



**Utility Advisory Council Members**

**LDC/Owner-Operator**

Alectra Utilities	Joseph Chiuco
Elexicon Energy Incorporated	Faisal Habibullah
Enova Power Corporation	Shevan Mustafa
Festival Hydro	Bryon Hartung
Hydro One - Distribution	Peter Petriw
Hydro One - Transmission	Ajay Garg
Hydro Ottawa	Edward Donkersteeg
InnPower Corporation	Arthur Berdichevsky
London Hydro	Scott Glazer
Newmarket-Tay Power Distribution Ltd.	Alex Braletic
Toronto Hydro	Sushma Narisetty

**General Interest**

Bell Canada/Telecom Industry	
Consumer Advisory Council	Sandy Manners
CSA Group	
IHSA	
Power Workers Union	Patrick Fee

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

**Other Attendees**

Lori Gallagher (USF), Fred Kouhdani (Hydro One), Jim Sorley (Niagara Peninsula Energy), Ryan Zade (Ministry of Energy), Marvio Vinhaes (Enwin Utilities), Helen Guo (OEB), Tom Brackenbury (Kingston Utilities), Anthony Clavet (Essex Powerlines), Rob Koekkoek (Orangeville Hydro)

**ESA Attendees**

Nansy Hanna, Jason Hrycyshyn, Patrick Falzon, Sean Burger, Mel Pace, Declan Doyle, Mohammed Ali Marfatia, Freda Lam



**1 Notice & Quorum**

- Meeting has quorum

**2 Minutes of UAC Meeting**

The following motion was carried:

**Motion: To accept the minutes of the June 8, 2023 meeting**

**Motioned by:** Ajay Garg

**Second:** Ed Donkersteeg

**Motion carried.**

**3 Review of Open Action Items**

- 2019-03-01 - ESA to develop a process for facilitating resolution of conflict between LDCs and a Third Party equipment owner
  - o ESA is looking to handle this in 2024
  - o This should be a very clear agreement between the customer and LDC
- 2020-03-01 - Update on the 3-Phase 3-Wire Solidly-Grounded Wye Installations
  - o On the agenda
- 2021-03-01 - Street Lighting Work that falls under CSS
  - o This is an item related to the OESC and should be removed from the UAC Open Action Item list
- 2022-03-03 - Distributor Bulletin: Service Entrance Equipment that is under the control of the equipment owner
  - o Ongoing
- 2022-03-04 - Vegetation Management of LDC Secondary Lines on Private Property
  - o ESA's response to the LDC questions was sent to the UAC
- 2023-02-01 - ESA will send an email for volunteers and start working on proposals to revise the Section 7 & 8 Guideline
  - o On the agenda
  - o An email was sent asking for volunteers
  - o Complete
- 2023-02-02 - Update Workplan with a section for specific items being worked on
  - o On the agenda
  - o Workplan date will need to be updated to 2024 and any other dates would be updated to 2024 dates as necessary
  - o If there is an ongoing action item that recurs (such as 2020-03-01 - Update on the 3-Phase 3-Wire Solidly-Grounded Wye Installations) maybe it can be added to the work plan



- Remove CSS and street lighting from the work plan
- 2023-02-03 - ESA is looking for feedback from LDC's on their requirements and rationale for customer owned disconnect switch to be located before the customer's service equipment
  - On the agenda
- 2023-02-04 - ESA is looking for feedback from LDC's on their requirements and rationale for PME to be located before the customer's service equipment
  - On the agenda
- 2023-02-05 - What results of the Public Powerline Awareness Survey can be shared with the UAC
  - Ongoing
  - Add to the February 2024 agenda

**4 Review: Terms of Reference and Council Member Expectations – Declan Doyle**

- The UAC Terms of Reference (TOR) is a living document
- There are currently no planned changes to the TOR
- If there are any updates/changes that members would like to make bring this to Declan and Claire and a proposal can be put forward to the members
- The Chair encouraged all member to take the time and review the TOR. Come with questions and discussion points and participate with the council. This is what make the council work at its best. Recommendations from this council can have a large impact on the LDC community.

