



**THE COAL MINES (MINE MANAGEMENT AND SAFETY)
REGULATIONS 1980, AMENDMENT NO. 1**

PAUL REEVES, Governor-General

ORDER IN COUNCIL

At Wellington this 22nd day of September 1986

Present:

HIS EXCELLENCY THE GOVERNOR-GENERAL IN COUNCIL

PURSUANT to the Coal Mines Act 1979, His Excellency the Governor-General, acting by and with the advice and consent of the Executive Council, hereby makes the following regulations.

ANALYSIS

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REGULATIONS

1. Title and commencement—(1) These regulations may be cited as the Coal Mines (Mine Management and Safety) Regulations 1980, Amendment No. 1, and shall be read together with and deemed part of the

Coal Mines (Mine Management and Safety) Regulations 1980* (hereinafter referred to as the principal regulations).

(2) These regulations shall come into force on the 1st day of October 1986.

2. Regulations not to apply to opencast coal mines—The principal regulations are hereby amended by inserting, after regulation 2 and before Part I, the following regulation:

“2A. These regulations shall not apply to opencast coal mines (as defined in regulation 2 of the Coal Mines (Opencast Coal Mines) Regulations 1986).”

3. New regulations substituted relating to mine surveyor's certificates—The principal regulations are hereby amended by revoking regulations 9 to 11, and substituting the following regulations:

“9. Syllabus for mine surveyor's certificate—(1) The subjects of the examination for a mine surveyor's certificate shall be as set out in the New Zealand Certificate of Land Surveying (Mines Option) and those set out in Part B of the Second Schedule to these regulations.

“(2) The Board may, at its discretion, exempt a candidate from the requirement to be a holder of the New Zealand Certificate of Land Surveying (Mines Option) provided that, in the opinion of the Board, the candidate holds an academic qualification at least equivalent to the New Zealand Certificate of Land Surveying (Mines Option).

“10. Evidence of experience, etc.—No certificate of competency as a mine surveyor shall be granted by the Board to any person unless—

“(a) He is trained to the satisfaction of the Board of Examiners as a mine surveyor by a person who is a registered surveyor under the Surveyors Act 1966 or by a person who has a certificate of competency as a mine surveyor, and periodic reports on training shall be supplied to the Board of Examiners as directed:

“(b) He has had at least 3 years' practical experience in surveying including 6 months' experience in opencast and topographical surveying, 6 months' experience in engineering surveying, 6 months' experience underground in the surveying of mines, and 3 months' experience in boundary definition work comprising field and office work:

“(c) He has passed the examinations, written, oral, and practical prescribed in the syllabus.

“11. Mine surveyor's examination—(1) Candidates for examination for a mine surveyor's certificate will be required to present themselves for examination at such times and places as are appointed by the Board.

“(2) A candidate for Subjects I and II of Part B will be required to hold New Zealand Certificate Land Surveying (Mines Option) or hold a qualification as specified in regulation 9 (2).

“(3) The pass marks in each subject of Part B of the syllabus shall be 50 percent.

“(4) After the practical examination, the Board may require the applicant to submit further plans as specified in the syllabus or obtain further practical experience in mine surveying.

“(5) Mine Surveyors’ certificates shall be in Form CM3 in the First Schedule hereto.”

4. Underviewers’ and firemen-deputies’ certificates—Regulation 13 of the principal regulations is hereby amended by revoking subclause (3), and substituting the following subclauses:

“(3) Every applicant for examination for an underviewer’s or a fireman-deputy’s certificate shall also forward with his application—

“(a) A medical certificate confirming that he is able, as far as his senses of sight and hearing are concerned, to carry out the duties of the position efficiently; and

“(b) A certificate from his present and past employers that, at the time of the application,—

“(i) Where he is the holder of a mine manager’s certificate under the Mining Act 1971 or a tunnel manager’s certificate, Grade A, under the Quarries Act 1944 or an A-grade tunnel manager’s certificate under the Quarries and Tunnels Act 1982, he has at least 1 year’s experience actively engaged in the winning of coal and support of the face openings; or

“(ii) In all other cases, he has at least 5 years’ experience in the underground workings of a coal mine or of a metalliferous mine or in tunnel construction, including 2 years’ experience actively engaged in the winning of coal and support of the face openings and 1 year’s experience in some or all of the shift work referred to in subclause (3A) of this regulation; and

“(c) Experience in the following classes of work, although not compulsory, should be included in the certificates if applicable:

“(i) Installing main winch or pump underground:

“(ii) Installing armoured electric cable underground:

“(iii) Shaft timbering:

“(iv) Working with conveyors, loaders, or cutters:

“(v) Mine rescue work:

“(vi) Dealing with heating or fires underground; and

“(d) A first-aid certificate, acceptable to the Board, showing that he is fitted to give first-aid to persons requiring it and any such certificate shall have been obtained within the 5 years immediately preceding the date of application.

“(3A) The shift work to which subclause (3) (b) (ii) of this regulation applies comprises—

“(a) Preparing for and installing either mechanical or hydraulic transport of coal:

“(b) Building permanent or temporary stoppings:

“(c) Ventilation and erection of brattice:

“(d) Erection of either steel or timber sets:

“(e) Erection of other types of roof supports.”

5. Airways, air crossways, and stoppings—Regulation 101 of the principal regulations is hereby amended by revoking paragraph (c) of subclause (5), and substituting the following paragraph:

“(c) The floor and walls of all air crossings (including natural air crossings if required by the Inspector) shall be constructed of materials approved in writing by the Chief Inspector.”.

