

Proposal Number: 2018-OA-023

Rule 30-1009 - New

Description of Change: Clearances of poles supporting luminaires

Proposed by: Electrical Safety Authority

Background:

Often we see installations in which the City or a private owner installs a pole used to support lighting adjacent to or underneath existing overhead powerlines that are owned by the supply authority. The clearance of the installation does not meet the minimum safety requirements of CSA 22.3 No.1 Overhead Systems or the supply authority.

Rationale:

Currently when an inspector inspects a pole is installed close to the supply authority's overhead distribution lines, the inspector cannot issue a defect against the installer. This would require a public safety concern letter to be issued to the supply authority to determine if the clearance of the pole to the existing distribution lines meets the minimum requirements. This adds unnecessary costs and burden to the supply authority when sending a crew to field verify that minimum clearances have been met. Additionally, if the pole has not met the minimum clearance, there will be additional costs to the installer to relocate the pole and wiring.

Nowhere in Section 30 (Permanent outdoor floodlighting installations) is there a rule that addresses clearance requirements from existing overhead powerlines when installing poles supporting only lighting such as floodlights and park path lights.

Rule 75-710 contains clearances when installing privately owned overhead primary lines to existing structures such as flag poles or floodlighting poles.

Example of outdoor lighting in close proximity to overhead lines



Proposed Change:

Add new Rule 30-1009

30-1009 Clearances of poles supporting luminaires (see Appendix B)

- (1) Where poles are installed to support luminaires, they shall have sufficient clearance from overhead primary and secondary lines including neutral lines so as to permit the pole to fall in an arc without touching the conductors at rest.
- (2) Where poles are installed to support luminaires near distribution lines owned by the supply authority, the clearances maintained shall be in accordance with the requirements of CAN/CSA-C22.3 No.1 or the supply authority, whichever is greater.

Add new Appendix B note to Rule 30-1009(2)

Rule 30-1009(2)

CAN/CSA-C22.3 No.1 requires a minimum 0.5 m vertical clearance for insulated conductors ranging from 0-750 V and 2.5 m vertical clearance for non-insulated conductors above 750 V to 22 kV phase to ground at maximum sag above the pole supporting luminaires. The supply authority may have additional clearances that are required to be met.