retailer pricing or contract terms to the relevant retailer.

7.4 Billing to Standard Supply Service Consumers

Sections 7.4 through 7.4.3 describe the relevant provisions with respect to SSS settlements and billing.

7.4.1 SSS Billing and Settlement Processing Are Not the Same

SSS will be billed according to a rate established by the Board under section 78 of the *Act*. Regardless of the SSS rate, settlement cost calculations with respect to SSS customers shall be done according to the provisions of Chapters 3 and 4.

7.4.2 Settlement Invoicing to SSS Providers

A distributor shall calculate a settlement invoice for all SSS customers and charge the amount to the distributor's Purchased Power Variance Account if the distributor is providing SSS directly. If SSS is provided by a third party, the settlement invoice shall be sent by the distributor to the retailer providing SSS.

7.4.3 Consumer Non-Payment Risk Mitigation

A distributor may use any risk mitigation options available under law to manage consumer non-payment risk. A distributor may impose an amount and type of security requirement on a consumer depending upon the distributor's assessment of the consumer's likely risk of non-payment. A distributor shall not discriminate among consumers with similar risk profiles or risk-related factors.

If a distributor is in possession of a consumer deposit when a consumer changes from SSS to a competitive retailer or between competitive retailers or changes billing options from distributor-consolidated billing to either split billing or retailer-consolidated billing, the deposit shall be applied to the consumer's final bill prior to the change in service. A distributor shall return any excess deposit amount to the consumer according to the terms specified by the distributor at the time the deposit was originally collected. A distributor shall not redirect any portion of a consumer's deposit to a competitive retailer. In the event that a change is made from distributor-

consolidated billing to split billing, a distributor may retain a portion of the deposit amount that reflects the non-payment risk associated with the new billing option.

7.5 Disconnection

A distributor may disconnect a property from the distributor's distribution system if any amounts payable by a consumer to the distributor for non-competitive electricity costs are overdue.

A distributor may disconnect a property from the distributor's distribution system if any amounts payable by a consumer for competitive electricity services costs provided under SSS are overdue.

A distributor shall not disconnect a property from the distributor's distribution system at the direction of a retailer or if an amount payable by a consumer to a retailer is overdue.

The provider of competitive electricity services to a consumer does not change solely as a result of a consumer being disconnected in accordance with this section.

Where a distributor disconnects a property in which a consumer is served by a retailer, the distributor shall promptly notify the retailer.

7.6 Reconnection

A distributor may refuse to reconnect a consumer as long as the consumer remains in arrears on payment for competitive electricity services provided under SSS or for non-competitive electricity services. A distributor's right to refuse re-connection may be exercised regardless of whether a consumer requests service under SSS or from a retailer. Where a distributor reconnects a property in which a consumer is served by a retailer, the distributor shall promptly notify the retailer.

7.7 Billing Errors

Where a billing error, from any cause, has resulted in a consumer or retailer being over billed, and where Measurement Canada has not become involved in the dispute, the distributor shall credit the consumer or retailer with the amount erroneously billed. The credit the distributor remits to the appropriate parties shall be the amount erroneously billed for up to a six-year

period. Where the billing error is not the result of a distributor's standard documented billing practices, i.e. estimated meter reads, a distributor shall pay interest on the amount credited to the relevant party equal to the prime rate charged by the distributor's bank.

Where a billing error, from any cause, has resulted in a consumer or retailer being under billed, and where Measurement Canada has not become involved in the dispute, the distributor shall charge the consumer or retailer with the amount that was not previously billed. In the case of an individual residential consumer who is not responsible for the error, the allowable period of time for which the consumer may be charged is two years. For non-residential consumers or for instances of wilful damage, the relevant time period is the duration of the defect.

The entity billing a consumer, whether a distributor or a retailer, is responsible for advising the consumer of any meter error and its magnitude and of his or her rights and obligations under the *Electricity and Gas Inspection Act* (Canada). The billing party is also responsible for subsequently settling actual payment differences with the consumer or retailer as described above.

8 SECURITY ARRANGEMENTS BETWEEN DISTRIBUTORS AND RETAILERS

A distributor shall enter into security arrangements with each retailer to protect against the risk of payment default by the retailer. The terms of these arrangements, including the magnitude and type of security required and the planned frequency and timing for updating the security arrangements as market share and other determining factors change, shall be set out in the Service Agreement. The amount and type of security required may vary based on estimates of the magnitude of exposure, determined according to the provisions of section 8.1 below, and the creditworthiness of the retailer.

8.1 Estimating the Magnitude of Exposure

The magnitude of exposure that a distributor faces will vary with factors such as: the number of consumers served by a retailer, the average consumption of consumers served by the retailer: the length of the billing cycle (e.g. 30 days, 60 days, etc.); and the type of billing in place (e.g.

retailer-consolidated or distributor-consolidated or split billing). A distributor shall apply the rules described in sections 8.1.1 through 8.1.3 when determining the maximum amount of security that can be required from a retailer. A distributor may choose to require security for a lesser amount than is determined based on these rules.

8.1.1 Retailer-Consolidated Billing

A distributor shall use the following process to determine the maximum allowable amount of security that may be imposed on a retailer who bills consumers using the retailer-consolidated billing option.

Step 1: Estimate the total bill (e.g. all charges for competitive and non-competitive electricity services settled through the distributor) for a one calendar month period for an average consumer for each class of consumer in which at least one of the class members is served by the retailer (with the competitive and non-competitive electricity costs determined according to the rules in Chapters 3 and 4). For the purpose of this estimation, the estimated usage for an average consumer in each class shall be the total reasonably estimated usage for the class in the calendar month during the calendar year in which total consumption of electricity in Ontario is expected to be greatest divided by the number of members of the class within the distributor's service area. For the purpose of this estimation, the price estimates used in calculating competitive electricity costs shall be the same as the most recent estimated market prices in the real-time energy market established by the IMO for the purposes of determining market participant maximum net exposures and prudential support obligations.