**5 Financial Update - Mohammed Ali Marfatia**

- No change to the fee model
- The annual fee may fluctuate as a result of a change in the number of customers or distribution revenue

**6 Update on the 3-Phase 3-Wire Solidly-Grounded Wye Installations (Action Item: 2020-03-01) – Jason Hrycyszyn**

- An update on the status of this program was provided to the UAC
- Are we on track in the progress?
  - We are expecting to see a slow down in completion rate. Remaining installations are often more complex to handle
- It was noted that an escalation process is in place



**7 Flash notice: Application of OESC on electrical installation within distribution stations (OESC Bulletin 2-31-\*) – Sean Burger**

- The council expressed concerns with OESC Bulletin 2-31-\*
- This item is to address any questions about the flash notice to advise LDCs the OESC Bulletin 2-31-\* is published
- Bulletins are reviewed and updated regularly so it was decided that the UAC should submit their questions and concerns for a revised bulletin
  - o The Council thought that these questions and concerns should be addressed in a meeting
  - o It was agreed that the process should start with the submission of questions and concerns to ESA for review
- The flash notice will be released

**8 Application of OESC on electrical installations within transmission stations – Rule 2-000 of the OESC interpretation and application – Sean Burger**

- Hydro One has submitted a lot of feedback and asked ESA when they could anticipate receiving a response
- The comments were significant so ESA is still reviewing. There isn't a timeframe for responding to the feedback.

**9 Connection Authorizations – Sean Burger**

- ESA wanted to highlight that this issue is ongoing.
- ESA is advising the council we are looking at ways to increase compliance with 2-012
- ESA will be starting compliance under Regulation 22/04 when unauthorized connections happen. Details of how this will be done will be shared in the February 2024 UAC
- LDCs will connect a customer without a paper copy of the connection authorization when the home owner wants to get their power back on and the inspector is on site and gives a verbal authorization to connect.
  - o How will this be handled?
  - o ESA has yellow card process with Toronto Hydro and it has been working quite well. This is one of the options that ESA will be bringing to the February 2024 meeting. ESA will be piloting this with Hydro One in a couple of areas as well.
- There have been cases where meter bases have been upgraded to having a floating neutral and this poses a safety risk. There are things that the inspector needs to get in to and look at and if the power has already been connected it makes it very difficult for them to do that



- If an unauthorized connection has been made the inspector may call the LDC back to disconnect so the inspection can be done and reconnect after the inspection and the LDC will be responsible for this.

## **10 Installations Inside Buildings – Sean Burger**

- There are questions about the scope of No. 7, No. 1 and the OESC and what standards are to be applied
  - o Reg is very clear that No. 7 is Underground Systems and No. 1 is Overhead Systems.
  - o This bulletin is clarifying what standard is to be used and that is the OESC.
- If LDC equipment is below ground in a building it's considered inside a building and the OESC applies
- What about vaults that are inside buildings that only the LDC has access to?
  - o This will be considered inside a vault
- ESA is seeing more unfused HV LDC conductors run inside of buildings and this bulletin is meant to address this
- ESA was asked to make this bulletin available for comments again
- It was agreed to open this bulletin up for comments again, however it was noted by the council that this bulletin will also need to have a discussion

## **11 Timing of Consultations and Feedback for ESA**

- The LDC members of council noted that there is an increased demand on their time for consultations and engagements with the OEB, IESO, MOE, ESA, etc.
- There are times of year that are busier than other (Dec to Jan and May to Aug) and the Council has asked ESA to take this into consideration when sending documents for feedback
- ESA is willing to provide more time for feedback on items sent to the Council and has asked the council to make ESA aware when more time is needed

## **12 ESA is looking for feedback from LDC's on their requirements and rationale for customer owned disconnect switch to be located before the customer's service equipment (Action Item: 2022-02-03) – Patrick Falzon**

- ESA provided an update on the feedback received from the Council



**13 ESA is looking for feedback from LDC's on their requirements and rationale for PME to be located before the customer's service equipment (Action Item: 2022-02-04) – Patrick Falzon**

- ESA provided an update on the feedback received from the Council
- Submitting an Ontario Amendment (OA) for OESC Rule 6-402 2) would be the best option. How would the UAC do this?
  - o ESA will provide the OA form to Hydro One
- Hydro One volunteered to start the OA and asked for anyone that would like to participate
  - o Hydro Ottawa, London Hydro and USF will participate

**14 ESA will send an email for volunteers and start working on proposals to revise the Section 7 & 8 Guideline (Action Item: 2023-02-01) – Jason Hrycshyn**

- Reminder that a call for volunteers was sent to the UAC

**15 Ontario Electrical Safety Report – Freda Lam**

- Move to the February 2024 meeting

**16 Essex Powerlines: PowerShare – Anthony Clavet (Essex Powerlines)**

- [www.powershare.energy](http://www.powershare.energy)
- Essex Powerlines presented on their PowerShare program
- From Reg 22/04 point of view there is a DER guideline. Have you seen that guideline? Was it impactful?
  - o Essex has looked at the guideline. Starting with DERs that don't have to be connected to the network. When Essex moves to DERs that need to be connected they may have some feedback and comments on the Guideline
- Will Essex need to have some sort of control over these DERs? Also saw that they may utilize standby generation so will there need to be upgrades to the system as standby generation is not set up to go back to the grid?
- Essex will not be dispatching customer assets. It will be a message to the office to bring an asset online. Will be looking at standby generation as well and will have to look at how to connect it to the grid.
- How did Essex engage asset owners to join in the program? Were there any technical requirements to be a part of the program?



