

CONSULTATION DRAFT
Distribution System Code

April 28, 2000

Table of Contents

1.	GENERAL AND ADMINISTRATIVE PROVISIONS	-1-
1.1	The Purpose of this Code	-1-
1.2	Definitions	-1-
1.3	Interpretations	-9-
1.4	To Whom this Code Applies	-9-
1.5	Hierarchy of Codes	-9-
1.6	Amendments to this Code	-9-
1.7	Coming into Force	-9-
1.8	Requirements for Board Approvals	-10-
2.	STANDARDS OF BUSINESS PRACTICE AND CONDUCT	-10-
2.1	Conditions of Service	-10-
2.2	Connection	-12-
2.3	Expansions, Enhancements and Relocation of Plant	-14-
	Expansions	-14-
	Alternative Bids	-17-
	Enhancements	-18-
	Relocation of Plant	-19-
2.4	Disconnection and Reconnection	-19-
2.5	Unauthorized Energy Use	-21-
2.6	Quality of Supply	-21-
2.7	System Maintenance	-22-
2.8	Unplanned Outages and Emergency Conditions	-24-
2.9	Health and Safety	-25-
2.10	Metering	-26-
	Provision of Meters and Metering Services	-26-
	Metering Requirements for Generating Facilities	-27-
	VEE Process	-28-
2.11	Responsibilities to Load Customers	-30-
2.12	Responsibilities to Generators	-31-
2.13	Responsibilities to Other Distributors	-34-
	Sharing Arrangements Between Distributors	-35-
	Load Transfers	-36-

2.14 Provision of Information -38-

APPENDICES

APPENDIX A - Conditions of Service

APPENDIX B - Methodology and Assumptions for an Offer to Connect

APPENDIX C - Minimum Inspection Requirements

APPENDIX D - Information in a Connection Agreement with a Customer

APPENDIX E - Information in a Connection Agreement with a Generator

APPENDIX F - Process for Connecting an Embedded Generator

APPENDIX G - Process for Connecting Another Distributor

CONSULTATION DRAFT

Distribution System Code

1. GENERAL AND ADMINISTRATIVE PROVISIONS

1.1 The Purpose of this Code

This Code sets the minimum conditions that a distributor must meet in carrying out its obligations to distribute electricity under the *Energy Competition Act, 1998*. Unless otherwise stated in the licence or Code, these conditions apply to all transactions and interactions between a distributor and all retailers, generators, distributors, transmitters and consumers of electricity who use the distributor's distribution system.

1.2 Definitions

In this Code:

“Accounting Procedures Handbook” means the handbook approved by the Board and in effect at the relevant time, which specifies the accounting records, accounting principles and accounting separation standards to be followed by the distributor; **(TDL)**

“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 between electricity distributors or transmitters and their respective affiliated companies; **(TDL)**

“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; **(MR, TDL)**

“bandwidth” means a distributor's defined tolerance used to flag data for further scrutiny at the stage in the VEE process where a current reading is compared to a reading from an equivalent historical billing period. For example, a 30 percent bandwidth means a current reading that is either 30 percent lower or 30 percent higher than the measurement from an equivalent historical billing period will be identified by the VEE process as requiring further scrutiny and verification; **(DSC)**

“Board” means the Ontario Energy Board; **(A, TDL)**

“building” means a building, portion of a building, structure or facility; **(DSC)**

CONSULTATION DRAFT

Distribution System Code

“complex metering installation” means a metering installation where instrument transformers, test blocks, recorders, pulse duplicators and multiple meters may be employed; **(DSC)**

“Conditions of Service” means the document developed by a distributor in accordance with subsection 2.1 that describes the operating practices and connection rules for the distributor; **(DSC)**

“connection” means the installation and activation of connection assets; **(DSC)**

“Connection Agreement” means an agreement entered into between a distributor and a person connected to its distribution system that delineates the conditions of the connection and delivery of electricity to that connection; **(DSC)**

“connection assets” means the assets installed by a distributor to connect a customer that lies along the distributor’s distribution system, and consists of the assets between the point of connection on a distributor’s distribution system and the ownership demarcation point; **(DSC)**

“consumer” means a person who uses, for the person’s own consumption, electricity that the person did not generate; **(A, MR, TDL)**

“customer” means a person that has contracted for or intends to contract for connection of a building or facility; **(DSC)**

“demand meter” means a meter that measures a consumer’s peak usage during a specified period of time; **(DSC)**

“disconnection” means a deactivation of connection assets that results in cessation of distribution services to a consumer; **(DSC)**

“distribute”, with respect to electricity, means to convey electricity at voltages of 50 kilovolts or less; **(A, MR, TDL)**

“distribution losses” means energy losses that result from the interaction of intrinsic characteristics of the distribution network such as electrical resistance with network voltages and current flows;

CONSULTATION DRAFT

Distribution System Code

“distribution loss factor” means a factor or factors 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; **(RSC)**

“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*. **(RSC)**

“distribution system” means a system for distributing electricity, and includes any structures, equipment or other things used for that purpose; **(A, MR, TDL)**

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

“distributor” means a person who owns or operates a distribution system; **(A, MR, TDL)**

“*Electricity Act*” means the *Electricity Act, 1998*, S.O. 1998, c.15, Schedule A; **(MR, TDL)**

“*Energy Competition Act*” means the *Energy Competition Act, 1998*, S.O. 1998, c. 15; **(MR)**

“Electrical Safety Authority” or “ESA” means the person or body designated under the *Electricity Act* regulations as the Electrical Safety Authority; **(A)**

“embedded distributor” means a distributor who is not a wholesale market participant and that is provided electricity by a host distributor; **(RSC)**

“embedded generator” or “embedded generation facility” means a generator whose generation facility is not directly connected to the IMO-controlled grid but instead is connected to a distribution system;

“embedded retail generator” means an embedded generator that settles through a distributor’s retail settlements system and is not a wholesale market participant;

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

CONSULTATION DRAFT

Distribution System Code

“embedded wholesale generator” means an embedded generator that is a wholesale market participant;

“emergency” means any abnormal system condition that requires remedial action to prevent or limit loss of a distribution system or supply of electricity that could adversely affect the reliability of the electricity system; **(based on MR)**

“emergency backup” means a generation facility that has a transfer switch that isolates it from a distribution system;

“enhancement” means a modification or upgrade to an existing distribution system component that is made for purposes of improving system operating characteristics or for relieving system capacity constraints; **(DSC)**

“expansion” means an addition to a distribution system to increase the capacity or the length of the distribution system or to allow additional customer connections that otherwise could not be made; **(DSC)**