Step 2: Multiply the number of consumers in each class served by the retailer by the estimated total bill calculated in accordance with Step 1 and add the totals for each class together.

Step 3: If a distributor bills a retailer monthly, multiply the amount determined in Step 2 by 2.5. If a distributor bills bimonthly, multiply the amount in Step 2 by 1.75. If a distributor bills quarterly, multiply the amount in Step 2 by 1.5. The resulting value is the maximum

amount of security that a distributor may impose on a retailer.

8.1.2 Split Billing

For the split-billing option, a distributor shall use the same three-step process outlined in section 8.1.1 to determine the maximum allowable amount of security, except that the magnitude shall be based only on that portion of the bill covering competitive electricity costs, and not on the entire bill for delivered electricity.

8.1.3 Distributor-Consolidated Billing

The following provisions relate to the calculation of the maximum allowable security for distributor consolidated billing.

If a retailer provides specific price information with respect to its contracts with its customers or provides a weighted average price for each class of consumer within the distributor's service area that it serves, the distributor shall use this information in setting the maximum allowable amount of security required from the retailer. For the purpose of calculating the weighted average price, the estimated usage shall be based on an average consumer in each class which shall be calculated by dividing the total reasonably estimated usage for the class in the calendar month during the calendar year in which total electricity consumption is expected to be greatest by the number of members of the class within the distributor's service area. Where a retailer has provided specific price information or a weighted average price, the distributor shall use the same three-step process outlined in section 8.1.1 to determine the maximum allowable security, except that the estimate shall be based on the difference between the price estimates which would be used in Step 1 of section 8.1.1 and the forecast amount to be charged to the consumer based on the price information from the retailer.

Where a retailer chooses to not provide specific price information or a weighted average price as described above, the distributor shall calculate the maximum amount of security based on the same amount as if the split bill option was in effect as described in section 8.1.2.

8.2 Updating Security Estimates

A distributor shall periodically update the forecast of aggregate usage based on current estimates of the number and type of consumers served by a retailer. A distributor may update the estimate as frequently as it wishes, but shall update the estimate at least once every three months using the procedures described in sections 8.1.1 through 8.1.3 and the most recent values for number of consumers served by a retailer. If the maximum allowable amount of security has increased by more than 10 percent over the amount currently in place and a distributor wishes to increase the security requirement, a retailer shall meet the new requirement within 20 business days. Where the maximum allowable amount of security has fallen below the amount currently in place by more than 10 percent, the distributor may continue to require the retailer to provide as security no more than the greater of:

- (a) the most recent calculation of the maximum allowable amount of security; and
- (b) the amount not in excess of the previously calculated maximum allowable amount of security which has been invoiced by the distributor and which is due and owing or will become due and owing within the next forty business days from the date that the maximum allowable amount of security was recalculated.

Where the retailer is entitled to reduce the amount of security provided, the distributor shall notify the retailer immediately.

Where the form of security in place between a retailer and a distributor is a cash deposit held by the distributor, the distributor shall, if requested by the retailer, return the excess amount to the retailer within 20 business days of the date on which the new estimate was determined.

8.3 Type of Security

A distributor may require a retailer to post security for any amount equal to or less than the maximum amount of security calculated according to the provisions described in section 8.1. A distributor shall accept, at the discretion of a retailer, any of the following types of security or any combination thereof: an irrevocable letter of credit, surety bond, cash deposit or a lock-box

arrangement. Where the retailer wishes to use a lock-box arrangement, the distributor and the retailer shall agree on the financial institution that is to be used.

If a retailer provides security in the form of a cash deposit, a distributor shall pay interest on the deposit. The interest rate payable shall be the lesser of the rate that a distributor earns from any security deposits provided by consumers and the prime rate charged by the distributor's bank. A retailer may require that cash deposits be held in specified low-risk interest-bearing accounts; however the distributor shall have exclusive access to the funds posted for security.

A distributor may, at its discretion, accept bond ratings or other credit ratings from retailers in lieu of the other types of security described above. In applying this discretion, a distributor shall not discriminate among retailers with comparable risk profiles.

8.4 Default Process

In the event of settlement payment default by a retailer, a distributor shall not access the funds available through the relevant security agreement before a period of five business days has elapsed from the date the settlement payment was due. The day after a settlement payment was due, a distributor shall immediately notify a retailer that payment was not received and work with the retailer to remedy the situation. After 10 business days, if the account remains unpaid and the parties have not agreed on a remedy, the distributor may notify the retailer's consumers that they will become SSS consumers according to a schedule determined by the distributor unless such consumers elect to receive supply from another retailer. If the distributor receives an STR that identifies an alternative retailer prior to switching a consumer to SSS, the distributor shall process the STR and switch the consumer to the new retailer rather than back to SSS.

During a default period, a distributor shall not retain any revenues collected by the distributor on behalf of the retailer as security unless the magnitude of security accessible to the distributor is insufficient to cover the amount of the default.

A distributor may charge a retailer and a retailer may charge a distributor interest on any overdue settlement payments at a rate equal to the prime rate charge by the bank of the party which is owed money plus 2 per cent per annum.

A distributor may charge a retailer for the cost of final meter reads and other allowable transaction costs associated with transferring consumers back to SSS based on the applicable rates approved by the Board under section 78 of the *Act*.

