

# HYDRO ONE JOINT USE MEMO

**AUGUST 2019**

**Re: Service Drop Exemption Requirements**

As a joint use partner of Hydro One, the Company may have a need to install a Service Drop (defined below) onto Hydro One poles. Prior to the attachment of a Service Drop on any Hydro One pole, the Company must comply with the terms of this letter and execute the attached authorization. If the Company chooses to not execute and return the attached authorization to Hydro One, then, it will be required to submit to Hydro One an application for licensed occupancy of poles and obtain approval for each intended Service Drop. Hydro One would be willing to grant its authorization for a Service Drop provided the service drop satisfies the definition of Service Drop and is in accordance with the requirements outlined below.

## **Definition of Service Drop:**

As per section 1.1.20 of the Electrical Safety Authority Guideline for Third Party Attachments:

**“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.**

## **Clarification and Requirements:**

- Hydro One requires that under the worst conditions of loading on the Service Drop(s), the maximum unbalance load on a Hydro One pole(s) due to one or more un-guyed Service Drop(s) shall not exceed 1.33 kN (**300** lbs). This 300 lbs limit is for the sum of all the “Service Drops” on the un-guyed pole. (Note: an un-guyed pole is a pole that does not have a down guy opposite the direction of the Service Drop(s) with the sufficient lead and strength to hold the tension)
- The maximum breaking strength of a single Service Drop conductor can not be greater than 1.33 kN (**300** lbs) without a down guy being attached to the pole, opposite to the unbalanced load.
- If the sum of the lateral loads exceeds 300lbs, the Company placing the attachment(s) must submit to Hydro One an application for licensed occupancy of poles and obtain approval for each intended Service Drop(s).
- The single “Service Drop” is limited to up to two spans inline plus a road crossing if required and must only service one customer.
- An engineered approved site assessment is not required, for Service Drop(s) as long as the Service Drop installation meets the Company’s standards provided said standards have been previously approved by a professional engineer. Upon completion of the installation the Company’s qualified person will confirm the installation meets the Company’s standard.
- The installation and removal of Service Drops are exempt from the audit requirements of section 7 and 8 of the Ontario Regulation 22/04 - *Electrical Distribution Safety* (the “Regulation”). Service Drops are not exempt from Sections 4, 5, 7 and 8 of the Regulation and as such, must meet Canadian Standards Association Standard (“CSA”) C22.3, No. 1-01 Overhead Systems.
- Hydro One is not required to keep records of Service Drops for the purpose of the audit, although it is required that the installation meets CSA standard C22.3 No.1.

**Authorization for Attachment**

**The undersigned agrees with the terms and conditions set out in the attached letter regarding Hydro One’s Service Drop requirements. The undersigned accepts and agrees that the Service Drop installations, which are the responsibility of the undersigned, have been previously approved by an engineer and said installations satisfy both the requirements under CSA standard C22.3 and the requirements of Hydro One and meet the following criteria:**

- Hydro One requires that under the worst conditions of loading on the Service Drop(s), the maximum unbalance load on a Hydro One pole(s) due to one or more un-guyed Service Drop(s) shall not exceed 1.33 kN (300 lbs)
- The maximum breaking strength of a single Service Drop conductor can not be greater than 1.33 kN(300 lbs) without a down guy being attached to the pole, opposite to the unbalanced load.
- If the sum of the lateral loads exceeds 300lbs, the Company placing the attachment(s) must submit to Hydro One an application for licensed occupancy of poles and obtain approval for each intended Service Drop(s).
- The “Service Drop” is limited to longer than up to two spans inline plus a road crossing if required and must only service one customer.
- Service Drop installation meets the Company’s standards (that have been previously approved by an engineer).
- Upon completion of the installation a Company’s qualified person will confirm the installation meets the Company’s standard.
- Service Drops meet standards set out in CSA C22.3, No. 1-01 Overhead Systems

Date: \_\_\_\_\_

By: \_\_\_\_\_

Name:

Title:

I have authority to bind the corporation.

# HYDRO ONE JOINT USE MEMO

June 2011

To: All Hydro One Joint Use Telecommunication Partners

## Identification Requirements for all Attachments to Hydro One Networks Inc. Poles

This memo is a reminder to all Hydro One Networks Inc's "HONI" Joint Use Telecom partners attaching equipment HONI poles. All Attachments ***must be tagged*** to identify ownership as per the Contract Administration Guide (CAG) clause 3.2, which states "*In accordance with the Standard, the Licensee's Attachments must be tagged by the Licensee to identify its ownership.*"

Tagging (identifying) Attachments of all parties must be in a manner acceptable to HONI and is a mandatory requirement. Effective immediately, all new construction/Attachments are to be tagged. The locations as to where the tags/identifiers are required are: at every transition or dip, at all equipment (power supplies, etc.), every 5<sup>th</sup> pole, and at the beginning and the end of the new line. The tags **must** also be installed on new cable installations and any over lash situations regardless of ownership of strand.

Please review "Cable Wraps and Identification Tags" attached below for examples of approved tags currently being utilized in the field. This attached document also identifies what information is requested that each *Licensee* must provide to HONI.

HONI is in the process of establishing an updated list of cable wraps and identification tags of all *Licensee's Attachments* and is therefore requesting that all *Licensees* provide a .pdf or a .jpeg file of their identification markers by **August 31st 2011**. In addition, where companies have been acquired, please provide any available documentation.

Please email the requested information to the below contacts.



Cable Wraps and  
Identification Tags

Sincerely,

**Reg Walker**  
**Senior Programs Engineer Officer**

(877) 647-2872 Ext. 2035

Reg.Walker@hydroone.com

# HYDRO ONE JOINT USE MEMO

March 12, 2015

To: Non-Reciprocal Telecom Companies

## **Subject: Regulation 22/04 Minimum Application Requirements**

This Joint Use Memo is to notify all Non-Reciprocal Telecom Companies “Tenants” of the changes required by Hydro One Networks Inc. (“HONI”) with regards to the minimum application requirements for third party attachments. HONI has reviewed its Third Party Attacher process to better align with the requirements of the Electrical Safety Authority’s Technical Guideline for Third Party Attachments. This process change will require greater detail in the application to allow HONI to improve permit approval timelines, align with guideline, and improve compliance to Ontario Regulation 22/04.

Effective April 1<sup>st</sup>, 2015, any Tenants wishing to attach/overlash to HONI poles shall submit the *Application for Licensed Occupancy of Poles* form (“Application”).

The information contained within the Application is aligned with the Guidelines for Third Party Attachments published by ESA in 2005. The Guideline can be found by following the link below:

[http://www.esasafe.com/assets/files/esaeds/pdf/ALL/Guideline\\_for\\_Third\\_Party\\_Attachments.pdf](http://www.esasafe.com/assets/files/esaeds/pdf/ALL/Guideline_for_Third_Party_Attachments.pdf)

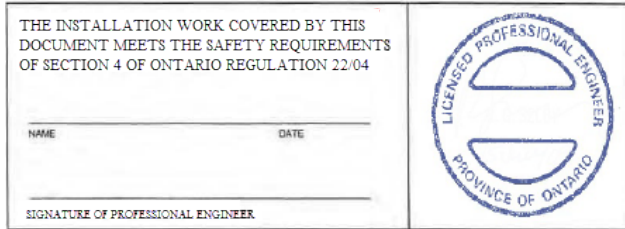
All Applications must include the following:

- **Key Map/Permit Sketch** – Map of the area. The map must include all poles outlining existing attachments and provide location of proposed new attachments
- **Work Instruction** – As outlined on Page 8 of the Guideline for Third Party Attachments - Assembly of Professional Engineer approved 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 owners support structure.
- **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. The Standard Design is completed by the Attacher and submitted to Hydro One. Hydro One will provide standards outlining clearance requirements from existing conductors on poles, guying, anchoring, sags and tensions.

Hydro One does not have Owner Developed Standards for use on Telecommunication Attachments.

March 2015 – 3<sup>rd</sup> Party Attachments

- **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. This is required of all of the Standard Designs



- **Conductor Characteristics** – HONI will be determining the class and height of the structure and to do so requires:
  1. Height of attachment at the pole, for new or existing (if applicable) attachments and any third parties which may already be attached.
  2. Proposed and existing (if applicable) support strand size.
  3. Maximum Sag under thermal loading and/or ice loading for proposed and existing cables.
  4. Maximum design tension for all cables.
  5. Proposed and existing (if applicable) anchoring and guying including attachment height and anchor to pole lead length.
  6. Proposed type of cable to be over-lashed to existing support strand and indicate owner of that strand, and any other companies/attachers already over-lashed.
  7. Proposed bonding locations
  8. Proposed dips and/or risers (if applicable).
  9. Make ready work anticipated by any party.
  10. Proposed or existing telecommunication attachments to the pole (e.g. power supplies.)
  11. Proposed in span features and equipment such as slack storage & splice can locations.

To initiate the Application process, as is currently being done today, all forms need be sent to the proper local Field Business Centre responsible for the area of the project as outlined below in Appendix “1”. If a greater detailed map is required, there is an interactive map available at [www.hydroone.com](http://www.hydroone.com), and click on “Outage Map”. Check that the “Service Territory Overlay” is selected.

HONI requires the detail identified above in order to satisfy the design, safety and regulatory requirements for both HONI and all Tenants’ along with ensuring a uniform and consistent approach for the benefit of all parties.



Blank Permit Application



Sample Permit Application

If you require additional information please email [ExternalJointUse@HydroOne.com](mailto:ExternalJointUse@HydroOne.com)

Sincerely,

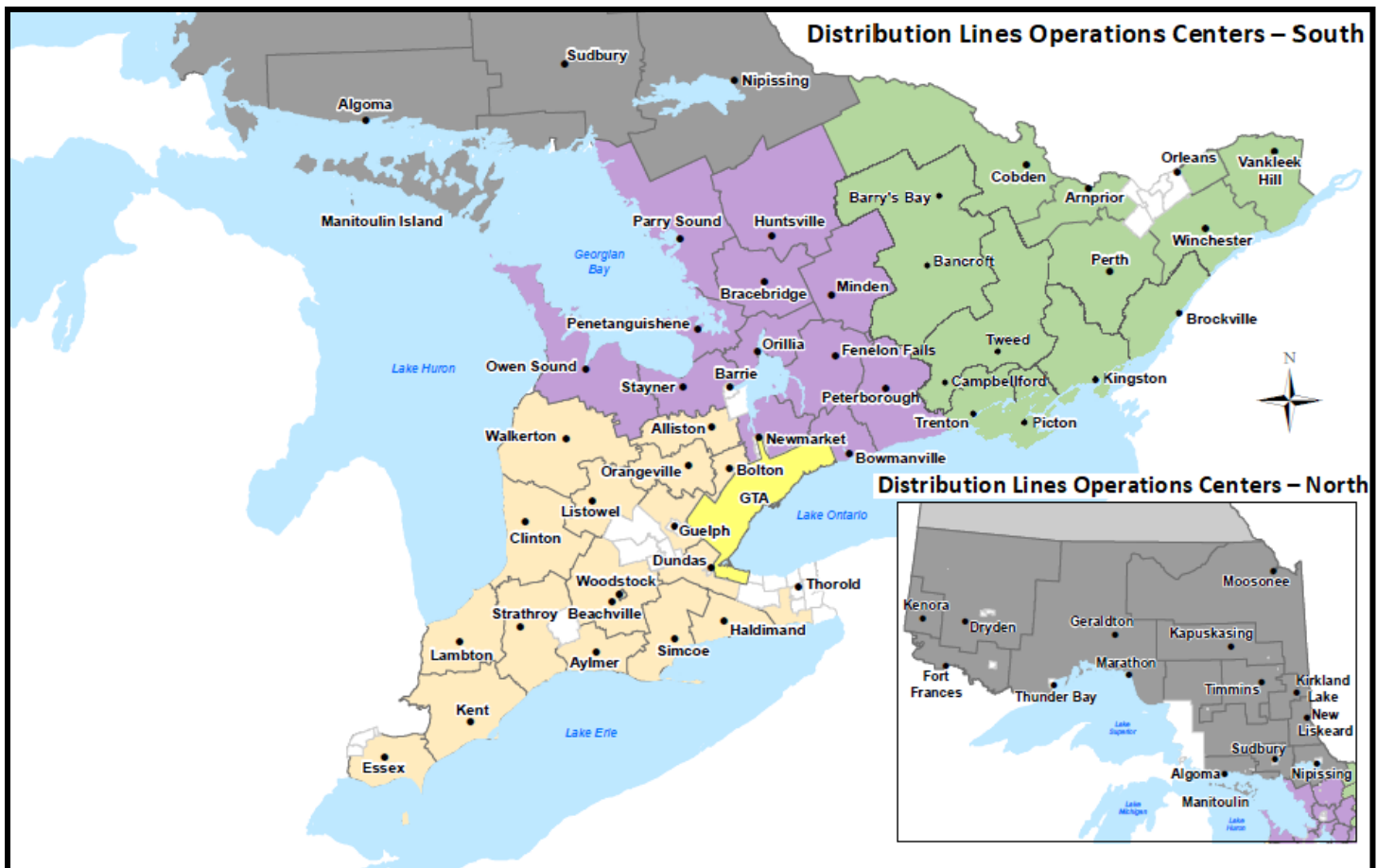
**Reg Walker**  
**Senior Programs Engineer Officer**  
 (877) 647-2872 Ext. 2035  
[Reg.Walker@hydroone.com](mailto:Reg.Walker@hydroone.com)

Appendix – “1”



## Distribution Lines Contact List

Region	Telephone No.	E-Mail Address
Southern	1-800-957-7756 or 226-705-5000	<a href="mailto:SouthernFBCPlanning@HydroOne.com">SouthernFBCPlanning@HydroOne.com</a>
GTA	705-797-4172	<a href="mailto:Zone8Scheduling@HydroOne.com">Zone8Scheduling@HydroOne.com</a>
Central	1-888-238-2398 or 705-728-5017	<a href="mailto:CentralFBCplanning@HydroOne.com">CentralFBCplanning@HydroOne.com</a>
Eastern	1-888-332-2249 or 613-267-2154	<a href="mailto:EastZoneScheduling@HydroOne.com">EastZoneScheduling@HydroOne.com</a>
Northern	1-888-835-9444 or 705-566-8955	<a href="mailto:NorthernFBCPlanning@HydroOne.com">NorthernFBCPlanning@HydroOne.com</a>



# NEWSFLASH

August 18, 2011

Attention: Joint Use Telecommunication Partner

## **PROCESS TO CONTACT HYDRO ONE NETWORKS FOR JOINT USE**

Please find below a contact list for Hydro One Networks (HONI) zone offices. This contact information is vital in the process of contacting and submitting requests to HONI for attachments on our poles.

