



**Utility Advisory Council Members**

**LDC/Owner-Operator**

Alectra Utilities	Joseph Chiuco
Burlington Hydro	
Elexicon Energy Incorporated	
Festival Hydro	Bryon Hartung
Hydro One	Darren Desrosiers
Hydro One - Transmission	Ajay Garg / Fred Kouhdani
Hydro Ottawa	Edward Donkersteeg
Kitchener-Wilmot Hydro	Shevan Mustafa
London Hydro	Greg Sheil
Newmarket-Tay Power Distribution Ltd.	Alex Braletic
Toronto Hydro	Proxy to London Hydro

**General Interest**

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

**Other Attendees**

Kathryn Farmer (Electricity Distributors Association), Lori Gallagher (Utilities Standards Forum), Fred Kouhdani (Hydro One Networks Inc – Transmission), Stephen Cain, Ryan Zade (Ministry of Energy), John Barratt (Alectra), Peter Petriw (HONI), Rob Koekkoek, Amanda Garofalo (MGCS)

**ESA Attendees**

Nansy Hanna, Ray Yousef, Jason Hrycyshyn, Sean Burger, Mel Pace, Patrick Falzon, Claire Loucks, Freda Lam



**1 Notice & Quorum**

- The meeting had quorum

**2 Minutes of UAC Meeting**

The following motion was carried:

**Motion: To accept the minutes of the February 15, 2022 meeting**

**Motioned by:** Joseph Chiuco

**Second:** Darren Desrosiers

**Motion carried.**

**3 October 2022 Meeting In Person**

- The majority of council members were in favour of having the October 6, 2022 meeting in person
- ESA will look to arrange an in person meeting

**4 Open Action Items**

- 2019-02-04: Measurements Canada Meter Drawing Signed by a Professional Engineer – Jason Hrycyshyn
  - o Defer
- 2019-03-01: ESA to develop a process for facilitating resolution of conflict between LDCs and a Third Party equipment owner – Jason Hrycyshyn
  - o Defer
- 2021-03-01: Street Lighting Work that falls under CSS – Patrick Falzon
  - o Ongoing

**5 UAC Vice Chair Nominees and Vote - Claire Loucks**

- Peter Petriw put his name forward for Vice Chair
  - o Peter has been in the Utility industry for about 33 years
  - o Peter was a long standing member of the UAC in a previous position with Veridian Connections
- None opposed to Peter Petriw as Vice-Chair

**6 UAC Council Membership Group 1 - Claire Loucks**

- ESA will be sending letters to the Group 1 members
- Group 1 members of the UAC include
  - o Burlington Hydro



- Elexicon Energy
- Hydro One – Transmission
- Infrastructure Health & Safety Association
- Newmarket-Tay Power
- Toronto Hydro

**7 Bi-Annual Member Survey - Claire Loucks**

- Details on specific survey results can be found in the presentation
- How much is the reduction in LDC participation may be due to the reduction in the number of LDCs?
- Larger LDCs may need to forward this survey to multiple people in their LDC to provide feedback to ESA
  - ESA is good with multiple responses from each LDC, especially with LDCs that cover larger or multiple geographic areas

**8 Update on the 3-Phase 3-Wire Solidly-Grounded Wye Installations (Action Item 2020-03-01) - Jason Hrycyshyn**

- The update was provided. Over 70% of potential transformers have been either confirmed not to be of concern or the concern has been mitigated.
- The council discussed challenges with coordinating with some customers

**9 Lapsed action plans - 3-Phase 3-Wire Solidly-Grounded Wye Installations - Jason Hrycyshyn**

- ESA is asking the UAC for thoughts on how best to proceed with concerns about lapsed LDC action plans.
- Some LDCs are showing TBD for when they will be completed, some provide more information than others, some have stopped providing updates altogether
  - With all the turnover in the industry is it possible that a new person came in and knows nothing about this program?
  - Can ESA send a letter detailing the risks and the importance of getting these installations remedied before proceeding to the next steps?



**10 Scorecard - Component C - Jason Hrycyshyn**

- The working group had 2 meetings
- ESA met with the OEB between the 2<sup>nd</sup> WG meeting and the June 9<sup>th</sup> UAC meeting.
- ESA has decided to pause the working group and for now continue the current practices as per the OEB Instructional Document
- Electrical Distributors may wish to create a Working Group separate from ESA to review the component C of the scorecard and develop a proposal detailing possible adjustments of the criteria for this component.

