Guideline for
Third Party Attachments

Ontario Regulation 22/04
Electrical Distribution Safety
October 5, 2005
Legal Disclaimer.

This document contains GUIDELINES ONLY to assist members of the industry in interpreting Ontario Regulation 22/04 - Electrical Distribution Safety - made under subsection 113(1) of Part VIII of the Electricity Act, 1998. These guidelines do not have the force of law. Where there is a conflict between these guidelines and any legislation or regulation which may apply, the relevant law prevails.

Retention Periods stated in the guidelines set out the minimum period for which referenced documents are to be retained. Each owner needs to make its own assessment of the appropriate retention period for specific documents based on its assessment of risk factors and potential liability.
# Table of Contents

1.0 GENERAL ................................................................................................................................. 5
1.1 PURPOSE OF GUIDELINE........................................................................................................ 5
1.2 CONDITION OF ATTACHMENT ............................................................................................... 5
1.3 DEFINITIONS ............................................................................................................................ 5
2.0 THIRD PARTY ATTACHMENT PROCESS .............................................................................. 9
2.1 WHAT IS REQUIRED UNDER SECTION 7 OF REGULATION 22/04? ................................. 9
2.2 EXEMPTION OF SERVICE DROPS FROM AUDIT REQUIREMENTS ..................................... 9
2.3 LIKE-FOR LIKE REPLACEMENT ............................................................................................ 9
2.4 ADDITIONAL GUIDELINE REFERENCES TO THIRD PARTY ATTACHMENT ....................... 10
2.5 DESIGN APPROVAL .................................................................................................................. 10
2.5.1 OWNER DEVELOPED ........................................................................................................ 10
2.5.2 ATTACHER DEVELOPED .................................................................................................. 10
2.5.3 WORK INSTRUCTIONS .................................................................................................... 11
2.6 APPLICATION FOR LICENSED OCCUPANCY OF POLES .................................................... 11
2.7 INSPECTION AND APPROVAL OF CONSTRUCTION .............................................................. 11
2.7.1 RECORD OF INSPECTION AND A CERTIFICATE ............................................................. 11
2.7.2 WHAT IS AN ACCEPTABLE RECORD OF INSPECTION? .............................................. 12
2.7.3 FIELD VISITS .................................................................................................................. 12
2.7.4 WHAT IS REQUIRED FOR THE CERTIFICATE? ............................................................ 12
2.7.5 WHO CAN BE DESIGNATED AS QUALIFIED PERSONS TO INSPECT? ....................... 12
2.7.6 CONFIRMATION OF COMPLIANCE .................................................................................. 13
2.7.7 DOCUMENTATION .......................................................................................................... 13

Continued on next page
Appendices

Appendix A1 - Minimum Permit Drawing Requirements for Proposed Attachments on Owner Poles

1. Basic Drawing Requirements (Applies to all drawings)
2. Project Specific Drawing Orientation Requirements
3. Project Specific Drawing Requirements
4. Project Specific Drawing Telecom Requirements

Appendix A2 – Sample Telecom Data for JUP submissions

Appendix A3 – Sample Bell Canada Work Instruction #1

Appendix A3 – Sample Bell Canada Work Instruction #2

Appendix A4 – Sample Toronto Hydro Record Of Inspection for Third Party Attachment #1

Appendix A4 – Sample Toronto Hydro Record Of Inspection for Third Party Attachment #2

Appendix A5 – Sample Hydro One Application for Licensed Occupancy of Poles

Appendix A6 – Sample of Project Specific Orientation Requirements

Appendix A6 – Sample Drawing - Project Specific Requirements

Appendix A6 – Sample Drawing - Telecom Requirements
1.0 General

1.1 Purpose of Guideline.

This Guideline has been prepared to provide guidance to distributors on how to comply with section 7 Approval of plans, drawings and specifications for installation work and section 8 Inspection and Approval of Construction of Ontario Regulation 22/04 Electrical Distribution Safety. Specifically this guideline addresses third party attachments to the distribution systems of licensed distributors.

This Guideline is to be read in conjunction with Regulation 22/04. As a condition to using its distribution systems, each distributor will need to engage an auditor on an annual basis to prepare an audit report and demonstrate compliance with sections 4, 5, 7 and 8 of the Regulation.

