

Minutes of Meeting Thursday June 26, 2025 10:00am – 3:00pm

**Electrical Distribution Safety** 

**Utility Advisory Council Members** 

LDC/Owner-Operator	
Alectra Utilities	Joseph Chiuco
Elexicon Energy Incorporated	Ken Gallen
Enova Power Corporation	Shevan Mustafa
Festival Hydro	Bryon Hartung
Hydro One - Distribution	Muayad Tarabain
Hydro One - Transmission	Fred Kouhdani
Hydro Ottawa	Edward Donkersteeg
London Hydro	Scott Glazer
Newmarket-Tay Power Distribution Ltd.	Eric Andres
Oshawa Power	Peter Petriw
Toronto Hydro	Sushma Narisetty
General Interest	
Bell Canada/Telecom Industry	Zhi Lin
CSA Group	Sarzil Rahman
IHSA	Al Leger
Regrets	
InnPower Corporation	Arthur Berdichevsky
Consumer Advisory Council	Salim Akhodari
Power Workers Union	Patrick Fee

Quorum 2/3 of voting members (11/16)

#### **Other Attendees**

Aiyappa Ganapathy (Oshawa), Paul Ankrett (Hydro One), Allan vanDamme (London Hydro), Sarim Humayun (Toronto Hydro), Esther Terner (Ministry of Public and Business Service Delivery), Rajroop Saini (Elexicon), Laura Campbell (Ministry of Public and Business Service Delivery), Mansi Modi (OEB), Rudra Mukherji (EDA), Brittany Ashby (EDA)

#### **ESA Attendees**

Nansy Hanna, Jason Hrycyshyn, Patrick Falzon, Sean Burger, Goran Velickovski, Emily Larose, Declan Doyle, Alex Janack, Serge Laflamme, Shawn Martel, Aisling O'Doherty



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**Electrical Distribution Safety** 

#### 1 Notice & Quorum

- The meeting had quorum

#### 2 Agenda

- Add 2 items to the agenda
  - Grounding for Electric Utility Systems
  - o 3-Phase 3-Wire Solidly-Grounded Wye Customer Services

The following motion was carried:

Motion: To accept the agenda as amended

Motioned by: Peter Petriw Second: Edward Donkersteeg

Motion carried.

#### 3 Minutes of UAC Meeting

The following motion was carried:

Motion: To accept the minutes of the Thursday February 20 2025 meeting

Motioned by: Bryon Hartung

Second: Ken Gallen Motion carried.

#### 4 Review of Open Action Items

- Action Item 2019-03-01: ESA to develop a process for facilitating resolution of conflict between Distributors and a Third Party equipment owner
  - This item has been broken into 2 scenarios
    - New installations, and
    - Existing installations
  - New installations is on the agenda today

#### 5 Vice-Chair Election

- Peter Petriw (Oshawa Power) put his name forward for the position of Vice-Chair
- The Council was asked if anyone else was interested in running for the position of Vice-Chair
- Peter was elected by acclamation

Vote to accept Peter Petriw as Vice-Chair of the Utility Advisory Council

In favour: All Opposed: None



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#### 6 Membership Updates

- Oshawa Power was added to the council
- Representation on the UAC, as outlined in the Terms of Reference, is still within its limits with the addition of Oshawa Power
  - LDC's minimum of 8 and a max of 13
  - General interest min of 4 max of 12
- Council members in Group 1 received their renewal letters and all have agreed to serve another term

#### 7 Regulation 22/04 Preliminary Discussion with MPBSDP

- ESA is proposing good governance amendments to Ontario Regualtion22/04
- List of proposed changes were discussed
- Removing some references to the OESC
  - Discussed designs and conditions where referencing the OESC makes sense
  - Reference to OESC remains for substations.
  - References to the OESC are only proposed to be removed for overhead and underground
  - You can reference other standards and using Part 1 there were no concerns that using Part 1 would cause a Reg 22/04 compliance issue.
- Section 12 wording may need to be cleaned up so the Regulation and the Guideline are in sync. The Regulation could be interpreted to mean that either an incident must be reported within 48hrs or after awareness must be reported within 48 hours. The Guideline says 48hrs from when the LDC becomes aware of the incident
  - Some Distributors would like the opportunity at some point to change what is reportable and on the Distributor Scorecard
- Will there be opportunity to provide comment and feedback on other parts of the regulation that haven't been redlined
  - Consultation is a key part of regulatory updates, and ESA will notify stakeholders when there is an opportunity to provide comments