**11 Building Broadband Faster Act, 2021 (BBFA) - Sean Burger**

- Current status of the Building Broadband Faster Act, 2021 is in the attached presentation

**12 Working Group: Third Party Attachment Guideline Revision/Reaffirmation - Sean Burger**

- ESA has recently received some questions that has prompted ESA to review the guideline
- As a result of BBFA and how accelerated will this guideline review be, and, if possible, accelerate the update of this guideline to catch up to BBFA
- ESA will be sending a request for volunteers for the working group to review this guideline
- Council members that have volunteered
  - o Peter Petriw
  - o London Hydro
  - o Tony Pereira

**13 New Draft Bulletin: In-Span Structures and Unsupported Conductors - Sean Burger**

- What will the updated standard consider as mechanical protection
  - o Mechanical protection in the application has not been defined
  - o An example discussed was a cross-arm attached to the top of the in-span pole
- The 2015 standard indicates that in-span poles are not allowed, but the practice is fairly common.



- The LDCs in attendance were looking to understand how they could use this bulletin to have 3<sup>rd</sup> party attachers complete their required work in a more timely fashion and hold them accountable when they do not
  - o Most joint-use agreements contain clauses and timelines that should ensure all work is completed in a timely manner and have penalties if the clauses and timelines are not met. The bulletin also contains that pole replacement projects should not exceed a 2 year period, within the ESA Direction section.
- An LDC member asked the Council if there is an appetite to have a working group to see if we can come up with alternatives to get the Communication Companies to comply?
- With the BBFA it is a good possibility that this will start to occur more frequently
- ESA will send the draft bulletin to the UAC and provide a week to provide feedback

**14 AGR25: Establish outcome measures and performance targets for the ESA that focus on cost efficiency and safety in the electricity sector - Freda Lam**

- The details of AGR25 are in the attached presentation

**15 Serious Electrical Incident Online Form - Sean Burger**

- ESA will ask the LDC volunteers to test the new online incident reporting form next week
- ESA is asking the testers to advise ESA if a bulletin is enough or if a webinar would be necessary or some other form of online training would be necessary

**16 Coroner's Inquest: Incident 2012 - Patrick Falzon**

- ESA brought the recommendations to the UAC as these recommendations are for all LDCs.
- The EDA has made a note of the findings and will distribute to LDCs
- ESA was asked if we can put out a communication and send to the same people that received bulletins?
  - o ESA will take this back and consider how best to inform LDCs

**17 Spring 2022 Storm - Ed Donkersteeg - Hydro Ottawa**

- Hydro Ottawa presented on the extent of the damage caused by the Derecho 2022 and the process of reinstating power
- Hydro Ottawa has been looking at their system design as a result of climate change and have been making updates to their standards



- Things like non-linear analysis have resulted in higher class poles being used and more storm guying being required
- Preliminary testing indicates composite poles may stand up better to storm conditions
- Building in failure points (like a cross-arm) so under extreme conditions a power line would fall to the ground and the poles are less likely to break

**18 Bulletin: Grounding and Bonding of Meterbases - Sean Burger**

- Update to CSA C22.2 No.115 was made to require a meterbase to be marked to indicate if a neutral assembly is permanently bonded to the meter enclosure or not.
- Details on the changes and ESA resources are in the presentation

**Motion:** To adjourn the meeting

**Motioned by:** Edward Donkersteeg

**Second:** Fred Kouhdani



## Vice Chair Nominees

Expression  
of Interest

Vote



## Group 1 Membership Expiring June 2022

Burlington  
Hydro

Elexicon Energy

Hydro One –  
Transmission

Infrastructure  
Health & Safety  
Association

Newmarket-Tay  
Power

Toronto Hydro





## Multi-Stakeholder Accountability Survey

- One of ESA's strategic goals is public accountability.
- Since 2015, ESA has worked with Innovative Research Group to design and execute a bi-annual, multi-stakeholder survey to gauge perceptions of ESA and identify areas for improvement.
- To measure accountability across stakeholder groups, three dimension were identified to collect feedback from stakeholder perceptions of ESA's accountability performance.