- Primary requirement is that they are a client of Essex powerlines. If there are any upgrades that would be necessary then Essex Powerlines would be look after for making those upgrades.

#### **17 Multi-Stakeholder Survey – Declan Doyle**

- ESAs multi stakeholder survey has started, thanks to those who have responded
- We are looking for feedback from as many sources as possible
- There may be multiple individuals in the same organization asked to contribute to the survey, and we would encourage all to respond and provide meaningful feedback

#### **18 Buildings Encroaching on Powerlines – Patrick Falzon**

- Building departments approving drawings to build structures that encroach on LDC assets.
- Asking for any LDCs that are having challenges or having success is dealing with the building department
- Toronto Hydro is having discussions with the city trying to reinforce the clearance requirements
- USF had a working group to brainstorm different ideas that the USF members can add their logos to for clearance to overhead, underground and pools as well as tree trimming. This was from 2021. USF is continuing this program as it is still an issue. This is also an issue across Canada that has been discussed at CSA committees
- Hydro One has a lot of interest in this as they deal with a number of different municipalities at different levels. Municipalities do have a part to play and a responsibility for enforcing the building code
- ESA has had good conversations with the EDA on this as well as this is an issue that every LDC is experiencing
- ESA will be considering next steps and may reach out to the Council for feedback

#### **19 2024 Meeting Dates - Chair**

- February 29, 2024
- June 20, 2024 (in-Person)
- October 24, 2024
- It was asked why all Council meetings are not in person
  - o ESA has had discussions about this and had discussions with the councils. Time and burden were the two biggest concerns received as feedback as



we are looking to pull from across the province so it was decided to have one in person meeting per year for each council



## UAC Work Plan 2023

Objective 1: Develop an Understanding of Emerging Electrical Harms and Trends			
Key Action Steps	Timeline	Expected Outcome	Person Responsible
ESA presentation on the Harm Life Cycle	Spring 2023	UAC members understand the HLC objectives and process	ESA - Regulatory
Present annual OESR data	Fall 2023	Annual safety data is shared	ESA - Regulatory
OEB Safety Metrics	As required	Trends and concerns stemming from OEB's safety metrics are reviewed and discussed	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Regulatory</li> </ul>
Objective 2: Develop an Understanding of Issues Related to Reg 22/04			
Key Action Steps	Timeline	Expected Outcome	Person Responsible
Guideline Revisions	As required	Existing guidelines are revised to address changes to the OESC; emerging issues	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Regulatory</li> </ul>
Bulletins and Best Practices See Ongoing Projects for Details	As required	New bulletins are created to provide greater clarity on particular regulatory issues; current best practices are incorporated into historical bulletins	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Regulatory</li> </ul>
Compliance Assessment Overview	Fall 2023		<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Regulatory</li> </ul>
Ongoing Projects			
Working Group: Section 7 Guideline Revisions	Fall 2023; call for volunteers	Existing guideline is revised to address UAC input.	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Regulatory</li> </ul>
Working Group: Section 8 Guideline Revisions	Fall 2023; call for volunteers	Existing guideline is revised to address UAC input.	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Regulatory</li> </ul>
Distributor Bulletin: service entrance equipment	Ongoing	Distributor bulletin is developed to address service entrance equipment under the control of the equipment owner	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Regulatory</li> </ul>
Conflict resolution process for LDCs and Third Party Equipment Owners	Defer	A conflict resolution process for situations where attachment requirements conflict is developed	ESA - Regulatory
CSS and Street Lighting	Ongoing		<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Regulatory</li> </ul>

Objective 3: Advisory Council Governance and Management			
Key Action Steps	Timeline	Expected Outcome	Person Responsible
Member term renewals	Annual	Term renewals and expirations are proactively identified and addressed; vacancies are advertised	ESA - Stakeholder Relations
Governance refresher and best practices presentation	Every 2 years	UAC members are provided with advisory council best practices training	Third Party Governance Expert
Terms of Reference review	As required	Current terms to support a healthy council	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA – Stakeholder Relations</li> </ul>
UAC member survey and presentation of results	Every 2 years	Provide feedback to support a healthy council	ESA – Stakeholder Relations