#### 8 ESA Strategy Overview

- ESA walked members through the recently-released five-year corporate strategy, "Empowering Safety, Energizing Tomorrow"
- The Council is pleased with the opportunity for partnership and collaboration between ESA and Distributors, including on emerging harms like copper theft



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#### 9 Section 10 - DRAFT Guideline - Proximity to Distribution Lines

- In section 5 evidence would be required to provide ESA. Is it up to each distributor on how to set this up?
  - Yes, it is up to the distributor what to provide to show they tried to resolve the issue with the customer
  - ESA wants to see that an Distributor has made a reasonable effort to resolve the issue with their customer before engaging ESA for assistance
- The Council asked for 2 weeks to review the draft Guideline
  - If no comments are received in 2 weeks ESA can consider the UAC endorsed the guideline
- It was noted that Safe Limits of Approach may not belong in this guideline and ESA was asked to review this

#### 10 Section 11 - DRAFT Guideline - Disconnection Unused Lines

- Should the regulation be updated to 1000V from 750V to harmonize with CSA?
- The term "Distributor" in section 10 guideline and "Utility" in section 11 guideline. Can we update to the same terms?
  - ESA tries to use the term "distributor" throughout at the request of the OEB.
     They didn't stick with it, but we did.
- Should grounded be updated to effectively grounded?
- ESA will review both guidelines to ensure the term "Distributor" is used throughout
- The Council asked for 2 weeks to review the draft Guideline
  - If no comments are received in 2 weeks ESA can consider the UAC endorsed the guideline

#### 11 Priorities for Guidelines to Revise

- The Council agreed that the DER Guideline was high priority to review
- The Council agreed that the Section 6 Guideline was the next highest priority to review
- It was suggested to review the Change of Ownership Guideline as well, but it was felt resources would make this difficult to accomplish



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**Electrical Distribution Safety** 

#### 12 Best Practices for Connection/Reconnection of Power

- IHSA indicated part of the training lineman and technicians receive is to perform a 9 point meterbase check before a connection is made
- ESA was asked if there is there a document that ESA has that explains preauthorized connections
  - Distributors would like a document that they can use when communicating internally
- Having a responsible person on site, especially for seasonal properties, can be difficult to arrange. The customers' expectation is that when the bill is paid that the power will be reconnected.
- As long as an Distributor can demonstrate that the Distributor made every effort to reconnect and due diligence was done, keeping safety in mind to have a responsible person on site, then you would have solid ground to stand on in court
  - OEB requires power be turned on by a specific date so London Hydro will keep track of attempts to make a positive contact before connecting
- Would the council support a best practice document, or does everyone prefer to have their own process and practice?
- Bryon Hartung and Peter Petriw to help Patrick Falzon put a survey together to send to all Distributors

Action Item 2025-02-01: Distributor Survey on Best Practices for Connection/Reconnection of Power. Bryon Hartung and Peter Petriw will assist Patrick Falzon in putting a survey together to send to all Distributors that asks about their best practices or procedures for connection/reconnection of power.

#### 13 Like-for-Like Replacement

- ESA will bring up this topic with Auditors so they will bring this back to Distributors during the next audit period
- We will discuss at the October UAC
- Asking the UAC to bring any specific questions or scenarios to ESA before the next meeting so it can be discussed in October
- Section 7 guideline has direction on like-for-like and additional information was inserted in the latest version.
- A list of examples like in the guideline for section 12 would be very helpful
  - o 5 examples were added in the last update. We could look at adding more



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#### 14 Copper Theft

- London Hydro provided an update since the last meeting
- 20 downtown vaults and 14 manhole incidents since November 2024
- Some of the deterrents and hardening efforts were discussed
- Engagement and enforcement (of a by-law) with scrap yards
- ESA is drafting a letter that can be shared with the Distributors when requested. Letter could be shared with local police.