To initiate the process for new Joint Use please refer to Section 1 of the Contract Administration Guide "CAG". Once the application has been received by the appropriate Zone Scheduling Office, an Area Distribution Engineering Technician (ADET) will be scheduled to do a site visit to review the requested work.

The ADET will conduct the Class C Estimate of the requested work and a letter will be sent to the requesting party. Once the requesting party pays HONI to complete the Field Design and Staking, as indicated in the letter, HONI will schedule an ADET to complete the final estimate. Once the estimate has been prepared, you will receive a 2<sup>nd</sup> letter with the information and a request for payment. Once your payment has been received, HONI will schedule the work within:

- **30 days** from receipt of payment for **projects <\$50k**
- **60 days** from receipt of payment for **projects >\$50k and up to \$500k**
- **120 days** from receipt of payment for **projects >\$500k**

If you have questions regarding the information in the letter or the scheduling of work, you should contact the Field Business Clerk at the phone number provided in the letter or the Zone Planning Department at the phone numbers below, please do not contact the ADET to discuss the scheduling of the work.

We hope this helps clarify the process when requesting work from HONI.

Yours truly,

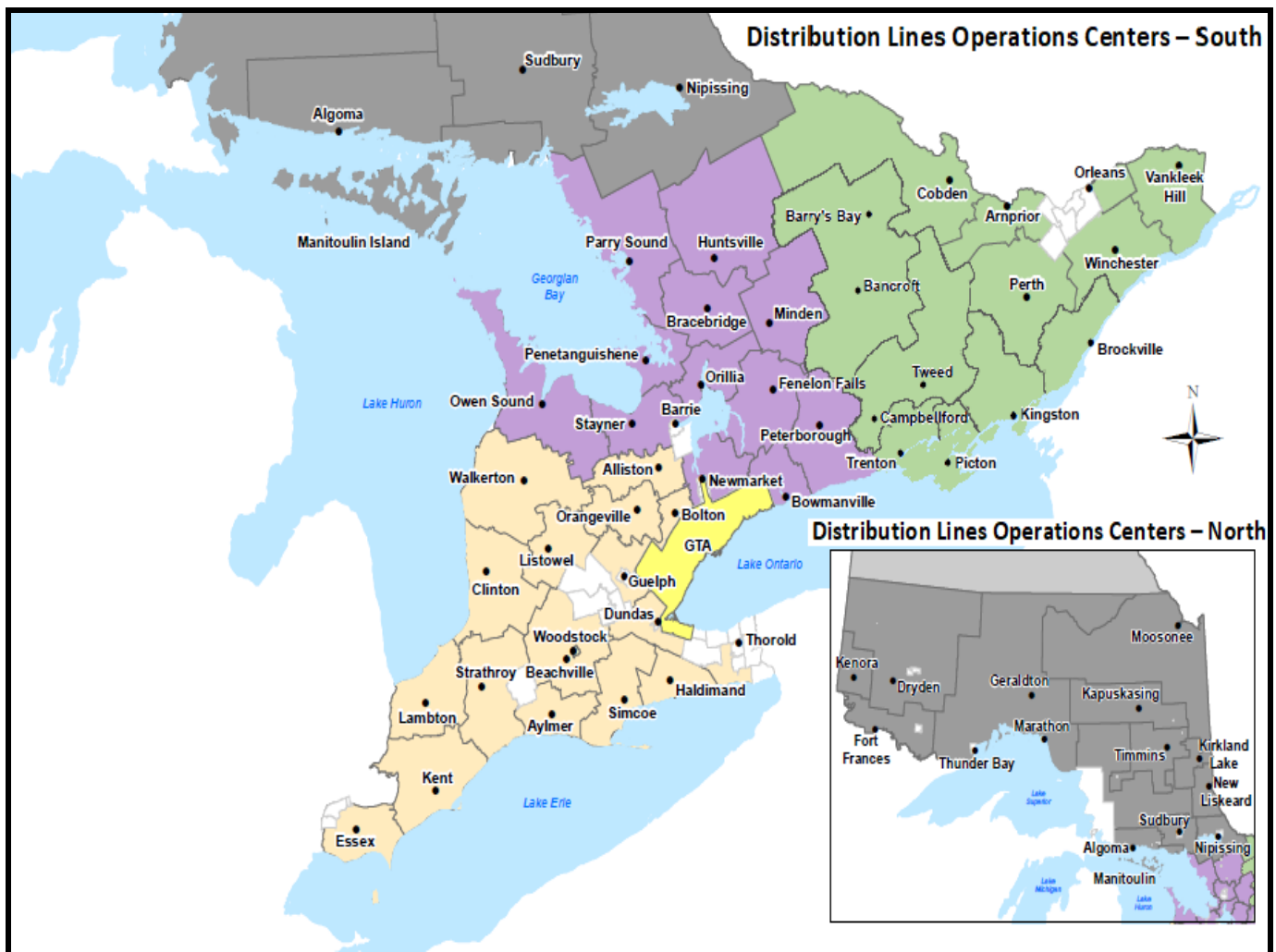
**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
Reg.Walker@hydroone.com





# Distribution Lines Contact List

Region	Telephone No.	E-Mail Address
Southern	1-800-957-7756 or 226-705-5000	<a href="mailto:SouthernFBCPlanning@HydroOne.com">SouthernFBCPlanning@HydroOne.com</a>
GTA	705-797-4172	<a href="mailto:Zone8Scheduling@HydroOne.com">Zone8Scheduling@HydroOne.com</a>
Central	1-888-238-2398 or 705-728-5017	<a href="mailto:CentralFBCplanning@HydroOne.com">CentralFBCplanning@HydroOne.com</a>
Eastern	1-888-332-2249 or 613-267-2154	<a href="mailto:EastZoneScheduling@HydroOne.com">EastZoneScheduling@HydroOne.com</a>
Northern	1-888-835-9444 or 705-566-8955	<a href="mailto:NorthernFBCPlanning@HydroOne.com">NorthernFBCPlanning@HydroOne.com</a>



Revised: Jan 2021



# HYDRO ONE JOINT USE MEMO

August 1, 2018

To: All Joint Use Partners

**Subject: Placement of and Working on Attachments on Poles containing Porcelain and Restricted Insulators - Update**

**This memo updates and replaces the Hydro One Memorandum dated December 10, 2007.** The updated changes to Hydro One Networks Inc.'s ("HONI") are as follows:

- Ohio Brass 15kV Three (3) Skirt post type insulators have been added to the insulator list. (Appendix A, Figure 2 below)
- Clarification that certain insulators listed within this memo includes both the horizontal or vertical installation methods.
- Provide clarification and instructions for restricted insulators.
- Include Division of Costs Table (Appendix D) for Porcelain Insulators and Restricted Insulators.

This memo will provide **updated** information concerning working on joint use poles containing certain porcelain insulators ("Porcelain Insulators") (which insulators are specifically listed and illustrated on the attached Appendix A) and restricted insulators ("Restricted Insulators") (which insulators are specifically listed and illustrated on the attached Appendix B.) The memo will provide additional clarification / instructions with respect to working on existing attachments or adding new attachments to poles with Porcelain Insulators and Restricted Insulators.

## **Porcelain Insulators (Appendix A)**

### **Working on licensee's attachments located on poles containing Porcelain Insulators:**

To address potential issues regarding Porcelain Insulators, before any work can be done on the licensee's attachments located on any joint use pole, the licensee must visually inspect the joint use pole to determine if the pole contains any Porcelain Insulators and:

- i. if there are no Porcelain Insulators attached to the pole, the licensee can carry out any work subject to the terms and conditions of the applicable Agreement for Licensed Occupancy of Power Utility Distribution Poles;
- ii. if any Porcelain Insulators are attached to the pole, the licensee may only climb the pole and do **minor service work that does not cause movement to the pole; the licensee must not string or sag cable or run new service drops requiring back-guying;**

- iii. if the licensee is unable to determine whether there are Porcelain Insulators on the pole OR if there are Porcelain Insulators on the pole and the work that the licensee wishes to carry out is not minor service work, **the licensee must contact HONI** at the number as indicated on the Distribution - Provincial Lines Contact List (Appendix C), during normal business hours or contact HONI at 1-888-664-9376 after regular business hours. Once notified, HONI will arrange to have the Porcelain Insulators attached to the poles verified and if necessary, replace the Porcelain Insulators, offer protective devices or arrange to de-energize the circuit.

#### **Adding Attachments to Joint Use Poles containing Porcelain Insulators:**

Under HONI's Agreement for Licensed Occupancy of Power Utility Distribution Poles, the licensee is responsible to pay for the costs of any work which is necessary and required solely for the purpose of directly accommodating any attachments that the licensee wishes to attach to HONI poles. HONI has determined that make-ready work is necessary to be carried out on poles that currently contain Porcelain Insulators, before any additional attachments are placed on such poles. This work would not have been necessary but for the new attachments, the cost of the work is payable by the licensee wishing to place the said attachments to the pole.

#### **Restricted Insulators (Appendix B)**

##### **Working on licensee's attachments located on poles containing Restricted Insulators:**

To address potential issues regarding Restricted Insulators, before any work can be done on the licensee's existing attachments located on any joint use pole, the licensee must visually inspect the joint use pole to determine if the pole contains any Restricted Insulators and:

- i. if there are no Restricted Insulators attached to the pole, the licensee can carry out any work subject to the terms and conditions of the applicable Agreement for Licensed Occupancy of Power Utility Distribution Poles;
- ii. if Restricted Insulators are attached to the pole, **the licensee must contact HONI** at the number as indicated on the Distribution - Provincial Lines Contact List (Appendix C), during normal business hours or contact HONI at 1-888-664-9376 after regular business hours. Once notified, HONI will arrange to have the Restricted Insulators replaced or de-energize the circuit;
- iii. if the licensee is unable to determine whether there are Restricted Insulators on the pole, **the licensee must contact HONI** at the number as indicated on the Distribution Provincial Lines Contact List (Appendix C), during normal business hours or contact HONI at 1-888-664-9376 after regular business hours. Once notified, HONI will arrange to have the Restricted Insulators verified and if necessary, replaced or de-energize the circuit.

#### **Adding Attachments to Joint Use Poles containing Restricted Insulators:**

Under HONI's Agreement for Licensed Occupancy of Power Utility Distribution Poles or otherwise, HONI is responsible to pay for the costs of replacing Restricted Insulators or de-

energizing the circuit. All Restricted Insulators must be replaced or the circuit de-energized before any additional attachments are placed on the poles carrying Restricted Insulators.

For cost sharing involving Porcelain Insulators and Restricted Insulators refer to Appendix D – Division of Costs Table.

HONI trusts that this memo helps to clarify the situation with regard to the Porcelain Insulators and Restricted Insulators listed in Appendix A & B to this memo. The instructions in this memo supersede any contrary provision in any applicable Agreement for Licensed Occupancy of Power Utility Distribution Poles.

If you need additional information, please email [ExternalJointUse@HydroOne.com](mailto:ExternalJointUse@HydroOne.com)

Yours truly,

**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
[Reg.Walker@hydroone.com](mailto:Reg.Walker@hydroone.com)

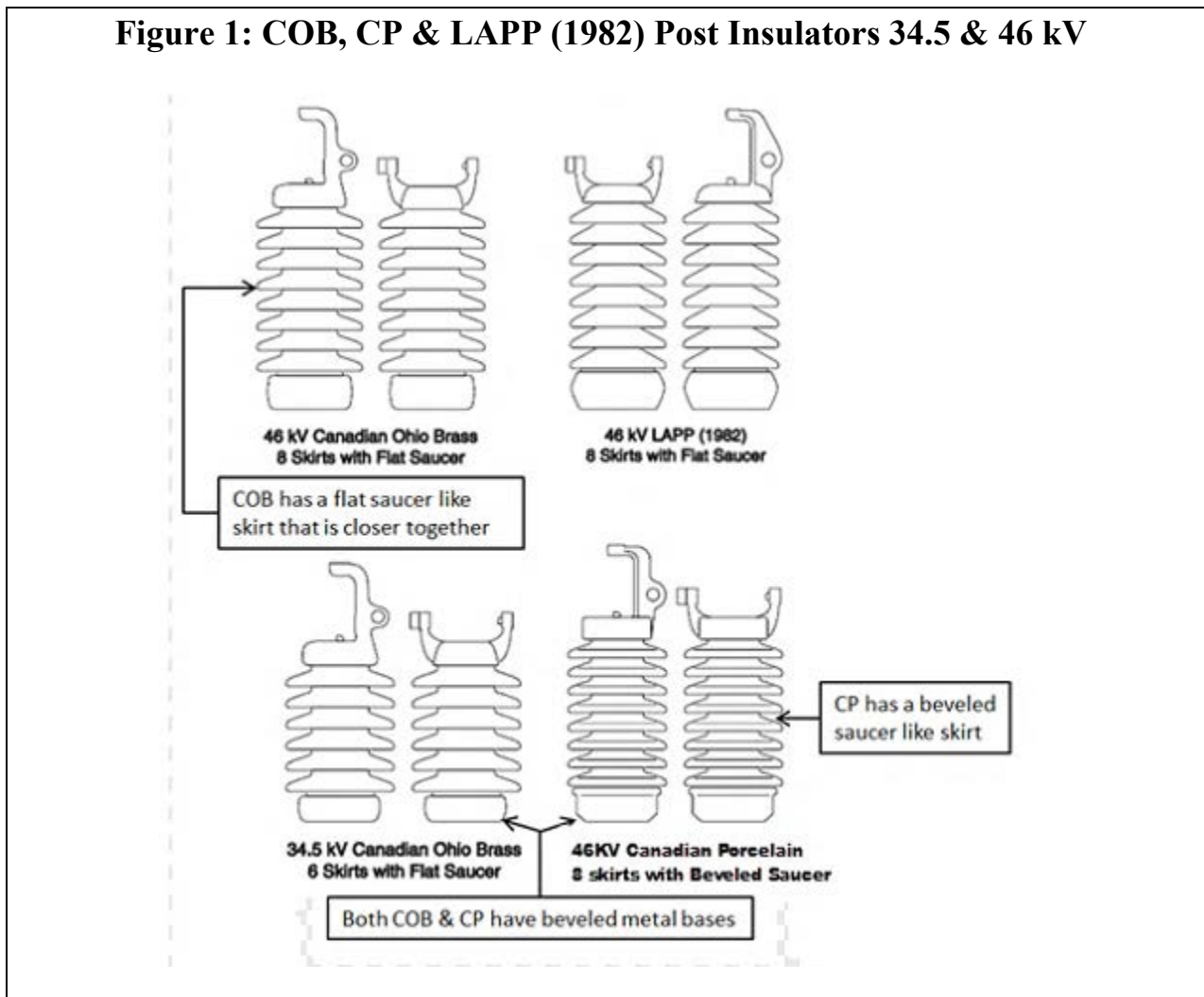
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## Appendix A - Porcelain Insulators

