

**1957/185**

**THE ELECTRICAL SUPPLY REGULATIONS 1935,  
AMENDMENT NO. 11**

H. E. BARROWCLOUGH, Administrator of the Government  
**ORDER IN COUNCIL**

At the Government House at Wellington this 4th day of September 1957

Present:

HIS EXCELLENCY THE ADMINISTRATOR OF THE GOVERNMENT IN COUNCIL  
PURSUANT to the Public Works Act 1928, His Excellency the Administrator of the Government, acting by and with the advice and consent of the Executive Council, hereby makes the following regulations.

**REGULATIONS**

1. These regulations may be cited as the Electrical Supply Regulations 1935, Amendment No. 11, and shall be read together with and deemed part of the Electrical Supply Regulations 1935\* (hereinafter referred to as the principal regulations).

2. Regulation 11-02 of the principal regulations is hereby amended—

- (a) By adding to the definition of the term “conductor” the words “but does not include the wire of any electric fence”.
- (b) By adding to the definition of the term “electric line” (as set out in paragraph (a) of regulation 3 of the Electrical Supply Regulations 1935, Amendment No. 4) the words “but does not include any electric fence”.

\**Gazette*, 6 September 1935, Vol. III, p. 2496  
Amended: *Gazette*, 1936, Vol. I, p. 266  
Amendment No. 2: S.R. 1938/2  
Amendment No. 3: S.R. 1942/237  
Amendment No. 4: S.R. 1942/258  
Amendment No. 5: S.R. 1943/160  
Amendment No. 6: S.R. 1945/124  
Amendment No. 7: S.R. 1948/151  
Amendment No. 8: S.R. 1950/134  
Amendment No. 9: S.R. 1955/114  
Amendment No. 10: S.R. 1956/141

3. (1) Regulation 31-31 of the principal regulations is hereby amended by revoking subclause (4) (as set out in regulation 7 of the Electrical Supply Regulations 1935, Amendment No. 2), and substituting the following subclause:

“(4) The foregoing provisions of this regulation shall not apply to any flexible earthing lead used temporarily to earth a line or apparatus by means of an earth stick. With respect to every such earthing lead the following provisions shall apply:

“(a) It shall be made of copper;

“(b) The current-carrying capacity of the earthing lead and its connections shall be adequate for the circumstances in which it is for the time being used; and

“(c) Its cross-sectional area shall be in accordance with the following table:

Cross-sectional Area of Conductor to be Earthed	Cross-sectional Area of Earthing Lead
0.0225 square inches or more .....	Not less than 0.0225 square inches.
Less than 0.0225 square inches .....	Not less than the size of the conductor to be earthed.”

(2) Regulation 7 of the Electrical Supply Regulations 1935, Amendment No. 2 is hereby consequentially revoked.

4. (1) Regulation 32-03 of the principal regulations is hereby amended by revoking subclause (1), and substituting the following subclause:

“(1) A mat of suitable material having adequate insulating properties shall be provided for the protection of operators in front of every powerhouse and substation switchboard which directly controls lines or apparatus working at a pressure above 250 volts to earth, or which (being mounted on a floor of conducting material) directly controls lines or apparatus working at a pressure above 100 volts to earth:

“Provided that nothing in this subclause shall apply to a switchboard of the totally enclosed earthed metal clad type.”

(2) Regulation 32-03 of the principal regulations is hereby further amended by omitting from subclause (2) the word “rubber”.

5. Regulation 33-09 of the principal regulations is hereby amended by adding to subclause (1) the words “and maintained in a sound condition”.

6. Regulation 34-21 of the principal regulations (as set out in regulation 6 of the Electrical Supply Regulations 1935, Amendment No. 6) is hereby amended by inserting, after paragraph (d), the following paragraph:

“(dd) Earth sticks; and”.

7. The principal regulations are hereby amended by revoking regulation 34-22, and substituting the following regulation:

“34-22. (1) It shall be the duty of every person working or supervising work on the lines or apparatus to satisfy himself that the safeguards provided are in good physical and mechanical order and condition.

“(2) It shall be the duty of every person working on the lines or apparatus to use in a proper manner the safeguards provided.”

8. Regulation 34–36 of the principal regulations is hereby amended by revoking subclause (2) and substituting the following subclause:

“(2) Any such conductor or apparatus shall wherever possible be earthed and remain earthed in at least two places so that there is at least one earth on each side of the working position. At least one earth shall be as close as practicable to the length of conductor or the apparatus worked on and within visible distance of the working position.”