#### 15 LDC Approved Meterbase List

- Distributors typically provides their customers with a list of approved meterbases
- Since the meterbase manufacturers have isolated and permanently bonded neutral blocks, Distributors should look at revising their list to avoid any conflict for their customers

#### 16 Disconnect Switch (Bulletin 84-1-\*)

- ESA was looking for feedback on this item from the Council
- London Hydro is operating the switch for safety
- ESA will draft an email with the questions and a draft copy of the bulletin to send for feedback
  - Council suggested sending to all Distributor main contacts and not just the UAC

#### 17 Areas Exposed to Greater Possibility of Contact

- ESA has received incident reports on several contacts with overhead lines with boat masts and fishing line/rods
- The lines contacted met CSA requirements
- ESA is asking the Council if there are any additional precautions to prevent contacts in these areas?
  - Signage
  - Marker Balls
  - Flagging on the lower neutral
  - Anything to provide visual identification of a line
  - Covered conductor
  - When you enter some parking lots they have metal structures installed that prevent vehicles over a certain size from entering. What about something similar at boat launches where lines are over the boat launch



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#### **Electrical Distribution Safety**

- If you install signs then they need to be a part of your inspection schedule
- Has this been brought to CSA?
- Farm equipment has been brought to CSA
  - For farming areas CSA kept the baseline the same and added notes to take the height of equipment into account
  - Farming equipment is driven down every road so how do you know where to make the changes CSA has added
  - This could be discussed at CSA as well
- Even if the line meets standards should ESA be encouraging a Distributor to investigate additional safety measures to avoid repeated contact
  - If you have a specific area built for something like a boat launch then it's reasonable to review for safety
  - For other areas how can it be anticipated the activities someone will undertake around the lines (like flying a kite in a park)
- CSA may be the best route to go as it level sets Distributors with joint-use attachers.

# 18 OESC Inspections in Proximity to the Ownership Demarcation Point (New Installations)

- There may be a gap in what ESA is inspecting and what the Distributor is looking at. Asked if inspectors can put what was inspected on the connection authorization (CA) and heard that it's not on the standard CA
- ESA will take back and review

#### 19 Pole Steps - Draft Bulletin

- No additional feedback from UAC
- The bulletin can be published

#### 20 Meter Data

- AMI 2.0 is just starting. Some Distributors are just starting to look at it.
- What was just implemented as of November 2024 is the Green Button which provides a very high level of detail that a customer can use to get this information.
- For awareness all changes to get data from the meter comes as an expense to the Distributor and if not mandated by the OEB is not recoverable from ratepayers.
- Data to support customer calculations may already available through the Green Button initiatives and customers may not be aware that they can get this. Maybe this is something that can be shared with LECs from ESA and by Distributors to it customers



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#### 21 Ice Storm and Flood Updates

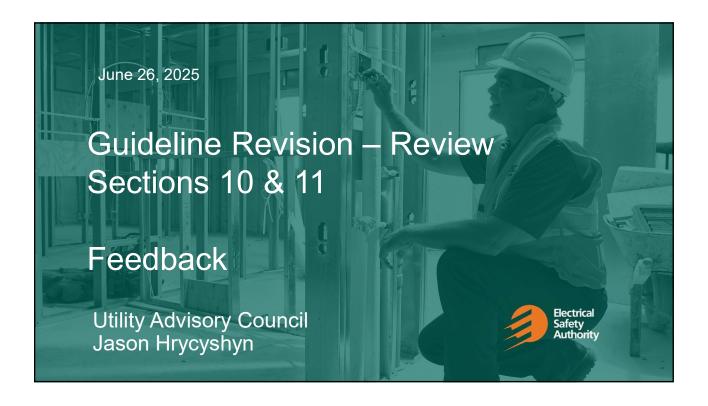
- ESA shared it's experience from the March 2025 ice storm
  - Lack of fuel in certain areas
  - Areas that were restricted access
  - Unauthorized LEC meter disconnect/reconnect
  - Coordination between ESA, Distributors and LECs
- Some of the opporunites are
  - Standardizing how Distributors are notified by ESA on connection authorizations
  - Continuous communication from ESA to Distributors and LECs