6. Winding apparatus—Regulation 115 of the principal regulations is hereby amended by revoking subclauses (7) and (8), and substituting the following subclauses:

“(7) No rope shall be used for raising or lowering persons in any shaft or inclined plane unless a certificate has been furnished by the manufacturer setting out the date of manufacture, diameter and circumference of the rope in millimetres, breaking strain of the rope, length of the rope, and mass per metre in kilograms. A copy of the certificate shall be forwarded to the Inspector immediately a rope is newly installed, together with particulars of the mass of load to be carried and the mass of the maximum length of the rope to be used.

“(8) The factor of safety for all such ropes when newly installed shall not be less than the following:

“(a) Raising or lowering of persons—		
“(i) Surface to 600 metres, factor of safety	..	10
“(ii) Beyond 600 metres, factor of safety	..	8
“(b) Raising or lowering of mineral or materials—		
“(i) Surface to 600 metres, factor of safety	..	8
“(ii) Beyond 600 metres, factor of safety	..	6

“(8A) At least once in every 6 months such rope shall have cut off the lower end of a portion at least 2 metres in length and the length so cut off shall be sent to a testing station approved by the Chief Inspector for a breaking test.

“(8B) A copy of the certificate of such test shall—

“(a) Include the date on which the test piece was cut off the rope:

“(b) Be forwarded to the Inspector not later than one month after such date.

“(8C) No such rope shall be used when its factor of safety is less than the following:

“(a) Raising or lowering of persons—		
“(i) Surface to 600 metres, factor of safety	..	8
“(ii) Beyond 600 metres, factor of safety	..	7
“(b) Raising or lowering of mineral or materials—		
“(i) Surface to 600 metres, factor of safety	..	7
“(ii) Beyond 600 metres, factor of safety	..	6

“(8D) For the purposes of subclauses (8) and (8C) of this regulation, the factor of safety shall be calculated by dividing the breaking strain of the rope given on the manufacturer’s certificate by the sum of the maximum load to be raised or lowered, plus the total mass of the rope in the shaft when fully let out.”

7. Firing the shot—Regulation 156 (7) of the principal regulations is hereby amended—

- (a) By inserting, after the word "shall", the word "himself";
- (b) By omitting from paragraph (c) the word "himself".

8. Syllabus for mine surveyor's examinations—The Second Schedule to the principal regulations is hereby amended by revoking Part B, and substituting the new Part B set out in the Schedule to these regulations.

SCHEDULE

NEW PART B TO SCHEDULE TO PRINCIPAL REGULATIONS

"PART B

Mine Surveyor's Examination

Subject I: Geology—

The candidate shall be examined orally in—

- General geology, principally of sedimentary rocks:
- Stratigraphy and structure of New Zealand coalfields:
- Structural interpretation in coal mining:
- Characteristics of New Zealand coals:
- Prospecting, surface and subsurface:
- Geology of opencasting:
- Estimation of coal quantities.

Subject II: Surveying—

(1) *Practical*

- (a) The candidate shall, at least 21 days before the date of the examination, submit satisfactory field notes, computations, reports, and plans drawn therefrom by the candidate in respect of the following:
 - (i) A survey of a mine showing traverses and either the direct or indirect relationship of these underground traverses to surface surveys or title boundaries. The survey work undertaken by the candidate shall consist of at least 20 new traverse lines whose aggregated distance shall be at least 300 metres; and
 - (ii) An engineering survey at least 100 metres in length for a road, roadway, or other earthwork with requisite longitudinal section, cross section, and design grade thereof; and
 - (iii) A topographical survey of undulating land, covering at least 5 hectares, showing 1 or 2 metre contours; and
 - (iv) A dimensional drawing showing an object or building in plan, elevation, and side elevation:
- (b) The candidate shall supply a report on the object of the surveys and the factors determining the choice of methods and equipment used in the execution of the surveys. The original field notes and computations shall also be submitted:
- (c) The candidate shall prepare the said plans on good quality drawing medium, and may either supply the original plans or, preferably, good quality prints:

SCHEDULE—continued

- (d) The said plans or prints shall be endorsed by a registered surveyor, or by a duly qualified mine surveyor with a statement to the effect that they are solely the work of the applicant.

(2) Oral—

The candidate shall be examined orally on—

- (a) The surveys and plans presented in subclause (1) above; and
- (b) The adjustment and use of surveying and draughting instruments, field practice, reduction and calculations for surface and underground surveys of various types, determination and reduction of heights, engineering surveys and calculations, determination of area and volumes, determination of dip and strike, interpretation of aerial photographs, and laws and regulations related to mine surveying.”

P. G. MILLEN,
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, which come into force on 1 October 1986, amend the Coal Mines (Mine Management and Safety) Regulations 1980.

Regulation 2 provides that the Coal Mines (Mine Management and Safety) Regulations 1980 are not to apply to opencast coal mines, which are dealt with under the Coal Mines (Opencast Coal Mines) Regulations 1986.

Regulation 3 revises the provisions relating to the syllabus for certificates, evidence of experience, and examinations for mine surveyors.

Regulation 4 revises the experience required for candidates for examination for underviewers' and firemen-deputies' certificates.

Regulation 5 provides for the Chief Inspector to approve the materials to be used in the construction of air crossings.

Regulation 6 revises the provision for the use and testing of wire ropes used for winding in shafts and haulage planes for men and materials.

Regulation 7 makes it clear that the authorised person firing the shot shall himself prepare the firing apparatus.

Regulation 8 sets out a new syllabus for the mine surveyor's certificate.

Issued under the authority of the Regulations Act 1936.

Date of notification in *Gazette*: 25 September 1986.

These regulations are administered in the Ministry of Energy.