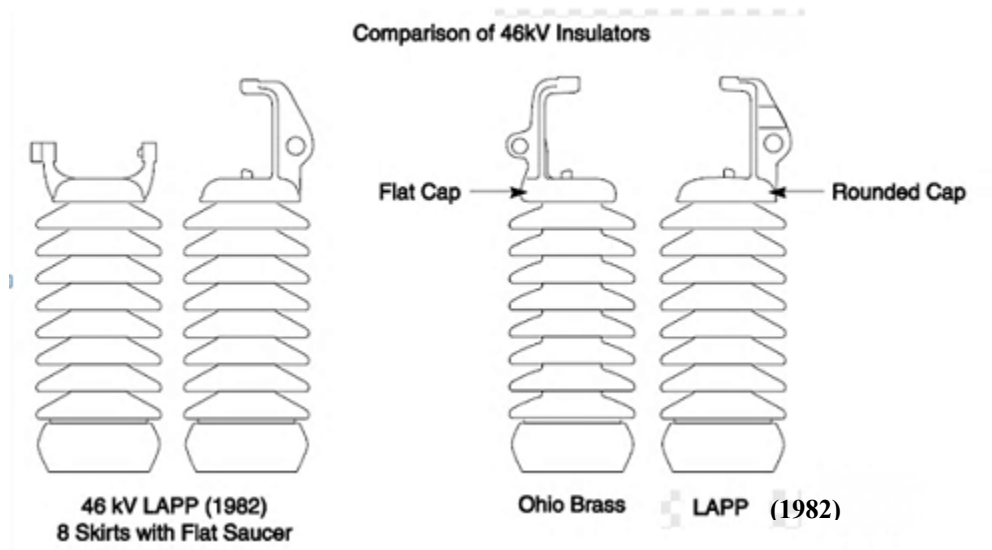
### Insulators In Question

46 kV Post Type (Vertical or Horizontal)	<ul style="list-style-type: none"> <li>• <a href="#">46KV Canadian Porcelain (CP)</a></li> <li>• <a href="#">Canadian Ohio Brass (OB or COB)</a></li> <li>• <a href="#">LAPP (1982)</a></li> </ul>
34.5 kV Post Type 23 kV Post Type 15 kV Post Type (Vertical or Horizontal)	<ul style="list-style-type: none"> <li>• <a href="#">34.5 kV Canadian Ohio Brass (OB or COB)</a></li> <li>• <a href="#">23 kV Canadian Porcelain (CP)</a></li> <li>• <a href="#">15 kV Ohio Brass Three (3) Skirt</a></li> </ul>
25 kV, 27.6 kV, and 46 kV Two Piece Sky Tone Grey	<ul style="list-style-type: none"> <li>• <a href="#">46 kV Canadian Porcelain (CP)</a></li> <li>• <a href="#">46 kV Ohio Brass (OB)</a></li> <li>• <a href="#">25 &amp; 27.6 kV Ohio Brass and Canadian Porcelain (OB) (CP)</a></li> </ul>

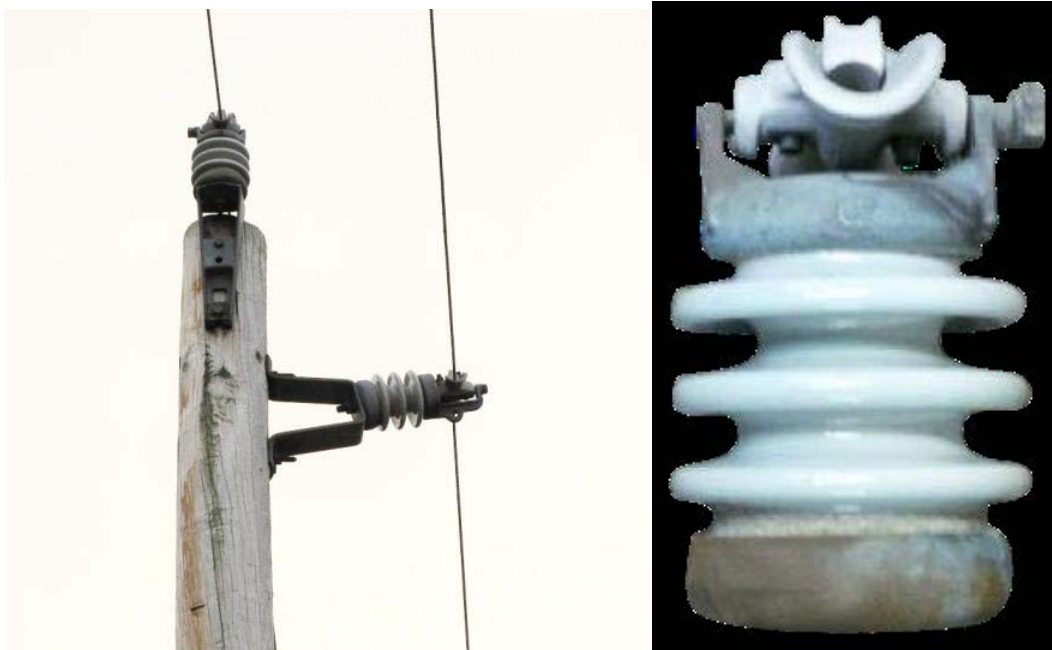
**Figure 1: COB, CP & LAPP (1982) Post Insulators 34.5 & 46 kV**



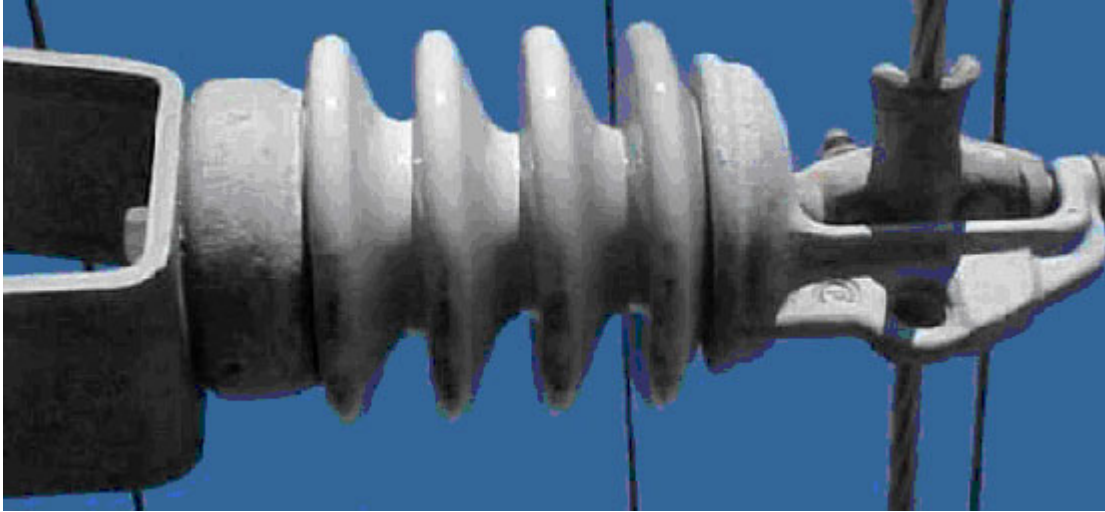
**Figure 1 Continued**



**Figure 2: Ohio Brass 15kV Three (3) Skirt Post Type Insulator**

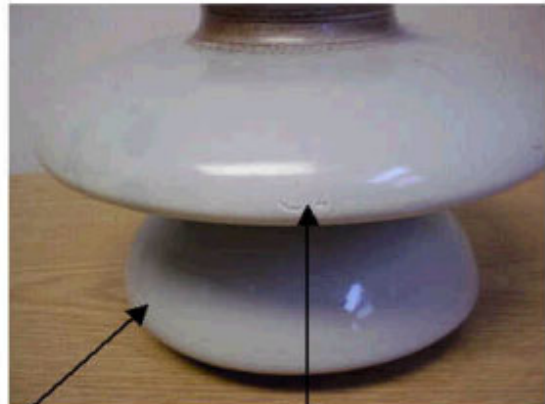


**Figure 3: CP (Canadian Porcelain) 23 kV Post Type Insulator**



### Figure 4 : CP (Canadian Porcelain) Two Piece Insulators 46kV

- Canadian Porcelain are Grey in colour and have reported failures of 98%
- They were manufactured by CP dating 1972 to 1984
- Brown two piece insulators are not failing.



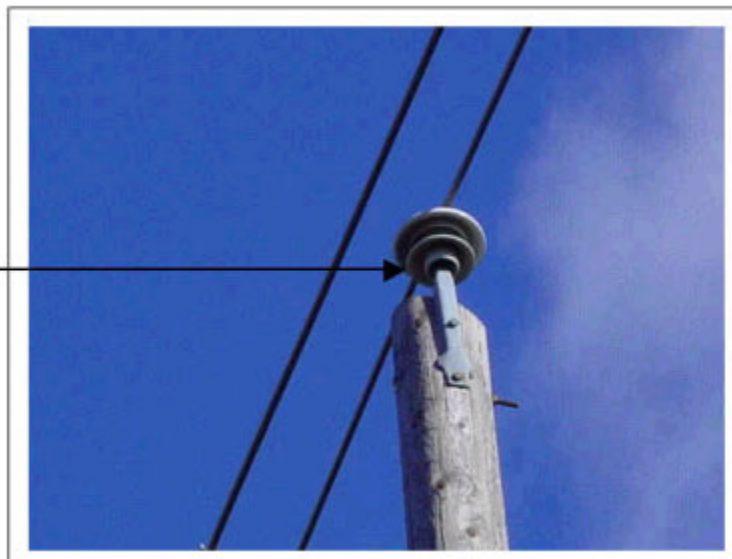
Porcelain base protrudes about one inch below bottom skirt

Canadian Porcelain Insulator can be identified by the lower skirt having a mushroom shape

CP74 (Canadian Porcelain 1974 Manufacturer Stamp)

### Figure 5: 46 kV Ohio Brass Insulators

Ohio Brass can be identified by the porcelain base being 2-3 inches below bottom skirt.





**Figure 6: 25 and 27.6 kV OB & CP Two Piece Porcelain Insulators**

**Canadian Porcelain Two Piece Insulators**

Two piece porcelain insulators have a seam of cement



**Ohio Brass Two Piece Insulators**



## Appendix B - Restricted Insulators

### Insulators In Question

ALL voltages E.P.A.C Post Type Insulators	• <a href="#">RESTRICTED...E.P.A.C Post Type Insulators</a>
Single Porcelain Bell Insulator	• <a href="#">RESTRICTED...Single Porcelain Bell, Dead Ends</a>
Porcelain Spool with Primary Conductor	• <a href="#">RESTRICTED...All Spool Insulators with Primary</a>

**Figure 1: *Restricted E.P.A.C Insulators***

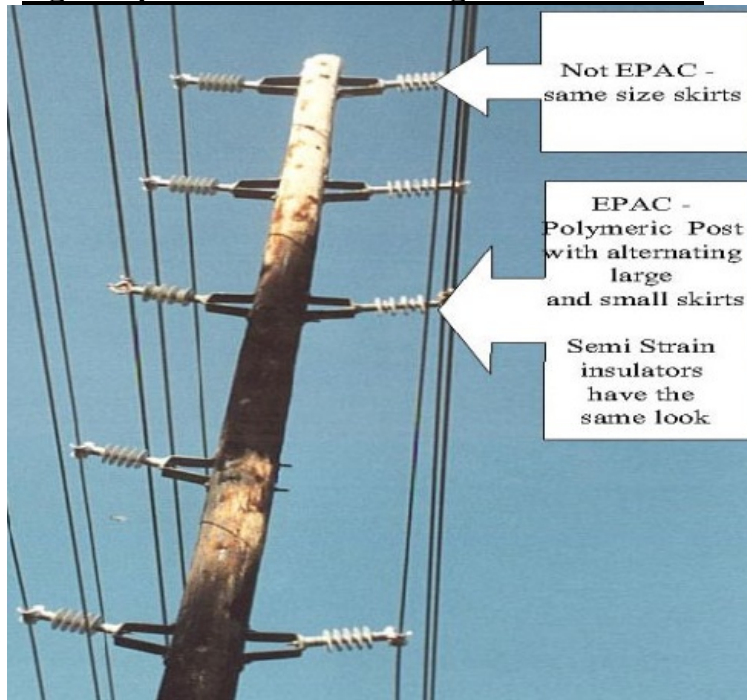
### **Identification of E.P.A.C Post Type Insulators**

- E.P.A.C. Post Type Insulators are identified by their large and small alternating skirts, as shown in Figure 1. Due to the inconsistency in the level of current leakage all insulators up to and including 46 kV must be treated as restricted.
- **Poles where these Insulators are located poles should not be climbed or worked on until Insulators are replaced.**



*ote:* E.P.A.C. Insulators will only show signs of physical damage after complete failure has occurred. There has been no occurrence of mechanical failure with this type of insulator.