#### 22 Grounding for Electric Utility Systems

- CSA C22.3 No.2 "Grounding for Electric Utility Systems" is a TC starting.
- This Standard was withdrawn many years ago. It was primarily a Standard describing requirements for Station and Substation grounding. When IEEE 80 was published, utilities preferred to refer to it and so C22.3 No. 2 was discontinued.
- The requirements are a minimum from an installation, design, testing, maintenance and safety point of view but are not necessarily adequate for proper operation of a particular system.
- If you are interested in joining the committee contact CSA

#### 23 3-Phase 3-Wire Solidly-Grounded Wye Customer Services

- An update on the progress was provided



# Guideline Revision – Working Groups Sections 10 & 11

#### **Highlights**

- Both Guideline Working Groups have complete their work
- ESA completed its own internal review no changes made
- DRAFT Guidelines were provided with the pre-meeting material, including significant revisions
- ESA is seeking UAC endorsement of the Guidelines, if achieved ESA will publish the Guidelines.

# Guideline Revision – Working Groups Sections 10 & 11

#### <u>Highlights</u> - Section 10 (Proximity to Distribution Lines)

- Purpose statement addresses "Electrical Distributor" and "all persons"
- "Permanent Structures" and "Non-permanent Structures" are defined.
  - Regulation 22/04 addresses "permanent structures"
  - Electricity Act may address "non-permanent structures"
- "Separations" used. Guideline clarifies this term to include the CSA terms (clearance, separation, distance and spacing).
- "How to Prevent the Occurrence of Unauthorized Installations" was revised, but intent did not. (Section 4.0)
- Information on how to involve ESA with Proximity issues was included. (Section 5.0)
- 3 UAC Presentation | February 20, 2025

# Guideline Revision – Working Groups Sections 10 & 11

#### Highlights - Section 11 (Disconnection of Unused Distribution Lines)

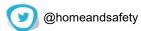
- Addresses Distributor-owned equipment that the Distributor does not locate (e.g. within the footprint of the building), the records provided to the requester must include this information.
- Removed reference to the ORCGA Best Practice documentation, as it references CSA S250.
- Maintained reference to 750V, despite CSA moving to 1000V, as it harmonizes with Regulation 22/04.
- Clarifies that a Professional Engineer includes a holder of a licence, a limited licence or a temporary licence holder.
- 4 UAC Presentation | February 20, 2025



## **Contact Us**

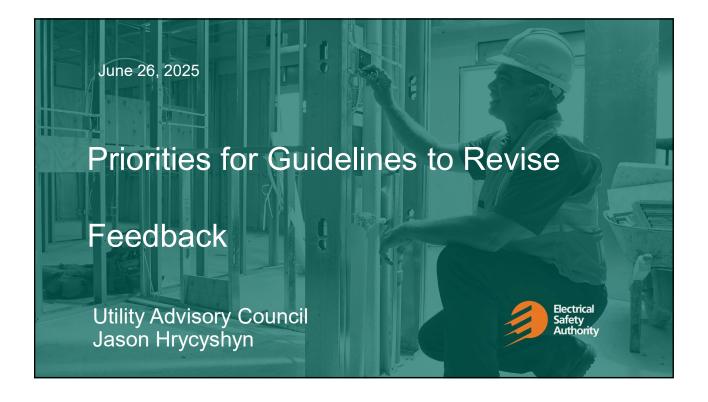
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## Priorities for Guidelines to Revise

#### **Oldest Guidelines**

- Guideline for Change of Ownership (2008)
- Section 6 Guideline (2008) Within Technical Guideline (6, 7 & 8)

#### **Notes for Council Consideration**

- Annual Audit Guideline (2014) Can address standardization of the Audit Reports
  - Declaration of Compliance (2021) Would be addressed at the same time
- Distributed Energy Resources (DER) (2023)
  - · Schedule Review Date is marked as annually.
- 2 UAC Presentation | June 26, 2025

## Priorities for Guidelines to Revise

#### **Newest Guidelines Reviewed**

- Guideline for Disconnecting Unused Lines (2025)
- Guideline for Proximity to Distribution Lines (2025)
- Guideline for Sections 7&8 (2024 expected)
- Guideline for Distributed Energy Resources (2023)
- Guideline for Third Party Attachments (2023)
- Guideline for Excavating in the Proximity of Underground Distribution Lines (2022)

#### Council feedback regarding next Guideline to review

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# Best Practices for Connection/Reconnection of Power



