

1972/67



**THE COAL MINES (ELECTRICAL) REGULATIONS 1962,
AMENDMENT NO. 1**

ARTHUR PORRITT, Governor-General

ORDER IN COUNCIL

At the Government Buildings at Wellington this 27th day of March 1972

Present:

THE RIGHT HON. J. R. MARSHALL PRESIDING IN COUNCIL

PURSUANT to the Coal Mines Act 1925, His Excellency the Governor-General, acting by and with the advice and consent of the Executive Council, hereby makes the following regulations.

REGULATIONS

1. Title and commencement—(1) These regulations may be cited as the Coal Mines (Electrical) Regulations 1962, Amendment No. 1, and shall be read together with and deemed part of the Coal Mines (Electrical) Regulations 1962* (hereinafter referred to as the principal regulations).

(2) These regulations shall come into force on the day after the date of their notification in the *Gazette*.

2. Interpretation—(1) Regulation 2 of the principal regulations is hereby amended by revoking the definition of the terms “apprentice”, “improver”, and “university student”, and substituting the following definition:

“‘Apprentice’ has the same meaning as in the Electricians Act 1952:”.

(2) The said regulation 2 is hereby further amended by inserting, after the definition of the term “high voltage”, the following definition:

“‘Improver’ has the same meaning as in the Electricians Act 1952:”.

(3) The said regulation 2 is hereby further amended by inserting, after the definition of the term “semi-portable appliance”, the following definition:

“‘Student’ has the same meaning as in the Electricians Act 1952:”.

3. Application—Regulation 3 of the principal regulations is hereby amended by omitting from subclause (1) the words “mouth of the mine”, and substituting the words “mine entrance”.

4. Conditions of use—(1) Regulation 4 of the principal regulations is hereby amended by omitting from subclause (1) the words “300 yards”, and substituting the words “270 metres”.

(2) The said regulation 4 is hereby further amended by revoking paragraphs (a) and (b) of subclause (4), and substituting the following paragraphs:

“(a) Apparatus shall be of a type approved as regards safety in respect of flammable gas and shall bear an approval certificate.

“(aa) For the purposes of this regulation, apparatus bearing approval certificates from any of the following authorities shall be deemed to be approved:

“(i) The British Ministry of Power; or

“(ii) The Bureau of Mines, United States of America; or

“(iii) The Mines Department, New South Wales; or

“(iv) The Mines Department, Queensland.

“(b) All approved apparatus shall be installed, used, and maintained so as to comply with the conditions of the approval.”

5. Notification of intention—Regulation 5 of the principal regulations is hereby amended by omitting from paragraph (b) of subclause (1) the words “300 yards” and substituting the words “270 metres”.

6. Annual returns—Regulation 8 of the principal regulations is hereby amended by omitting from paragraph (a) of subclause (1) the word “horsepower”, and substituting the word “kilowatts”.

7. Plans—Regulation 9 of the principal regulations is hereby amended by omitting from subclause (1) the words “two chains to an inch” and substituting the expression “1:1,500”.

8. Electricians—(1) Regulation 10 of the principal regulations is hereby amended by omitting from paragraph (a) of subclause (1) the word “electrician”, and substituting the words “electrical technician or an electrician”.

(2) The said regulation 10 is hereby further amended by omitting from subclause (2) the words “and University Students”, and substituting the words “electrical mechanics, and students”.

9. Attendance by electricians—(1) Regulation 11 of the principal regulations is hereby amended by omitting from paragraph (a) of subclause (1) the words “of the horsepower of those motors exceeds 100”, and substituting the words “powers of those motors exceeds 150 kilowatts”.

(2) The said regulation 11 is hereby further amended by omitting from paragraph (b) of subclause (1) the words “of the horsepower of the motors at the mine exceeds 200”, and substituting the words “powers of the motors at the mine exceeds 300 kilowatts”.

(3) The said regulation 11 is hereby further amended by omitting from subclause (2) the words “seven days”, and substituting the words “14 days”.

(4) The said regulation 11 is hereby further amended by omitting from subclause (3) the words “14 days”, and substituting the words “28 days”.

10. General requirements—Regulation 12 of the principal regulations is hereby amended by omitting from subclause (5) the words “prescribed in the New Zealand Standard Specification or British Standard, if any, appropriate to the apparatus or part”, and substituting the words “to which the apparatus and parts were at least originally constructed”.

11. Voltage limitations—Regulation 13 of the principal regulations is hereby amended by omitting from the proviso to subclause (4) the words “300 yards”, and substituting the words “270 metres”.