### **Signs of pole burns from leaking EPAC insulators**



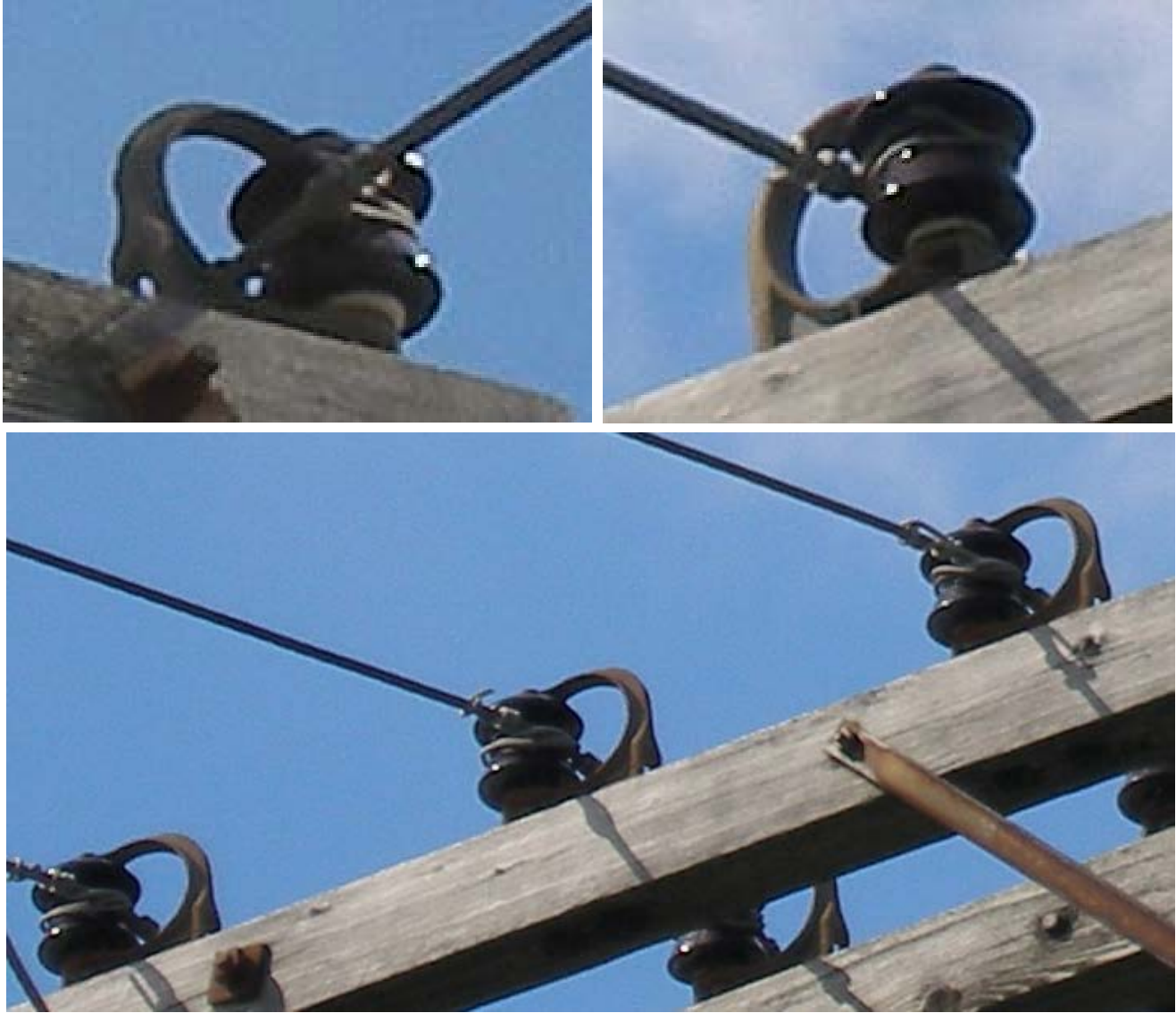
**Figure 2: *Restricted Single Bell & Suspension Dead-End Insulators:***

- Single Porcelain Bell dead-ends are restricted and the poles where Single Bell Insulators are identified should not be climbed. Where one or more energized (Greater than 350 V) conductors are supported by a single porcelain bell or single point insulator.
- **Poles where these Insulators are located should not be climbed or worked on until Insulators are replaced.**



**Figure 3: Restricted Spool with Primary Conductor**

- Spool Insulators are Restricted when they support a Primary Conductor (Greater than 750V). Poles where Primary is supported with these Spools should not be climbed since they pose a potential electrical hazard. The spool may break and the conductor could possibly make contact with the metal pin through the center.
- **Poles where these Spools are located should not be climbed or worked on until Insulators are replaced.**

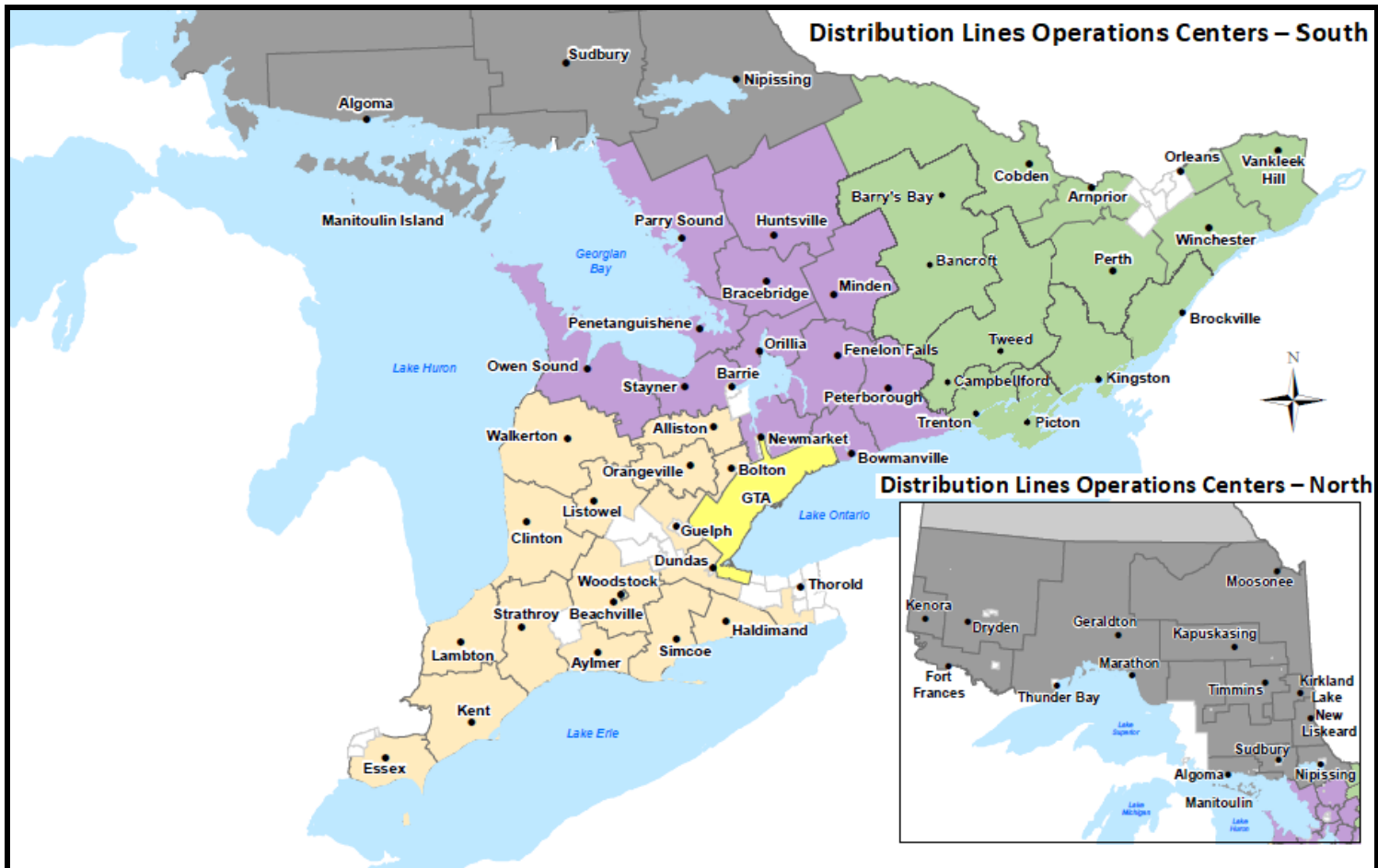


## Appendix C



### Distribution Lines Contact List

Region	Telephone No.	E-Mail Address
Southern	1-800-957-7756 or 226-705-5000	<a href="mailto:SouthernFBCPlanning@HydroOne.com">SouthernFBCPlanning@HydroOne.com</a>
GTA	705-797-4172	<a href="mailto:Zone8Scheduling@HydroOne.com">Zone8Scheduling@HydroOne.com</a>
Central	1-888-238-2398 or 705-728-5017	<a href="mailto:CentralFBCplanning@HydroOne.com">CentralFBCplanning@HydroOne.com</a>
Eastern	1-888-332-2249 or 613-267-2154	<a href="mailto:EastZoneScheduling@HydroOne.com">EastZoneScheduling@HydroOne.com</a>
Northern	1-888-835-9444 or 705-566-8955	<a href="mailto:NorthernFBCPlanning@HydroOne.com">NorthernFBCPlanning@HydroOne.com</a>





**Appendix D – Division of Costs Table**  
August 2018

**Work Requests for Joint Use Parties - Locations with Restricted/Porcelain Insulators - Division of Costs Decision Table**

Insulator Classification?	Who owns the JU Pole?	Who is initiating the work?	What Type of Work is being done?	Who pays for What?
<b>RESTRICTED</b>	Hydro One or Reciprocal Partner	Reciprocal Partner, Non Reciprocal Partner, Municipality, Third Party	Work on <b>EXISTING</b> attachments, or installation of <b>NEW</b> attachments, including overlash.	Hydro One pays all costs.
<b>PORCELAIN</b>	Hydro One or Reciprocal Partner	Reciprocal Partner, Non Reciprocal Partner, Municipality, Third Party	Work on <b>EXISTING</b> attachments.	Hydro One pays all costs to provide work protection (i.e.. conductor-catchers), or may decide to replace insulators.
<b>PORCELAIN</b>	Reciprocal Partner	Reciprocal Partner	Installation of <b>NEW</b> attachments, including overlashing.	Hydro One pays all costs to provide work protection (i.e.. conductor-catchers), or may decide to replace insulators.
<b>PORCELAIN</b>	Reciprocal Partner	Third Party	Installation of <b>NEW</b> attachments, including overlashing.	Hydro One pays for materials. Third Party pays labour and T&WE.
<b>PORCELAIN</b>	Hydro One	Reciprocal Partner, Non Reciprocal Partner, Municipality	Installation of <b>NEW</b> attachments, including overlashing.	Hydro One pays for materials. Reciprocal Partner, Non Reciprocal Partner, Municipality pays labour and T&WE.

## **Memorandum: Signs and Attachments on Hydro One Poles in Municipalities**

July 2008

Attention Municipal Joint Use Partner:

This Memo is to inform you of the requirements surrounding signs and attachments to Hydro One poles located within Municipalities jurisdictions.

The main purpose for these requirements is to protect employees and the public. Safety is No. 1 and nobody wants to get injured. Recently there was an incident where a Hydro One employee cut his arm on a very sharp metal 911 sign, which was attached to a Hydro One pole.

Under the electricity act nobody is permitted to install signs or attachments to poles without proper authorization.

### **Electricity Act – Section 47**

*Affixing signs, etc.*

**47.** *Every person who, without the consent of a transmitter or distributor, nails or otherwise attaches anything, or causes anything to be nailed or otherwise attached to or upon any wooden transmission or distribution pole of the transmitter or distributor is guilty of an offence and on conviction is liable to a fine of not more than \$200. 1998, c. 15, Sched. A, s. 47.*

Within Municipal boundaries Hydro One does not allow any signs on poles from 3rd parties unless they are approved by the Municipality which has an executed "Municipal Attachment" agreement with Hydro One. The installation of any third party attachments other than those of the Municipality will require municipal approval prior to installation. Any such attachment made will be under the care and control of the Municipality and will follow the conditions outlined in the executed agreement and the Contract Administration Guide (CAG).

Some of the guidelines around Municipality attachments are listed below which are taken from the CAG, Section 6.0 Item 6.1.

- *The Municipalities Attachments can include the following:*

*mast arms, luminaries, supply conductors, relays and other equipment required to operate a street lighting system  
traffic signal, power and control cables, junction and splice boxes and any other equipment and/or devices normally required for the operation of traffic signals  
service attachments  
decorative lighting  
standards (banners down the side of poles)  
seasonal decorations.*

- *Metal signs presenting a thin knife-like edge will not be allowed on HONetworks' poles. These signs represent significant opportunity for injury if not removed when working aloft and are to be avoided.*



- *Location on frequently climbed poles such as recloser, switch or transformer poles is to be avoided if possible, although it is recognized that for roadway lighting, installation on these poles may be required. Subsidiary apparatus poles are the preferred alternatives.*
- *Attachments that do not have access by aerial devices shall not be allowed on poles.*
- *Banners and strings of lights extending from one pole to another, typically across the road allowance will not be allowed. These installations can be accommodated by the municipality installing separate poles with the proper back-guying to accommodate the banner and strings of lights.*
- *Standards (banners down the side of poles) must be detachable at the bottom to minimize their impact on climbing the pole and will be required to have a proper mounting bracket at the top to securely attach to the pole. The mounting bracket should be sufficiently heavy to support the banner under all weather conditions and wide enough not to present a knife like edge in case of a falling accident. A rounded bracket is preferred.*
- *Attachments must be mounted on the roadside of the Joint Use Pole to maximize safe climbing space. Vertical Attachments such as conductors, cables, and conduit shall be grouped together such that a minimum continuous surface of 60% of the Joint Use Pole circumference shall remain clear for climbing.*

We hope this helps to clarify issues regarding Signs and/or attachments on Hydro One Poles within Municipality boundaries.

Please review and if you have any questions or concerns, please don't hesitate to call.

Thanks,

**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
Reg.Walker@hydroone.com

**Hydro One Networks Inc.**

Planning and Operating  
Asset Optimization  
483 Bay St. Toronto, On M5G 2P5

# HYDRO ONE JOINT USE MEMO

July 17, 2009

To: All Hydro One Joint Use Partners

**Subject: Joint Use Relocations and Like for Like Replacement**

The purpose of this memo is to clarify the requirements and direction for Joint Use partners under Regulation 22/04 where a pole or line relocation is involved and the Joint Use partner is asked to relocate their facilities.