“four-quadrant interval meter” means an interval meter that records power injected into a distribution system and the amount of electricity consumed by the customer; **(DSC)**

“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; **(A, TDL)**

“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; **(A, MR, TDL)**

“generator” means a person who owns or operates a generation facility; **(A, MR, TDL)**

“geographic distributor,” with respect to a load transfer, means the distributor that is licensed to service a load transfer customer and is responsible for connecting and billing the load transfer customer; **(DSC)**

“good utility practice” means any of the practices, methods and acts engaged in or approved by a significant portion of the electric utility industry in North America during the relevant time period, or any of the practices, methods and acts which, in the exercise of reasonable judgement in light of the facts known at the time the decision was made,

CONSULTATION DRAFT

Distribution System Code

could have been expected to accomplish the desired result at a reasonable cost consistent with good practices, reliability, safety and expedition. Good utility practice is not intended to be limited to the optimum practice, method, or act to the exclusion of all others, but rather to be acceptable practices, methods, or acts generally accepted in North America; **(MR)**

“holiday” means a Saturday, Sunday, Statutory holiday, or any day that the Board’s offices are closed; **(TDL)**

“host distributor” means the distributor who provides electricity to an embedded distributor; **(RSC)**

“IMO” means the Independent Electricity Market Operator established under the Electricity Act; **(A, TDL)**

“IMO-Controlled Grid” means the transmission systems with respect to which, pursuant to agreements, the IMO has authority to direct operation; **(A, TDL)**

“interval meter” means a meter that measures and records electricity use on an hourly or sub-hourly basis; **(RSC)**

“load transfer” means a network supply point of one distributor that is supplied through the distribution network of another distributor and where this supply is not considered a wholesale supply point; **(DSC - NOTE: This is different than the RSC)**

“load transfer customer” means a customer that is provided distribution services through a load transfer; **(DSC)**

“Market Rules” means the rules made under section 32 of the *Electricity Act*; **(MR, TDL)**

“Measurement Canada” means the Special Operating Agency established in August 1996 by the *Electricity and Gas Inspection Act*, 1980-81-82-83, c. 87., and Electricity and Gas Inspection Regulations (SOR/86-131). The purpose of the Agency is to ensure the integrity and accuracy of measurement in Canada and has jurisdiction over the accuracy of electricity meters; **(DSC)**

“meter service provider” means any entity that performs metering services on behalf of a distributor; **(DSC)**

CONSULTATION DRAFT

Distribution System Code

“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; **(RSC)**

“metering services” means installation, testing, reading and maintenance of meters; **(DSC)**

“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;” **(RSC)**

“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;” **(RSC)**

“non-competitive electricity costs” include charges from the IMO for services deemed by the Board to be non-competitive services plus charges for distribution services; **(RSC)**

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

“operational demarcation point” means the physical location at which a distributor’s responsibility for operational control of distribution equipment ends at the customer;

“ownership demarcation point” means the physical location at which a distributor’s ownership of distribution equipment ends at the customer;

“performance standards” means the performance targets for the distribution and connection activities of the distributor as established by the Board pursuant to section 82 of the Act; **(TDL)**

“physical distributor,” with respect to a load transfer, means the distributor that provides physical delivery of electricity to a load transfer customer, but is not responsible for connecting and billing the load transfer customer directly; **(DSC)**

“point of supply,” with respect to an embedded generator, means the connection point where electricity produced by the generator is injected into a distribution system wire; **(DSC)**

CONSULTATION DRAFT

Distribution System Code

“rate” means any rate, charge or other consideration, and includes a penalty for late payment; **(TDL)**

“Rate Handbook” means the document approved by the Board that outlines the regulatory mechanisms that will be applied in the setting of distributor rates; **(RSC)**

“Regulations” means the regulations made under the *Electricity Act* or the *Ontario Energy Board Act*; **(TDL)**

“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. **(A, MR, TDL)**

“Retail Settlement Code” means the 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 customers and provides for tracking and facilitating customer transfers among competitive retailers; **(TDL)**

“retailer” means a person who retails electricity; **(A, MR, TDL)**

“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 of the Retail Settlement Code; **(RSC)**

“service area,” with respect to a distributor, means the area in which the distributor is authorized by its license to distribute electricity; **(A, TDL)**

“Standard Supply Service Code” means the code 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*; **(TDL)**

“total losses” means the sum of distribution 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; **(A, MR, TDL)**

CONSULTATION DRAFT

Distribution System Code

“Transmission System Code” means the code, approved by the Board, that is in force at the relevant time, which regulates the financial and information obligations of the Transmitter with respect to its relationship with customers, as well as establishing the standards for connection of customers to, and expansion of a transmission system; **(TTL)**

“transmit”, with respect to electricity, means to convey electricity at voltages of more than 50 kilovolts; **(A, TDL)**

“transmitter” means a person who owns or operates a transmission system; **(A, MR, TDL)**

“unaccounted for energy” means all energy losses that can not be attributed to distribution losses. These include measurement error, errors in estimates of distribution 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;

“upgrade” means replacement of an existing component of a distribution system with a new component for purposes of improving the distribution system’s operating characteristics; **(DSC)**

“validating, estimating and editing (VEE)” means the process used to validate, estimate and edit raw metering data to produce final metering data or to replicate missing metering data for settlement purposes; **(MR)**

“wholesale buyer” means a person that purchases electricity or ancillary services in the IMO-administered markets or directly from a generator; **(TDL)**

“wholesale market participant”, means a person that sells or purchases electricity or ancillary services through the IMO- administered markets; **(RSC)**

“wholesale settlement cost” means costs for both competitive and non-competitive services billed to a distributor by the IMO or a host distributor, or provided by an embedded retail generator or by a neighboring distributor; **(RSC)**

“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; **(TDL)**

CONSULTATION DRAFT

Distribution System Code

Sources for definitions:

A	<i>Electricity Act, 1998</i> , Schedule A, Section 2, Definitions.
MR	Market Rules for the Ontario Electricity Market, Chapter 11, Definitions.
TDL	Transitional Distribution License, Part I, Definitions.
TTL	Transitional Transmission License, Part I, Definitions.
DSC	Distribution System Code Task Force.
RSC	Retail Settlement Code.

1.3 Interpretations

Unless otherwise defined in this Code, words and phrases shall have the meaning ascribed to them in the *Ontario Energy Board Act, 1998* or the *Electricity Act, 1998* 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 Ontario Energy Board under Part V of the *Ontario Energy Board Act, 1998*. These entities may be obligated to comply with the Code as a condition of their licence.