Objective 4: Increase Awareness of Powerline Safety and Trends			
Key Action Steps	Timeline	Expected Outcome	Person Responsible
Notable electrical incidents	As required	UAC members and ESA understand the types of incidents and discuss potential solutions to address them	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Regulatory</li> </ul>
Powerline Safety Week	Spring 2023	UAC members and ESA discuss approach to annual Powerline Safety Week	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Communications</li> </ul>
Provide update on upcoming awareness campaigns	Spring 2023	UAC members are provided with information on campaigns; share suggestions on campaign approach and topics	<ul style="list-style-type: none"> <li>• UAC</li> <li>• ESA - Communications</li> </ul>
Provide update on campaign results	Fall 2023	UAC members are provided with statistics and data from campaigns	ESA - Communications
Electrical Safety Award Winners	Fall 2023	ESA presents Electrical Safety Award winners and highlights their achievements	ESA - Communications

## Terms of Reference – Updated June 2021

### UTILITY ADVISORY COUNCIL (UAC)

#### **Mandate and Role:**

This Utility Advisory Council is mandated to provide views and advice to ESA on matters specific to the electrical distribution sector.

The Utility Advisory Council (UAC) will act as an advisory body to provide advice and input with respect to, promoting safety, monitoring and reduction of electrical safety incidents and fatalities in Ontario, specific to the Electrical Distribution System. The mandate includes recommendations on new proposals, interpretations or revisions to the Regulation 22/04 Electrical Distribution Safety Regulation, bulletins, flash notices and guidelines as well as to provide input on the impact of the administration of the regulation.

#### **Objectives:**

- Review, refine and clarify the safety objectives identified in the Electrical Distribution Safety Regulation;
- Review, refine and clarify the Electrical Distribution Safety Regulation guidelines, bulletins and flash notices;
- Consideration of all proposals or requests for revision to the Electrical Distribution Safety Regulation;
- Advise and assist ESA in its efforts to communicate with members of the Electrical Distribution sector and the public<sup>1</sup>;
- Provide advice on safety policies proposed by the ESA (e.g. Bulletins);
- Provide advice on ways ESA can improve its business services (plan approval, inspection, etc.);
- Identify Ontario Electrical Safety Code or technical issues or concerns for referral to the Ontario Provincial Code Council or other ESA advisory councils for consideration; and
- Identify opportunities to improve electrical safety.

#### **Council Structure:**

- The Utility Advisory Council will be comprised of a minimum of 12 members and maximum of 25 members offering expert opinions;
- It is the intent of ESA to ensure that the UAC be comprised of a balanced representation of industry stakeholders;
- The UAC will be parties representing local distribution companies and various general interests according to the matrix below:
  - Local Distribution Company Council Members will be representative of the industry and stakeholder interests.

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<sup>1</sup> In this context, 'public' means those outside of the Electrical Distribution sector who are impacted by electrical safety issues. This includes consumers and workers in other sectors who experience electrical contacts, injuries, fatalities, and/or damage and loss.

	Minimum	Maximum
<b>Licensed Distribution Companies/Owner/ Operator</b>	8	13
<b>General Interest</b>	4	12

### **Member Appointments and Terms:**

- The term for Council members is three years. Members may be eligible for reappointment. Reappointment should be based on member attendance, engagement level participation, and continued relevance of the subject area of the member's expertise;
- In order to begin to track membership more accurately, current members, as of October 4, 2012 will be grandfathered and considered to be starting their first three-year term. After that time, there will be a review for members to consider reappointment or retire in rotation to ensure a balance of experience and fresh perspectives;
- As the UAC functions as an advisory body, it is important that members be drawn from among the appropriate distribution industry segments. Candidates should possess a strong grasp of the electricity distribution sector and be well regarded within the industry. People holding senior positions in organizations, associations or firms are considered the preferred candidates;
- Nominations for appointments will generally be obtained through the various organizations or associations that represent the viewpoints of parties affected by the Electrical Distribution Safety Regulations and those interested in promoting safety in the electrical distribution sector;
- Members will be selected based on their ability to represent broad constituencies to support ESA's strategic direction;
- Regular participation in UAC meetings is encouraged, however, alternates are acceptable.
- Members who regularly do not attend or participate, or continuously send an alternate representative may be asked to resign from the Council.

### **Appointment of the Chair and Vice-Chair:**

- The Council Chair will be selected by UAC members through a Council voting process. In addition to the election of a Chair, a Vice-Chair will also be elected by the members. Both the Chair and the Vice-Chair must be elected from the membership;
- The Term for the Chair position is two years with the option for the UAC to renew the position for an additional two year term;
- The Term for the Vice-Chair position is two years with the option for the UAC to renew the position for an additional two year term
- The members should consider the following criteria when electing the Chair and Vice-Chair:
  - Governance experience;
  - Experience leading teams through decision making processes;
  - Council or Committee experience ;
  - Proven commitment to positioning societal perspectives;
  - Experience applying Robert's Rules;
  - Ability to manage and engage others;
  - Time availability to support Council activities.