Relocations may be deemed as “Like for Like” under Regulation 22/04 and therefore does not require an application by the Joint Use partner for approval when asked to relocate. Under Reg 22/04, in order for a relocation to qualify as “Like for Like”, the work must not cause changes in line tensions, guy heights, lead distances, mass or centerline, and maintains the existing electrical and mechanical characteristics. An example where “Like for Like” replacement conditions may qualify is when Joint Use is involved under emergency pole replacement or Hydro One’s pole replacement program. Multiple pole replacements will qualify as “Like for Like” for the Joint Use partner providing the centre line is not changing and the Joint Use partners attachment characteristics remain the same. Multiple pole replacements in the same centre line for Hydro One do not qualify as “Like for Like”

Joint Use relocations where any changes occur such as; centre line, line tensions, attachment size, guy leads, height of attachment, etc. must follow the Joint Use process for having the proposed changes approved by the line owner using an “Application for Licensed Occupancy of Poles” and ensuring the proper permits are created and approved for the installation along with the required construction verification procedures. Where Hydro One is relocating their facilities to a new location, E.g. Moving off road to on road, the Joint Use partner will be provided the option to purchase the existing pole line providing they are deemed safe and suitable by Hydro One to sell to the Joint Use partner.

Please ensure all staff and contractors involved with relocations of Joint Use facilities on Hydro One poles are made aware of this direction. Any questions or concerns regarding this information can be directed to John Boldt or Reg Walker at the numbers listed below.

Sincerely,

**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
Reg.Walker@hydroone.com

# HYDRO ONE JOINT USE MEMO

Date: November 15, 2011

To: **All Hydro One Networks Inc's. Joint Use Partners**

**Subject: Anchor Separations between Hydro One and 3<sup>rd</sup> Parties**

The purpose of this memo is to clarify to all Hydro One Networks Inc's. ("HONI") Joint Use Partners about the separation that is required around all Hydro One anchors.

All applications submitted by any 3<sup>rd</sup> party or any alterations to existing plant require information as to where the 3<sup>rd</sup> party is going to place all necessary equipment, including anchoring. When HONI is installing a new pole or replacing an existing pole, HONI needs to take into consideration where the 3<sup>rd</sup> party is going to place their required anchoring. If this is not done, this may force the 3<sup>rd</sup> party to install anchors outside of HONI anchors, creating crossing guys, which are undesirable.

There MUST be a 1.5 meter circular area of undisturbed soil surrounding all HONI anchors.

This means that the 3<sup>rd</sup> party needs to communicate with HONI to verify what lead distances they require so that HONI can install its anchors in the proper location. This will allow the 3<sup>rd</sup> party to install its anchors where required and never encroach within the 1.5m area. All parties requiring anchoring should have the locations clearly staked and identified on all work packages regardless of what is driving the work.

The maximum size of guy steel that is allowed for use on HONI structures is 10M (3/8").

Any questions or concerns regarding this information can be directed to those listed below.

<p><b>Reg Walker</b> <b>Senior Programs Engineer Officer</b> (877) 647-2872 Ext. 2035 Reg.Walker@hydroone.com</p>
---

# Memorandum

December 10, 2018

To: All Joint Use Partners (Licensees and Pole Owners)  
From: Hydro One Networks Inc.

**Subject: Placement of Attachments and Working on Attachments on Poles containing Collectors and Repeaters/Routers - Update**

**This memo updates and replaces the Hydro One Memorandum dated January 20, 2017.**

The updated change is to include additional collectors and repeaters/routers to the existing Hydro One Networks Inc (“HONI”) network.

HONI is issuing this letter due to Health Canada's radiofrequency exposure guidelines, commonly known as Safety Code 6 (2015) and work to be carried out near HONI collectors and repeaters/routers which are used to wirelessly collect data.

In keeping with Safety Code 6 (2015), and the recommended best practices for ensuring compliance with the maximum exposure levels for controlled and uncontrolled environments, HONI requires all of its joint use partners to follow the procedures noted in this letter. If you need to carry out any work on any of your existing attachments **within 20 or 32cm** of HONI collectors and repeaters/routers, you must first contact HONI to request disconnection of the relevant collectors and repeaters/routers at least **48 hours** prior to carrying out the work. See Appendix B to this letter for HONI's applicable contact information, or after regular business hours call 1-800-434-1235 (option 4) and advise an emergency disconnect is required. HONI will disconnect the relevant collectors and repeaters/routers at no cost.

If you are installing new attachments on HONI poles or on poles owned by others within **20 or 32cm** of a HONI collectors and repeaters/routers, HONI will disconnect the relevant collectors and repeaters/routers and the cost of such disconnection will constitute make-ready work.

For your information, HONI's collectors and repeaters/routers are specifically illustrated on the attached Appendix A.

If you wish to discuss this further, please contact us at [ExternalJointUse@HydroOne.com](mailto:ExternalJointUse@HydroOne.com) or at the number provided below.

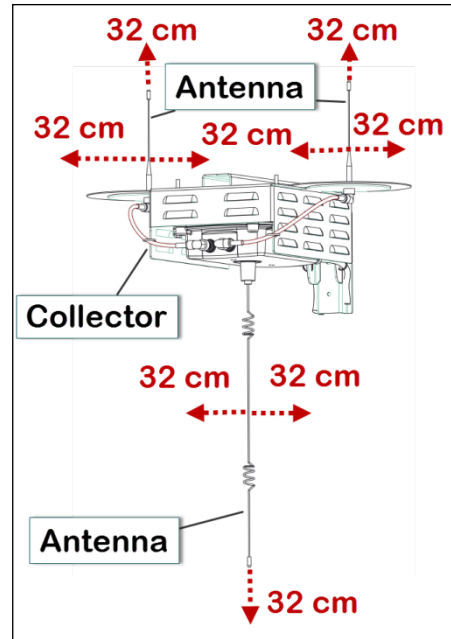
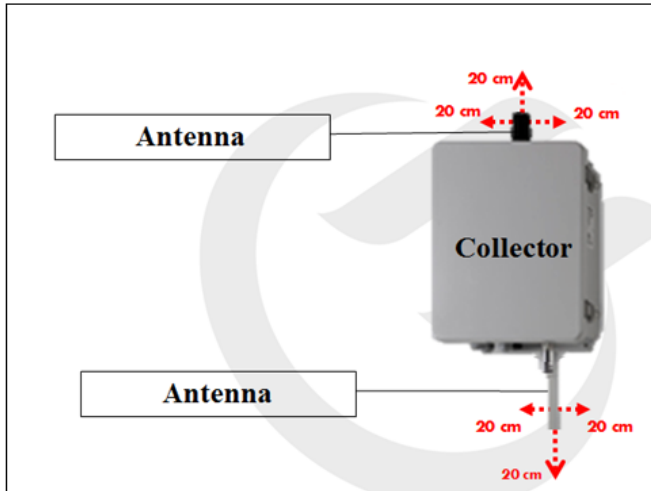
Yours truly,

**Reg Walker**  
**Joint Use Officer**  
(877) 647-2872 Ext. 2035  
Reginald.Walker@HydroOne.com

# Appendix A

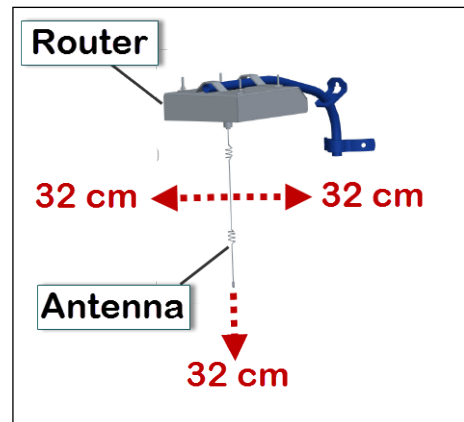
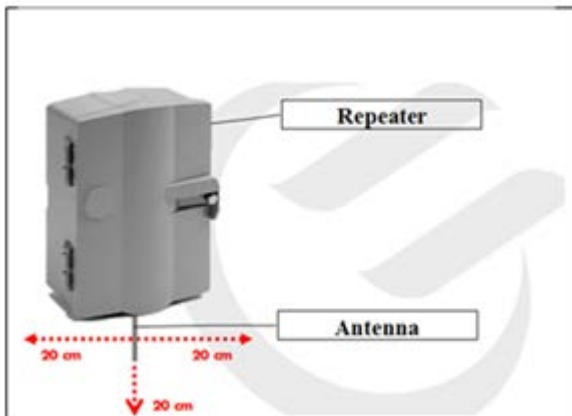
## Collectors

### Required Clearances For Working Near Collectors



## Repeater/Router

### Required Clearances For Working Near Repeaters/Routers

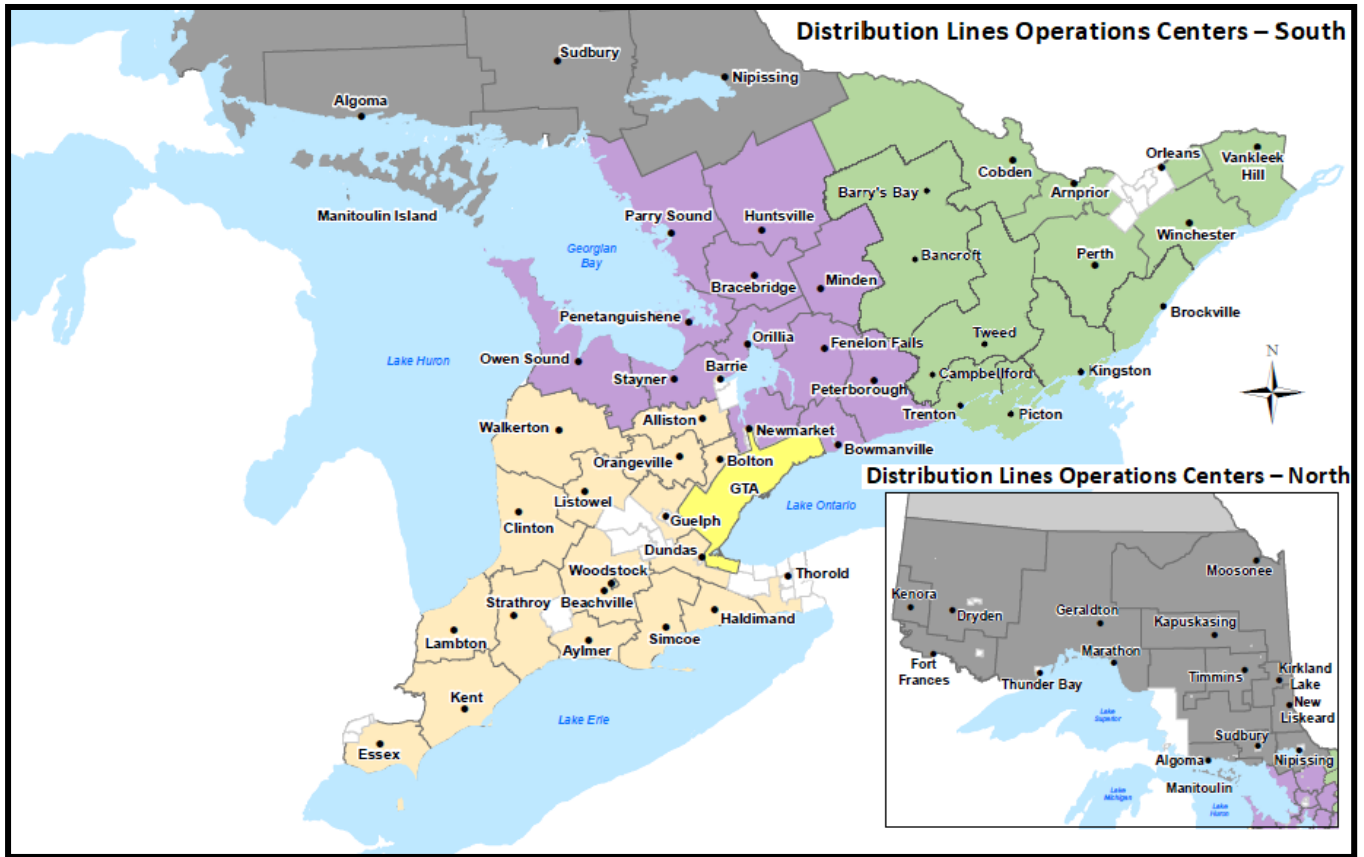


## Appendix B



### Distribution Lines Contact List

Region	Telephone No.	E-Mail Address
Southern	1-800-957-7756 or 226-705-5000	<a href="mailto:SouthernFBCPlanning@HydroOne.com">SouthernFBCPlanning@HydroOne.com</a>
GTA	705-797-4172	<a href="mailto:Zone8Scheduling@HydroOne.com">Zone8Scheduling@HydroOne.com</a>
Central	1-888-238-2398 or 705-728-5017	<a href="mailto:CentralFBCplanning@HydroOne.com">CentralFBCplanning@HydroOne.com</a>
Eastern	1-888-332-2249 or 613-267-2154	<a href="mailto:EastZoneScheduling@HydroOne.com">EastZoneScheduling@HydroOne.com</a>
Northern	1-888-835-9444 or 705-566-8955	<a href="mailto:NorthernFBCPlanning@HydroOne.com">NorthernFBCPlanning@HydroOne.com</a>



Revised: Jan 2021

# NEWSFLASH

## Hydro One Pole Banding

April 2007

Attention Joint Use Partner:

Hydro One has changed 2007 pole banding protocols based on concerns that several customers had inquired about poles close to their home or business that are marked with **Hydro One Structural Hazard** yellow banding. (Figure 1) Customers are concerned that there could be an immediate hazard with the banded poles.

For 2007 the yellow banding has been changed. The banding now has the Hydro One symbol and the term "Structural Hazard" has been removed. (Figure 2)

**Figure 1 - Old Banding**



**Figure 2 - New Banding**

The replacement Banding will be yellow and marked only with the Hydro One name and logo.



As a reminder, the Hydro One 2007 Pole Banding Protocol is below:

**DOUBLE YELLOW Band** indicating **Emergency Pole Replacement**.

**Criteria for double yellow banding: (any one of):**

- 1/2" or less shell remaining of sound wood at each of the test drill locations.
- The **shell rot** at ground-line is greater than **1 1/4 inch average** all around the pole.
- Within the first 6' above ground, a "chunk" greater than **30%** of the cross section is missing. (This would normally be the result of an impact from a snow plow or farm equipment).
- The pole is in a condition considered to be a severe and immediate risk to public safety. (Example, a broken pole, or a pole leaning severely with a transformer attached to it.)