## Multi-Stakeholder Accountability Survey

Access	Practice	Outcomes
<ul style="list-style-type: none"> <li>• Awareness</li> <li>• Information</li> <li>• Ease of access</li> <li>• Responsiveness</li> </ul>	<ul style="list-style-type: none"> <li>• Fairness</li> <li>• Expertise</li> <li>• Transparency</li> <li>• Ethics/trust</li> <li>• Innovation</li> </ul>	<ul style="list-style-type: none"> <li>• Service</li> <li>• Value delivered</li> <li>• Value of oversight</li> </ul>

## Multi-Stakeholder Accountability Survey

- The overall mean accountability score/index averaged across all stakeholder groups and all 12 dimensions was 8.2 out of 10 – the same score as in 2019.
- [https://esasafe.com/assets/files/esasafe/pdf/Stakeholder\\_Research/ESA-2021-Multi-Stakeholder-Research-Final.pdf](https://esasafe.com/assets/files/esasafe/pdf/Stakeholder_Research/ESA-2021-Multi-Stakeholder-Research-Final.pdf)

## Key Takeaways

ESA's Multi-Year Accountability Index Score is steady from 2019.

Most stakeholder continue to have a strong positive impression of ESA.

Results among industry stakeholders are somewhat more mixed than other stakeholder groups.

Individual measures for homeowners are up directionally.

11 out of 12 measures for electricians are up directionally or stable from 2019.

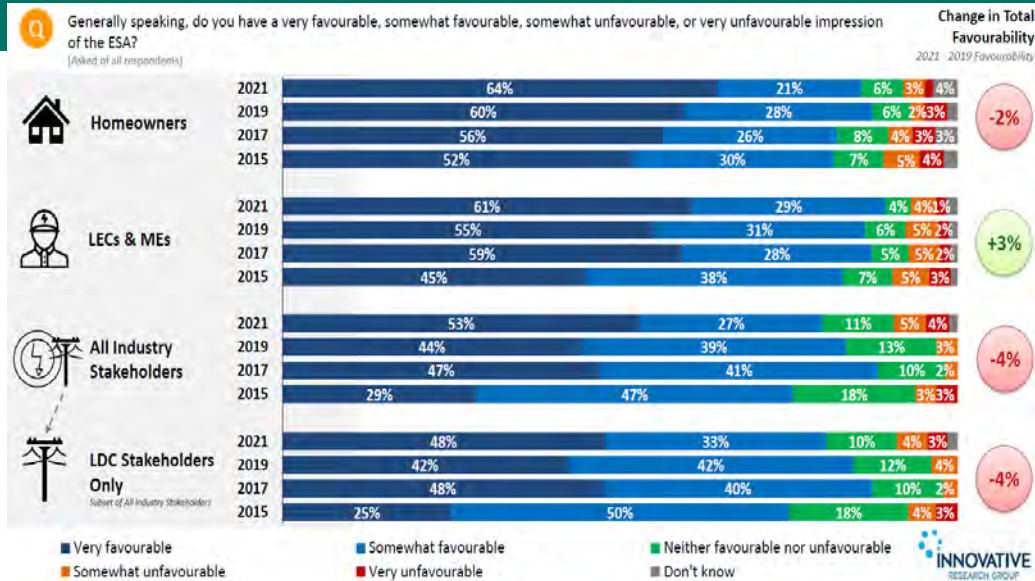
## Key Takeaways

Fairness and ethics, and connection and responsiveness are the top drivers of favourability towards ESA for homeowners and electricians.

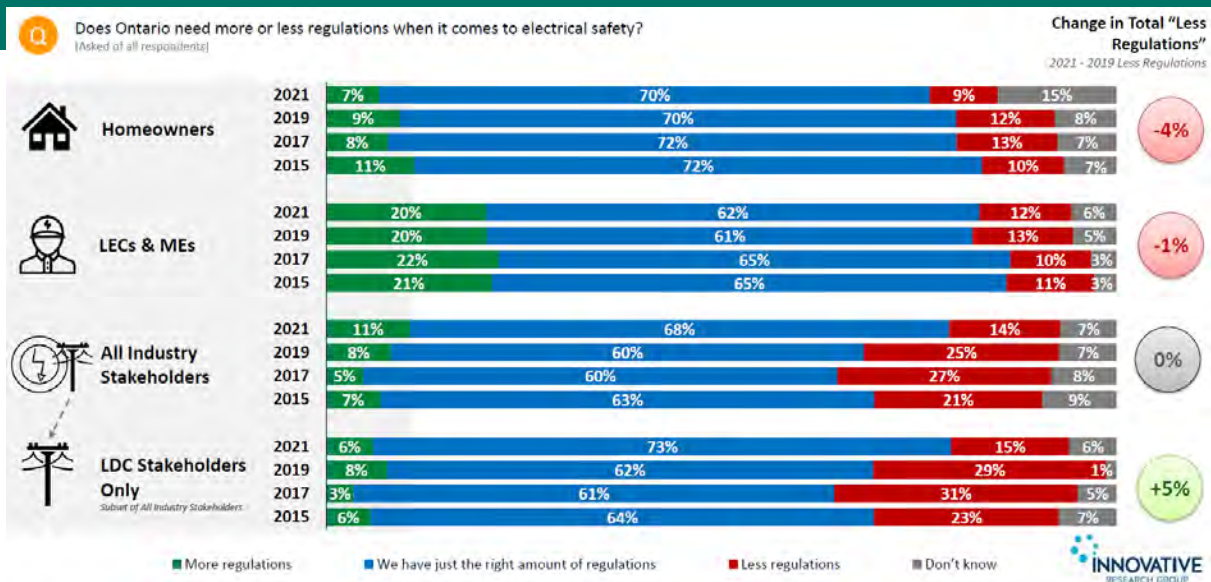
Service and value is the top driver of favourability towards ESA for industry stakeholders.