This Guideline along with the Regulation and other appropriate standards form the basis on which the ESA will assess the safety of the electrical distribution installations within the Province of Ontario.

1.2 Condition of Attachment.

All companies who wish to place attachments on an owner’s pole should have an agreement that allows the “attacher” to request these same attachments.

1.3 Definitions

1.1.1 “attacher” means the party making or applying for permission to attach to the owner’s support structure (such as a pole);

1.1.2 “attachment” means a single connection of the attacher’s equipment to the owner’s support structure that has a direct or indirect influence on the performance, appearance, and safety of the support structure or the owner’s ability to access and maintain it. The attacher may have multiple attachments to a support structure (such as a pole);

1.1.3 “Certificate” means a certificate issued by a professional engineer, ESA or a qualified person identified in the owner’s construction verification program, that the construction meets the safety standards set out in Section 4 of the Regulation;
1.1.4 “certificate of approval” means the certificate issued by a professional engineer or ESA confirming that a plan or Standard Design meets the safety standards set out in section 4 of the Regulation and provided to the owner;

1.1.5 “construction verification” means the inspection, approval and documentation of any new construction or repairs to distribution systems including replacements of part or portion of a distribution system, like-for-like replacements, and legacy construction replacement with respect to the safety standards set out in Section 4 of the Regulation;

1.1.6 “competent person” means a person who,
   a) is qualified because of knowledge, training and experience,
      (i) to perform specific work, or
      (ii) to organize work and its performance,
   b) has knowledge of any potential or actual danger to health or safety in the workplace in relation to the work, and
   c) is familiar with section 113 of the Act and the regulations made under it, and with the Occupational Health and Safety Act and the regulations made under that Act, that apply to the work. O. Reg.22/04;

1.1.7 “distribution system” means a system for distributing electricity, and includes any structures, equipment or other things used by a owner for that purpose;

1.1.8 “distributor” means a person who owns or operates a distribution system in the service territory defined in the electricity distribution license issued by the Ontario Energy Board (OEB);

1.1.9 "equipment" or “electrical equipment” means any apparatus, device, material used for the distribution of electricity, including materials that are non-electric in origin (refer to the Regulation for the complete definition of “electrical equipment”)(O.Reg.22/04);

1.1.10 “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 judgment in light of the facts
known at the time the decision was made, 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 (DSC);

1.1.11 “legacy construction” means existing construction built in accordance with Good Utility Practice, that does not meet current Standard Designs;

1.1.12 “like-for-like replacement” means the replacement of one piece of electrical equipment (one assembly) under all conditions, or a part or portion of a line under emergency conditions, on an existing distribution system that maintains as a minimum the characteristics and functionalities of the original installation;

1.1.13 “no undue hazard” for the purpose of construction verification of an electrical installation where indicated in this Guideline means that:

- metal parts that are not intended to be energized and that are accessible to unauthorized persons are adequately grounded,
- live parts are adequately insulated or barriered,
- the installation meets the minimum CSA clearances from buildings, signs and ground or barriers are installed to protect,
- the structure has adequate strength

where adequate means in accordance with Good Utility Practice;

1.1.14 “owner” means a licensed distributor that owns the support structure;

1.1.15 “plan” means the drawings and instructions that are prepared for the construction of new or modified distribution system that have been reviewed and approved by a professional engineer or ESA;

1.1.16 “professional engineer” means a person who holds a license or temporary license under the Professional Engineers Act (Reg. 22/04);
“qualified person” means a person identified in a construction verification program developed by the owner and approved by ESA for the purpose of inspection and approval of construction;

“record of inspection” means a record prepared by a professional engineer, ESA, or a qualified person identified in the owner’s construction verification program, detailing the inspection of a constructed or repaired portion of an electrical distribution system with respect to the safety standards set out in section 4 of the Regulation;

“Regulation” means the Ontario Regulation 22/04 – Electrical Distribution Safety;

“Service Drop” means a small light-weight single communication cable or wire between an attacher’s plant and customer's residence or place of business. The cable or wire shall be affixed in span, to a pole or existing messenger, constructed per the attacher’s engineered "service drop" standard. The owner should establish a maximum lateral load to the plant;