**SINGLE YELLOW Band** will be installed to indicate a **condemned pole that will be changed in the future**.

**Criteria for single yellow banding:**

- If the pole has less than 2" average shell thickness, or has "SEVERE" damage, or Both



**White Banded Poles:**

A few isolated Hydro One areas used the "white pole band" to identify non-safety affecting maintenance items. White bands will disappear as the defects are corrected. If your staff encounter a white banded pole and want to alleviate any issues with regards to safety, please have them call their local Hydro One office regarding a particular pole. A qualified Hydro One field representative will confirm whether the specific pole is "safe to climb" or not.

We hope this helps to clarify the situation regarding 2007 Pole Banding Protocol.

Please review and if you have any questions or concerns, please don't hesitate to call.

Thanks,

**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
Reg.Walker@hydroone.com

# HYDRO ONE JOINT USE ALERT

July 15, 2013

## UPDATED KMS POLE ALERT

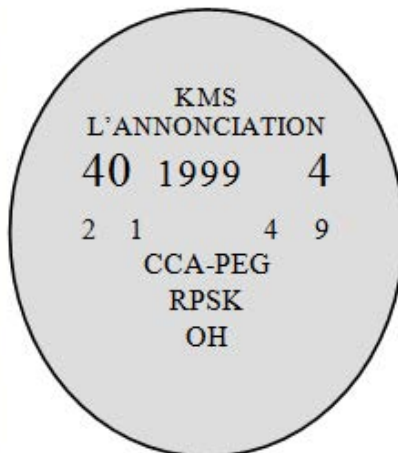
This is an update of the previous Hydro One Networks Inc. (“Hydro One”) memo dated November 30, 2010. The affected species has been increased to include Jack Pine poles, as well as the original Red Pine pole species, between the years 1997 and 2007. Because traditional pole inspection and testing programs do not reliably detect the presence and extent of internal rot in KMS Red and Jack Pine poles, hammer testing will no longer be performed. A climbing restriction will now apply to all Red and Jack Pine KMS poles. Hydro One has also included all Red and Jack Pine poles (1997 to 2007) in its Pole Replacement program.

### Equipment Failure Alert – Wood Poles

Hydro One has encountered a potential safety issue in relation to a defined set of poles manufactured by one of Hydro One’s suppliers. The potential safety issue relates to Hydro One’s identification of premature internal rotting in a limited number of poles throughout the Province. That rotting may compromise the integrity and structural stability of the affected poles. A description of the affected poles is provided below.

### Identification of Affected Poles

The affected poles include all Red and Jack Pine variety poles manufactured by Bois KMS (GMI) Ltée between the years 1997 and 2007. These poles can be identified visually by their pole stamp, which contains the wording “KMS L’ANNONCIATION” at the top portion of the stamp. An example of the KMS Pole Stamp is provided below. All other poles manufactured by Bois KMS (GMI) Ltée are unaffected as far as Hydro One is aware.



**Hydro One Networks Inc.**

Planning and Operating  
Asset Optimization  
483 Bay St. Toronto, On M5G 2P5



**Suggested protocol**

Hydro One is continuing to replace all the poles identified above. If work is required on a KMS Red or Jack Pine pole manufactured between the dates 1997 and 2007, please contact the Hydro One Operations Centre in your area to have the pole scheduled for replacement.

(See Appendix 1 – Distribution Provincial Lines Contact List).

Should you have any questions, please do not hesitate to contact:

**Reg Walker**

**Senior Programs Engineer Officer**

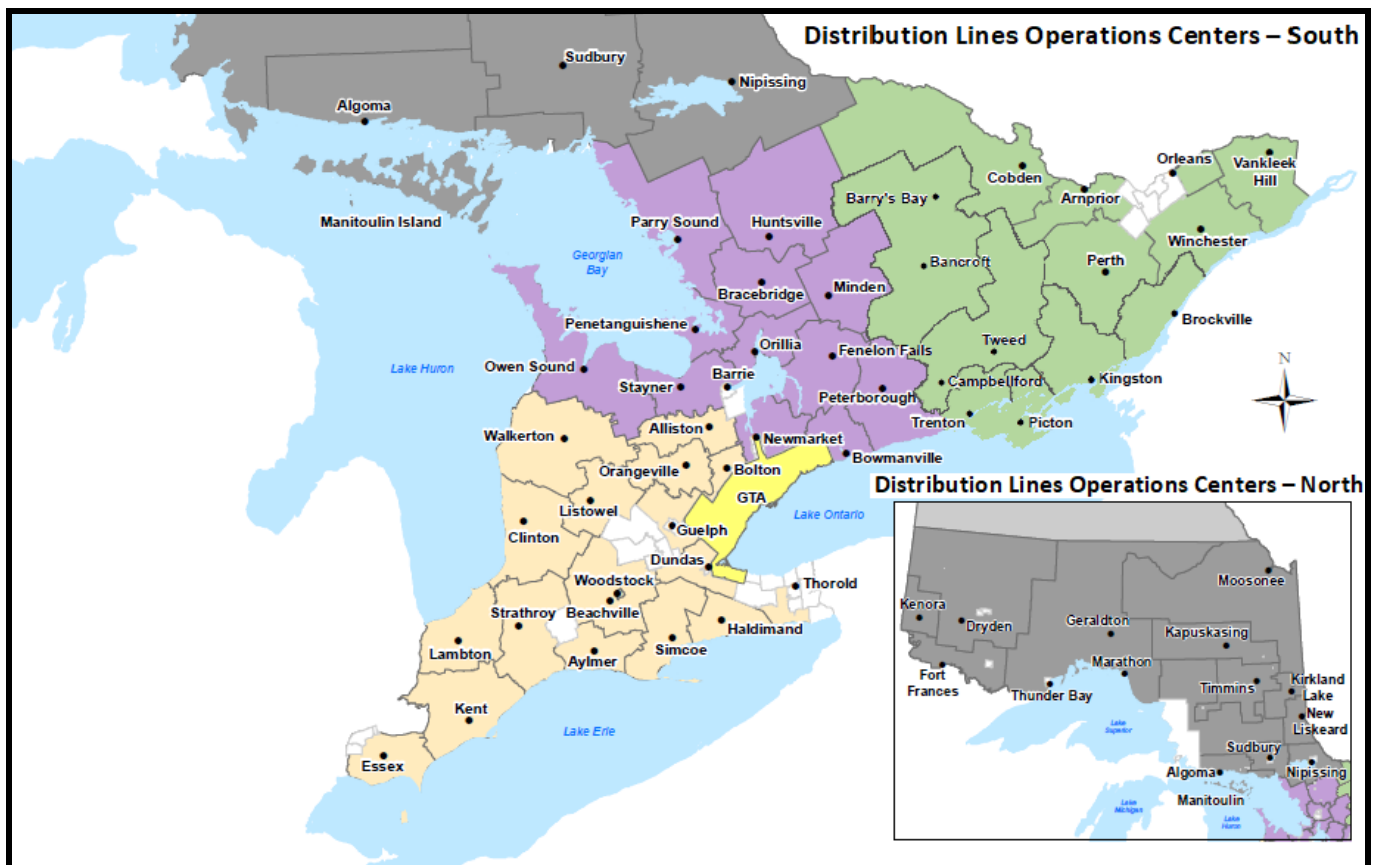
(877) 647-2872 Ext. 2035

[Reg.Walker@hydroone.com](mailto:Reg.Walker@hydroone.com)



**Distribution Lines Contact List**

Region	Telephone No.	E-Mail Address
Southern	1-800-957-7756 or 226-705-5000	<a href="mailto:SouthernFBCPlanning@HydroOne.com">SouthernFBCPlanning@HydroOne.com</a>
GTA	705-797-4172	<a href="mailto:Zone8Scheduling@HydroOne.com">Zone8Scheduling@HydroOne.com</a>
Central	1-888-238-2398 or 705-728-5017	<a href="mailto:CentralFBCplanning@HydroOne.com">CentralFBCplanning@HydroOne.com</a>
Eastern	1-888-332-2249 or 613-267-2154	<a href="mailto:EastZoneScheduling@HydroOne.com">EastZoneScheduling@HydroOne.com</a>
Northern	1-888-835-9444 or 705-566-8955	<a href="mailto:NorthernFBCPlanning@HydroOne.com">NorthernFBCPlanning@HydroOne.com</a>



Revised: Jan 2021

# Joint Use MEMO

## Hand Screw Anchors

Sept 2007

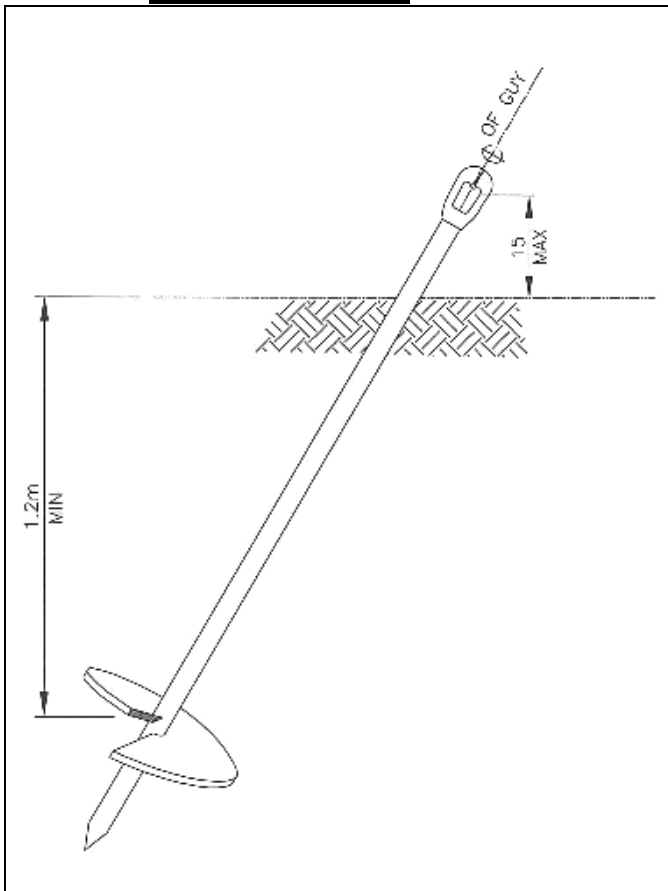
### Attention Joint Use Partner:

It has come to our attention that hand screw anchors have been installed as a permanent solution for anchoring requirements.

This anchor consists of a single helix with an integral rod and eye. It can be installed by hand in relatively soft soils.

The hand screw anchor as shown in DL5-202 is limited to light loads such as a secondary service.

**Figure 1 - DL5-202**



In our current AGREEMENT FOR LICENCED OCCUPANCY OF POWER UTILITY DISTRIBUTION, all parties have agreed to the following subsection under Guying and Anchoring within Schedule 'A'.

*"Each party shall provide guys and anchors with sufficient capacity to support its own Attachments and shall ensure that any such guys (except those used to support Attachments for which Permits authorizing Joint Use were in force prior to the Effective Date) are a minimum 3/8 of an inch thick."*

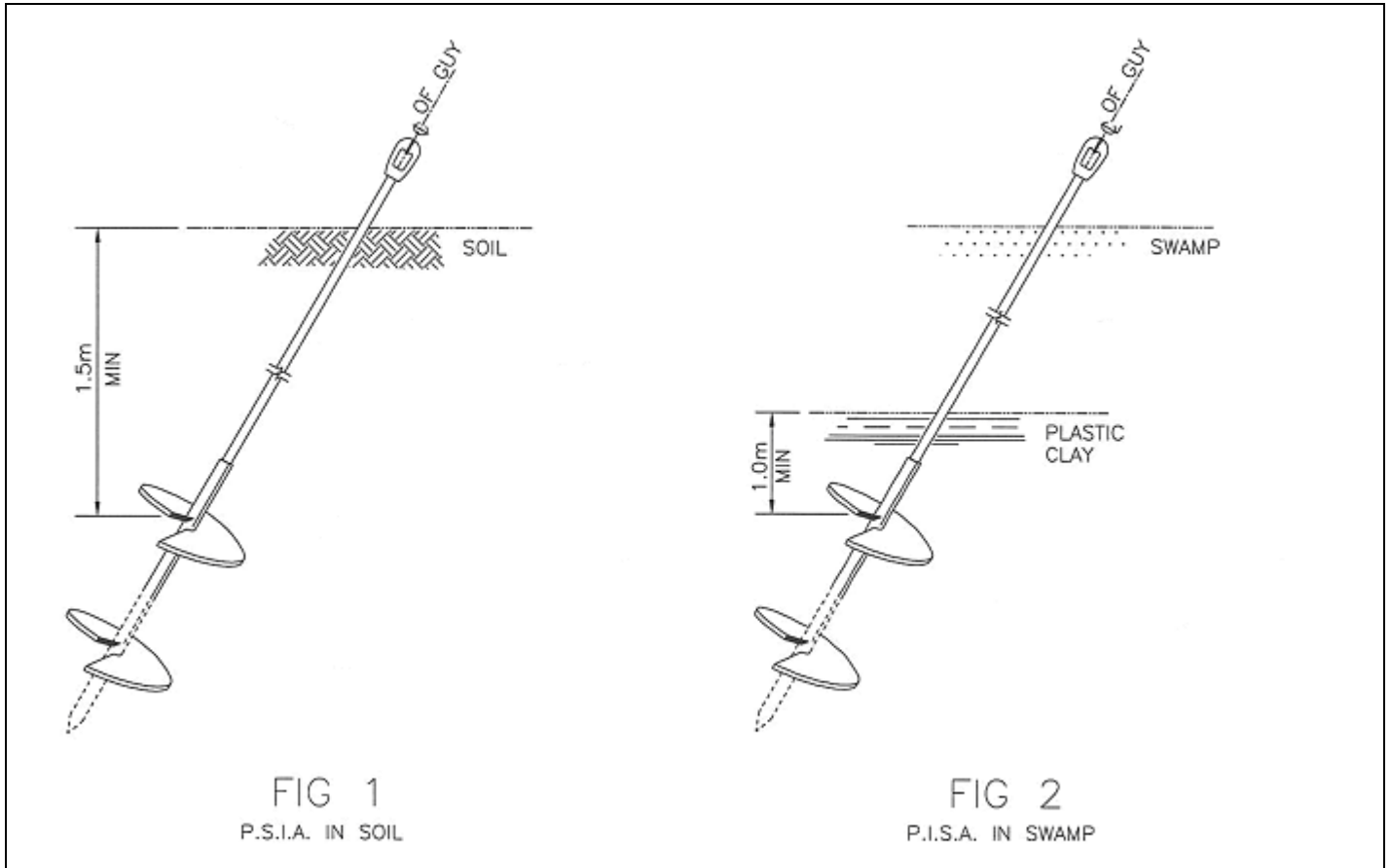
Hand Screw Anchors are not an adequate solution for anchoring since the hand screw anchor does not have the required resistance to high levels of tension. The power installed screw anchor must be used instead of the hand screw anchor.