1.5 Hierarchy of Codes

The order of hierarchy for the Distribution System Code in relation to other codes, subject to any specific conditions of a licence that apply to the distributor, are 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

CONSULTATION DRAFT

Distribution System Code

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

1.7 Coming into Force

This Code comes 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. STANDARDS OF BUSINESS PRACTICE AND CONDUCT

2.1 Conditions of Service

2.1.1 A distributor shall establish and document its Conditions of Service that describes the operating practices and connection rules of the distributor.

2.1.2 A distributor shall make its Conditions of Service publicly available and provide a copy to any person requesting it. A distributor also shall file a copy of its Conditions of Service with the Ontario Energy Board.

2.1.3 A distributor shall provide advance public notice of any changes to its Conditions of Service. The public notice shall include a proposed timeline for implementation of the new Conditions of Service and a means by which public comment may be provided. A distributor shall provide the Board with a copy of the new document. The copy of the new document shall include a cover letter that outlines the changes from the prior document, as well as a summary of any public comments on the changes.

CONSULTATION DRAFT

Distribution System Code

- 2.1.4 A distributor shall provide the Board with a copy of the distributor's Conditions of Service in conjunction with the distributor's annual rates filing.
- 2.1.5 A distributor's Conditions of Service may be subject to review as part of the distributor's performance based rates plan.
- 2.1.6 A distributor's Conditions of Service shall include, at a minimum, a description of the following:
- C The types of connection performed by the distributor for each customer class.
 - C The distributor's standard connection that is covered by a standard allowance and does not require a Variable Connection Charge.
 - C The distributor's capital contribution policy by customer class for an offer to connect.
 - C The demarcation point at which the distributor's operational responsibilities for distribution equipment end at the customer.
 - C The demarcation point at which the distributor's ownership of distribution equipment ends at the customer.
 - C The billing cycle period and payment requirements by customer class.
 - C Design requirements of the distribution system.
 - C Voltages at which the distributor provides electricity, and corresponding load thresholds.
 - C Type of meters provided by the distributor.
 - C Meters required by customer class.
 - C Conditions under which supply may be unreliable or intermittent.
 - C Conditions under which supply may be interrupted.
 - C Conditions under which the distributor may disconnect a consumer.
 - C Policies for planned interruptions.
 - C The business process the distributor uses to disconnect and reconnect consumers, including means of notification and timing.

CONSULTATION DRAFT

Distribution System Code

- C Rights and obligations the distributor has with respect to a consumer or embedded generator.
- C Rights and obligations a consumer or embedded generator has with respect to the distributor.
- C The distributor's liability limitations.
- C The distributor's dispute resolution procedure.
- C Terms and conditions under which the distributor provides other services.

2.1.7 If a distributor's Conditions of Service are documented in a form or in an order different than that specified in the generic Conditions of Service attached to this Code as Appendix A, the distributor shall provide a mapping of terms in its Conditions of Service to the sections and subsections in Appendix A. The feasibility of a consistent order may be reviewed by the Board, at its discretion.

2.1.8 In providing distribution services in accordance with its Conditions of Service, a distributor shall not discriminate between a consumer that is supplied electricity by the distributor or by a retailer.

2.1.9 In performing distribution services required under this Code or the distributor's Conditions of Service, the distributor shall ensure that all charges, where applicable, are in compliance with a distributor's Rate Order.

2.2 Connection

2.2.1 For the purpose of a distributor's obligation to connect under section 28 of the *Electricity Act*, a building or facility "lies along" a distribution line if it can be connected to the distributor's distribution system without an expansion or enhancement, and meets the conditions listed in the Conditions of Service of the distributor who owns or operates the distribution line.

CONSULTATION DRAFT

Distribution System Code

- 2.2.2 A distributor shall describe what is required for a standard connection by customer class in its Conditions of Service.
- 2.2.3 A distributor is obligated to connect a building or facility unless continuance of the connection would result in any of the following:
- C Contravention of existing laws in Canada and the Province of Ontario.
 - C Violation of conditions in a distributor's licence.
 - C Use of a distribution system line for a purpose that it currently does not serve or that the distributor does not intend it to serve.
 - C Adverse effect on the reliability or safety of the distribution system.
 - C Imposition of an unsafe worker situation beyond normal risks inherent in the operation of the distribution system.
 - C A material decrease in the efficiency of the distributor's distribution system.
 - C A materially adverse effect on the quality of distribution services received by an existing connection.
 - C Discriminatory access to distribution services.
 - C If the person requesting the connection owes the distributor money for distribution services.
 - C Violation of any other conditions identified in the distributor's Conditions of Service document.
- 2.2.4 A distributor shall ensure that all electrical connections to its system meet the distributor's design requirements, unless the electrical connections are separated by a protection device that has been approved by the distributor. If an electrical connection does not meet the distributor's design requirements, a distributor may refuse connection.
- 2.2.5 If a distributor refuses to connect a building or facility, the distributor shall inform the person requesting the connection of the reason(s) for not connecting and,

CONSULTATION DRAFT

Distribution System Code

where the distributor is able to provide a remedy, make an offer to connect. If the distributor is unable to provide a remedy to resolve the issue, it is the responsibility of the customer to do so before a connection may be made.

- 2.2.6 A distributor shall recover costs associated with the installation of connection assets via a Basic Connection Charge and a Variable Connection Charge, as applicable.
- 2.2.7 For residential customers, a distributor shall define a Basic Connection Charge and recover this Basic Connection Charge through a standard allowance that has the following characteristics:
- C A standard allowance for a basic connection shall include average costs associated with a standard connection defined by the distributor in its Conditions of Service consistent with the defined point of demarcation for ownership.
 - C The standard allowance shall include, at a minimum, 1) average costs for supply and installation of an overhead transformer or an equivalent credit for transformation equipment; and 2) up to 30 meters of overhead conductor or an equivalent credit for underground services.
 - C The standard allowance shall be recovered through the distributor's tariffs or rates.
- 2.2.8 For non-residential customers, a distributor may define a Basic Connection Charge by rate class and recover this charge either through the distributor's tariffs or rates, or through a Basic Connection Fee charged to the customer requesting the connection.
- 2.2.9 A Variable Connection Charge shall be calculated as the costs associated with the installation of assets above and beyond the standard allowance for basic

CONSULTATION DRAFT

Distribution System Code

connection. A distributor may recover a Variable Connection Charge from a customer through a connection charge or equivalent payment.