“Standard Designs” means the standards such as standard design drawings, standard design specifications, technical specifications, and construction standards that have been reviewed and approved by a professional engineer or ESA for use by an owner or attacher and that the owner or attacher has authorized for use on an ongoing basis for the construction, operation, and maintenance of its plant in relation to the distribution system;

“work instruction” means the assembly of Standard Designs into drawings and instructions prepared by a competent person in accordance with the owner’s or attacher’s job planning process used for the installation of the attacher’s new or modified equipment on the owner’s support.
2.0 Third Party Attachment Process.

2.1 What is required under section 7 of Regulation 22/04?
Starting February 11, 2005 under section 7 of the Regulation, before beginning work on a distribution system, or effecting repairs, alterations or extensions on an existing distribution system an owner shall ensure that installation work is based on plans prepared by a professional engineer and,

- a plan must be reviewed and approved by a professional engineer or ESA and a certificate of approval provided to the owner; or

- a work instruction must be based on Standard Designs that have been reviewed and approved by a professional engineer or ESA and for which certificates of approval have been provided to the owner.

After approval, the Regulation allows the attacher to utilize Standard Designs for work on distribution systems without further design approvals being required by a professional engineer or ESA. The attacher may prepare work instructions using its own approved Standard Designs in accordance with its job planning process.

2.2 Exemption of Service Drops from audit requirements.
The installation and removal of Service Drops are exempted from the audit requirements of section 7 and section 8 of the Regulation. Service Drops are not exempt from section 4, 5, 7 and 8 of the Regulation and as such, must meet CSA C22.3, No. 1-01 Overhead Systems or C22.3, No.7-94 Underground Systems (Reaffirmed 1999).

2.3 Like-for-Like Replacement.
Like-for-like replacement, line repair or replacement work of non-electrical equipment done under emergency conditions (i.e. trouble calls), or owner or attacher maintenance programs are exempted from the requirements of section 7 of the Regulation. However, such work is to be inspected by a competent person to confirm that it presents no undue hazards.
When a transfer of equipment is proposed by an owner or an attacher it shall be considered a like-for-like replacement and shall be subject to the process for completing records of inspection and statement of no undue hazards identified in the owner’s Construction Verification Program.

2.4 Additional Guideline References to Third Party Attachment.
Further references to third party attachments can be found in the Technical Guideline for Section 7 (Design) clause 2 and the Technical Guideline for Section 8 (Construction Verification) clause 2.

2.5 Design Approval.
There are two basic approaches to approving designs for third party attachments:

2.5.1 Owner Developed
The first approach is based on standard designs developed and approved by the owner, which allows for third party attachments of predetermined construction types. The attacher will need to supply information to the owner to ascertain that the proposed attachment is in accordance with the approved standard designs. After review and approval by the owner the permission is granted to proceed with construction; or

2.5.2 Attacher Developed
The second approach is based on the attacher providing a plan or work instruction assembled by a professional engineer; by the attacher's engineering technologist certified by the Ontario Association of Certified Engineering Technicians and Technologists or by the attacher's competent person, from a standard design developed and approved by a professional engineer, to the owner. The owner will grant permission to proceed after a review of the design and the attacher’s Certificate of Approval. The attacher shall satisfy the owner as to the qualifications of it's competent person. See Appendix A for examples of what information may be required to be provided to prepare the plan or work instruction.
instruction. If both parties agree, different levels of information may be required and provided than identified in Appendix A.

2.5.3 Work instructions.

The attacher may provide the owner with work instructions prepared to the owner’s or attacher’s standard design specifications that have been assembled by a professional engineer or a competent person and accepted by the owner.

2.6 Application for Licensed Occupancy of Poles

Accompanying this engineered drawing or work instruction should be an Application for Licensed Occupancy of Poles form filled out accordingly. This requested application should include the details from Appendix A as required. This application may also have the pole markings that the owner has installed in the field for clarity for current and future records.