9 SETTLEMENT DISPUTE PROCEDURES

Any disputes between retailers, embedded retail generators or consumers and distributors concerning the implementation of a distributor's responsibilities under this Code shall be settled according to the dispute mechanism specified by the Board in a distributor's licence. Disputes concerning the settlement amount billed or owed by a distributor to a retailer or an embedded retail generator do not relieve either party from their obligations to make payment in full at the time payment is due. Any deviations between the amount paid at the time due and the amount determined through the dispute resolution process shall be subject to payment of interest. The interest rate shall equal the prime rate charged by the distributor's bank.

10 SERVICE TRANSACTION REQUESTS

A distributor shall accept and process STRs according to the provisions set out in this Chapter.

10.1 Service Transaction Requests Covered by the Retail Settlement Code

This Code addresses the following types of service transaction requests:

- A change from electricity supplied to a consumer through SSS to electricity supplied by a competitive retailer;
- A change in a consumer's supplier of electricity from one competitive retailer to another;
- A change from electricity supplied to a consumer by a competitive retailer to electricity supplied through SSS;
- A change in a consumer's metering or billing options for consumers currently served by a retailer;
- A change in consumer location (either within a distributor's service area or a move to another distributor's service area); and

- A request to deliver consumer-specific information (as defined in section 11.3) to a consumer or to one or more retailers.

Any request for a change or modification in service that is not included in the above list is governed by other codes or by a distributor's normal business practices.

10.2 Consumer Authorisation

With the exceptions noted in the remainder of this paragraph, all STRs listed in section 10.1 must be based on a consumer's written authorisation. There are three STRs where a consumer's written authorisation is unnecessary. The first is a request to deliver historical, consumer-specific information to a consumer's service or billing address, which may be implemented based on verbal authorisation. A request to release consumer-specific information to a retailer or to any address other than the service or billing address must be made in writing. The second is a request by a retailer to transfer a consumer to SSS, which shall be implemented according to the procedures described in section 10.5.4. The third concerns the exercise of a distributor's right to transfer a consumer back to SSS in the event of payment default by a retailer as described in section 8.4.

A retailer who submits STR on behalf of a consumer is not required to submit to a distributor a physical or electronic copy of the consumer's written authorisation in order for the STR to be processed. However, when the retailer obtains the written authorisation from a consumer to modify service arrangements, a retailer shall also obtain written authorisation to act as the consumer's agent for the purpose of advising a distributor that the person wishes to obtain the service being requested. When a retailer submits an STR to a distributor, the retailer shall state explicitly that written authorisation has been obtained from the consumer for both the indicated transaction and for the authority of the retailer to act as the consumer's agent in submitting the STR. A retailer shall retain records to validate these claims and shall submit a copy of the authorisation to the distributor if requested by the distributor to do so. A distributor shall retain records of all STRs received from retailers or consumers.

10.3 Service Transaction Request Information Requirements

A distributor shall be capable of processing the following information as part of the STR process:

- The consumer's name;
- Service address for which the change in service is requested;
- An indication of whether or not a retailer will accept all accounts operating under the same name at a single address if multiple accounts are found and if the service request does not identify all account numbers at the address;
- Consumer postal code;
- Distributor account number(s);
- Meter identification number;
- The requesting retailer's consumer account number;
- The requesting retailer's account number with the distributor;
- The earliest date after which transfer of the account is acceptable to the retailer and/or consumer or the specific date on which the transfer is requested;
- The preferred method for finalising the account (e.g., next scheduled read date, special read, last actual read if allowed and whether a card, phone-in or estimated read is agreeable to all relevant parties). In the absence of such information, a distributor shall check its retailer account set-up file to determine whether or not there is a default position regarding how to handle final reads;
- Identification of the desired meter services (e.g., replace the existing meter, change to an interval meter, specific optional meter services, etc.), including the date upon which any change in service is desired;
- Identification of the intended billing option;
- Identification of any consumer-specific information desired (e.g., usage history, meter information, credit information); and
- For a change in customer location, whether or not the customer wishes to retain the same retailer, including an SSS provider.

10.4 Initial Screening of Service Transaction Requests

A distributor shall process STRs in the order in which they are received. A distributor shall complete the initial screening process described in this subsection within five business days of receipt of the STR from a retailer or consumer.

A distributor shall accept an STR from certain parties and through specific communication channels depending upon the type of transaction in accordance with the following rules:

1. A request to transfer a consumer from SSS to a competitive retailer, or from one retailer to another, shall be submitted by the retailer who will serve the consumer if the transaction is completed (referred to here as the new retailer). If a request is submitted either by a consumer or the current retailer, a distributor shall notify the new retailer to determine if the request is valid.
2. A request to transfer a consumer from supply by a competitive retailer to SSS may be submitted by a consumer or the consumer's current retailer.
3. A request to change service location may be submitted by either the consumer or the consumer's current retailer.
4. A request to change billing options or meter services when a consumer is currently served by a competitive retailer may only be submitted by the current retailer. If the request is submitted by the consumer, a distributor may, at its option, either notify the consumer to have its retailer submit the request or notify the retailer that a request has been received from its customer and inquire as to the position of the retailer with respect to the STR.

Once a distributor has received an STR from the appropriate party, the distributor shall continue processing the request if the STR has a valid entry for the retailer's account number and has valid entries for the following information : consumer's account number with the distributor, and one of the following : the consumer's name or the, consumer's mailing address (the validation terms). If an account number has not been assigned to a consumer the distributor shall not process the STR unless valid information for the two remaining validation terms is provided. In the absence of meeting this requirement, the distributor shall reject the STR and notify the requesting party that the request cannot be processed. A distributor shall treat the initial request as if it were never received. If a new STR is submitted subsequently by the same party, the new STR will be processed in the appropriate order vis-à-vis other STRs based on the date of the subsequent submission.