Please make sure that all anchors are of sufficient quality to hold the tension required, since this is a danger for all Joint use partners.

Power Installed Screw anchors are the preferred standard in soil. This type of anchor consists of a single or double helix which is normally installed with a radial boom derrick (RBD).

The installation of this anchor shall be as shown on DL5-201.

**Figure 2 - DL5-201**



We hope this helps to clarify the situation regarding Hand Screw Anchors.

Please review and if you have any questions or concerns, please don't hesitate to call.

Thanks,

**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
Reg.Walker@hydroone.com

# HYDRO ONE JOINT USE MEMO

October 5<sup>th</sup>, 2018

**To: All Telecom Companies involved in Joint Use**

**Re: Hydro One Networks Inc. (HONI) is changing its line clearing Program to a new vegetation management strategy - Optimal Cycle Protocol**

As of 2018, HONI has implemented a new vegetation management strategy called **Optimal Cycle Protocol**, which will transition HONI to a three year cycle. This new strategy will remain in effect until further notice.

The primary purpose of this program is to improve public safety and reliability; any work that doesn't facilitate providing an immediate benefit to safe and reliable power distribution is out of scope. This approach is different from our (historical) maintenance line clearing practice, as it will not, in many cases, establish clearance for the licensee's attachments.

Routine cyclical line clearing as required to establish clearance for the licensee's attachments, shall be the sole responsibility of the licensee. The licensee and/or its contractor shall undertake the additional trimming or removal of trees, underbrush and any other items as required by the licensee for the licensee's purposes in the communication space, having regard to all safety, technical and engineering concerns. Nothing in this Memo excuses the licensee from any liability in the event of damage to HONI's plant. Any Optimal Cycle Protocol work and associated costs, such as trimming trees or removing vegetation that has grown into HONI's distribution energized lines, will be performed and borne by HONI. In situations where vegetation has grown into the distribution energized lines, **the licensee must contact HONI** at the number as indicated below on the Distribution - Provincial Lines Contact List.

If in the future, HONI resumes line clearing practices as determined in HONI's sole discretion to be necessary for maintenance purposes on existing joint use poles, the licensee will pay a negotiated monetary contribution towards maintenance line clearing of joint use poles, including incremental costs to maneuver in and around licensee's attachments, removal and clean-up of storm damaged trees - and such costs would be billed to the licensee on a separate invoice.

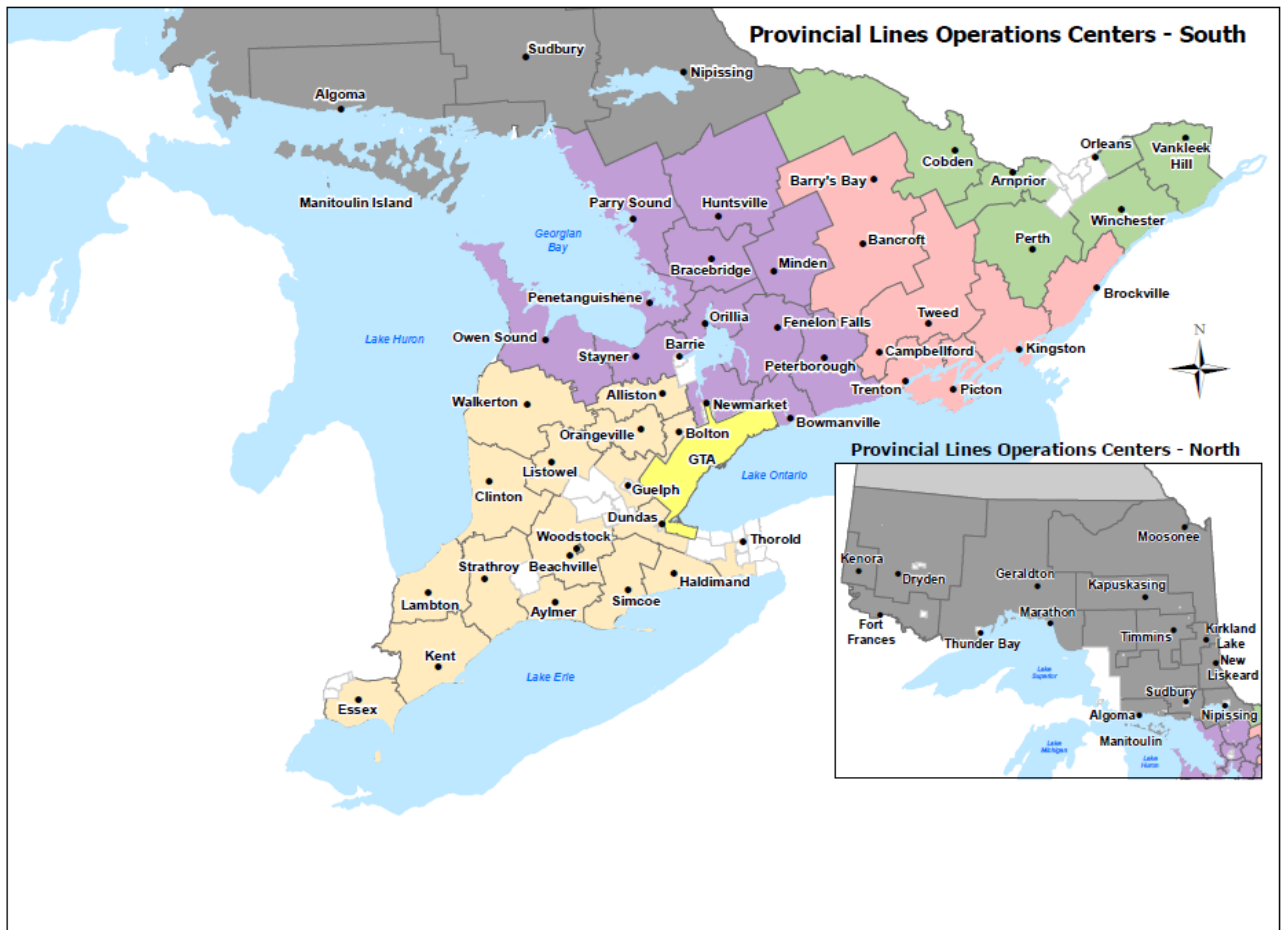
If you have any questions or concerns please email [externaljointuse@hydroone.com](mailto:externaljointuse@hydroone.com) or contact below:

**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
[Reg.Walker@hydroone.com](mailto:Reg.Walker@hydroone.com)



### Distribution - Provincial Lines Contact List

Region	Telephone No.	Fax No.	E-Mail Address
South	1-800-957-7756 or 519-537-7172	519-537-5081	<a href="mailto:WesternFBCPlanning@hydroone.com">WesternFBCPlanning@hydroone.com</a>
GTA	705-797-4172		<a href="mailto:Zone8Scheduling@hydroone.com">Zone8Scheduling@hydroone.com</a>
Central	1-888-238-2398 or 705-728-5017	705-727-4803	<a href="mailto:CentralFBCplanning@hydroone.com">CentralFBCplanning@hydroone.com</a>
Eastern	1-866-646-4619	613-967-3589	<a href="mailto:FBC.Belleville@hydroone.com">FBC.Belleville@hydroone.com</a>
Eastern	1-888-332-2249 or 613-267-2154	613-267-5406	<a href="mailto:EastZoneScheduling@hydroone.com">EastZoneScheduling@hydroone.com</a>
Northern	1-888-835-9444 or 705-566-8955	1-866-269-6897	<a href="mailto:Zone6Scheduling@hydroone.com">Zone6Scheduling@hydroone.com</a>



**Hydro One Networks Inc.**

Planning and Operating  
Asset Optimization  
483 Bay St. Toronto, On M5G 2P5



# HYDRO ONE JOINT USE MEMO

**Date:** August 31, 2011

**To:** All Hydro One Networks Inc's. Joint Use Partners

**Subject: Attaching to a Composite Pole**

The purpose of this memo is to identify to all Hydro One Networks Inc's. ("HONI") Joint Use Partners that HONI has approved and is now using composite poles in certain locations. All parties also need to be aware that special equipment and materials are required when working and attaching to these poles.

The situations where composite poles are most likely to be encountered are; sensitive environmental areas, wetlands (such as swamps), and areas prone to wood pecker damage.

The required drill bit to be used on a composite pole is a Hollow Core Fiberglass Pole Bit. All Bolts cannot be tightened with an impact tool as over tightening of the bolts will compress the circular form of the pole. When installing hardware on composite poles the manufacturer recommends that the nuts are tightened to achieve a torque value between 30 - 50 ft-lb's (4.1 - 6.0kgf/m).

It is the Joint Use Partners' responsibility to verify that all materials utilized to attach to a HONI pole are compatible with the manufacturers' composite pole applications and will not damage or affect the integrity of the composite pole.

Any questions or concerns regarding this information can be directed below.

<p><b>Reg Walker</b> <b>Senior Programs Engineer Officer</b> (877) 647-2872 Ext. 2035 Reg.Walker@hydroone.com</p>
---

# HYDRO ONE JOINT USE MEMO

October 1, 2018

To: All Non-Reciprocal Telecom Partners

## **Subject: Certificate of Deviation – Certified List and Process**

This memo is to inform all Joint Use partners that as per the ESA Distributer Bulletin DB-02/16, Hydro One Networks Inc (“HONI”) **as of October 1<sup>st</sup> 2018**, will accept a certified list of deviations if approved by a P. Eng under the following conditions:

1. Over lashing existing strand only
  - a. When adding a strand, current standard must be met (even if they have an existing strand on the pole)
2. Due to ground clearances, their strand cannot be lowered to meet current clearance requirements.
3. Pole is not being replaced
  - a. Where the pole is being replaced, current clearance standards must be met.

### **Acceptable Deviations:**

1. Neutral wires that sag below the line of sight of communication attachments when:
  - a. Span length is less than 75m
  - b. Neutral wire is part of a multi-grounded neutral system
  - c. Neutral wire is measured at maximum sag (50°C)
  - d. Communication is measured at thermal sag (15°C)
  - e. Closest distance between the neutral and communications is greater than 0.3m under the above conditions
2. Secondary wires that sag below the line of sight of communication attachments when:
  - a. Neutral wire is part of a multi-grounded neutral system
  - b. Secondary wire is measured at maximum sag (80°C)
  - c. Communication is measured at thermal sag (15°C)
  - d. Closest distance between the secondary and communications is greater than 0.3m under the above conditions
3. The following items at the pole if they are at least 0.6m above the highest communications strand:
  - a. Secondary Risers
  - b. Drip loops of secondary cables
  - c. Mechanical protection on primary cables
4. Single damaged or missing down grounds (consecutive locations require to be fixed prior to lashing)
5. Streetlights that may or may not have been bonded to the neutral and are within 1.0m of the highest strand.

Only the deviations listed above will be allowed, and they must be listed on the attached Deviation spreadsheet, approved by the P. Eng and submitted as part of the Application for Licensed Occupancy of Poles (“Application”). An example of an acceptable deviation list that has been approved by a P. Eng is in [Appendix A](#) of this memo.

**Deviations will not be allowed if:**

- **the existing strand can be lowered or the neutral raised,**
- **if the pole is being changed due to size, class or safety issues, or**
- **if a new strand is to be attached.**

The Application has been revised to allow for the reporting of deviations. Refer to [Appendix B](#) for the latest blank Application form and Application example. When completing the Application where it asks for # of poles, since the deviation could be in the span between 2 poles, both poles must be included. For example:

1. Separation at pole concern about secondary drip loop. (1 pole)
2. Neutral Line of Sight in span (1 span = 2 poles)
3. Secondary Line of Sight in span (1 span = 2 poles)

As per previous memos in regards to Regulation 22/04 minimum application requirements, all Applications when submitted to HONI must be Regulation 22/04 compliant. If not the Applications will be returned. All Applications to HONI need to be sent to the proper local field business centre responsible for the area of the project refer to [Appendix C - Distribution - Provincial Lines Contact List](#). If a more detailed map is required, there is an interactive map available at [www.hydroone.com](http://www.hydroone.com), click on “Outage Map”, and ensure that “Service Territory Overlay” is selected.

If you need additional information, please email [ExternalJointUse@HydroOne.com](mailto:ExternalJointUse@HydroOne.com)

Yours truly,

**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
[Reg.Walker@hydroone.com](mailto:Reg.Walker@hydroone.com)

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## Appendix A – Certified List of Deviations

### Third Party Company Logo

#### Certificate of Deviation Approval for Non-Standard Items

This certifies that the below list of deviations from CSA standards will not materially affect the safety of any person or property, if not resolved immediately. These items can be resolved over time through maintenance, pole line rebuild and street light replacement programs.

The items covered by this Certificate are deemed to not be an imminent safety hazard for workers that are “qualified” to work in the communications space on poles, based on their knowledge, training and experience levels required. This Certificate is not intended to be applied to new pole lines or any situation where a pole is being replaced anyways. In those cases it is expected that the entire pole be brought up to 100% CSA standards compliancy.

The workers are “qualified” in their ability to recognize electrical hazards and other potential safety concerns, which may cause them to implement specific safety measures or work procedures to avoid the item. They are required to take a training module called “Health and Safety Guidelines for Contractors - Working at Heights Module”, among other requirements before they are deemed qualified.

This Certificate can only be applied to Third Party Company projects, at their discretion, by inclusion of this Certificate into their attachment application. On a per attachment application basis, the exact poles and pole spans where this Certificate of Deviation Approval is being applied will be clearly identified on a separate form, completed by a competent person. A suitable form is attached to this Certificate, but similar forms are also acceptable. Third Party Company and the LDC may agree to identify some of these items through existing Joint Use Processes, or other agreed methods, rather than this form.