- ESA has been made aware of a few incidents where the energization of power has created potential shock, fire hazards and damage to equipment
- More than one Distributor
- Inconsistency amongst Distribuor



# Best Practices for Connection/Reconnection of Power



#### Example 1

- ESA issued a pre-authorized connection authorization for a disconnect and hold for a panel board replacement;
- Licensed Electrical Contactor (LEC) <u>did not</u> call the Distributor nor ESA inspector to inform they were ready as they were still tying in some circuits in the distribution panel
  - · Main breaker closed and bond conductors where hanging.
- Distributor crew arrived on site energized service without communicating to the LEC who was still on site and energized the service
- No injuries. Distribution panel was damaged beyond repair and needed to be replaced

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# Best Practices for Connection/Reconnection of Power



#### Example 2

- Distributor energized a service that was disconnected for nonpayment-prior to 6 months requiring a connection authorization
- No one was living at the home at the time
- Caused a fire to the home
  - Electrical in nature-stove was not switched off prior to being disconnected



# Best Practices for Connection/Reconnection of Power



- Looking for the Council's recommendation on a best practice guide
- Add OEB and Reg 22/04 requirements
- Benefit to the industry-

Law suits

Worker injury

UAC FIESE

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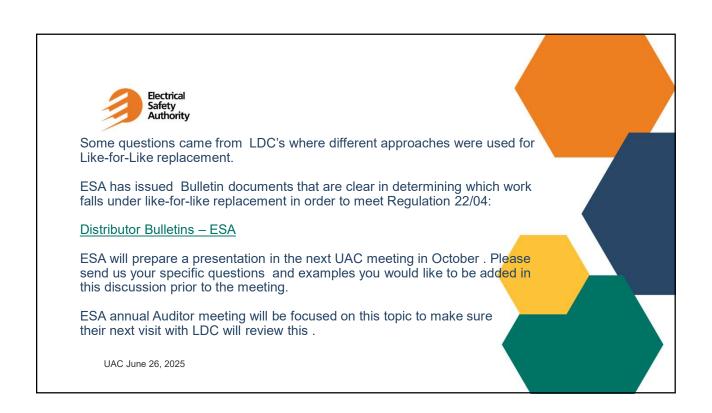
# Best Practices for Connection/Reconnection of Power



- Exapmple
- The Customer or responsible designate must attend at the premises when service is restored. If no responsible Customer representative is at the premises, the reconnection will not occur even if the applicable reconnection fees have been paid and conditions met.









## Distributor Approved Meterbase list

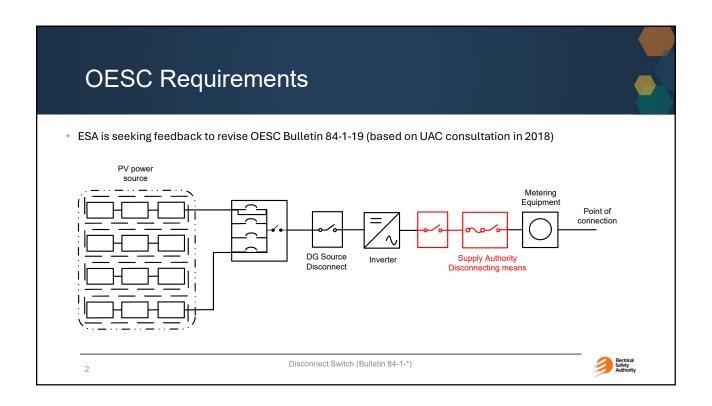


- Distributors typically provides their customers with a list of approved meterbases
- Since the meterbase manufacturers have isolated and permanently bonded neutral blocks, Distributors should look at revising their list to avoid any conflict for their customers



18/06/2025





16 - Utility Disconnect 18/06/2025

## **OESC Requirements**



#### 84-002 General requirement

- · The interconnection arrangements shall be in accordance with the requirements of the supply authority.
- · Appendix B Rule 84-002 The consumer electric power generator owner should consult with the supply authority before planning the interconnection.
- 84-022 Disconnecting means Supply authority system
  - · Disconnecting means shall be provided to disconnect simultaneously all the electric power production sources from the supply authority system.
  - Appendix B Rule 84-022 The supply authority disconnecting means is intended to allow the supply authority a single point of access to simultaneously isolate one or more electric power production sources on the premises. The main service box, or the equivalent, is normally used to provide this function.