If an STR has valid entries for the validation terms identified in the previous paragraph, a distributor shall attempt to identify the consumer to whom the request applies by matching the submitted information with information contained in the distributor's customer information system. If the validation terms identified in the previous paragraph match the corresponding information contained in a distributor's customer database, the distributor shall tag the STR as "pending." An STR will remain pending until the transfer request has been completed, has been withdrawn by the requesting party or by the consumer in response to various notifications and processing steps identified below, or has been terminated by the distributor for valid reasons identified below. If the validation terms do not match the corresponding information in the distributor's customer database, a distributor shall notify the requesting party and identify the invalid information. An STR shall not receive pending status until there is a valid match between the information it contains and the corresponding information contained in the distributor's information system.

Once an STR has been tagged as pending, a distributor shall determine whether or not the remaining information required to implement the request is complete. If the information is incomplete, the distributor shall notify the retailer or consumer about the specific deficiencies contained in the request and will await a reply. This process of checking, notification and rechecking information will continue until the distributor has all of the necessary information to move to subsequent stages of the transfer process.

Initial submission of an STR by a retailer, and all standard communication associated with the process outlined above, must be done using the EBT System. A distributor shall allow consumers to transmit STRs via the postal system, facsimile transmission or electronically via the Internet if the distributor has such capability. Communication from a distributor to a consumer may be handled through any mutually agreeable method, including postal service, telephone, facsimile transmission or some other electronic means.

10.5 Rules and Procedures for Processing Service Transactions Involving a Change in Electricity Service Provider

Of the six types of STRs identified in section 10.1, the first three involve a change in competitive electricity service provider. Sections 10.5 through 10.5.6 describe the procedures for STRs that involve a change in competitive electricity service provider.

There are five generic activities involved in processing an STR:

1. Assessing the nature of a request and determining what actions are required to complete the transaction;
2. Completing a final meter read;
3. Under specific circumstances, notifying selected parties of the status of the transaction;
4. Updating databases concerning the new service provider relationships; and
5. Posting the relevant charges to retailer and or consumer accounts to cover transaction-related costs and issuing a final settlement bill.

Some procedures in these five areas are common across all transactions involving a change in service provider while others are specific to the transaction type. Common procedures are addressed below and in sections 10.5.1 and 10.5.2. Sections 10.5.3 through 10.5.5 contain the rules and procedures that pertain to a specific transaction type. Nothing in sections 10.5 to 10.5.5 should be interpreted as in any way interfering with the contractual rights or obligations of retailers or consumers or the remedies available to retailers or consumers to enforce those contractual rights or obligations.

In determining whether to process an STR involving a change in a consumer's electricity supply arrangements, a distributor may consider whether or not a retailer has sufficient security in place to indemnify the distributor against retailer default risk, taking into consideration the factors outlined in Chapter 8.

In determining whether to process an STR involving a change in a consumer's electricity supply arrangements, a distributor may also consider whether or not a consumer is in arrears on payment to the distributor. A distributor may refuse to process an STR if a consumer is currently in arrears on payment to the distributor. Should a distributor choose to process the STR in spite of

the consumer being in arrears or if a distributor discovers new arrears after an STR has been processed, the distributor retains the right to pursue collection of the amount in arrears even if the customer is currently served by a retailer.

Upon completion of an STR, a distributor shall modify its information databases to reflect the current status of service relationships. Accurate and current information shall be maintained concerning who the electricity service provider is and what billing option is in place.

A distributor shall post relevant charges for service transaction activities to a retailer's or a consumer's account and issue the final settlement bill to consumers and/or retailers. The Board will approve rates for transaction activities such as special meter reads and the administrative cost of transfer processing.

Subject to the rules and procedures outlined in this Code and payment of relevant transaction fees approved by the Board, there is no limitation on the frequency with which consumers can change electricity suppliers.

10.5.1 Meter Reads

Subject to sections 10.5.1 and 10.5.3 to 10.5.5, a service transfer from one retailer to another, including a transfer from or to an SSS provider, shall only take effect on the date of an actual meter read. Despite the requested service transfer set out in an STR, a distributor may specify in its Service Agreement with a competitive retailer a number of days prior to any next scheduled meter read where, if a distributor receives an STR requesting a change in service provider less than the number of days specified in the Service Agreement before the next scheduled meter read, the distributor is not obligated to change service provider until the scheduled meter read following the next scheduled meter read. The number of days specified in the Service Agreement shall not exceed twenty business days before the next scheduled meter read. The requesting party may request the distributor to schedule a special meter read.

Where a service transfer is scheduled to take effect on the date of the next scheduled meter read date, a distributor shall notify the requesting party of the scheduled date unless the requesting party has advised the distributor that notification is unnecessary. If the requesting party is a

consumer, the distributor shall also notify the retailer of the scheduled date. When notified of the scheduled date, the requesting party may request a special meter read.

If a transfer is to occur on the next scheduled meter read date and the meter read is not successful, within five business days following the missed read, a distributor shall undertake a special meter read at no charge to the requesting party unless past meter reading records indicate that the likelihood of a successful meter read is low. A distributor shall also notify the requesting party that the meter read, and therefore the supply transfer, was not successful and inform the requesting party of the steps that will be taken to remedy the situation. In the event that a special meter read is unlikely to be successful or is attempted and fails, a distributor shall, depending on which option it has chosen in its Service Agreement with a competitive retailer, process the transfer using an estimated read, use estimates provided by customers in lieu of an estimated read, or negotiate a different course of action. Where a distributor chooses more than one of the options set out above in its Service Agreement, the competitive retailer may, where the circumstance described above arises, choose whichever one of the options available from the distributor that it wishes. If a transfer request involves a special meter read scheduled for a specific date, a distributor shall undertake the meter read on the requested date or notify the requesting party why this is not possible. A special meter read will be paid for by the requesting party based on a rate approved by the Board under section 78 of the *Act*. If a special meter read is unsuccessful, a distributor shall immediately notify the requesting party and agree upon a process for completing or terminating the transfer. If a transfer is terminated because of a failure to complete a special meter read, the requesting party shall not be charged for the failed meter read attempt.