THE INSTALLATION WORK COVERED BY THIS DOCUMENT MEETS THE SAFETY REQUIREMENTS OF SECTION 4 OF ONTARIO REGULATION 22/04 WITH THE FOLLOWING DEVIATIONS:

1. Neutral wires that sag below the line of sight of communication attachments when:
  - a. Span length is less than 75m
  - b. Neutral wire is part of a multi-grounded neutral system
  - c. Neutral wire is measured at maximum sag (50°C)
  - d. Communication is measured at thermal sag (15°C)
  - e. Closest distance between the neutral and communications is greater than 0.3m under the above conditions
2. Secondary wires that sag below the line of sight of communication attachments when:
  - a. Neutral wire is part of a multi-grounded neutral system
  - b. Secondary wire is measured at maximum sag (80°C)
  - c. Communication is measured at thermal sag (15°C)
  - d. Closest distance between the secondary and communications is greater than 0.3m under the above conditions
3. The following items at the pole if they are at least 0.6m above the highest communications strand:
  - a. Secondary Risers
  - b. Drip loops of secondary cables
  - c. Mechanical protection on primary cables
4. Single damaged or missing down grounds (consecutive locations would required to be fixed prior to lashing)



# Appendix B – Application for Licensed Occupancy of Poles Form

Blank Application Form



Telecom Application

Example Application Form



Example Telecom  
Application

ESA Bulletin



DB-02-16

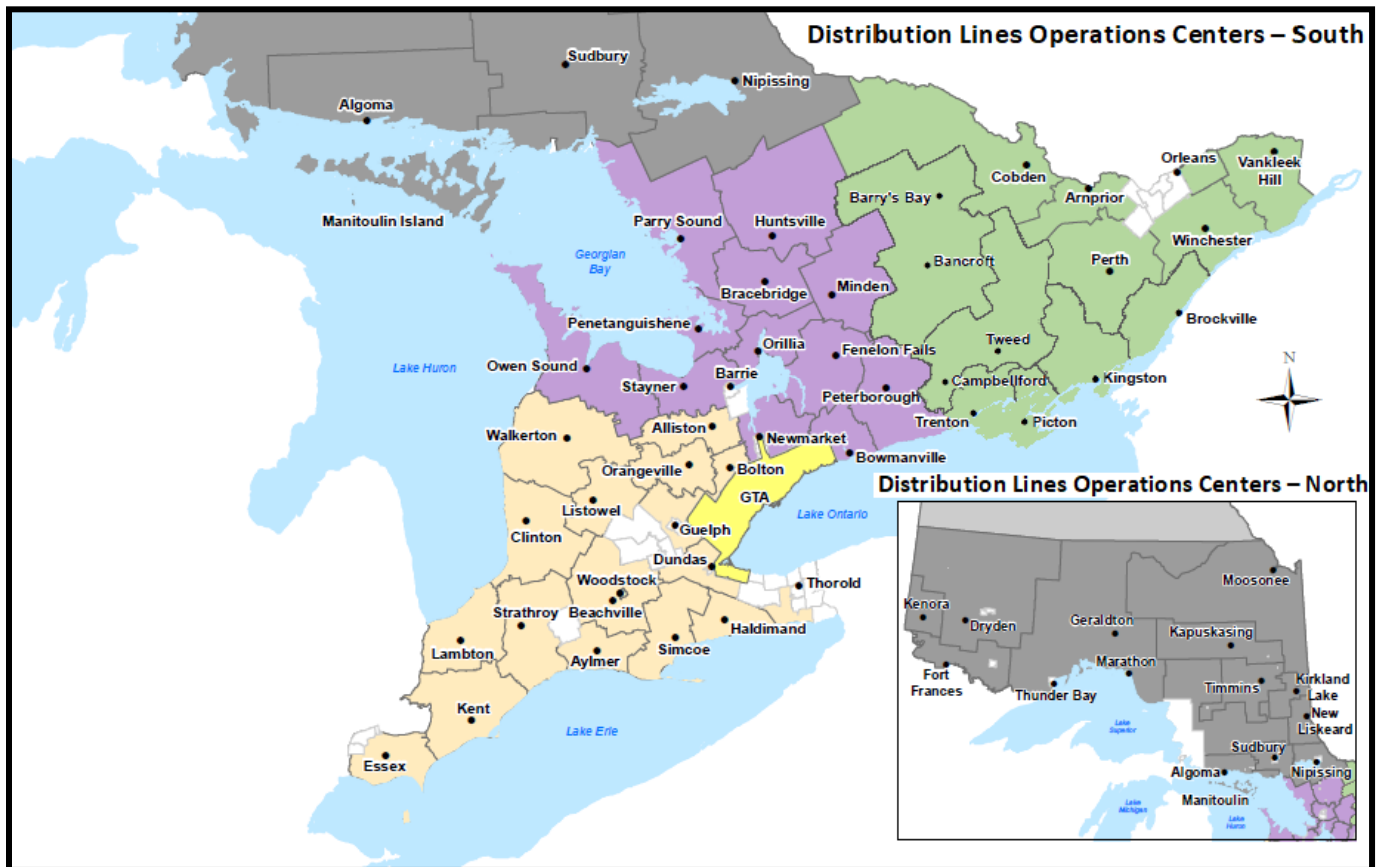


# Appendix C



## Distribution Lines Contact List

Region	Telephone No.	E-Mail Address
Southern	1-800-957-7756 or 226-705-5000	<a href="mailto:SouthernFBCPlanning@HydroOne.com">SouthernFBCPlanning@HydroOne.com</a>
GTA	705-797-4172	<a href="mailto:Zone8Scheduling@HydroOne.com">Zone8Scheduling@HydroOne.com</a>
Central	1-888-238-2398 or 705-728-5017	<a href="mailto:CentralFBCplanning@HydroOne.com">CentralFBCplanning@HydroOne.com</a>
Eastern	1-888-332-2249 or 613-267-2154	<a href="mailto:EastZoneScheduling@HydroOne.com">EastZoneScheduling@HydroOne.com</a>
Northern	1-888-835-9444 or 705-566-8955	<a href="mailto:NorthernFBCPlanning@HydroOne.com">NorthernFBCPlanning@HydroOne.com</a>



Revised: Jan 2021

# HYDRO ONE JOINT USE ALERT

December 2010

## **Equipment Failure Alert – No. 4 ACSR, No. 4 Special ACSR, and No. 6 Copper Conductors**

Hydro One is aware of a number of incidents in which high voltage electrical conductors have broken. The conductors involved in these incidents were No. 4 ACSR, No. 4 Special ACSR, and No. 6 Copper Conductors, hereinafter referred to as “Restricted Conductors”. Many of the installations at which the Restricted Conductors have been identified are 60 years old or more. The age of these conductors in combination with over tensioning, their small strand size used in long spans, and poorer quality in their original manufacture all seem to be contributing factors to the breakage of these Restricted Conductors. Inspection and Maintenance programs have verified that many of these conductors are in poor condition.

Hydro One has implemented special restrictions as it relates to work with these Restricted Conductors. These restrictions only apply to the “Restricted Conductors” being used as Primary Line conductors and not where they are used as drop leads, ground leads or other non-tension applications.

The following restrictions apply to all work on Restricted Conductors by both Hydro One employees as well as all joint use licensees working on the pole:

1. NO live line work shall be performed.
2. Work which significantly alters the strain on the pole shall be considered hazardous and as such an outage must be taken.

Examples:

- Tensioning or re - tensioning of services or conductors.
- Cutting services, guys, or conductors under tension.
- Hanging or removing transformers

**Note:** An outage reduces the risk to an acceptable level. All work performed during the outage may be carried out by climbing or by means of an aerial device.

**Hydro One Networks Inc.**

Planning and Operating  
Asset Optimization  
483 Bay St. Toronto, On M5G 2P5



**Suggested protocol**

Hydro One has been replacing these conductors over the past several years during large sustainment initiatives, as well as when sections with poor feeder reliability are determined; however there are still many locations around the province that have the Restricted Conductors in service. Hydro One requests that Joint Use licensees contact the Hydro One Operations Centre in their respective area (See Appendix 1 – Distribution Provincial Lines Contact List) prior to proceeding with planned work, if they suspect the primary conductors on the pole may be Restricted Conductors. Hydro One will schedule a crew to the location to determine if the conductors are Restricted Conductors and if it is safe to proceed with the Licensee’s work.

If the work location is confirmed to have the Restricted Conductors and it is not safe to work, the Licensee may request Hydro One to isolate the line to facilitate the work. If isolation or an outage is not possible, Hydro One will arrange to change the Restricted Conductors, in order to provide a safe working environment for the Licensee.

Should you have any questions, please do not hesitate to contact:

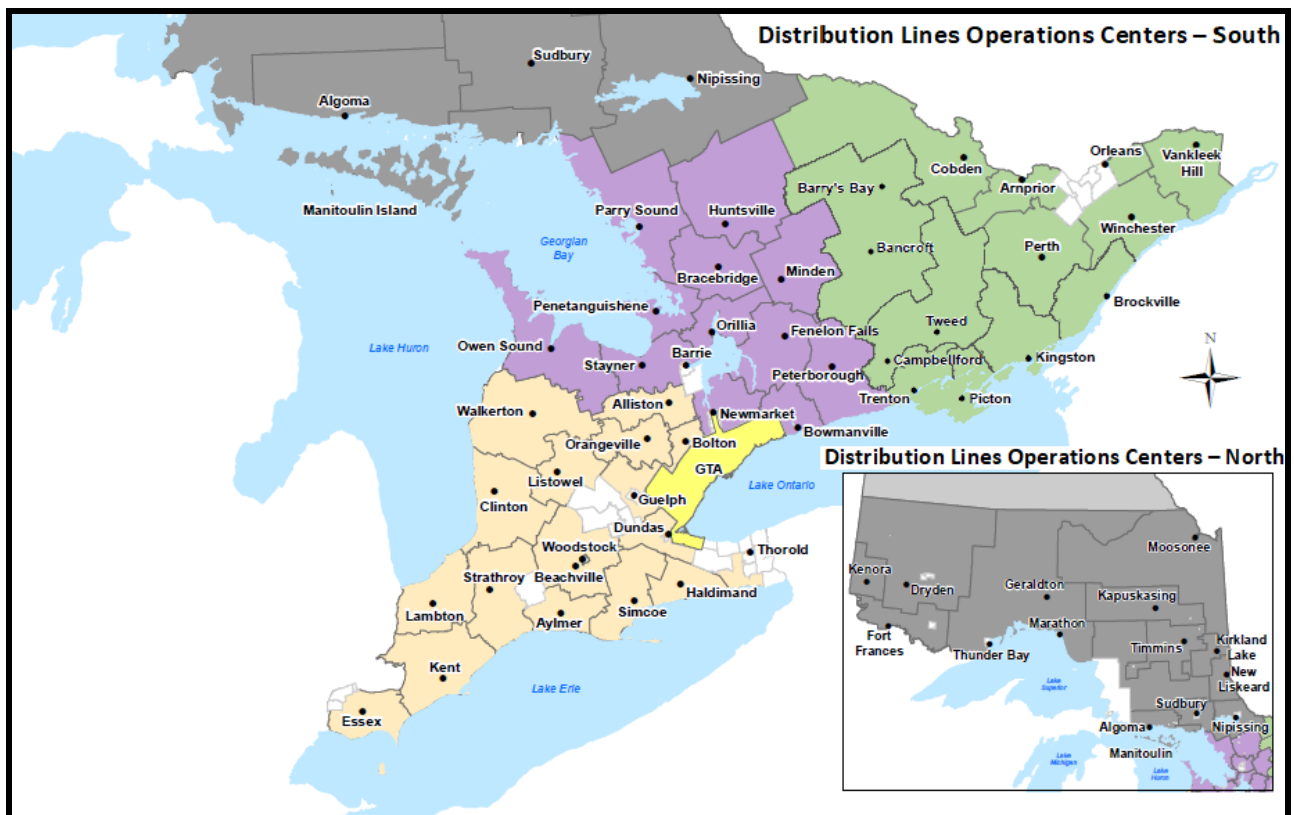
**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
Reg.Walker@hydroone.com

Appendix 1



**Distribution Lines Contact List**

Region	Telephone No.	E-Mail Address
Southern	1-800-957-7756 or 226-705-5000	<a href="mailto:SouthernFBCPlanning@HydroOne.com">SouthernFBCPlanning@HydroOne.com</a>
GTA	705-797-4172	<a href="mailto:Zone8Scheduling@HydroOne.com">Zone8Scheduling@HydroOne.com</a>
Central	1-888-238-2398 or 705-728-5017	<a href="mailto:CentralFBCplanning@HydroOne.com">CentralFBCplanning@HydroOne.com</a>
Eastern	1-888-332-2249 or 613-267-2154	<a href="mailto:EastZoneScheduling@HydroOne.com">EastZoneScheduling@HydroOne.com</a>
Northern	1-888-835-9444 or 705-566-8955	<a href="mailto:NorthernFBCPlanning@HydroOne.com">NorthernFBCPlanning@HydroOne.com</a>



Revised: Jan 2021

# MEMORANDUM

December 22, 2008

**Subject: ADSS Guying Requirements on Hydro One Joint Use Poles**

**To: All Hydro One Employees and Telecommunication Employees/Contractors**

This Memorandum is to clarify Hydro One's requirements for guying of ADSS cable (All Dielectric Self-Supporting fiber optic cable) on all Joint Use poles.

CSA describes ADSS cable as follows:

**All-dielectric self-supporting fiber optic cable (ADSS)** — a communication cable consisting of coated glass optical fibers contained in a protective dielectric fiber optic unit that is surrounded by, or attached to, suitable dielectric strength members and jackets.

CSA Overhead Systems Regulations C22.3 N01-06, states that the requirements are the minimum requirements to provide safety, service, and protection of property. The regulation also states that standards and conditions not covered in the regulations are governed *by the authority having jurisdiction*.

The question around whether or not guying is required on ADSS cable has been raised by Hydro One field staff on several occasions. Hydro One was provided with the breaking strength of ADSS cable and determined it to be significant when compared to the breaking strength of a #2 ACSR neutral conductor.

Therefore, Hydro One as the governing authority on Hydro One owned Joint Use poles, will require all ADSS cable to be guyed every time/location that Hydro One requires guying of the neutral conductor.

Hydro One appreciates all Joint Use partner's co-operation in this regard in efforts to ensure the safety of persons, maintaining the continuity of service, and the protection of all facilities.

If you have any questions or concerns please contact the undersigned at your earliest convenience.

Thank you.

**Reg Walker**  
**Senior Programs Engineer Officer**  
(877) 647-2872 Ext. 2035  
Reg.Walker@hydroone.com