2.3 Expansions, Enhancements and Relocation of Plant

Expansions

- 2.3.1 A distributor shall continue to plan and build the distribution system for reasonable future load growth. If a distributor must construct new distribution system facilities or rebuild existing distribution system facilities in order to be able to connect a customer, the distributor shall perform an economic evaluation of the expansion project to determine if the future revenue from the customer will pay for the capital cost and on-going maintenance costs of the expansion project.
- 2.3.2 If a distributor can make a connection only in conjunction with an expansion of the distributor's distribution system, the distributor is required to make an offer to connect. A distributor's offer to connect shall include the following:
- C A description of the equipment and labor required by the distributor to build the expansion to connect the building or facility.
 - C An estimate of the amount that will be charged to the customer in order to construct the distribution system expansion necessary to make the connection.
 - C A description and estimate of the connection charges that would be made in accordance with subsection 2.2.
 - C Whether the offer is a firm offer or is an estimate of the costs that would be revised in the final payment to reflect actual costs incurred.
 - C Whether the offer includes work for which the customer may obtain an alternative bid and, if so, the process by which the customer may obtain the alternative bid.

CONSULTATION DRAFT

Distribution System Code

- C Reference to the Conditions of Service and information on how the person requesting the connection may obtain a copy.
- 2.3.3 A distributor shall be responsible for the preliminary planning, design and engineering specifications of the work required for the distribution system expansion and connection. Specifications shall be made in accordance with the distributor's standards for design, material and construction.
- 2.3.4 In providing the estimate of the amount to be charged to the customer in order to construct the distribution system expansion referenced in clause 2.3.1, a distributor shall delineate estimated costs specifying those costs attributable to engineering design, materials, labour, equipment, and administrative activities.
- 2.3.5 The amount a distributor may offer to charge a customer other than a generator or distributor to construct the expansion necessary to connect the customer to the distributor's distribution system shall not exceed that customer's share of the difference between the present value of the projected capital costs and on-going maintenance costs for the equipment and the present value of the projected revenue for distribution services provided by those facilities. The methodology and inputs that a distributor shall use to calculate this amount are presented in Appendix B.
- 2.3.6 If a shortfall between the present value of the projected costs and revenues is calculated, the distributor may propose to collect all or a portion of that amount from the customer requesting an offer to connect, in accordance with the distributor's documented policy on capital contributions. A distributor shall document a consistent set of practices for collection of a projected or actual shortfall, by customer class in its Conditions of Service.

CONSULTATION DRAFT

Distribution System Code

- 2.3.7 If a distributor's offer to connect is a firm offer, the distributor shall provide one estimate to the customer for any plans submitted to the distributor for an expansion project, at no expense to the customer. If the customer submits revised plans, the distributor may provide a new firm offer for revised plans at the customer's expense.
- 2.3.8 If a distributor's offer to connect is an estimate of the costs to construct the expansion and not a firm offer, the final amount charged to the customer shall be based on actual costs incurred, the methodology described in Appendix B and the capital contribution policy of the distributor. The distributor shall calculate the one estimate and the final payment at no expense to the customer.

Alternative Bids

- 2.3.9 A distributor shall inform the customer that the customer has the choice to obtain alternative bids from qualified contractors if the offer to connect meets all of the following conditions:
- C The project requires a capital contribution from the customer; and
 - C Construction work would not involve work with existing circuits; and
 - C Work done by a contractor would not contravene any collective agreements in effect with the distributor and unionized employees of the distributor.
- 2.3.10 If a customer is interested in obtaining an alternative bid, the distributor shall:
- C Inform the customer of the unbundled tasks that the customer may obtain through an alternative bid.
 - C Inform the customer that the customer may choose among the contractors that have been pre-qualified by the distributor to perform the work eligible for an alternative bid. Contractors shall be pre-qualified by the distributor under rules, processes and criteria set and documented by the distributor.

CONSULTATION DRAFT

Distribution System Code

- 2.3.11 If a customer chooses to pursue an alternative bid and elects to go with an alternative contractor for an aspect of the expansion project, the distributor shall:
- C Require the customer who chooses to hire an alternative contractor to select, hire and pay the contractor's costs for the work eligible for an alternative bid.
 - C Require the customer to be responsible for administering the contract or to pay the distributor to do this activity on a "fee for service" basis. Administering the contract includes acquisition of all required permissions, permits, and easements.
 - C Reserve the right to inspect and approve all aspects of the constructed facilities as part of a system commissioning activity, prior to connecting the constructed facilities to the existing distribution system, and be reimbursed on a "fee for service" basis.
 - C Reimburse the customer an appropriate amount for costs incurred by the customer in accordance with clause 2.3.14.
- 2.3.12 If a customer chooses to pursue an alternative bid and elects to go with an alternative contractor for an aspect of the expansion project, the customer shall assume responsibility for construction of that aspect of the expansion project.
- 2.3.13 A customer that chooses to pursue an alternative bid shall pay to the distributor any costs incurred by the distributor associated with the expansion project, including but not limited to the following:
- C Costs for additional design, engineering, or installation of facilities required to complete the project that were made in addition to the original offer to connect.
 - C Costs for inspection or approval of the work performed by the contractor hired by the customer.
 - C Costs for administering the contract.

CONSULTATION DRAFT

Distribution System Code

2.3.14 A customer that chooses to pursue an alternative bid may reduce the amount owed by the customer to a distributor under the offer to connect by the amount that the installed project-specific costs of the contractor are less than the distributor's estimate for the same work, up to the original estimated amount owed by the customer to the distributor.

Enhancements

2.3.15 A distributor may perform enhancements to the distributor's distribution system for purposes of improving system operating characteristics or for relieving system capacity constraints. In determining system enhancements to be performed on a distributor's distribution system, a distributor shall consider the following:

- C Good utility practice.
- C Improvement of the system to either obtain or maintain required performance-based indices.
- C Current levels of customer service and reliability and potential improvement from the enhancement.
- C Costs to customers associated with distribution reliability and potential improvement from the enhancement.

Relocation of Plant

2.3.16 When requested to relocate distribution plant, a distributor shall exercise its rights and discharge its obligations in accordance with existing legislation such as the *Public Service Works on Highways Act*, regulations, formal agreements, easements and law. In the absence of existing arrangements, a distributor is not obligated to relocate the plant. However, the distributor shall resolve the issue in a fair and reasonable manner. Resolution in a fair and reasonable manner shall include a response to the requesting party that explains the feasibility or infeasibility of the

CONSULTATION DRAFT

Distribution System Code

relocation and a fair and reasonable charge for relocation based on cost recovery principles.