The share of electricians and industry stakeholders who feel that the sector is appropriately regulated has grown since 2019.

# General Impressions of ESA



# Electrical Safety Regulations



# Survey Responses and Feedback

In 2015, a standardized questionnaire was designed to be used using both online and telephone methodologies, with comparability between stakeholder groups being the most important aspect of development. The same standardized questionnaire has continued to be used in the 2<sup>nd</sup> (2017), 3<sup>rd</sup> (2019), and 4<sup>th</sup> (2021) wave of research which is the subject of this report.



The findings presented in this report are based on a series of online and telephone surveys conducted between November 5<sup>th</sup> and December 2<sup>nd</sup>, 2021.

The results are based on 1,585 completed surveys among qualified respondents in six stakeholder groups.

**Margins of Error:** Since the surveys conducted are random probability-based samples, a margin of error for each group can be calculated (shown below at 95% confidence):

LECs & MEs:  $\pm 3.1\%$  (0.31 pts on means)    All Stakeholders:  $\pm 10.0\%$  (1.0 pts on means)

Homeowners:  $\pm 4.4\%$  (0.44 pts on means)    LDC Stakeholders:  $\pm 11.3\%$  (1.1 pts on means)

Stakeholder Group	Methodology	2015 Sample Size	2017 Sample Size	2019 Sample Size	2021 Sample Size
<b>LECs &amp; MEs</b> <i>LEC or ME who has had direct interaction with the ESA within the past 12 months</i>	Telephone	972	1,001	1,000	1,000
<b>Homeowners</b> <i>Individuals who have taken out an electrical permit within the past 12 months</i>	Telephone	500	502	500	500
<b>LDC Managers</b>	Online	107	126	70	55
<b>LDC CEOs or C-Suite</b>	Online	17	17	8	12
<b>Safety Stakeholders</b>	Online	15	11	9	6
<b>Product Safety Stakeholders</b>	Online	21	16	10	12
<b>Total</b>		<b>1,632</b>	<b>1,673</b>	<b>1,597</b>	<b>1,585</b>

## Questions?



June 9, 2022

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

## Update

Utility Advisory Council  
Jason Hrycyshyn



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

FLASH NOTICE #1	May 2021	January 2022	May 2022
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	~7,038	~5,416	~4,275
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 a Possible Configuration of Concern
12	32	35	38



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June 9, 2022

# Lapsed Action Plans 3-Phase 3-Wire Solidly-Grounded Wye Customer Services

## Feedback

Utility Advisory Council  
Jason Hrycyshyn



## Lapsed Action Plans

ESA has been requesting updates periodically from Electrical Distributors, via email with varying levels of success.

ESA is considering options for addressing Electrical Distributors that are:

- Past their target completion date; or
- The target completion date current states "to be determined" (TBD).

Some options may include

- Letters from the Statutory Director
- Meeting with the Electrical Distributor
- Other options?





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February 15, 2022

# Scorecard – Component C

## Update

Utility Advisory Council  
Jason Hrycyszyn



## Scorecard – Component C

### BACKGROUND INFORMATION

- Component C addresses “Serious Electrical Incidents”, under the “Performance Categories” of Safety
  - “Number of General Public Incidents” and “Rate per 10, 100, 1000 km of line”
- Working Group last convened a meeting over 10 years ago

### Current Working Group Update

- Working Group Meeting #2 – May 11, 2022
- Working Group Meeting #1 – March 30, 2022
- **Objective from last UAC:** Working Group’s objective will be to ensure the best metric for evaluating LDC safety performance. The scope will not be limited to Serious Electrical Incidents, as defined in Section 12 of Regulation 22/04, in order to achieve the objective.
- Results of the Working Group will be brought to the UAC.