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Disconnect Switch (Bulletin 84-1-\*)



## **OESC Requirements**

- 84-024 Disconnecting means General (see Appendix B)
  - 1) 1) Disconnecting means shall
    - be capable of being energized from both sides;
    - plainly indicate whether it is in the open or closed position;
    - have contact operation verifiable by direct visible means if required by the supply authority;
    - have provision for being locked in the open position;
    - conform to Sections 14, 28, and 36 if it includes an overcurrent device;
    - be capable of being opened at rated load:
    - be capable of being closed with safety to the operator with a fault on the system;

    - disconnect all ungrounded conductors of the circuit simultaneously; bear a warning to the effect that inside parts can be energized when the disconnecting means open; and
  - Where a main fusible disconnecting means is used, an isolating switch shall be provided to allow the fuses to be dead during handling.
- Readily accessible capable of being reached quickly for operation, renewal, or inspection, without requiring those to whom ready access is a requisite to climb over or remove obstacles or to resort to portable ladders, chairs, etc.
- Accessible admitting close approach because the equipment is not guarded by locked doors, elevation, or other effective means.

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Disconnect Switch (Bulletin 84-1-\*)



16 - Utility Disconnect 18/06/2025

## **OESC Requirements**

# -

#### **Bulletin 84-1-19**

- Location for supply authority disconnecting means: Rule 84-022 requires disconnecting means to be provided to disconnect simultaneously all electrical power production sources from the supply authority system. As per Rule 84-024, the disconnecting means is required to be readily accessible for all types of interconnected power production sources in all buildings (residential, commercial, industrial, etc.)
  - For single dwellings, the location of the supply authority disconnecting means is required to be mounted externally beside the meter.
  - For installations in other than single dwellings, it has to be in a location acceptable to the supply authority.
  - Visible isolation may be required for some installations as per the supply authority. Installers are required to comply with the supply authority requirements for disconnecting means.

5

Disconnect Switch (Bulletin 84-1-\*)



#### Feedback



- ESA is seeking feedback to revise OESC Bulletin 84-1-19 (based on UAC consultation in 2018)
  - 1. What are the applications of the supply authority disconnect?

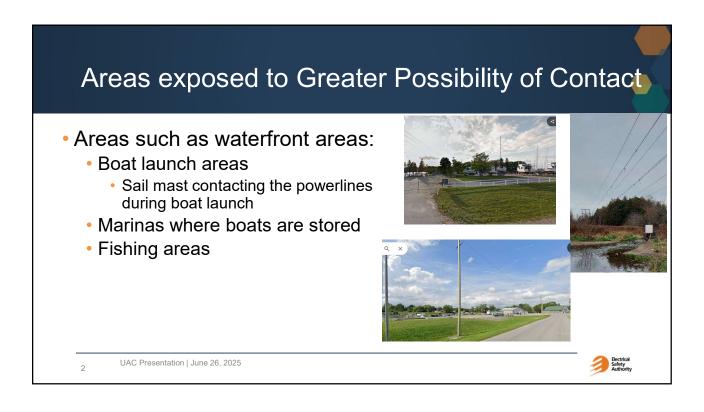
    Examples:
    - a) Fire Emergency Is the service normally disconnected ahead of the meter?
    - b) Utility Work Would job planning and switching orders include operation of the disconnect, or is antiislanding relied upon?
  - 2. Could OESC Bulletin 84-1-20 be revised to include?
    - For all installations including single dwellings, the supply authority disconnect is required in a location acceptable to the supply authority, which is the main service box unless specified otherwise.
  - 3. Where service layouts include a supply authority disconnect, could a breaker be specified rather than fusible disconnect?
    - Fusible disconnects require an additional isolating disconnect to allow the fuses to be dead during handling.

6

Disconnect Switch (Bulletin 84-1-\*)







## Areas exposed to Greater Possibility of Contact

 Any additional precautions to prevent contacts in these areas?





# Inspection Requirements for Customer Equipment Supporting/Barriering Distributor Equipment

Jason Hrycyshyn Feedback June 2025





# PHASE 1 **NEW INSTALLATIONS**

Recap: October 2024

ESA informed the UAC that ESA would hold internal meetings to discuss direction for ESA Inspectors re: customer-owned equipment.