2.4 Disconnection and Reconnection

2.4.1 In addition to its rights under sections 30 and 31 of the *Electricity Act*, a distributor may disconnect a consumer if continuance of the connection results in the following:

- C Adverse effect on the reliability and safety of the distribution system.
- C Imposition of an unsafe worker situation beyond normal risks inherent in the operation of the distribution system.
- C A material decrease in the efficiency of the distributor's distribution system.
- C A materially adverse effect on the quality of distribution services received by an existing connection.
- C Inability of the distributor to perform planned inspections and maintenance.
- C Failure of the consumer or customer to comply with a directive of a distributor that the distributor makes for purposes of meeting its licence obligations.
- C Any other conditions identified in the distributor's Conditions of Service document.

2.4.2 A distributor shall establish a process for disconnection and reconnection that delineates timing and means of notification consistent with the *Electricity Act, 1998*. In developing physical and business processes for reconnection, a distributor shall consider safety and reliability as a primary requirement. A distributor shall document its business process for disconnection in the distributor's Conditions of Service.

CONSULTATION DRAFT

Distribution System Code

- 2.4.3 A distributor shall inform a customer responsible for an overdue amount of an impending disconnection in accordance with section 31(2) of the *Electricity Act, 1998*.
- 2.4.4 It is recommended that, whenever possible, distributors provide no less than seven calendar days notice before disconnection for non-payment.
- 2.4.5 A distributor may disconnect without notice in accordance with a court order or for emergency, safety or system reliability reasons.
- 2.4.6 The physical process by which a distributor disconnects or reconnects a consumer shall reflect good utility practice and consider safety as a primary requirement.

2.5 Unauthorized Energy Use

- 2.5.1 A distributor shall use its discretion in taking action to mitigate unauthorized energy use. At a minimum, upon identification of possible unauthorized energy use, a distributor shall notify, as appropriate, Measurement Canada, the Electrical Safety Authority, police officials, retailers that service consumers affected by the unauthorized energy use, or other entities.
- 2.5.2 A distributor shall monitor losses and unaccounted for energy calculations on an annual basis to detect any upward trends in overall system losses that may indicate unauthorized energy use and the need for management policies to moderate unauthorized energy use.
- 2.5.3 A distributor may recover from the parties responsible for the unauthorized energy use all costs incurred by the distributor arising from unauthorized energy use, including inspection and repair costs.

CONSULTATION DRAFT

Distribution System Code

2.6 Quality of Supply

- 2.6.1 A distributor shall follow good utility practice in managing the power quality of the distributor's distribution system and define in the Conditions of Service the quality of service standards to which the distribution system is designed and operated.
- 2.6.2 A distributor shall maintain a voltage variance standard in accordance with the standards of the Canadian Standards Association CAN3-235. A distributor shall practice reasonable diligence in maintaining voltage levels, but is not responsible for variations in voltage from external forces.
- 2.6.3 A distributor shall respond to and investigate all consumer power quality complaints and report to the consumer on the results of the investigation.
- 2.6.4 If the source of a power quality problem is caused by the consumer making the complaint, the distributor may seek reimbursement for the time and cost spent to investigate the complaint.
- 2.6.5 A distributor shall take appropriate actions to control harmonics found to be detrimental to consumers connected to the distribution system. If the distributor is unable to correct a problem without adversely impacting other distribution system consumers, a distributor may choose not to make the corrections. In deciding which actions to take, a distributor should use appropriate industry standards and good utility practice as guidelines.
- 2.6.6 A distributor shall require a consumer or customer that owns equipment connected to the distribution system to ensure that the operation or failure of that equipment does not cause a distribution system outage or disturbance.

CONSULTATION DRAFT

Distribution System Code

- 2.6.7 A distributor may require that any consumer condition that adversely affects the distribution system be corrected immediately by the consumer at the consumer's cost.
- 2.6.8 A distributor may direct a consumer connected to its distribution system to take corrective or preventative action on the consumer's electric system when there is a direct hazard to the public or the consumer is causing or could cause adverse effects to the reliability of the distributor's distribution system. If the situation is not corrected, the distributor may disconnect the consumer in accordance with this Code.

2.7 System Maintenance

- 2.7.1 A distributor shall maintain its distribution system to ensure reliability and quality of electricity service, on both a short-term and long-term basis.
- 2.7.2 A distributor shall perform inspection activities of its distribution system in accordance with the requirements in the schedule attached to this Code as Appendix C.
- 2.7.3 A distributor shall perform more frequent inspections if warranted due to local conditions such as geographic location, climate, environmental conditions, technologies available to perform the inspection, type and vintage of distribution technology in place, manufacturer specifications, system design or relative importance to overall system reliability of a particular piece of equipment or portion of the distributor's distribution system.
- 2.7.4 A distributor shall perform inspection activities using persons qualified to identify the types of defects that could be discovered during such inspection activities. Persons performing inspection activities shall be trained to protect both themselves

CONSULTATION DRAFT

Distribution System Code

and the public, and to respond to emergencies that may arise as a result of inspection activities.

- 2.7.5 A distributor shall address any defects discovered during the inspection activities within a reasonable period of time after the discovery of the defect. A distributor may address a defect by scheduling a more detailed inspection, by planning repair activities or by performing any other action that could be considered an affirmative response to the discovery of the defect. A distributor shall have an internal review procedure to ensure that the identified defects and follow-up activities have been addressed appropriately.
- 2.7.6 A distributor shall determine the methodology by which inspection cycles are structured and the manner in which defects identified during inspection activities are to be repaired in accordance with good utility practice.
- 2.7.7 A distributor shall notify consumers regarding the expected duration and frequency of planned outages and provide as much advance notice as possible. A distributor shall make all reasonable efforts to minimize the duration and frequency of planned outages. The distributor's policies and procedures with respect to planned outages shall be described in the Conditions of Service.

2.8 Unplanned Outages and Emergency Conditions

- 2.8.1 A distributor may require a consumer or customer to comply with reasonable and appropriate instructions from the distributor during an unplanned outage or emergency situation.
- 2.8.2 To assist with distribution system outages or emergency response, a distributor may require a customer to make provisions for distributor emergency access to

CONSULTATION DRAFT

Distribution System Code

customer-owned distribution equipment that normally is operated by the distributor or distributor-owned equipment on customer property.

- 2.8.3 During an emergency, a distributor may interrupt supply to a consumer in response to a shortage of supply or to effect repairs on the distribution system or while repairs are being made to consumer-owned equipment.
- 2.8.4 A distributor may require consumers with permanently connected emergency generation equipment to notify their distributor regarding the presence of such equipment.
- 2.8.5 A distributor shall require that a consumer's portable or permanently connected emergency generation capability complies with all applicable criteria of the Ontario Electrical Safety Code and does not adversely affect the distributor's distribution system.
- 2.8.6 A distributor shall develop and maintain appropriate emergency plans in accordance with the requirements of the Minister of Energy, Science and Technology and in the Market Rules, regardless of whether the distributor is a wholesale market participant. A distributor's emergency plan shall include, at a minimum, mutual assistance plans with neighbouring distributors or other measures to respond to a wide-spread emergency.
- 2.8.7 A distributor shall establish outage management policies that include the following:
- C Arrangements for on-call personnel in accordance with good utility practice.
 - C Establishment and operation of a call centre or equivalent telephone service to provide customers available information regarding an outage.
 - C Identification of the location of distribution circuits for emergency services and critical customers such as hospitals, water supply, health care facilities, and designated emergency shelters for coordination with other agencies.