**Voting and Quorum:**

- Generally, the UAC will operate on a consensus-based process. In some circumstances recommendations may be made by a vote of the Council membership;
- Each member of the Council shall be entitled to one vote. Voting by proxy will be permitted provided that notice relative to the proxy has been filed with the Chair. The Chair will only vote in the case of a tie; and
- A quorum is required to vote, however it is not required to proceed with the meeting. A quorum shall consist of two-thirds of the voting membership, rounded down to the next integer value.

**UAC Technical Sub-Committees:**

- The UAC may wish to establish technical sub-committees to explore and make recommendations on technical issues that arise. The sub-committee acts only in an advisory capacity to the UAC. The Chair of the sub-committee shall be a member of the Council, but the membership of the sub-committee may include non-members of the Council.

**Utility Council Member Expectations:**

- Active participation and willingness to work on the Council;
- It is expected that the various associations, through their member(s) on the Council, will use the UAC as a forum for proposing changes and revisions to satisfy the needs of the segment of the industry that they are representing and to improve safety;
- Engage members of the electrical distribution industry in the delivery of public electrical safety in Ontario;
- Identify and make recommendations to ESA on ways to improve electrical safety;
- Ability to attend 4 meetings per year. Additional time for conference calls, material review, and participation/integration with other ESA Councils may be required;
- Ability to work in a multi-stakeholder environment; and
- Council members will be independent of ESA, and will identify any real or potential conflicts to the Chair of the Utility Advisory Council.

**ESA Support to Utility Council Members:**

- Quarterly summary of Council activities to ESA's Regulatory Affairs and Governance Committee;
- Additional staff support and training if needed;
- Financial support for out-of-pocket travel expenses to attend committee meetings;
- Council members whose costs are not covered by their employers are eligible to receive a meeting fee of \$250 and the Chair is eligible to receive a \$500 meeting fee;
- Networking support with other members; and
- Access to relevant ESA research materials and reports (e.g. Ontario Electrical Safety Report).

**Meetings:**

- The Council meets at least three times per year. Additional meetings may be called at the request of the Chair;
- Meeting agendas and supporting material will be sent to each member one week in advance of the meeting date; and
- Draft minutes will be distributed before the next meeting (targeting 2 weeks after the meeting). Revisions shall be presented within a UAC meeting, prior to approval. Revisions will be captured in the minutes of the current meeting with the approval. The minutes (with revisions) will be posted to the ESA website within 30 days of approval.

**Council Reporting:**

- As the Council provides advice to ESA, including the CEO and Executive Management Team, the Council may provide the CEO with an annual report to communicate:
  1. Key accomplishments
  2. Emerging issues
  3. Performance against annual objectives for the fiscal year.
- This report will ensure full disclosure and reinforce ESA's commitment to transparency and public accountability and should also inform on ESA's ability to support the activities of the Council.

###

**Attendance of Non-Members at ESA's Advisory Council Meetings:**

**ESA Board Members:** *ESA Board members may advise ESA Senior Management or the Chair of the Council that they intend to attend a Council meeting as an observer. However, the Board member has no voting privileges and will be invited to participate in the discussion by the Chair or ESA Senior Management when appropriate.*

**Public/Other:** *Members of the public or other guests are permitted to attend meetings at the discretion of the Chair and ESA. These guests have no voting privileges and will be invited to participate in the discussion by the Chair or ESA. Guests should be identified at the outset of the meeting.*

**ESA Staff and Consultants:** *Staff, consultants and other professionals retained by ESA are not considered guests at the meeting as they may be required to participate in the discussion to provide opinions and advice. These attendees will be identified to the Chair, they will be introduced at the outset of the meeting, and the Chair and ESA will allow their participation in the discussion when appropriate.*

December 8, 2023

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

## Update

Utility Advisory Council  
Jason Hrycyshyn



1


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

FLASH NOTICE #1	February 2023	May 2023	November 2023
Number of Possible Configuration of Concerns	Number of Possible Configuration of Concerns	Number of Possible Configuration of Concerns	Number of Possible Configuration of Concerns
~15,000	~2,983	~2,169	~1,261
Number of LDCs without a Possible Configuration of Concern	Number of LDCs without a Possible Configuration of Concern	Number of LDCs without a Possible Configuration of Concern	Number of LDCs without/with a Possible Configuration of Concern
12	41	42	44 / 17

2 UAC Presentation | December 8, 2023

2





A photograph of the Electrical Safety Authority building. The building has a large glass facade reflecting the sky. In the foreground, there is a white sign with the Electrical Safety Authority logo, which consists of an orange stylized 'E' with three horizontal lines extending from it, and the text 'Electrical Safety Authority' in black.