If a transfer request is for a change from SSS to competitive supply, it may be done based on a historical, actual meter read as long as the distributor has not issued an estimated bill to the consumer since the date of the last actual read.

Where all affected parties agree, a service transfer may take effect on a date other than the date of a future actual meter read. The final bill may be based on one of the methods set out below which all affected parties have agreed to in writing:

1. historical actual meter read;

2. card or phone-in customer read;
3. estimated read.

For the purposes of these options the parties include the current retailer, the consumer and the distributor. For the purposes of a transfer from one competitive retailer to a competitive new retailer, the affected parties shall also include the new retailer.

10.5.2 Mandatory Notices

A distributor shall issue notices to various parties as part of the process of implementing STRs.

Notices have three purposes:

1. To inform current service providers or a consumer that a request to change service arrangements has been received;
2. To inform various market participants what actions they must take before a transfer will be implemented (e.g., if they are in arrears or if security arrangements are inadequate); and
3. To keep various market participants apprised of the timing and status of the transfer process.

Mandatory notices vary with the type of transaction and are delineated in subsections 10.5.3 through 10.5.6.

10.5.3 Processing a Change From SSS to a Competitive Retailer

STR requesting transfers of consumers may only be submitted to a distributor on or after a date to be fixed by the Board. A distributor which receives such an STR prior to the date fixed by the Board shall not process the STR and shall promptly return it to the retailer. An STR requesting the transfer of a consumer from SSS to a competitive retailer shall be submitted by the retailer who will become the new supplier if the STR is implemented. Upon receipt of the STR, a distributor shall check to see if electricity supply is currently being provided by a competitive retailer or if a request to transfer to another retailer is currently pending. If the consumer is currently served under SSS and no transfer is pending, the distributor shall proceed to process the transfer. Where an STR is received (the second STR) and a consumer is presently served by SSS

yet an STR is pending, the second STR shall be rejected by the distributor with a notice that there was a pending STR for the consumer.

A distributor has no specific notification requirements associated with a transfer from SSS to a competitive retailer, other than those related to meter reads as specified in section 10.5.1, unless the consumer turns out to be served by a competitive retailer, rather than being an SSS consumer, or unless there is also a pending request.

10.5.4 Processing a Change From One Competitive Retailer to Another

An STR involving a transfer from one competitive retailer to another shall be submitted by the retailer to whom the consumer will be transferred if the process is completed. A distributor shall notify the current retailer that a transfer request has been received and wait twenty business days before continuing transfer processing. If no response is received from the current retailer, the request will be processed. If, at the end of the twenty business day period, the distributor has not received written authorisation from any party to cease processing, the transfer request shall be completed. If the new retailer, the consumer or the current retailer (acting upon specific written authorisation from the consumer to terminate the transfer) notifies the distributor, by way of written authorisation that the transfer request should be terminated, the distributor shall cease processing the transfer. Whichever party submits the termination request, the distributor shall notify the other two parties that processing of the transfer has terminated.

In the event that an STR for a consumer (the second STR) is received by a distributor and there exists for the same consumer, a pending STR (the initial STR), the distributor shall notify the retailer that filed the second pending STR that it has been rejected as there is already a pending STR waiting for the supplier change to proceed.

A service transfer date shall coincide with the date of the final meter read based on the option designated in the STR or the default option agreed to between a distributor and retailer. Final meter read options allowed for in this scenario include all options identified in section 10.5.1. However, the historical meter read option can only be used if all three parties, the two retailers and the consumer, agree in writing. If a transfer is to be based on an estimated value or on a

consumer read, all four parties, the distributor, both retailers and the consumer, must agree in writing to the terms of the arrangement.

10.5.5 Processing a Change From a Competitive Retailer to SSS

An STR involving a transfer from a competitive retailer to SSS may be submitted either by the current retailer or the consumer.

If the STR is submitted by the current retailer, a distributor shall notify the consumer that a transfer is taking place and the scheduled transfer date but the consumer may not unilaterally terminate this request.

If the STR is submitted by a consumer, a distributor shall notify the current retailer and delay processing ten business days unless the current retailer responds that no delay is necessary. If, during the ten-day waiting period, a distributor is notified, by way of written authorisation, by the consumer or the current retailer (acting upon specific written authorisation from the consumer to terminate the transfer) that processing should be terminated, the distributor shall cease transfer processing. A distributor shall notify the retailer and the consumer that the transfer will not be completed.

Where all affected parties agree, a service transfer may take effect on a date other than the date of an actual meter read. The final bill may be based on one of the methods set out in section 10.5.1.

For the purposes of section 10.5.5, the affected parties are the retailer, the consumer and the distributor.

10.5.6 Transitional Arrangements

Prior to the EBT System becoming operational, a distributor shall accept STRs related to a change in competitive electricity service provider by any of the following means of communication: an electronic file transmitted by way of an e-mail, a diskette or the Internet.

Where a distributor is unable to accept electronic files, it shall accept paper copies of such STRs received through Canada Post, courier, or by facsimile. Such STRs shall be in a form and

contain information as set out in Appendix B, or an equivalent form designed by the distributor. A distributor shall not require information beyond that set out in Chapter 10.

Prior to the EBT System becoming operational, a distributor shall be required to process STRs related to changes in competitive electricity service provider in an expeditious manner, and at a minimum shall record the date and time that individual STRs are received by the distributor.

10.6 Rules and Procedures for Processing Service Transactions Requests That Do Not Involve a Change in Electricity Provider

There are transaction types governed by this Code that do not necessarily involve a change in electricity service provider:

1. A move by a consumer to another location either inside or outside a distributor's licensed service territory,
2. A change in metering or billing service; and
3. A request for historical customer-specific information.