CONSULTATION DRAFT

Distribution System Code

2.9 Health and Safety

2.9.1A distributor shall follow good utility practices in operating and maintaining the distribution system and shall abide by safety rules and regulations that apply to routine utility work, including but not limited to the *Occupational Health & Safety Act* and any associated regulations.

2.9.2A distributor shall be a member of an industry-specific, recognized health and safety organization in Ontario.

2.9.3A distributor shall implement an industry recognized health and safety program that includes training and regularly conducted audits. This program also will include Public Education and Public Safety initiatives.

2.9.4Any problems that a distributor identifies as part of the audit shall be remedied as soon as possible or in accordance with the safety organization's guidelines.

2.9.5A distributor shall have a corporate policy that addresses environmental stewardship that applies to all of the distributor's operations. A documented program supporting procedures and appropriate training should be in place to ensure compliance with environmental regulations and indicate a proactive approach to environmental damage avoidance.

2.10 Metering

Provision of Meters and Metering Services

CONSULTATION DRAFT

Distribution System Code

- 2.10.1 A distributor shall provide, install and maintain a meter installation for retail settlements and billing for all customers connected to the distributor's distribution system, subject to 2.10.9.
- 2.10.2 A distributor may install a demand meter or interval meter for purposes of measuring demand to assign the customer to a rate class or to set the appropriate distribution services rate for that customer.
- 2.10.3 At a minimum, a distributor shall install a MIST meter for any existing customer that has an average monthly peak demand during a calendar year of over 1 MW, for purposes of measuring energy delivered to the customer. A distributor shall install a MIST meter on any new installation that is forecast by the distributor to have a monthly average peak demand during a calendar year of over 500 kW, for the purposes of measuring energy delivered to the customer.
- 2.10.4 A distributor may set a threshold level for installation of MIST meters other than that required by clause 2.10.3 so long as the threshold is delineated by customer class in the distributor's Conditions of Service and sets a threshold lower than that required by clause 2.10.3.
- 2.10.5 A distributor shall provide an interval meter within a reasonable period of time to any consumer who submits a written request, either directly or through its retailer in accordance with the Retail Settlement Code, to the distributor for an interval meter, subject to the following conditions:
- C Consumers that request interval metering shall compensate a distributor for all incremental costs associated with that meter, including the capital cost of the interval meter, installation costs associated with the interval meter, ongoing maintenance (including allowance for meter failure), verification and reverification of the meter, installation and ongoing provision of

CONSULTATION DRAFT

Distribution System Code

communication line or communication link with the customer's meter, and cost of metering made redundant by the customer requesting interval metering.

- C The distributor shall determine whether the meter will be a MIST or MOST meter.
- C A communication system utilized for MIST meters shall be in accordance with the distributor's requirements.
- C A communication line shall be required in the case of inside or restricted access meters.

2.10.6 A distributor shall identify in its Conditions of Service the type of meters that are available to a consumer, the process by which a consumer may obtain such meters and the types of charges that would be levied on a consumer for each meter type.

Metering Requirements for Generating Facilities

2.10.7 A distributor shall require that an Ontario Energy Board-licensed generator connected to its distribution system that sells energy and settles through the distributor's retail settlement process install a four-quadrant interval meter.

2.10.8 A distributor shall meter customers with unlicensed generation capability such as back-up capability, cogeneration or generation for load displacement in the same manner as the distributor's other load customers.

2.10.9 A distributor shall require that an embedded generator connected to a distributor's distribution system install its own meter in accordance with the distributor's metering requirements and provide the distributor with the technical details of the metering installation.

CONSULTATION DRAFT

Distribution System Code

2.10.10 Where practical, metering for embedded generators shall be installed at the point of supply. If it is not practical to install the meter at the point of supply, a distributor shall apply loss factors to the generation output in accordance with the loss factors applied for retail settlements and billing.

VEE Process

2.10.11 Metering data collected by a distributor shall be subjected to a validating, estimating and editing (VEE) process if it is to be used for settlement and billing purposes.

2.10.12 A distributor shall establish a VEE process according to local practice that is fair and reasonable and provides assurance that correct data is submitted to the settlement process. The VEE process shall do the following:

- C Convert raw metering data into validated, corrected or estimated “settlement-ready” metering data suitable for use in determining settlement amounts in accordance with the settlement schedule in the Retail Settlement Code.
- C Detect errors in metering data introduced as a result of improper operational conditions and/or hardware/software malfunctions, including failures of or errors in metering or communication hardware, and metering data exceeding pre-defined variances or tolerances.
- C Use operational system data, including historical generation and load patterns and data collected by the distributor, as appropriate, for validating raw metering data, and for editing, estimating and correcting metering data found to be erroneous or missing.

2.10.13 A distributor’s VEE process for data from non-interval and MOST meters shall compare energy and demand (if applicable) readings from at least one equivalent

CONSULTATION DRAFT

Distribution System Code

historical billing period. A distributor shall determine the appropriate bandwidths by customer class and specify other criteria used in the VEE process.

- 2.10.14 A distributor's VEE process for data from MIST meters shall consider industry standards specified by the IMO in its VEE process for registered wholesale meters.
- 2.10.15 A distributor shall document and make available its VEE process and criteria, and allow scrutiny of its process by customers, retailers, the Board and Measurement Canada.
- 2.10.16 A distributor shall comply with Measurement Canada standards as a minimum metering installation and measurement standard, and may apply any other practices that exceed those standards.
- 2.10.17 A distributor shall have an inspection program for complex [polyphase] metering installations and document the inspection and results of the inspection.
- 2.10.18 Where an embedded generator's metering installation does not conform to Measurement Canada standards or the accuracy class of instrument transformers cannot be confirmed, a distributor shall require the embedded generator to have the metering installation, including instrument transformers, tested and apply a Measurement Canada correction factor to meter readings until such time as standards conformance is achieved.
- 2.10.19 A distributor shall ensure that persons involved in metering services have competency in performing these services. Competency may be exhibited by recognized qualification requirements that include a training course that meets the requirements of the tasks to be performed. Metering services provided by a person that does not have the recognized qualification requirements shall be reviewed, affirmed and documented by a person with exhibited competency.

