

CORPORATION OF BURNABY

BY-LAW NO. 275.

A By-law to amend the "Burnaby Wiring Regulation By-law 1910, Amendment By-law 1911."

The Municipal Council of the Corporation of the District of Burnaby ENACTS AS FOLLOWS:

1. Section 43 of the "Burnaby Wiring Regulation By-law 1910 Amendment By-law 1911" being By-law No.112 of the said Corporation is amended by adding thereto the words "All A.C. Motors 7½ H.P. or over must be provided with Auto Starter."

2. Section 44 of the said By-law No.112 is hereby repealed and the following substituted therefor:

"44. 1. No 2000 Volt wiring will be allowed unless plans are prepared and submitted to the Wiring Inspector for approval. These plans must show the type and make of apparatus to be used, together with a complete wiring diagram showing sizes of conduit and cable.

2. At the nearest accessible place where the service enters the building, there shall be installed an entrance cabinet. This cabinet shall be of wood and constructed in a rigid and substantial manner. It shall be lined with asbestos wood, slate or marble. This lining shall be at least ¼" in thickness. The cabinet shall be constructed of well seasoned hardwood of at least ¾" in thickness and shall be painted on the outside with two coats of paint. The door of this cabinet must be supported on substantial hinges and the construction throughout shall be such as to form a dust-proof enclosure.

3. There shall be installed in the entrance cabinet disconnecting switches and fuses with substantial barriers

separating same. The disconnecting switches shall be installed on the line side of the fuses. These switches must be supplied with an operating hook and handle of sufficient length to enable the switches to be opened from the ground.

4. If more than one motor is installed, a distribution cabinet shall be installed of similar construction to the entrance cabinet. In this cabinet will be installed disconnecting switches and fuses for each individual motor. These switches must be installed on the line side of the fuses.

5. The wiring in these cabinets shall be done with approved rubber covered wire approved for 2500 volts. This wiring shall be supported on porcelain insulators, and must have a separation of at least one inch from the surface wired over and the wires shall be kept at least eight inches apart. Where the wires are less than eight inches apart, each wire must be separately incased in flexible loom.

6. Motors must be wired with approved multiple conductor lead sheathed cable, in approved metal conduit. Conduit must be at least one size larger than the conduit sizes specified for rubber covered wires. The conduit must enter entrance and distribution cabinets, also the casings of starting devices. The insulation of the conductors where leaving the lead sheath of the cables must be thoroughly protected from moisture and mechanical injury by the use of approved potheads or their equivalent. A conduit similar to the Grouse Hinds Type A, will be accepted in lieu of a pot head for inside work only for terminal fittings, but an approved service pothead must be used for outside work. The condulets and pothead must be filled with insulating compound. At the motors, all open wiring must be protected by metal guards, which must be permanently secured to the conduit by screws or bolts. In the grounding of the conduit and lead sheath approved ground clamps only must be used.

7. It is suggested that where condulets are used at

terminal fittings a Type C conduit fitting be used to make accessible the ground connection to the lead sheath.

8. Disconnecting switches controlling more than one motor must be so marked that the wrong disconnecting switch will not be accidentally opened.

9. Oil switches being liable to leakage, must be protected by disconnecting switches.

10. The bases of all disconnecting switches and fuses must be made of marble at least one inch in thickness."

3. Section 45 of said by-law No.122 is hereby repealed and the following substituted therefor:

"45. "1. All cabinets, cutout boxes, and meters shall be placed at a distance of approximately 7'6" above the floor level. Deviation from this rule will be allowed only when same are located in places especially built for these devices.

2. All cutouts, switches, and operating devices which have exposed current carrying parts, shall be enclosed in sheet metal boxes of at least #16 U.S. guage in thickness or cast iron boxes of at least one-eighth inch in thickness.

3. All switches installed on circuits of over 150 volts between conductors must be of the externally operated type. These switches shall be installed directly ahead of the fuses, and so installed that they will disconnect the fuses, from all sources of electrical energy. Deviation from this rule will be allowed where the running fuses on motor circuits are in convenient access to the starting fuses, in which case the switch may be omitted.

4. All cabinets and cutout boxes when used to enclose devices of not over 500 volts A.C. between conductors, shall be lined with one-eighth of an inch of asbestos board or other standard insulating material unless an air space of at least one inch is maintained between the nearest current carrying

parts of the device mounted within the cabinet and the walls, door or partitions, if of metal.

5. There must be an air space, except at points of support at least one-sixteenth of an inch, between the base of the device and the wall of the box on which the device is mounted.

6. Cabinets and cutout boxes when used to enclose devices above 500 volts and less than 700 volts D.C. between conductors, shall be lined with asbestos board or other standard insulating material, unless an air space of at least three inches is maintained between the nearest current carrying parts of the device mounted within the cabinet and the walls, door or partition, if of metal. The back of these cabinets must be lined with asbestos wood or insulating material of at least one fourth of an inch in thickness.

7. Wire compartments must be provided for the wires when there are more than four circuits connected to the devices within the cabinet or cutout box, except when these wires leave the cabinet or cutout box directly opposite their terminal connections. This limitation refers to branch circuits only, and not to the supply circuit and a continuation of the supply circuit. Meter loops, subfeeder circuits shall be counted as branch circuits.

8. Switch boxes shall have their conduits so arranged that the wires, entering and leaving the box, will be directly opposite their terminal fittings.

4. This By-law may be cited as the "BURNABY WIRING REGULATION BY-LAW AMENDMENT BY-LAW, 1920".

DONE AND PASSED in open Council this Tenth (10th) day of May, A.D. 1920.

RECONSIDERED and finally passed this twenty-fifth
(25th) day of May, A.D. 1920.



H. Anderson

REVER.

Arthur G. Moore

CLERK.