## Mission

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 $(\underline{CO} = \text{Customer-owned})$   $(\underline{DO} = \text{Distributor-owned})$  (ODP = Ownership demarcation point)



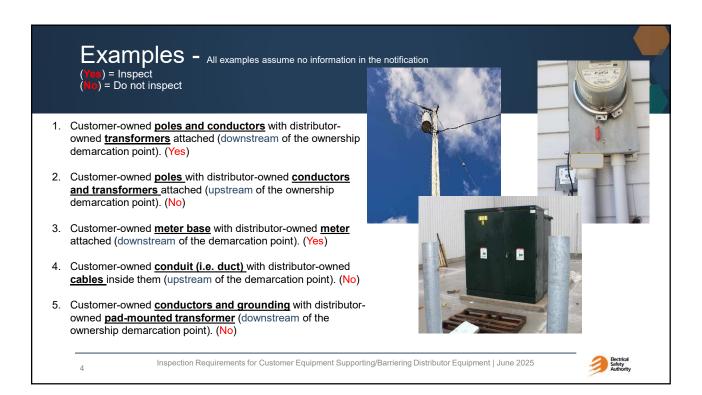
- ESA completed internal Working Group meeting
- ESA is drafted direction detailing whether or not to inspect <u>CO</u> equipment, where <u>DO</u> equipment relies upon <u>CO</u> equipment. Installations are new.

#### **Proposed Inspector Direction**

- 1. Follow the notification information
  - a) If information is unknown, only inspect where
    - i. On customer-side of ownership demarcation point; and
    - ii. The equipment is above-grade equipment.

Inspection Requirements for Customer Equipment Supporting/Barriering Distributor Equipment | June 2025





## Working Group - Summary

#### Reviewed

- Past inspection practices
- Inspection obligations under the OESC
- Information on the Notifications regarding Distributor-owned equipment

#### **Draft Bulletin - Pre-read material**

· A DRAFT Bulletin was provided in the pre-read material for this meeting

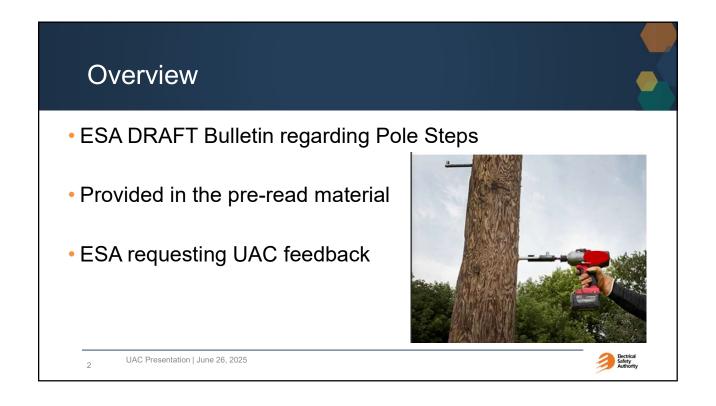
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 $In spection \ Requirements \ for \ Customer \ Equipment \ Supporting/Barriering \ Distributor \ Equipment \ | \ June \ 2025$ 