<sup>2</sup> UAC Presentation | June 9, 2022

## Scorecard – Component C

### STATUS UPDATE

- The Working Group is providing ESA with excellent feedback and discussion.
- ESA wants to study the feedback and after analysis either:
  - Present the Working Group with either a revised or reaffirmed “Instructional Document”; or
  - Reconvene the Working Group to refine and discuss the path forward, prior to having the Working Group review a revised, draft “Instructional Document”

3

UAC Presentation | June 9, 2022

## Scorecard – Component C

### WORKING GROUP MEMBERS

Greg Sheil	London Hydro
Darren Desrosiers	Hydro One
Marvio Vinhaes	ENWIN
Colin Hicks	Entegrus
Afshin Daryaei	Toronto Hydro
Scott Nichols	Hydro Ottawa
John Barratt	Alectra
Allan Van Damme	London Hydro

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UAC Presentation | June 9, 2022



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June 9, 2022

# Building Broadband Faster Act, 2021 (BBFA)

## Information

Utility Advisory Council  
Sean Burger



## Building Broadband Faster Act, 2021 (BBFA)

### Background Information

Accelerated High-Speed Internet Program (AHSIP) - (previously the Accelerated Broadband Program)

#### **Building Broadband Faster Act, 2021**

The purpose of the Act is to expedite the delivery of broadband projects of provincial significance. The Government of Ontario has committed almost \$4B to connect every region of Ontario to reliable, high speed internet by the end of 2025.

In April 2021, the Ontario Legislature passed the *Supporting Broadband and Infrastructure Expansion Act, 2021*. A key outcome of this legislation was that it enacted the *Building Broadband Faster Act, 2021 (BBFA)*.

# Building Broadband Faster Act, 2021 (BBFA)

## Guideline

- On November 30, 2021, the Ministry of Infrastructure (MOI) and Infrastructure Ontario (IO), supported by the Ministry of Energy (ENERGY), released the ***Building Broadband Faster Act Guideline (Guideline)***.
- The Guideline sets out new best-practice processes and timelines for internet service providers (ISPs) and local distribution companies (LDCs) which can enhance the deployment of high-speed internet infrastructure as part of supporting provincially designated broadband projects.

3 UAC Presentation | June 9, 2022

# Building Broadband Faster Act, 2021 (BBFA)

## Regulation

- To support accelerated broadband deployment, ENERGY proposed a regulation under the *Ontario Energy Board Act, 1998* to require LDCs to act in broad alignment with certain elements of the Guideline.
- **O. Reg. 410/22: Electricity Infrastructure - Designated Broadband Projects** was filed and came into force on April 21, 2022. You can find the text of the regulation here:
- <https://www.ontario.ca/laws/regulation/r22410>

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June 9, 2022

# Working Group – Third Party Attachment Guideline

## Feedback

Utility Advisory Council  
Sean Burger



## Working Group – Third Party Attachment Guideline

### Background

- Third Party Guideline has not been revised since original in 2005.
- There have been recent questions from an LDC regarding minimum drawing requirements, requiring revisions to the guideline.
- Comprehensive review of the guideline is necessary.
- ESA is proposing to initiate a Working Group.



# Working Group – Third Party Attachment Guideline

## Next Steps – Looking for Feedback

- Decide on the timing of the update
- ESA will send a request for any proposed changes to the Guideline
- **Set up a minimum 3, half-day meetings** for Working Group sessions
- Generate a proposal for ESA to consider
- Present **the proposal to the UAC for feedback.**
- Post revised Guideline to ESA website

3 UAC Presentation | June 9, 2022



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4 UAC Presentation | June 9, 2022

June 9, 2022

# New Draft Bulletin: In-Span Structures and Unsupported Conductors

## Feedback

Utility Advisory Council  
Sean Burger



## New Draft Bulletin: In-Span Structures and Unsupported Conductors

### BACKGROUND INFORMATION

The intent of this bulletin is to inform Electrical Distributors of Regulation 22/04 requirements with respect to the creation (by structure alteration) or installation of an in-span structure (e.g. a pole) which does not support all supply and communication lines.