2.7 Inspection and approval of construction

2.7.1 Record of Inspection and a Certificate

Once the new plant has been installed or the modifications to an existing attachment have been completed, a professional engineer or ESA or a qualified person identified in the owner’s Construction Verification Program must prepare a record of inspection and a certificate. The owner will keep completed records of inspection and certificates.
2.7.2 What is an acceptable Record of Inspection?

A record of inspection is to include sufficient description to identify the work and equipment inspected. A record of inspection can consist of an engineered plan, an as-built drawing, or a set of work instructions signed and dated by a professional engineer or ESA or a qualified person.

2.7.3 Field Visits

Initial contact is required prior to the commencement of work and field visits may be required from time to time. Both parties should agree if a joint field visit might be required.

2.7.4 What is required for the Certificate?

The certificate can be a separate document or it can be a stamp or signature added to the record of inspection and/or construction drawings. It should include the following information:

- name and signature of the inspecting professional engineer, ESA representative or qualified person;
- name of the distributor that owns the system (i.e. owner);
- confirmation that the construction meets the plan, work instruction, or Standard Design; and
- date of certification.

2.7.5 Who can be designated as Qualified Persons to inspect?

A qualified person may be an employee of the attacher, but they must be identified in the owner’s approved Construction Verification Program. It is the responsibility of the owner to determine the qualifications necessary to designate the attacher’s employees as qualified in the Construction Verification Program. Alternatively the owner may choose to complete all of the inspections.
2.7.6 Confirmation of compliance.

The owner is responsible for the safety of the distribution system and all work completed on it. If the owner has designated employees of an attacher as qualified persons, it should complete an annual confirmation review of the work inspected and certified by the attacher. Once a year, a sample (suggested rate 10% to 15%) of the new “Application for Licensed Occupancy of Pole” locations taken out that year, may be audited for compliance.

2.7.7 Documentation

The owner is to retain the records of inspection and certificates and make them available to the ESA upon request for a period of at least one year after the annual audit, following construction completion, for audit purposes.
Appendix A1 - Minimum Permit Drawing Requirements for Proposed Attachments on Owner Poles.

1 Basic Drawing Requirements (applies to all drawings)
   a. Title block (name & address of Attacher, date, drawing/project number, drawing revision number, location of project)
   b. Name & phone number of the Project Manager for the specific application
   c. Language: English/French as appropriate
   d. Scale or Dimensions (where applicable): Metric
   e. Scale Size (where applicable): Larger than or equal to 1:1000 (e.g. 1:1000, 1:500, 1:250)
   f. Legend of symbols
   g. Certified standards that have been applied
   h. The competent person who assembled the work instruction or the Professional Engineer who approved the plan/design

2 Project Specific Drawing Orientation Requirements
   i. North Point
   j. Key Map
   k. Street names: clearly indicated
   l. Sidewalks, driveways, curbs, trees, buildings, bridges, rivers, railroads, other utilities if they add clarity to specific issues
   m. Lot lines and/or buildings, and house numbers in front of poles
   n. Clearly indicated poles and their ownership
   o. Horizontal offset measurements for proposed pole contact close construction to buildings, other non-Owner overhead systems (ex. traffic, street lighting, signs), and/or bridges.

3 Project Specific Drawing Requirements

   Proposed Attacher Information
   a. Which side of the pole and orientation to be contacted
   b. Proposed Electrical bonding locations and method (eg. Ground rods)
   c. Proposed Dips and/or risers (Cable dip/riser details)
   d. Proposed Ducts, guards, and/or concrete work on poles for dips and/or risers
   e. Proposed and existing (where available) Attacher anchoring including size, strength, tension, and location (Including height and lead data)
   f. Make ready work anticipated by the Attacher with the Owner’s poles or third party attachments
   g. Proposed/existing pedestal locations along route outside of boundaries specified in the Joint Use Agreement
   h. Railroad, major highway, & river crossing engineering details & associated profiles
   i. Pole height contact detail (by drawing or table) indicating dimensions above grade for all other existing attachments such as other Telecommunications /
Guideline for
Third Party Attachments

CATV contacts by name, streetlight contacts, approximate separation to lowest electrical contact (neutral, secondary, primary, transformers, unprotected electrical riser/dips, decorative banners) for both new and existing Support Strands.