19 - Pole Steps 18/06/2025





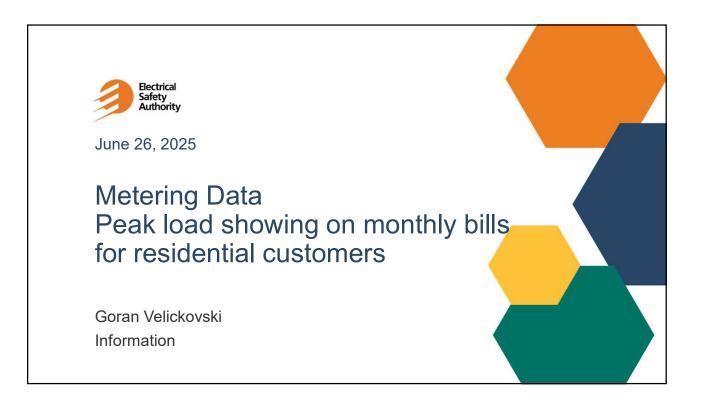
19 - Pole Steps 18/06/2025

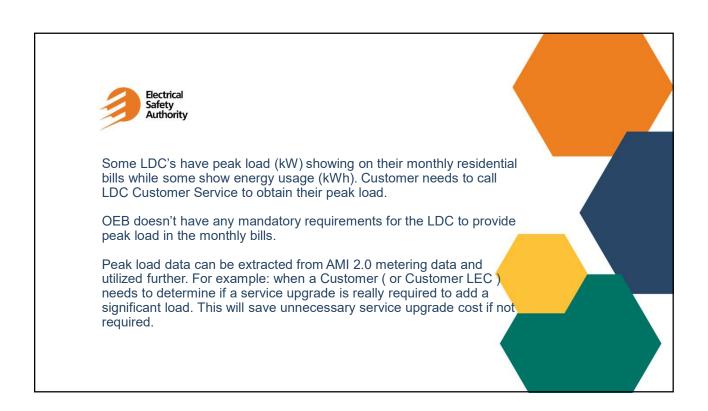
## Bulletin - Highlights

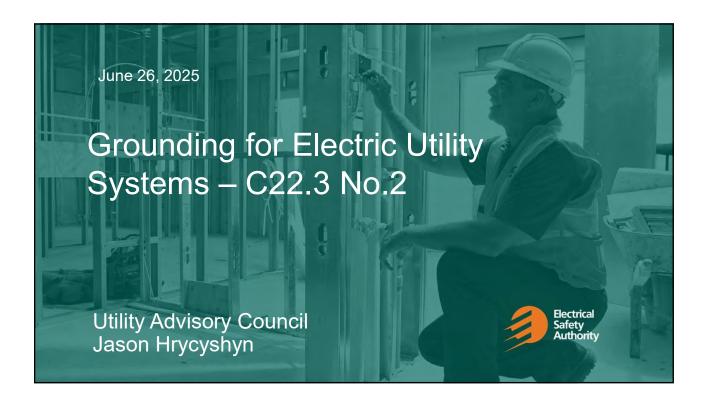
- Distributors are encouraged to review their maintenance inspection practices.
- ESA is encouraging Distributors to include inspecting pole steps for height above the ground or surface (public safety) and the angle of bend (worker safety).
  - 3.0m height + filling or plug resulting holes.
    - Source: C22.3 No.1 (Note: Prior to 2001 version 2.5m).
  - 15° bend from perpendicular.
    - Source: USA OSHA 29 CFR 1910.24(a)(9).



Electrical Safety Authority







# Grounding for Electric Utility Systems – C22.3 No.2

This Standard contains general grounding requirements for electric and telecom utility-owned plant and for electric utility-owned electrical supply stations. The requirements are specified on the basis of safety to the public and to utility workers.

The requirements are a minimum from an installation, design, testing, maintenance and safety point of view but are not necessarily adequate for proper operation of a particular system.

This Standard was withdrawn many years ago. It was primarily a Standard describing requirements for Station and Substation grounding. When IEEE 80 was published, utilities preferred to refer to it and so C22.3 No. 2 was discontinued. Today, there is a need to address, not only Station grounding but the Distribution System grounding. Numerous occasions have presented themselves where the requirements for Distribution system grounding have been challenged and had to be defended with little documented support. The safety of persons, workers and public, is at risk and the operation of the protection of the system is at risk without a Standard to clearly enunciate these requirements

# Grounding for Electric Utility Systems – C22.3 No.2

Interested Parties - Contact Nikhil Pingle (CSA - PM) or myself.

- 1. Nikhil Pingle <a href="mailto:nikhil.pingle@csagroup.org">nikhil.pingle@csagroup.org</a>
- 2. Jason Hrycyshyn jason.hrycyshyn@electricalsafety.on.ca

UAC Presentation | June 26, 2025



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#### 3-Phase 3-Wire Solidly-Grounded Wye **Customer Services FLASH NOTICE #1** October 2024 February 2025 **June 2025** ~15,000 792 626 446 Number of LDCs without a Possible Configuration of Concern Configuration of Concern Configuration of Concern Configuration of Concern 47 48 UAC Presentation | June 26, 2025



## **Contact Us**

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