Rules and procedures governing these transactions are covered in the next three subsections.

10.6.1 Processing a Request for Disconnection or Relocation When a Retailer Provides Service

An STR involving a consumer relocation when electricity is currently supplied by a competitive retailer may be submitted either by the consumer or the retailer. Time permitting, if the consumer submits the transfer request, the distributor shall notify the retailer that the consumer is terminating service at one location and, if relevant, re-instituting service at another location. The retailer will inform the distributor whether the contract between the retailer and consumer shall be terminated or shall continue at the new location. A distributor shall not delay processing a consumer's request to relocate pending a reply from a retailer or if the consumer's request does not allow sufficient time to notify and receive a reply from a retailer. In this event, a distributor shall assume that service at the new location will be with the same retailer and under the same terms as were in effect at the previous location, unless informed differently by the consumer.

The only allowable final meter reading option associated with a disconnection or relocation is a

special meter read coinciding with the termination date. If a consumer is moving from one location to another within a distributor's service territory and the consumer is not on retailer-consolidated billing, the distributor shall bill the consumer according to the normal practices and schedule. If a consumer is moving out of a distributor's service territory, a distributor may issue a bill immediately upon completion of the final meter read even if all of the price information required to normally compute such a bill is not available. In this event, a distributor shall use the price forecast for the relevant billing period approved by the Board for use in SSS billing.

10.6.2 Processing a Change in Billing or Metering Service

If a retailer, or a consumer being served by a retailer, wish to change their billing or metering option a request for such a change shall be submitted by the retailer. If the request is submitted by the consumer, the distributor may, at its option, either notify the consumer to have their retailer submit the request or notify the retailer that a request has been received from their customer and inquire as to whether or not the request should be honoured. A request for a change in meter service must be submitted a minimum of ten business days prior to the desired date of the meter service change.

If a change in metering service involves a change in the settlement method (e.g., from NSLS-based settlement to settlement based on interval metering or vice versa), the distributor shall issue a final settlement bill based on a meter read at the time of the change in meter service. If a change in meter service does not involve a change in the settlement method (e.g., a change from standard kilowatt-hour metering to time-of-use or prepaid metering), the distributor is not required to issue a final settlement bill corresponding to the date of the new meter installation.

A request to change from one billing option to another shall coincide with an actual meter read unless otherwise agreed to between the distributor and retailer.

If a change in billing option results in a change in the maximum allowable amount of security required to be posted by a retailer or in the risk mitigation procedures (e.g., customer deposits) used by a distributor to manage consumer non-payment risk, the distributor may choose not to implement the billing option change until the new risk mitigation requirements have been addressed by the relevant party.

10.6.3 Processing a Request for Historical Consumer Information

Consumers have the right upon request to have historical usage information, information about their meter configuration and payment information sent to their service address or to any designated retailer or third party. The specific information that distributors must provide is described in section 11.3.

A request to release consumer information may be submitted either by a consumer or a retailer. A retailer's request must be based on written authorisation from the consumer. A retailer need not transmit a physical or electronic copy of the written authorisation from the consumer in order for a distributor to process the request unless specifically requested to do so by the distributor. A request to deliver information to a consumer's service or billing address may be submitted orally. A request to send information to any other location must be submitted according to the same rules that apply to a request to transfer electricity service provider, as described in section 10.2. A consumer's authorisation to release usage information will be construed to also authorise release of meter data as defined in section 11.3. Release of payment information must be based on separate authorisation.

All consumer-specific information must be provided to the designated party by a distributor in a common format to be developed in accordance with the EBT System.

Requests to transfer consumer-specific information via the EBT System shall be completed by the distributor within five business days of receiving the request. Prior to the implementation of the EBT System, a distributor shall complete such requests in an expeditious manner. The distributor shall complete all other information requests within ten business days of receiving the request.

Provision of consumer-specific information to retailers shall be done at no charge until the EBT System is operational. Provision of consumer-specific information to retailers and consumers through the EBT System shall be done at no charge. Once the EBT system is operational, requests to deliver data directly to retailers and consumers if not delivered electronically through the EBT System shall be honoured twice a year at no direct charge to a retailer or consumer. Additional requests shall also be honoured by a distributor but a distributor may, at its discretion, charge a reasonable fee for such additional requests. A request is considered to be data delivered

to a single address. Thus, a single request to send information to three locations is considered three requests.

11 ACCESS TO CONSUMER INFORMATION

This chapter describes the rights of consumers and retailers to access current and historical usage information and related data and the obligations of distributors in providing access to such information.

11.1 Provision of Current Usage Data to Retailers

Upon written authorisation by a consumer, a distributor shall make available the following information to a retailer that provides electricity to a consumer located within the distributor's service area:

- The distributor's meter number for the meter or meters located at the consumer's service address;
- The consumer's service address;
- The distributor's account number;
- The date of the most recent meter reading;
- The date of the previous meter reading;
- Multiplied kilowatt-hours recorded at the time of the most recent meter reading;
- Multiplied kilowatt-hours recorded at the time of the previous meter reading;
- Multiplied kW for the billing period (if demand metered);
- Multiplied kVa for the billing period (if available);
- Usage (kWhs/h) for each hour during the billing period for interval-metered consumers;
- An indicator of the read type (e.g., distributor read, consumer read, distributor estimate, etc.); and
- Average distribution loss factor for the billing period.

The schedule of meter reading and posting of data to the EBT System for interval and non-interval metered data is described in section 5.2. A distributor shall make data available through the EBT System. Raw data does not need to be posted by a distributor on the EBT System. A retailer may access raw data through a consumer's right to direct access to the meter as described in section 11.2.