4 Project Specific Drawing Telecom Requirements

Proposed Attacher Information
a. Proposed cable and Support Strands clearly indicated with heavier line style and attachment method (e.g. CSA Heavy or diameter or kN)
b. Proposed cable to be Over-lashed to existing Support Strand and indicate owner of that Support Strand (e.g. CSA Heavy or diameter or kN)
c. Proposed/existing support strand size, strength, and sag/tension with proposed/existing cables (profile drawing acceptable) (e.g. CSA Heavy or diameter or kN)
d. Proposed telecommunication attachments to the pole (e.g. amplifiers, power supplies, antenna, Attacher electrical wiring and protection, and wire routing on the pole.) (Including information such as design data)
e. Proposed in span features and equipment such as slack storage & splice can locations
## Default Telecomm Data for JUP submissions

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<td>7 strand</td>
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<td>UTS (lbs)</td>
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<td>Type</td>
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## Net X Tangent Pole Profile

### Orientation

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<table>
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### Pole Data

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### Communication Space

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### Notes:

**Design**

All project drawing(s) have been assembled utilizing existing Bell Canada Construction Standards, Specifications and Equipment which comply with the requirements of CSA C22.3 No.1 Overhead Systems and CSA-C83-96(R2000) Communication and Power Line Hardware. (Meets Section 7)
### Net X Anc Guy Pole Profile

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**Down Guy Lead**

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**Notes:**

**Design**

All project drawing(s) have been assembled utilizing existing Bell Canada Construction Standards, Specifications and Equipment which comply with the requirements of CSA C22.3 No.1 Overhead Systems and CSA-C83-96(R2000) Communication and Power Line Hardware. (Meets Section 7)
# Appendix A4 – Sample Toronto Hydro Record Of Inspection for Third Party Attachment #1

## Record of Inspection
Third Party Attachment
Like for Like Construction

### Project Information:

<table>
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<th>Number</th>
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### Attacher Inspection Information:

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<th>Position</th>
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<td>Roger’ CAT</td>
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### Ontario Regulation 22/04

This site has been left in a condition that presents no undue hazard to the public. It is in accordance with the Technical Guidelines established by the ESA under Ontario Regulation 22/04.

Please return original document upon receipt.
Appendix A4 – Sample Toronto Hydro Record Of Inspection for Third Party Attachment #2

Record of Inspection Third Party Attachment

<table>
<thead>
<tr>
<th>AS CONSTRUCTED</th>
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<tbody>
<tr>
<td>☐ Aerial Installation</td>
<td>☐ South District</td>
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<tr>
<td>☐ U/G Installation</td>
<td>☐ East District</td>
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<tr>
<td>With changes shown on this Drawing</td>
<td>☐ West District</td>
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<table>
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<tr>
<th>Attachment owner</th>
<th>Permit #</th>
<th>Date</th>
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<tbody>
<tr>
<td>Print Name</td>
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<td></td>
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<tr>
<td>Position</td>
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<tr>
<td>Signature</td>
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</tr>
</tbody>
</table>

☐ This is to certify that the construction as recorded in this drawing is consistent with the Approved Plan, Standard Designs, or work instruction.
APPLICATION FOR LICENSED OCCUPANCY OF POLES

Please complete all boxes above the dotted line.

Audit Date: August 2001

Residential/Commercial/Industrial Use

Primary Purpose of Application

Purpose of Application

1.475 inch electrical, 1.60 inch Fibre Cable on 14/0/2 strand, Line Tension: 11 KV,

Name of Contractor

Owner's Name:

Lot(s) or Tract(s)

Con. 7

Fast Vulcan Brewery

York Region

KING ROAD

2.6 m Lead

X

2.6 m Lead

X

2.1 m Lead

X

Lul 11

Con 7

For Internal Use Only

Hydro One

Operational/Line Manager

Newmarket

2005-02-01

Contractor's Signature

For Internal Use Only

Guideline for Third Party Attachments  Page 21 of 24

Appendix A5 – Sample

Hydro One Application for Licensed Occupancy of Poles
Appendix A6 – Sample of Project Specific Orientation Requirements
Appendix A6 – Sample Drawing - Telecom Requirements