12. Physical protection of equipment—Regulation 14 of the principal regulations is hereby amended by revoking subclause (1), and substituting the following subclause:

“(1) Extra-high-voltage transformers and high-voltage transformers complying with NZSS 94 shall be housed in a room specially constructed for the purpose:

“Provided that extra-high-voltage transformers and high-voltage transformers that are approved by an Inspector as flame-proof shall be deemed to be medium-voltage transformers and shall be housed in accordance with subclause (3) of this regulation.”

13. Earthing—Regulation 16 of the principal regulations is hereby amended by omitting from subclause (4) the expression “0.022 sq. in.”, and substituting the expression “14 sq mm”.

14. Types and use of cables—(1) Regulation 17 of the principal regulations is hereby amended by revoking subclauses (1) to (6), and substituting the following subclauses:

“(1) Only wire-armoured cables complying with NZSS 1950, NZSS 213, NZSS 396, or British National Coal Board Specification 295 shall be used for the main circuit conveying electricity into a mine, for permanent wiring, and for supplying permanently installed apparatus.

“(2) Only wire-armoured cables complying with the specifications set out in subclause (1) of this regulation or pliable armoured cables complying with NZSS 397 or Australian Standard C81—Section 4 shall be used for conveying electricity to semi-portable appliances or to apparatus which requires to be shifted as development advances.

“(3) Only trailing cables complying with NZSS 397—Part I or Australian Standard C81—Section 3 or Section 6 shall be used for conveying electricity from switchgear to portable appliances.

“(4) Only flexible trailing cables complying with NZSS 397—Part 3 or Australian Standard C81—Section 5 shall be used for conveying electricity from switchgear to hand-held portable appliances.

“(5) Only wire-armoured cables complying with NZSS 1950 or NZSS 1683 shall be used for wiring for lighting systems.

“(6) Notwithstanding the provisions of subclause (1) of this regulation, pliable armoured cables complying with NZSS 397 or Australian Standard C81—Section 4 may be used between any fixed appliance and its controlling switchgear.”

(2) The said regulation 17 is hereby further amended by omitting from paragraph (a) of subclause (7) the words "subclause (5)", and substituting the words "subclause (6)".

15. Installation of cables—(1) Regulation 18 of the principal regulations is hereby amended by omitting from subclause (1) the words "lead-sheathed and armoured", and substituting the words "wire-armoured".

(2) The said regulation 18 is hereby further amended by omitting from paragraph (j) of subclause (2) the words "100 yards", and substituting the words "300 metres".

16. Signalling and telephones—(1) Subclause (1) of regulation 20 of the principal regulations is hereby amended—

- (a) By omitting from paragraph (a) the words "a type approved by the British Ministry of Power", and substituting the words "an approved type":
- (b) By omitting from paragraph (c) the words "equipment approved by the British Ministry of Power", and substituting the words "approved equipment":
- (c) By omitting from paragraph (d) the words "Equipment approved by the British Ministry of Power as aforesaid", and substituting the words "Approved equipment":
- (d) By omitting from paragraph (j) the words "1 ampere", and substituting the words "2 amperes".

(2) The said regulation 20 is hereby further amended by adding the following subclause:

"(3) In this regulation, 'approved' means approved by—

"(a) The British Ministry of Power; or

"(b) The Bureau of Mines, United States of America; or

"(c) The Mines Department, New South Wales; or

"(d) The Mines Department, Queensland."

P. J. BROOKS,
Clerk of the Executive Council.

EXPLANATORY NOTE

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

Regulations 2, 3, and 8 bring certain terminology up to date.

Regulations 4 (1), 5, 6, 7, 11, and 13 convert various measurements to the metric system.

Regulation 4 (2) allows the use of American and Australian electrical equipment as well as British equipment.

Regulation 9 relaxes the requirements relating to the daily attendance of electricians.

Regulation 10 is a consequential amendment.

Regulation 12 relaxes the requirements relating to the housing of high-voltage transformers.

Regulation 14 makes amendments relating to the types of electric cables which may be used in mines.

Regulation 15 makes amendments to make provision for the use of plastic insulated cables. In addition, the maximum length of flexible trailing cables is increased from 100 yards to 300 metres.

Regulation 16 allows the use of American and Australian signalling equipment as well as British equipment.

Issued under the authority of the Regulations Act 1936.

Date of notification in *Gazette*: 29 March 1972.

These regulations are administered in the Mines Department.