For all kilowatt-hour meters and all non-remotely read interval meters, a distributor shall post usage data pertaining to a single billing period on the EBT System. Such data shall remain accessible to retailers until replaced by data for the next billing period. For remotely read interval meters, a distributor shall maintain usage data on the EBT System for a billing period or for 30 calendar days, whichever is longer.

11.2 Provision of Current Usage Data to Consumers

A consumer with a remotely read or non-remotely read interval meter shall have access to meter usage data under the same terms and conditions as for retailers, as described in section 11.1. A consumer with a manually read kilowatt-hour meter or any other type of non-interval meter shall have access to current usage information either through direct access to the meter, as described below, or in printed form on the bill provided by his or her billing agent (e.g., either the retailer, the distributor or both, depending upon the billing option in use).

A consumer has the right to interrogate his or her meter, or to assign this right to others, in accordance with any relevant technical specifications and codes. If a consumer desires regular access to his or her meter or meter information, a distributor shall provide access under the following conditions:

- The timing of consumer access to the meter is negotiable with the distributor. A distributor has priority when selecting access windows for the purpose of reading the meter.
- If a distributor's access to the meter is hindered or a consumer's access to the meter corrupts usage information, a distributor may suspend a consumer's right to access until any outstanding problems are resolved.

- A consumer shall pay the reasonable cost of any software, hardware or other services required for a consumer to obtain direct access to meter information. This may include installation of a secondary meter access system.
- A consumer shall bear any cost incurred by a distributor to correct problems caused by a consumer's direct access to the meter.
- If a consumer assigns his or her right to direct meter access to a retailer or third party, the consumer shall remain responsible for the action of the assigned party.

11.3 Providing Historical Information to Designated Parties

Upon written authorisation by a consumer, in accordance with the provisions in section 10.6.3, a distributor shall provide to the consumer or to one or more retailers, usage data, meter data and payment information as defined below. For non-interval-metered consumers, historical usage data are comprised of:

- Distributor's customer account number;
- Consumer's service address;
- Consumer's billing address;
- Identification of the current regulated rates that apply to the consumer (e.g., standard supply rate, distribution service rate, etc.);
- Multiplied kilowatt-hours used in each billing period;
- Multiplied kilowatt-hours used in each TOU consumption period for each billing period, if the consumer has a TOU meter;
- Multiplied kW for each billing period (if demand metered);
- Multiplied kVa for each billing period (if relevant);
- Date of actual or estimated meter read for each billing period;
- An indicator of the read type (e.g., distributor read, consumer read, distributor estimate);
- The next scheduled meter read date (or read-cycle date);
- The next scheduled bill date; and

- Distribution loss factor for the billing period.

For interval-metered consumers, usage data are comprised of the above items except that usage will be reported on an hourly basis for each billing period.

Meter data is comprised of the following:

- Distributor meter number;
- Meter manufacturer;
- Manufacturer's model number;
- Manufacturer's serial number;
- Meter owner (if other than distributor);
- Last seal date; and
- All meter multipliers necessary to calculate a bill, including, but not limited to, relevant PT and CT ratios.

A consumer's payment information is comprised of the following:

- An indication of whether or not the consumer is currently in arrears and, if so, for how long;
- Data on the number of cheques received from a consumer that had to be returned for insufficient funds over a specific period of time designated by the distributor; and
- Data on the number of times the consumer has been disconnected for non-payment over a specific period of time designated by the distributor.

For any of the above information that varies by billing period, a distributor shall provide data for 24 billing periods if the distributor's standard business practice is to keep this many billing periods easily accessible (e.g., "online"). If more than 24 billing periods are available, a distributor may release information for more periods at its discretion. If fewer than 24 billing periods are readily accessible, a distributor shall provide data for no less than one calendar year's worth of information, unless the consumer has been connected to the current distributor's system for less than one year.

12 RETAILER/DISTRIBUTOR RELATIONSHIP

A distributor shall enter into a Service Agreement with each retailer licensed by the Board who wishes to provide electricity services to consumers connected to the distributor's distribution system and who wishes to utilise retail settlement services offered by the distributor. The Service Agreement shall be in the form approved by the Board and set out in Appendix C.

During the period prior to approval by the Board of a Service Agreement, a distributor shall register the name of a licensed retailer that wishes to retail electricity within the distributor's service area. The distributor shall inform each retailer that it registers that the retailer is obligated to pay any approved rates for the processing of STRs. On a date to be determined by the Board, distributors shall have entered into a Service Agreement with all registered retailers, in accordance with the provisions of Chapter 12.

13 RETAIL MARKET READINESS

This Chapter sets out the obligations on distributors to certify that they have met particular retail market readiness requirements.

13.1 Self-Certification Statement #1

13.1.1

A distributor shall, on or before July 6, 2001, complete and test the systems listed below, so that these systems are sufficient, having regard to the volume and frequency of transactions which the distributor is likely to experience given its size, to allow it to be compliant with the relevant provisions of the Code once subsection 26(1) of the *Electricity Act* comes into force and shall certify that the systems listed below have been completed and tested in accordance with the requirements of this section by filing with the Board, on or before July 6, 2001, a completed Self-Certification Statement in a form approved by the Board ("Statement #1"):

- (a) billing systems;
- (b) enrollment systems;
- (c) metering systems; and
- (d) retail settlement systems.

13.1.2

For the purposes of section 13.1.1, a distributor is not required to have completed systems integration testing or have updated its billing systems with rates to be in effect when subsection 26(1) of the *Electricity Act* comes into force.

13.2 Self-Certification Statement #2

13.2.1

A distributor shall, on or before December 14, 2001, complete integration testing of all necessary systems and processes, so that the integrated system is sufficient, having regard to the volume and frequency of transactions which the distributor is likely to experience given its size, to allow it to be compliant with the relevant provisions of the Code once subsection 26(1) of the *Electricity Act, 1998* comes into force and shall certify that integrated testing has been completed in accordance with the requirements of this section by filing with the Board, on or before December 14, 2001, a completed Self-Certification Statement in a form approved by the Board ("Statement #2").

