

Proposal Number: 2018-OA-024

Rule 30-1300

**Description of Change: Amend requirement for roadway lighting systems near
distribution lines**

Proposed by: Electrical Safety Authority

Background:

Often we have installations in which the city installs a pole used to support roadway lighting close to 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 supporting a luminaire on a public right of way which is located near 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 this 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.

Revised Sub-Rule (4) - This was an addition into the 24th Edition/2009 of the OESC to Rule 75-310 *Primary and secondary line clearances* (Rule 75-706 of the 25th Edition/2012) identifying CSA 22.3 No 1 as a recognized standard for the installation of overhead distribution lines owned by the supply authority. Rules in Section 75 relating to roadway lighting systems were moved into Section 30 in the current edition of the code as a general clean up. The current wording of installing high and low voltage lines on public right of ways has no relevance to the installation of roadway lighting systems.

Added new Sub-Rule (5) - Nowhere in Section 30 (Roadway lighting system installations) is there a rule that addresses clearance requirements from existing overhead powerlines when installing poles supporting only roadway lighting.

Example of roadway luminaire in close proximity to overhead lines



Proposed Change:

Amend Rule 30-1300

30-1300 Roadway lighting systems

- (1) Roadway lighting systems shall be installed in accordance with Rule 2-024(3) and Rules 30-1000 to 30-1036, except that Rule 30-1006(1) need not apply.
- (2) In-line fuseholders shall be acceptable to satisfy the requirements of Rules 30-1002 and 30-1008 for single luminaires fed from overhead distribution systems where a dedicated roadway lighting bus is not available.
- (3) Grounding and bonding of roadway lighting luminaires shall be as required by the authority having jurisdiction over the infrastructure installed on the public right-of-way.
- (4) Notwithstanding Subrule (1), ~~for high and low voltage line installations on public right of ways, for the purpose of roadway lighting systems or traffic control systems, CAN/CSA C22.3 No. 1, Overhead systems, or the Ontario Provincial Standards shall be permitted~~ for the installation of roadway lighting systems or traffic control systems.
- (5) Poles that are installed to support roadway lighting near distribution lines owned by the supply authority, shall meet the clearance requirements of the supply authority.