# New Draft Bulletin: In-Span Structures and Unsupported Conductors

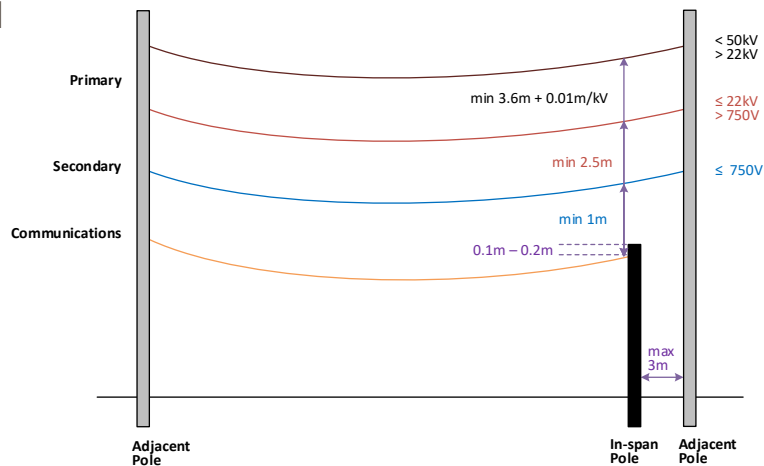
## BACKGROUND INFORMATION

- The intent of this bulletin is to inform Electrical Distributors of Regulation 22/04 requirements with respect to the creation (by structure alteration) or installation of an in-span structure (e.g. a pole) which does not support all supply and communication lines.
- Pole replacement project plans sometimes include in-span (i.e. mid-span) poles to be created or installed for a temporary period of time. This work is commonly referred to as “pole stumping”, “double poling”, “cutting off the tops of poles”, “pole topping” or similar.
- The ESA direction in this bulletin aligns with a proposal to amend subparagraph 5.8.3.3 of C22.3 No.1 Overhead Systems for the 2025 edition.

3 UAC Presentation | June 9, 2022

# New Draft Bulletin: In-Span Structures and Unsupported Conductors

## DIAGRAM



4 UAC Presentation | June 9, 2022

# New Draft Bulletin: In-Span Structures and Unsupported Conductors

## ESA DIRECTION

- Where communication lines are in joint-use with supply conductors rated up to 50 kV, in-span structures that do not support all supply and communication lines shall be avoided unless all of the following conditions are met:
  - The in-span pole is associated with a pole replacement project, and only exists for the duration of the pole replacement project. The pole replacement project should not exceed a 2 year period.
  - A working space at the in-span pole is provided by:
    - mechanical protection that is installed for the safety of workers on the in-span pole, that is agreed upon by the parties involved; or
    - the following minimum clearances are met between the communication attachment at the in-span pole, and the un-supported supply plant under maximum sag conditions:
      - 1000 mm for supply plant less than 750V;
      - 2500 mm for supply plant greater than 750V and less than 22kV; and
      - 3600 mm + 0.01 m/kV for supply plant over 22kV.
- The new pole is installed within 3m of the in-span pole's location, where practicable; **and**
- The separation at the in-span pole between top of pole and the highest communication attachment point is between 100 mm to 200 mm, when mechanical protection is not installed.

5 UAC Presentation | June 9, 2022

# New Draft Bulletin: In-Span Structures and Unsupported Conductors

## ESA RECOMMENDS

- In-span structures which do not support all supply and communication lines should be documented and monitored for the completion of transferring communication attachments and removal of the in-span structures within 2 years.
- The Electrical Distributor's agreement, timelines and safety measures (such as mechanical protection installed on the in-span pole), should be communicated with all parties involved.
- The best approach for transferring attachments is through proactive and adequate coordination between the pole owner and other attachment owners, which avoids in-span structures.

6 UAC Presentation | June 9, 2022



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# Auditor General Recommendation 25

Utility Advisory Council  
June 9, 2022



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Authority



# AG recommendation 25

## 4.9.2 The Ministry Has No Performance Targets Set to Assess ESA's Operational Performance

The administrative agreement requires that the Ministry work with the ESA to establish performance targets to hold the ESA accountable in fulfilling its mandate. However, we found that the Ministry has not set any meaningful measures and targets to assess ESA's performance.