CONSULTATION DRAFT

Distribution System Code

- 2.10.20 A distributor that provides metering services directly or through a Meter Service Provider shall exercise appropriate diligence in detecting and acting upon instances of tampering with metering and service entrance equipment. Upon identification of possible meter tampering, the distributor shall notify, as appropriate, Measurement Canada, police officials, the Electrical Safety Authority, or other entities.
- 2.10.21 Nothing in this Code shall affect the obligation of a distributor to comply with all Measurement Canada requirements provided that, where this Code or other conditions of licensure prescribe a higher standard than that prescribed in those requirements, the distributor shall comply with the higher standard.
- 2.10.22 A distributor shall respond to customer and retailer metering disputes, and shall establish a fair and reasonable charge for costs associated with resolution of these disputes. If the complaint is substantiated, the charge shall not be applied. In resolving the dispute, a distributor may use a qualified, independent organization at anytime during the dispute resolution process.

2.11 Responsibilities to Load Customers

This section applies to load customers other than embedded generators and embedded distributors.

- 2.11.1 A distributor shall make every reasonable effort to respond promptly to a customer's request for connection. A distributor shall respond to a customer's written request for a customer connection within 15 calendar days. A distributor shall make an offer to connect within 60 calendar days of receipt of the written request, unless other necessary information is required from the generator before the offer can be made.

CONSULTATION DRAFT

Distribution System Code

2.11.2 A distributor has an implied contract with any customer that is connected to the distributor's distribution system and receives distribution services from the distributor. The terms of the implied contract are embedded in the distributor's Conditions of Service, the Rate Handbook, the distributor's rate schedules and conditions of licence.

2.11.3 A distributor may require a customer to enter into a Connection Agreement with the distributor if the distributor believes that the customer has characteristics that require an explicit document to describe the relationship between the distributor and the customer. Suggested information to be included in the Connection Agreement with customers is listed in Appendix D.

2.11.4 A distributor shall enter into a Connection Agreement with a customer that is connected to the distributor's distribution system and is a wholesale market participant.

2.11.5 Before entering a property to carry out an activity described in section 40 of the *Electricity Act*, the person shall, in accordance with subsection 40(8) of the *Electricity Act*:

- provide reasonable notice of the entry to the occupier of the property;
- in so far as is practicable, restore the property to its original condition; and
- provide compensation for any damages caused by the entry.

2.12 Responsibilities to Generators

This section does not apply to emergency backup.

CONSULTATION DRAFT

Distribution System Code

- 2.12.1 A distributor shall make every reasonable effort to respond promptly to a generator's request for connection. A distributor shall provide an initial consultation with a generator that wishes to connect to the distribution system regarding the connection process within thirty (30) calendar days of receiving a written request for connection. A final offer to connect a generator to its distribution system shall be made within ninety (90) calendar days of receiving a written request for connection, unless other necessary information is required from the generator before the offer can be made.
- 2.12.2 A distributor shall collect costs reasonably incurred with making an offer to connect an embedded generator from the entity requesting the connection. Costs reasonably incurred include costs associated with:
- C Preliminary review for connection requirements.
 - C Detailed study to determine connection requirements.
 - C Final proposal to the generator.
- 2.12.3 The amount a distributor may offer to charge a generator to construct the expansion to connect the generator to the distributor's distribution system shall not exceed that generator's share of the present value of the projected capital costs and on-going maintenance costs for the equipment. Projected revenue and avoided costs from the generator shall be assumed to be zero, unless otherwise determined by rates approved by the Board. The methodology and inputs that a distributor shall use to calculate this amount are presented in Appendix B.
- 2.12.4 A distributor shall enter into a Connection Agreement with a generator that is or wishes to become connected to the distributor's distribution system. Suggested information to be included in the Connection Agreement with an embedded generator is listed in Appendix E. A suggested process and application form is included in Appendix F.

CONSULTATION DRAFT

Distribution System Code

- 2.12.5 A distributor shall ensure that the safety, reliability and efficiency of the distribution system is not negatively impacted by the connection of a generator to the system.
- 2.12.6 A distributor shall ensure that the distribution system is adequately protected from potential damage or increased operating costs resulting from connection with a generator. If damage or increased operating costs result from a connection with a generator, the distributor shall be reimbursed for these costs by the generator, thereby minimizing any impact on the costs of service for other customers on the system.
- 2.12.7 A distributor shall ensure that a connected generator has a regular, scheduled maintenance plan to assure both parties that connection devices, protection and control systems are maintained in good working order. These provisions shall be included in the Connection Agreement. In developing a maintenance plan, the distributor and generator should consider the following requirements:
- C Qualified personnel should carry out all inspections and repairs.
 - C Periodic tests should be performed on protection systems to verify that the system operates as designed. Testing intervals for protection systems should not exceed four (4) years for microprocessor-based systems and two (2) years for electro-mechanical based systems.
 - C Isolating devices at the point of connection should be operated at least once per year.
 - C The generator facility should be inspected visually at least once per year to note obvious maintenance problems such as broken insulators or other damaged equipment.
 - C Any deficiencies identified during inspections should be noted and repairs scheduled as soon as possible, with timing dependent on the severity of the problem, due diligence concerns (of both the distributor and the generator) and financial and material requirements. A distributor should be notified of

CONSULTATION DRAFT

Distribution System Code

any deficiencies involving critical protective equipment, a list of which should be identified by the distributor before-hand.

- C A distributor may choose to receive copies of all relevant inspection and repair reports that may impact the protection and performance of the distributor's systems. A distributor has the right to witness any relevant test being performed by the generator.

2.13 Responsibilities to Other Distributors

2.13.1 A distributor shall make every reasonable effort to respond promptly to another distributor's request for connection. A distributor shall provide an initial consultation with another distributor regarding the connection process within thirty (30) days of receiving a written request for connection. A final offer to connect the distributor to the host distributor's distribution system shall be made within ninety (90) days of receiving the written request for connection, unless other necessary information is required from the embedded distributor before the offer can be made.

2.13.2 A distributor shall make a good faith effort to enter into a Connection Agreement with a distributor connected to the distributor's distribution system. The contents and format of the Connection Agreement should be left to the discretion of the distributors that participate in the Connection Agreement to allow local conditions and the needs of each distributor to be reflected in the Agreement. Appendix G provides an example of the process that distributors should follow in providing a connection to another distributor.

2.13.3 The reliability of supply and the voltage level at the delivery point from a host distributor's distribution system to an embedded distributor's distribution system shall be as good as or better than what is provided to the host distributor's other distribution customers.