## Contact Us

Electrical Safety Authority  
155 Matheson Blvd. West  
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Visit our website: [esasafe.com](https://esasafe.com)

Visit us on social media:

 @homeandsafety  
 @ElectricalSafetyAuthority

3

December 7, 2023

# Flash Notice: Application of OESC within Distributor-Owned Stations (OESC Bulletin 2-31-\*)

## Information

Utility Advisory Council  
Sean Burger



1

## Flash Notice: Application of OESC within Distributor-Owned Stations

- Recently ESA published an Ontario Electrical Safety Code (OESC) Bulletin 2-31-\* Application of OESC to electrical installations within distributor-owned stations
- The intent of Bulletin 2-31-\* is to clarify the application of the OESC requirements for electrical equipment and electrical installations within distributor-owned stations, including Plan Review submissions, filing notifications of work and inspections.

2 UAC Presentation | December 7, 2023

**Distributor Flash Notice**  
Date Created: Month DD, YYYY  
Date Revised: Month DD, YYYY

**Application of OESC within Distributor-Owned Stations**  
**Distribution Company Awareness**

Recently ESA published an Ontario Electrical Safety Code (OESC) Bulletin 2-31-\* Application of OESC to electrical installations within distributor-owned stations.


The intent of Bulletin 2-31-\* is to clarify the application of the OESC requirements for electrical equipment and electrical installations within distributor-owned stations, including Plan Review submissions, filing notifications of work and inspections.

[OESC Bulletin including 2-31-\\* \(esa.on.ca/electrical-products/bulletins/\)](https://www.esa.on.ca/electrical-products/bulletins/)

**ESA Recommends**  
Electrical Distributors should review OESC Bulletin 2-31-\* for the application of OESC requirements within distributor-owned stations.

STATUS: 1 of 1  
Website: <https://www.esa.on.ca/electrical-products/bulletins/>  
E-Mail: [info@esa.on.ca](mailto:info@esa.on.ca)

2



A photograph of the Electrical Safety Authority building. The building has a large glass facade reflecting the sky. In the foreground, there is a white sign with the Electrical Safety Authority logo, which consists of an orange stylized 'E' with three horizontal lines extending from it, and the text 'Electrical Safety Authority' in black.

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Visit our website: [esasafe.com](https://esasafe.com)

Visit us on social media:

 @homeandsafety  
 @ElectricalSafetyAuthority

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## Application of OESC within Distributor-Owned Stations

### Distribution Company Awareness

Recently ESA published an Ontario Electrical Safety Code (OESC) Bulletin 2-31-\* Application of OESC to electrical installations within distributor-owned stations

The intent of Bulletin 2-31-\* is to clarify the application of the OESC requirements for electrical equipment and electrical installations within distributor-owned stations, including Plan Review submissions, filing notifications of work and inspections.

[OESC Bulletins including 2-31-\\* \(esasafe.com/electrical-products/bulletins/\)](https://esasafe.com/electrical-products/bulletins/)



### ESA Recommends

Electrical Distributors should review OESC Bulletin 2-31-\* for the application of OESC requirements within distributor-owned stations.






1

## Connection Authorizations

- OESC Rule 2-012 requires that no supply authority (Electrical Distributor), contractor, or other person connect or reconnect installations unless the installation and all related work are in compliance with the requirements of the OESC and a connection authorization (CA) has been issued by the Electrical Safety Authority.
- An increase of connections have been made by Electrical Distributors although a CA had not been issued. In some scenarios, either a homeowner, LEC or ESA Inspector had discovered that a service is energized, which presented a high risk of shock and L&OP defect with Rule 2-012.
- ESA is currently reviewing options to enforce compliance with Rule 2-012.

2 UAC Presentation | December 7, 2023

2



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Visit us on social media:

 @homeandsafety  
 @ElectricalSafetyAuthority

3

## Installations Inside of Buildings

### Distributor Awareness

The following bulletin provides information for Electrical Distributors to meet the required Safety Standards for supply services inside buildings, under Regulation 22/04.

### ESA Direction

For Electrical Distributor-owned electrical equipment (including conductors) located inside of buildings (other than inside vaults), the Safety Standards are considered to be met only when the installation meets the applicable requirements set out in the Ontario Electrical Safety Code (OESC).

The photo below shows an example of Electrical Distributor-owned high voltage feeder cables run in exposed DB2/ES2 conduit, within an electrical room. To meet the Safety Standards, the conduit inside the building shall meet applicable OESC requirements including being concrete or masonry encased.



