

## 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. The Ontario Electrical Safety Code (OESC) defines supply services as any one set of conductors run by a supply authority from its mains to a consumer's service.

### ESA Direction

For Electrical Distributor-owned electrical equipment (e.g. conductors and ducts) associated with supply services located inside of buildings (other than inside vaults accessible only to the Electrical Distributor), the safety standards of section 5 of Regulation 22/04 are considered to be met only when the installation meets the applicable requirements set out in Rules 2-100 to 2-404 of section 2 and in sections 3, 4, 10, 12, 14, 18, 26, 28, 36, 75, 80 and 84 of the OESC.

Regulation 22/04 sections 6, 7, 8 are required to be followed, including an approved Construction Verification Program (CVP). A notification of work is not required to be filed with ESA for these installations.

The photo below shows an example of Electrical Distributor-owned high voltage cables run in exposed DB2/ES2 ducts, inside a building (not inside a vault accessible only to the Electrical Distributor). Rule 12-1152 restricts the use of DB2/ES2 ducts in above ground applications except installed in walls, floors, and ceilings where encased or embedded in at least 50 mm of masonry or poured concrete, per Rule 12-1150 b).



The photo below shows an example of Electrical Distributor-owned high voltage cables run in a service room accessible not only to the Electrical Distributor. A service room is defined in the OESC as a room or space provided in a building to accommodate building service equipment. Rule 36-110 requires that the exposed insulated conductors be accessible only to authorized persons and isolated by elevation or by barriers.



## ESA Recommends

When Electrical Distributor-owned electrical equipment is planned to be installed inside a building (other than inside vaults accessible only to the Electrical Distributor), 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 that inspects and completes a Record of Inspection or 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.