CONSULTATION DRAFT

Distribution System Code

2.13.4 A distributor shall not build any part of its distribution system in another distributor's licensed service area except under the following conditions:

- The part of the distribution system that is to be located outside its licensed service area is dedicated for delivery of electricity to the distributor who is installing the distribution facilities; and
- There is no apparent opportunity for both distributors to share the distribution facilities; and
- The distributor in whose service area the distribution facilities are to be located determines that the existence of the distribution facilities in that location does not impinge on its distribution operations.

2.13.5 A distributor that owns equipment in another distributor's licensed service area territory shall allow the licensed distributor access to the equipment for the following reasons:

- C Emergencies.
- C When the equipment may cause the licensed distributor to violate its licence.
- C Upon a reasonable request by the licensed distributor.
- C In accordance with any arrangement between the two distributors.

Sharing Arrangements Between Distributors

2.13.6 A distributor that owns distribution facilities in another distributor's licensed service territory, and decides to share those distribution facilities with the distributor licensed to serve the service territory, shall have an agreement that describes the terms of the sharing arrangement with the other distributor.

2.13.7 An operating agreement for multiple ownership circuits shall include, among other conditions, clauses that require:

CONSULTATION DRAFT

Distribution System Code

- C Each section owner provide downstream owners with fault current information and protection settings of upstream protective devices.
- C Each section owner provide upstream owners with load forecasting information.
- C Each section owner maintain phase balance within generally acceptable industry standards.
- C Each section owner ensure generally acceptable industry standards pertaining to power quality and voltage levels are adhered to on the section owner's portion of the feeder.
- C The owner of the feeder breaker be responsible for maintaining appropriate relay settings for overall feeder protection.
- C Each distributor be responsible to provide the required information to accomplish appropriate relay settings for overall feeder protection, including information on feeder characteristics and loading information.

2.13.8 In existing or new multiple ownership circuits, a distributor shall be responsible for maintenance, protection and power quality of the distributor's own portion of the shared feeder. The distributor shall ensure that its portion of the feeder has proper fault protection and voltage within proper limits. This generally would require the owner of each section of the feeder to provide for suitable overcurrent protection devices and voltage regulators, as appropriate, at the upstream boundary and suitable metering, if not already available for settlement purposes, at the downstream boundary.

Load Transfers

- 2.13.9 A geographic distributor that provides distribution services through a load transfer may continue to do so under the following conditions:
- C The load transfer customer enters into a Connection Agreement with the geographic distributor and interacts only with the geographic distributor.

CONSULTATION DRAFT

Distribution System Code

- C The geographic distributor provides service to the load transfer customer in accordance with its Conditions of Service and bills the load transfer customer in accordance with the regulated charges and rates of the geographic distributor, subject to clause 2.13.13.
- C The geographic distributor is responsible for system reliability or equipment failures associated with the distribution system equipment it owns or operates that is used to deliver electricity to the load transfer customer.
- C The geographic distributor allows the physical distributor access to the distribution equipment used to service the load transfer customer, as required for system reliability and safety.
- C The geographic distributor is responsible to the physical distributor for all charges and costs incurred by the load transfer customer for all costs defined in Retail Settlement Code, including distribution costs, competitive electricity costs and non-competitive electricity costs provided to the customer through the physical distributor's distribution system.
- C The geographic distributor is responsible for facilitating the load transfer customer's access to retail competition and shall interact with any competitive retailer chosen by the customer.

2.13.10 A physical distributor that provides distribution services through a load transfer may continue to do so under the following conditions:

- C The load transfer customer or a retailer that intends to service the load transfer customer is referred to the geographic distributor for all issues other than those that are the direct responsibility of the physical distributor.
- C The physical distributor bills the geographic distributor for services received by the load transfer customer from the physical distributor's distribution system in accordance with the Retail Settlement Code and Rate Handbook that applies to the physical distributor.

CONSULTATION DRAFT

Distribution System Code

- C The physical distributor is responsible for system reliability or equipment failures associated with the distribution system equipment it owns or operates that is used to deliver electricity to the load transfer customer.
- C The physical distributor allows the geographic distributor access to its equipment, as required for system reliability and safety.

2.13.11 During the five year period after this Code comes into effect, a physical distributor shall be obligated to continue to service an existing load transfer customer unless otherwise negotiated between the physical distributor and geographic distributor.

2.13.12 During the five year period after this Code comes into effect, a geographic distributor that services a load transfer customer shall commit to either:

- a) negotiate with a physical distributor that provides load transfer services so that the physical distributor will be responsible for providing distribution services to the customer directly, including application for changes to the licensed service areas of each distributor; or
- b) expand the geographic distributor's distribution system to connect the load transfer customer and service that customer directly.

Once a load transfer customer enters into a Connection Agreement with the physical distributor, the geographic distributor shall have no more responsibilities with respect to that customer.

2.13.13 During the five year period after this Code comes into effect, a geographic distributor shall bill a load transfer customer no more than the amount billed by the physical distributor to the geographic distributor for services provided to the load transfer customer.

2.13.14 A distributor may enter into a new load transfer agreement with another distributor upon leave from the Board.

CONSULTATION DRAFT

Distribution System Code

2.14 Provision of Information

- 2.14.1 A distributor shall communicate general market and educational information to consumers connected to its distribution system as required by the Board.
- 2.14.2 A distributor shall inform a person about the person's obligations to the distributor, and shall monitor and require compliance to ensure that the person is meeting its obligations. A distributor shall inform the consumer or customer about the distributor's rights to disconnect service.
- 2.14.3 At the request of a consumer, a distributor shall provide a list of retailers who have Service Agreements in effect with the distributor. The list shall conform to the requirements of section 2.5 of the Affiliate Relationships Code. The list should inform the consumer that an alternative retailer does not have to be chosen in order to ensure that the consumer receives electricity and the terms of service that are available under Standard Supply Service.
- 2.14.4 A distributor shall not provide information on products retailed by an alternative retailer.
- 2.14.5 Upon receiving an inquiry from a consumer connected to its distribution system, the distributor shall either respond to the inquiry if it deals with the distributor's distribution services or provide the consumer with contact information for the entity responsible for the item of inquiry, in accordance with chapter 7 of the Retail Settlement Code.
- 2.14.6 An embedded distributor that receives electricity from a host distributor shall provide load forecasts or any other information related to the embedded distributor's system load to the host distributor, as determined and required by the

CONSULTATION DRAFT

Distribution System Code

host distributor. A distributor shall not require any information from another distributor unless it is required for the safe and reliable operation of either distributor's distribution system or to meet a distributor's licence obligations.