In 2015, the ESA set a target to achieve, by 2020, a 20% decrease in the combined rate of electrical fatalities and critical injuries compared to that in 2015. In 2020, the ESA reported to the

Ministry that it had achieved an 18.4% decrease. We found that the Ministry primarily reviews the electrical fatalities and critical injuries reported in Ontario to assess the ESA's performance. However, the Ministry has not used meaningful operational performance metrics to ensure that the ESA is operating effectively and in a cost-efficient way to carry out its responsibilities under the Acts. The Ministry's review is limited to the number of calls the ESA receives and the number of inspections it conducts each year to measure the ESA's operational performance. However, these numbers alone cannot be used to assess how well the ESA is managing its operations. A performance measure must be specific to a desired outcome and include time-limited targets for improvement. Outcome measures of this kind have not been developed.

As we discuss throughout the report, the ESA has been operating inefficiently. For example, as discussed in **Section 4.1.1**, the ESA did not have a comprehensive risk-based inspection approach for most of its existence that would have allowed the ESA to streamline its operations and focus its costly inspector resources more on inspecting complex installations and less on simple installations.

## RECOMMENDATION 25

To confirm that the Electrical Safety Authority (ESA) is meeting its mandate to improve public electrical safety in a cost-effective way, we recommend that the Ministry of Government and Consumer Services:

- establish outcome measures and performance targets for the ESA that focus on cost efficiency and safety improvement in the electricity sector;
- on a regular basis, assess the ESA's performance against these targets; and
- take corrective actions when the ESA does not achieve the targets.

# Safety

## Improving electrical safety

- 10% reduction in combined critical injuries and electrical fatalities over a five-year rolling average



# Compliance

## Assessing the effectiveness of the risk-based inspections model

- Target for the percentage of the high- and medium-risk notifications inspected/visited will be developed in fiscal year 2022-23

# Cost efficiency

## Improving organizational excellence

- 10% increase in the Organizational Excellence Index over five years

# Customer service

## Improving accountability

- Maintain an accountability score of 8.2 out of 10 over five years

## Improving customer satisfaction

- Maintain a satisfaction rate of an average of 8.0 out of 10 over five years

## 25.2 Assess the ESA's performance against these targets on a regular basis

- The safety, current cost efficiency and customer service targets are all included in the Annual Report which MGCS reviews.
- The compliance metric is posted monthly on ESA's website: <https://esasafe.com/risk-based-oversight/target-report/>

## 25.3 Take corrective actions as appropriate when these targets are not achieved by ESA

- ESA is expected to inform MGCS as soon as they become aware they are not going to meet a target.
- ESA is expected to inform MGCS as soon as they become aware they need to change a metric/target.
- If ESA misses a target, an explanation is owed to MGCS and ESA must advise when they will meet the target.

# Questions?

October 7, 2021

# Serious Electrical Incident Reporting Auditor General Recommendation Information

Utility Advisory Council  
Sean Burger, P.Eng.



## Serious Electrical Incident Reporting Auditor General Finding

ESA had an External Auditor come in and they

1. **Observed** that "... some of the mandatory reporting serious electrical incidents that were reported by distributors were missing details... and unable to determine if these incidents were reported within 48 hours."
2. **Recommended** that "ESA consider automation for on-line reporting of the serious electrical incidents by distributors. This could address the issue of incomplete information as being reported by some distributors"

## Serious Electrical Incident Reporting ESA Proposed Action to Address Audit Finding

### Current Process:

- LDCs notify ESA via telephone, fax or email to the CSC
- LDCs can also send the SEI information directly to [ESA.Cambridge@electricalsafety.on.ca](mailto:ESA.Cambridge@electricalsafety.on.ca).
- Information to be sent by the LDCs is outlined in *Guideline for Serious Electrical Incident Reporting*.

### Proposed Process (Implementation July of 2022):

- New online form for reporting on ESA UR website
- Information automatically distributed to CSC and UR staff
- Copy of form submitted can be sent to the submitter or others
- As a transition current methods of reporting may still be utilized as alternative

3    October 7, 2021

## Serious Electrical Incident Reporting ESA Proposed Action to Address Audit Finding

### User Acceptance Testing (Week of June 13<sup>th</sup>):

- Volunteers from October 2021 UAC meeting will be contacted for testing and feedback of new online form

### Distributor Bulletin (1<sup>st</sup> week of July) :

- New process flow
- How to use new form
- Expectations from ESA
- Proposed go live date July 2022