### ESA Recommends

XXX XX, XXXX

1 of 2

**Bulletin DB-06-16-v2**

When Electrical Distributor-owned electrical equipment is planned to be installed inside a building (other than a vault), the Electrical Distributor should:

- Ensure that the installation work is based on standard designs and specifications that meet the applicable requirements of the OESC.
- Inform staff which inspect and complete a Record of Inspection for the installation(s), of the requirements in this bulletin.
- Ensure the service layout clearly indicates the ownership demarcation point, and the portion inside the building ahead of the ownership demarcation point, where the requirements of this bulletin applies for Electrical Distributor-owned equipment.






1

## Installations Inside of Buildings

### Distributor Bulletin

ESA is seeking to issue a Distributor Bulletin establishing direction for Distributors to apply the technical requirements of the OESC for supply services located inside buildings.

**OESC Definition:**  
Service, supply — any one set of conductors run by a supply authority from its mains to a consumer's service.



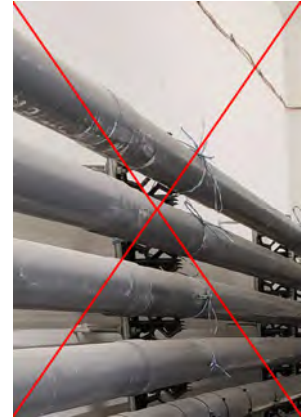
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# Installations Inside of Buildings

## Distributor Bulletin

**DB-06-16v2: ESA Direction** draft states: “**For Electrical Distributor-owned electrical equipment (including conductors) located inside of buildings (other than inside vaults), the Safety Standards are considered to be met only when the installation meets the applicable requirements set out in the Ontario Electrical Safety Code (OESC).**”



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# Installations Inside of Buildings


## Distributor Bulletin

**DB-06-16v2: ESA Recommends** draft states:

- Ensure that the installation work is based on standard designs and specifications that meet the applicable requirements of the OESC.
- Inform staff which inspect and complete a Record of Inspection and Certificate for the installation(s), of the requirements in this bulletin.
- Ensure the service layout clearly indicates the ownership demarcation point, and the portion inside the building ahead of the ownership demarcation point, where the requirements of this bulletin applies for Electrical Distributor-owned equipment. ”

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A photograph of the Electrical Safety Authority building. The building has a large glass facade reflecting the sky. In the foreground, there is a white sign with the Electrical Safety Authority logo, which consists of an orange stylized 'E' with three horizontal lines extending from it, and the text 'Electrical Safety Authority' in black.

## Contact Us

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Visit us on social media:

 @homeandsafety  
 @ElectricalSafetyAuthority

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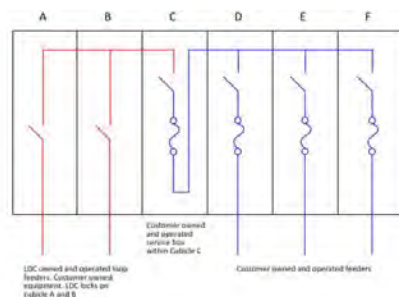
# Disconnect Switch Ahead of Service Equipment

Patrick Falzon, C. Tech  
Powerline Safety/Code Specialist  
Powerline Safety Group  
Electrical Safety Authority  
December 7, 2023

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## Disconnect Switch Ahead of Service Equipment

- LDC's has been requesting customer owned switches ahead of the service equipment
- Condition includes under the control of the supply authority
- Currently Bulletin 36-12-\* allows this type of configuration however for LDC owned loop feeders



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## Disconnect Switch Ahead of Service Equipment

ESA requested feedback from LDC's on their requirements and rationale for customer owned disconnect switch to be located before the customer's service equipment.

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## Disconnect Switch Ahead of Service Equipment

ESA did receive results back from the survey

- From the Utility standpoint, it's our only way to isolate metering equipment for changes/work without having operations cut the line. Secondly it also usually acts as a protective device to avoid blowing the transformer/riser fuse if their equipment main was to fault, keeping other customers online.
- Removal of incoming loadbreak / isolation switch will significantly increase feeder restoration time potentially delaying restoration for other critical Customers. Reliability will be adversely affected. Present configurations are proven to be safe and effective for many decades. Consistency and familiarity are vital for the safety of Distributor's operating crews.

