

(3) In granting any such modification the Chief Electrical Engineer shall specify what special work (if any) he requires to be done to render the electric line or work reasonably free from electrical hazard.

PART 13.—GENERAL.

13-01. The Governor-General in Council may from time to time, by notice in the *Gazette*, approve methods or types of construction or materials not specially provided for in these regulations, and impose such conditions as he deems necessary with respect to the use thereof.

13-02. The Chief Electrical Engineer may prohibit the erection, construction, or use of any electric line or work which in his opinion constitutes or may constitute an electrical hazard.

13-03. No licensee shall cause, or suffer, or permit any person to be engaged, or employed, or to work, or undertake any work in breach of the requirements of these regulations.

DIVISION II.—CONDITIONS ON WHICH LICENSES MAY BE ISSUED AND THE FEES PAYABLE THEREON.

PART 21.—CONDITIONS OF SUPPLY.

SYSTEMS OF SUPPLY.

21-01. The supply of electrical energy shall be given on such one or more of the following systems as may be prescribed by the licensee:—

- (a) Three-phase four-wire system at a normal rated pressure of 400 volts between phases and 230 volts between each phase and the neutral conductor.
- (b) Three-phase three-wire system at a normal rated pressure of 400 volts between phases.
- (c) Three-wire system (whether direct current or single-phase alternating current) at a normal rated pressure of 460 volts between outer conductors and 230 volts between each outer conductor and the middle conductor.
- (d) Two-wire system (whether direct current or single-phase alternating current) at a normal rated pressure of 230 volts.
- (e) High pressure or extra-high pressure alternating current single-phase two-wire system.
- (f) High pressure or extra-high pressure alternating current three-phase system.
- (g) High pressure or extra-high pressure two-wire direct current system.
- (h) Series street-lighting system.
- (i) Direct current with one pole in contact with earth.
- (j) Such other systems as may be authorized by the licensee.

FREQUENCY.

21-11. The frequency of alternating current systems shall be 50 complete cycles per second.

21-12. The frequency shall be maintained within 1½ per cent. above or below the standard of 50 cycles per second.

Provided that this regulation shall not apply to plants which are not used to supply electrical energy to consumers other than the licensee.

VOLTAGE OF SUPPLY.

21-21. (1) For the purpose of supply to any consumer the normal pressure, subject to the provisions of Regulation 21-22 hereof, shall not exceed:—

- (a) At the main switchboard on the consumer's premises:—
 - (i) 230 volts when the connected load does not exceed 2 kilowatts, except in the case of motors, power and/or heating for industrial purposes; or
 - (ii) 460 volts for motors and when the connected load exceeds 2 kilowatts, except in the case of motors, power and/or heating for industrial purposes; or
- (b) At the main switchboard or transformer, as the case may be on the consumer's premises, 11,000 volts for industrial purposes, either for transformation or for motors, power and/or heating, provided that the transforming apparatus and control gear shall be so enclosed as to be inaccessible to every unauthorized person.

(2) Supply for series street-lighting may be given at pressures not exceeding 3,300 volts between terminals at the source of supply.

(3) Direct current supply as prescribed by paragraph (i) of Regulation 21-01 hereof may be given at a pressure not exceeding 3,300 volts at the main switchboard on the consumer's premises.

21-22. (1) The pressure shall be maintained within 5 per cent. above or below the normal pressure at the main switchboard on the consumer's premises, and on complaint by him that the variation in pressure exceeds these limits,

or on the instructions of the Inspecting Engineer, the licensee shall connect a portable recording voltmeter (to be provided and maintained by the licensee), for such reasonable period in the circumstances as the Inspecting Engineer may require, to record the pressure at the main switchboard on the consumer's premises. If the variations thus recorded are caused within and by the licensee's system and exceed the above limits, the licensee shall take steps immediately to restore the pressure to within the prescribed limits.

(2) This regulation shall not apply to plants which are not used to supply electrical energy to consumers other than the licensee.

LOCATION OF LINES.

21-31. (1) The licensee, unless authorized in writing by the Minister,—

- (a) Shall not place any electric line along more than one side of any street; and
- (b) Shall keep his electric lines to the same side of a street for its whole length whether or not such street crosses or intersects any other street.

(2) Notwithstanding anything contained in these regulations, the licensee shall not, without the consent in writing of the Minister, place any electric line along the route of any Government main trunk electric transmission-line.

21-32. If prior to the placing of an electric line in any street a telegraph-line is placed on one side of such street the licensee shall not, except with the written permission of the Minister of Public Works, Minister of Telegraphs, Government Railways Board, or County Council maintaining such telegraph-line (as the case may be), place an electric line along the side of the street on which such telegraph-line is placed.

21-33. (1) Where the erection or operation of an overhead electric line necessitates, in the opinion of the Minister of Public Works, Minister of Telegraphs, Government Railways Board, or County Council, an alteration of any existing telegraph-line maintained by such authority, and such alteration is approved by the Minister of Public Works, Minister of Telegraphs, Government Railways Board, or County Council (as the case may be), the expense of such alteration shall be borne by the licensee.

(2) Such expense may include a reasonable allowance for supervision, inspection, and other charges connected with the alteration, and shall be recoverable as a debt due to the Crown or the County (as the case may be), and the certificate of the Controller and Auditor-General as to the amount thereof (given after such inquiry and examination of records and accounts as he may think fit to make, and without hearing parties or assuming the position of an arbitrator) shall be final and binding on all parties.

21-34. (1) Where a telegraph-line is placed and maintained on one side of a street and an electric line on the other side, whether such electric line be placed before or after the placing of the telegraph-line, the licensee shall give to the Minister of Public Works, Minister of Telegraphs, Government Railways Board, or County Council maintaining such telegraph-line reasonable facilities for carrying wires from such telegraph-line to premises on the side of the street on which such electric line is placed; provided that the licensee is given similar facilities in regard to any electric service-line to premises on the side of the street on which such telegraph-line is placed.

(2) Unless in the opinion of the Minister of Public Works it is impracticable so to do, the licensee shall, except as provided in Regulation 45-05 hereof, arrange that any aerial electric line shall, in crossing a telegraph-line, pass above the latter.

SUPPLY TO CONSUMERS.

21-41. (1) Regulations 21-42 to 21-49 (both inclusive) apply only in respect of a licensee that is an electrical supply authority.

(2) Any demand made upon a licensee pursuant to Regulations 21-42 or 21-43 hereof shall set out, with such particularity as the licensee may reasonably require, the nature, purpose, and quantity of the supply required.

21-42. (1) This regulation applies in respect of all premises which are:—

- (a) Within the area of supply described in the license; and
- (b) Sufficiently near, in the opinion of the Chief Electrical Engineer, to an electric distribution-line for the time being erected and maintained by the licensee (other than a line erected pursuant to a demand made under Regulation 21-43 hereof) to enable a supply of electrical energy to be furnished to such premises without the erection of an additional electric distribution-line.

(2) Every licensee, if a vendor of electrical energy, shall, on demand in writing made by the owner or occupier of any such premises, afford a supply of electrical energy to such premises under the terms and conditions set out in