4    October 7, 2021



Thank You



Utility Advisory Council June 9, 2022

## Coroners Inquest Information

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



## Coroners Inquest

### Hydro Vac Operator Fatality

- Based on the fatality of a hydro vac operator which occurred in 2012, the Office of the Chief Coroner (OCC) for Ontario performed an inquest
- OCC posted verdicts and recommendations in the case of the deceased Barry Robertson
- <https://www.ontario.ca/page/2021-coroners-inquests-verdicts-and-recommendations#section-2>



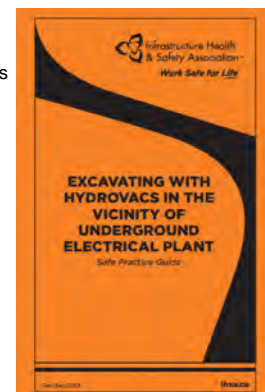
## Coroners Inquest

- The jury provided three recommendations to the:
  - 1) Ministry of Labour, Training and Skills Development and the Infrastructure Health and Safety Association:
    1. Safety courses for construction workers who operate equipment near powerlines, consider including a special emphasis on teaching the need for a dedicated signaller with sufficient knowledge for all crews.
    2. Consider hands on simulation.
    3. Consider emphasizing the requirement for workers to stop working, step back and re-assess.
    4. The MLTSD should consider endorsing recommendations 1,2 and 3.

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## Coroners Inquest

- 2) Infrastructure Health and Safety Association
  1. Explore literature to increase safety of workers when nearing live powerlines
    - use of rubber mats;
    - use of overhead wrap around conductors;
    - adding signage;
    - adding visual indicators of the powerlines;
    - Equipping each construction site with an automated external defibrillator
    - use of an insulated booms;



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## Coroners Inquest

### 3) Electrical Utilities

1. Provide documented information to contractors and subcontractors on the hazards of the job including power line height and voltage.
2. Increase site visits of the active job sites to ensure compliance.
3. Review contractors'/sub-contractors' safety-related training records and the company's health and safety policy and procedures to ensure they are up-to-date and sufficiently meet safety requirements.
4. Perform an annual assessment and orientation refresher with long-standing contractors.
5. Assess the protocols in determining when to turn off the power lines for contracted jobs; when possible, turn off the power.
6. Review and assess the protocol to have the electrical company called before 911 emergency personnel in the event of an incident to avoid delay of assistance.

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June 9, 2022

# New Draft Bulletin: Grounding and Bonding of Meterbases

## Feedback

Utility Advisory Council  
Sean Burger



## New Draft Bulletin: Grounding and Bonding of Meterbases

### BACKGROUND INFORMATION

CSA standard for meterbase, CSA C22.2 No. 115 has been revised in 2020 to require a meterbase to be marked to indicate if a neutral assembly is permanently bonded to the meter enclosure or not.

The neutral assembly may be installed at the manufacturing facility or in the field with a provided kit.

The meterbase certified to the updated standard will be marked to indicate if the neutral assembly is bonded or isolated from the enclosure (i.e. frame) with either of the following markings:

“PERMANENTLY BONDED NEUTRAL ASSEMBLY”, or equivalent wording; or  
“PERMANENTLY ISOLATED NEUTRAL ASSEMBLY”, or equivalent wording

## New Draft Bulletin: In-Span Structures and Unsupported Conductors

### BACKGROUND INFORMATION



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## New Draft Bulletin: Grounding and Bonding of Meterbases

### BACKGROUND INFORMATION

OESC Rule 10-210 requires the grounded conductor (neutral) of a solidly grounded ac system supplied by the supply authority to be grounded at the consumer's service, either at the meterbase or service box.

The allowable consumer service grounding and bonding method (permitted by the OESC and Bulletin 10-15-\*) is based on the specific neutral assembly configuration within the meterbase. For example, an isolated neutral assembly within the meterbase requires a bond conductor to be installed in the service raceway to the service box in both cases, when a grounded conductor is grounded either at the meterbase or service box.

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# New Draft Bulletin: Grounding and Bonding of Meterbases

## ESA RECOMMENDS

- Information regarding the various possible neutral assembly configurations and markings for meter mounting devices should be reviewed and communicated to the Electrical Distributor's operational staff.
- The associated methods of grounding and bonding should be reviewed and communicated to the Electrical Distributor's operational staff.
- Electrical Distributors should consider meterbases with isolated neutrals as acceptable for installation by LECs.
- Electrical Distributor should review with operational staff how to address isolated neutral assemblies that do not have a bonding conductor:
  - The Electrical Distributor should not energize the customer; and
  - The incident should be reported to the local ESA Inspector.

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