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# Disconnect Switch Ahead of Service Equipment

ESA is currently reviewing a direction on this

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# Disconnect Switch Ahead of Service Equipment



- ~~ESA will consider allowing the disconnect switch to be installed ahead of the customer's service equipment under a deviation request provided:~~
  - ~~Documentation from the Distributor~~
    - ~~Conditions of Service~~
    - ~~Operating Agreement~~
  - ~~Load break capability~~
  - ~~Ganged (Group) operated~~
- The requirements of the OESC are required to be met and cannot be superseded by Distributors requirements
- The customer's distribution equipment is required to be protected at the point of supply in accordance with Rule 36-204
  - Rule 36-204
  - 1) Each consumer's service, operating unit of apparatus, feeder, and branch circuit shall be provided with overcurrent protection having adequate rating and interrupting capacity in all ungrounded conductors by one of the following:
    - a) a circuit breaker;
    - b) fuses preceded by a group-operated visible break load-interrupting device capable of making and interrupting its full load rating and that may be closed with safety to the operator with a fault on the system
  - Consumer service is defined in the OESC as all that portion of the consumer's installation from the service box or its equivalent up to and including the point at which connection is made to the supply service.
  - Supply service is defined in the OESC as any one set of conductors run by a supply authority from its mains to a consumer's service.

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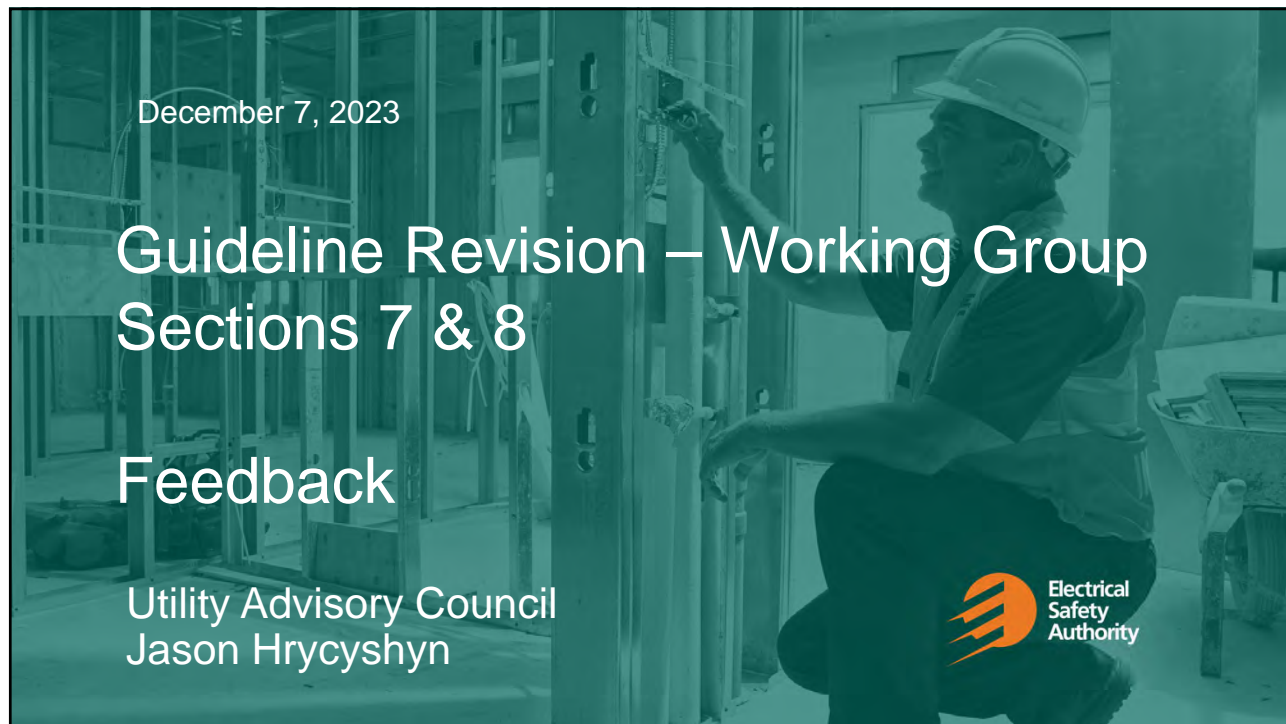
8

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- Visit us on social media:
  -  @homeandsafety
  -  @ElectricalSafetyAuthority

9 POWERLINE SAFETY IN ONTARIO





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## Guideline Revision – Working Group Sections 7 & 8

### Highlights

- Recently, ESA emailed Stakeholders a request for participation on a Guideline Working Group for Sections 7 & 8.
- ESA wanted to highlight this request in today's meeting and remind attendees that ESA will select participants within 2 weeks, of today.

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## Guideline Revision – Working Group Sections 7 & 8

### Highlights

- The Working Group will leverage the work done within the Third Party Attachers Working Group.
- ESA is suggesting a similar process, in which, ESA provides the Working Group with a seed document to work from.

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