9. Regulation 34–38 of the principal regulations is hereby amended by adding to subclause (2) the following proviso:

“Provided that, where a suitable isolating switch is provided so as safely to isolate any such switch or circuit-breaker and is in the open position, only the isolating switch need be locked.”

10. Regulation 41–33 of the principal regulations (as set out in regulation 8 of the Electrical Supply Regulations 1935, Amendment No. 2) is hereby amended by adding the following subclause:

“(3) Notwithstanding the foregoing provisions of this regulation, the minimum distance between any aerial electric line of 220,000 volts or more and any other aerial electric line shall be—

“(a) 10 ft. in the case of an aerial electric line of 220,000 volts:

“(b) Such distance as the General Manager may prescribe in the case of an aerial electric line of more than 220,000 volts.”

11. Regulation 41–34 of the principal regulations is hereby amended by revoking paragraph (c) of subclause (1), and substituting the following paragraph:

“(c) Extra-high pressure—

“Not over 110,000 volts	.....	.....	.....	6 ft.
“220,000 volts	.....	.....	.....	10 ft.”

12. Regulation 41–39 of the principal regulations is hereby amended by revoking paragraphs (a) to (e) of subclause (1), and substituting the following paragraphs:

“(a) Medium pressure or any lower pressure ..... 3 ft.:

“(b) High pressure or extra-high pressure not over 22,000 volts 5 ft.”

13. Regulation 42–31 of the principal regulations is hereby amended by omitting from subclause (1) the words “good quality triple-braiding, thoroughly impregnated with weatherproof compound or other”, and substituting the word “an”.

14. Regulation 48–07 of the principal regulations is hereby amended by inserting, after the words “separate printed leaflet”, the words “or in a form approved by the General Manager”.

15. Regulation 51–23 of the principal regulations is hereby amended by omitting from subclause (1) (as set out in regulation 10 of the Electrical Supply Regulations 1935, Amendment No. 6) the words “ladder-ropes and safety-belts”, and substituting the words “ladder-ropes, safety-belts, and earth sticks”.

16. Regulation 51–24 of the principal regulations, as amended by regulation 11 of the Electrical Supply Regulations 1935, Amendment No. 6, is hereby further amended by inserting, after the word “working”, the words “or supervising work”.

T. J. SHERRARD,  
Clerk of the Executive Council.

## EXPLANATORY NOTE

*This note is not part of the regulations, but is intended to indicate their general effect.*

These regulations make miscellaneous amendments to the Electrical Supply Regulations 1935.

Regulation 2 makes it clear that electric fences are not "conductors" or "electric lines" for the purposes of the principal regulations.

Regulation 3 lays down improved specifications for temporary earthing leads.

Regulation 4 permits the use of other suitable materials than rubber for insulating mats where these are required in front or at the rear of powerhouse and substation switchboards, and provides that a mat is not required in front of any switchboard of the totally enclosed earthed metal clad type.

Regulation 5 requires handrails round platforms for pole substations to be maintained in a sound condition.

Regulations 6 and 15 add earth sticks to the safeguards which licensees are required to provide for their employees and to inspect at intervals of not more than six months.

Regulations 7 and 16 impose a duty on persons supervising work on electric lines or apparatus (in addition to the persons actually doing the work) to satisfy themselves that the safeguards provided are in good order and condition.

Regulation 8 relaxes the requirement that both of the temporary earths on a line where work is being done shall be at a distance of not more than two normal spans from the point where the work is being carried out. The new requirement is that one of the earths must be as close as practicable to and within visible distance of the working position.

Regulation 9 provides that where an isolating switch is provided to isolate an out-door switch or circuit-breaker, it is only the isolating switch that must be locked in the open position, and not each switch or circuit-breaker.

Regulations 10 and 11 increase to 10 ft. the minimum clearance between a 220,000-volt line and any other line or its support.

Regulation 12 substitutes a new table, to comply with modern practice, prescribing the climbing-spaces required between conductors through which it is necessary to climb in order to reach other conductors on a higher cross-arm.

Regulation 13 removes the specification for the type of covering required for medium or low pressure lines in towns, and allows any covering approved by the General Manager of the State Hydro-electric Department.

Regulation 14 allows the Supply Authority's annual notice to its consumers to be given in a form approved by the General Manager in cases where the Authority does not wish to send a separate printed leaflet.

---

Issued under the authority of the Regulations Act 1936.

Date of notification in *Gazette*: 5 September 1957.

These regulations are administered in the State Hydro-electric Department.