13.2.2

For the purposes of section 13.2.1, a distributor is not required to have updated its billing systems with rates to be in effect when subsection 26(1) of the *Electricity Act* comes into force.

13.3 Self-Certification Statements

13.3.1

The Self-Certification Statements shall be signed by the President, Chief Executive Officer or Chair of the Board of Directors of the distributor.

13.3.2

Where a distributor fails to file a completed Self-Certification Statement by the required date, the distributor is required to file with the Board by the same date as the distributor was required to file the relevant Self-Certification Statement, a letter signed by the President, Chief Executive Officer or Chair of the Board of Directors of the distributor setting out the reasons why the Self-Certification Statement has not been signed and detailing the extent to which necessary systems, in the case of Statement #1, or necessary systems and processes, in the case of Statement #2, have been completed and tested.

13.3.3

For the purposes of sections 13.1.1 and 13.2.1, a reference to the Code is to the Code as it exists on the date that the distributor files the respective Self-Certification Statement with the Board.

13.3.4

Where a distributor fails to file a completed Statement #2 by December 14, 2001, the distributor shall file the completed Statement #2 with the Board as soon as the distributor is able to attest to the statement in the Statement #2.

13.3.5

Where a distributor fails to file a completed Statement #2 by December 14, 2001, the distributor shall, until such time as it files a completed Statement #2 in accordance with section 13.3.4, file a statement with the Board by the 14th day of every month following December 2001 detailing the extent to which all necessary systems and processes have been completed and tested and estimating the additional time it will require to complete and test all necessary systems and processes so that the integrated system will be sufficient, having regard to the volume and frequency of transactions which the distributor is likely to experience given its size, to allow it to be compliant with the relevant provisions of the Code once subsection 26(1) of the *Electricity Act* comes into force.

13.3.6

Compliance with the requirements of section 13.3.2, 13.3.4 or 13.3.5 does not remedy a distributor's non-compliance with section 13.1.1 or 13.2.1.

Chapter 13 of the Retail Settlement Code is further amended by adding the following sections:

13.4 The Self-Certification Questionnaire

The Board shall issue a Self-Certification Questionnaire (the "Questionnaire") containing questions related to market opening. A distributor shall file in two stages a completed Questionnaire in accordance with the instructions provided by the Board. A distributor shall file the Questionnaire with answers to the Stage One questions on or before July 6, 2001. A distributor shall file the fully completed Questionnaire on or before December 14, 2001.

13.5 Exemptions

13.5.1

This Chapter does not apply to the following classes of distributors, where the relief applied for in the application referred to below has been granted or the application remains outstanding:

- (a) distributors which have applied under subsection 86(1) of the *Act* for Board approval of the sale, lease or other disposition of their distribution system to Hydro One Networks Inc.; and
- (b) distributors which are the subject of an application by Hydro One Networks Inc. under subsection 86(2) of the *Act*.

13.5.2

This Chapter does not apply to the distributors listed below:

1382154 Ontario Limited

1438188 Ontario Inc.
1438189 Ontario Inc.
1438190 Ontario Inc.
1438191 Ontario Inc.
1438192 Ontario Inc.
1438193 Ontario Inc.
Belleville Electric Corporation
Blue Mountain Hydro Service Company Inc.
Clearview Hydro Electric Commission
Hanover Electric Services Inc.
Kapusking Wires Inc.
Minto Hydro Inc

13.6 October Filings

13.6.1

In accordance with chapter 12, a distributor shall expeditiously process requests to enter into Service Agreements with licensed retailers that have requested a Service Agreement with the distributor. A distributor shall file a report with the Board, by no later than October 1, 2001, on the status of all requests by licensed retailers to enter into Service Agreements. For all requests where a Service Agreement has not been completed a distributor shall provide an explanation of the status of the request.

13.6.2

Where a distributor intends to be an IMO-administered market participant, it shall have completed the IMO's Uncoupled Operational Dry Run or the IMO's ability testing by no later than September 28, 2001. A distributor shall file written confirmation with the Board that it has completed the IMO's ability testing by no later than October 1, 2001.

13.6.3

A distributor shall complete all necessary systems and testing to have its EBT Standards compliant communication system operating by no later than October 26, 2001. A distributor shall file written confirmation with the Board that it has completed testing of these systems by no later than October 31, 2001.

13.6.4

Where a distributor fails to file in accordance with section 13.6.1, 13.6.2, or 13.6.3., the distributor remains obligated to file the required information with the Board.

13.6.5

Compliance with the requirements of section 13.6.4 does not remedy a distributor's non-compliance with sections 13.6.1, 13.6.2 or 13.6.3.

13.7.1

A distributor shall maintain its integrated billing, enrollment, metering and retail settlement system referred to in section 13.2.1 in such condition that it would, if subsection 26(1) of the *Electricity Act* was in effect, allow it to be compliant with the relevant provisions of the Code.

13.7.2

Section 13.7.1 comes into force on December 14, 2001.

Appendix A

Competitive Electricity Costs

Section 3.1 of the Retail Settlement Code indicates that the Board shall establish the sub-set of the IMO-billed services that are deemed to be Competitive Electricity Services for the purposes of calculating settlement costs in accordance with Chapter 3 of the Code.

The hourly price to be used in the determination of any of the calculations shall be the Hourly Ontario Energy Settlement Price published by the IMO for the settlement hour. This price shall be used for the purpose of calculating equations 3.3.1(a) and 3.3.2(a) and for the purpose of calculating settlements with retail embedded generators.