STATUTORY INSTRUMENTS

1978 No. 1648

HEALTH AND SAFETY
MINES AND QUARRIES

The Coal and Other Mines (Metrication) Regulations 1978

Made - - - -	*15th November 1978*
Laid before Parliament	*21st November 1978*
Coming into Operation	*12th December 1978*

The Secretary of State, in exercise of the powers conferred on him by sections 15(1) and (3)(a), 49(1), (2) and (4) and 82(3)(a) of the Health and Safety at Work etc. Act 1974 ("the 1974 Act"), as amended by section 116 of, and paragraphs 6 and 15 of Schedule 15 to, the Employment Protection Act 1975, and of all other powers enabling him in that behalf, and for the purpose of giving effect without modifications to proposals submitted to him by the Health and Safety Commission under section 11(2)(d) of the 1974 Act after the carrying out by the said Commission of consultations in accordance with section 50(3) of that Act, hereby makes the following Regulations:—

Citation, commencement and interpretation

1.—(1) These Regulations may be cited as the Coal and Other Mines (Metrication) Regulations 1978 and shall come into operation on 12th December 1978.

(2) The Interpretation Act 1889 shall apply for the interpretation of these Regulations as it applies for the interpretation of an Act of Parliament.

Amendments to Instruments to substitute metric measurements for imperial measurements

2.—(1) The provisions of the Instruments specified in column 1 of the Schedule to these Regulations shall be amended by substituting for the measurements set out opposite thereto in column 3 (and relating to the matters specified in column 2) of that Schedule the measurements set out in the corresponding entry in column 4 and the amendments shall apply as specified in column 5.

(2) Where under this Regulation a measurement is required to be substituted in any provision for a measurement which occurs more than once in that provision, the substitution shall be made in each place where it occurs.

Amendments to the Coal and other Mines (Working Plans) Rules 1956

3. The Coal and Other Mines (Working Plans) Rules 1956 shall have effect subject to the following amendments:—

(a) in Rule 4(1) after the word "level" there shall be inserted the words "from Ordnance Datum or";

(b) in Rule 5(1)—

(i) for the words "ten thousand feet below" there shall be substituted "or, if it is used for the purposes of Rule 4," and

(ii) at the end there shall be added the words "or Ordnance Datum, as the case may be", and

(c) in Rule 12(b), before the word "assumed" there shall be inserted the words "Ordnance Datum or"

Alexander Eadie
Parliamentary Under Secretary of State for Energy

15th November 1978

John Grant
Parliamentary Under Secretary of State for Employment

15th November 1978

SCHEDULE Regulation 2

AMENDMENTS TO REGULATIONS

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
The Coal and Other Mines (Managers and Officials) Regulations 1956, as amended(**1**)				
Regulation 10(1)	Scale of plans	six inches to a mile	1:10560	All cases
The Coal and Other Mines (Surveyors and Plans) Regulations 1956				
Regulation 6(1)(a)	Extent of working to be covered by plans	three hundred feet	100 metres	Plans made after these Regulations come into operation
Regulation 8(1)	(*a*) Distance from boundary of working outside mine to be shown on plans	(*a*) three hundred and seventy-five feet	(*a*) 115 metres	(a) Plans made after these Regulations come into operation
	(*b*) Depth of workings to be shown on plans	(*b*) one hundred and twenty feet	(*b*) 37 metres	(b) All cases
Regulation 10	Scale of Plans	six inches to one mile	1:10560	All cases
The Coal and Other Mines (General Duties and Conduct) Regulations 1956				
Regulation 6(1)	Power of machinery which only certain persons may operate	ten horse-power	7.5 kilowatts	All cases

(**1**) The amending Regulations are not relevant to the subject matter of these Regulations.

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
The Coal and Other Mines (Safety Lamps and Lighting) Regulations 1956				
Regulation 9	Distance to be kept between safety lamp and equipment in use	two feet	600 millimetres	All cases
Regulation 17(3)	Distances from working face within which certain lighting not required	(*a*) one hundred and fifty feet (*b*) nine hundred feet (*c*) thirty feet	(*a*) 45 metres (*b*) 275 metres (*c*) 10 metres	(*a*), (*b*) and (*c*) All cases
Regulation 18(1)(a)	Distance from working face beyond which certain lights authorised	one hundred and fifty feet	45 metres	All cases
Regulation 18(1)(b)	Distance from working face beyond which certain lights authorised	nine hundred feet	275 metres	All cases
Regulation 18(1)(c)	Distances from working face beyond which certain lights authorised	(*a*) thirty feet (*b*) three hundred feet	(*a*) 10 metres (*b*) 90 metres	(*a*) and (*b*) All cases
Regulation 18(1)(d)	Distance from working face beyond which certain lights authorised	thirty feet	10 metres	All cases
Regulation 18(5)	Distance from working face within which only apparatus approved by the Health and Safety Executive may be used	nine hundred feet	275 metres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Regulation 23(c)	Distance from working face within which there is no need to whiten walls, etc.	three hundred feet	90 metres	All cases
The Coal and Other Mines (Electricity) Regulations 1956, as amended(**2**)				
Regulation 13(2)	Minimum permitted cross-sectional area of earthing conductor	0.022 square inches	14 square millimetres	All cases
Regulation 13(2)(a)	Maximum required cross-sectional area of earthing conductor used with certain flexible cable	0.01 square inches	6 square millimetres	All cases
Regulation 14(4)	Maximum distance between points at which metallic coverings of separate cables shall be bonded together	one hundred feet	30 metres	Systems brought into use after these Regulations come into operation
Regulation 20(2)(a)	Capacity of permitted battery for direct current signalling	three pint	1.7 litre	All cases
The Coal and Other Mines (Fire and Rescue) Regulations 1956				
Regulation 12(1)	(*a*) Distance from entrance to mine within which central rescue	(*a*) fifteen miles	(*a*) 25 kilometres	(*a*) All cases

(**2**) The amending Regulations are not relevant to the subject matter of these Regulations.

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	station shall be situated			
	(*b*) Maximum distance from entrance to mine within which central rescue station may be situated with authority of an inspector	(*b*) twenty miles	(*b*) 32 kilometres	(*b*) All cases
Regulation 12(2)(b)	Distance of mine from central rescue station for exemption purposes	fifteen miles	25 kilometres	All cases
Regulation 14(3)	Distance from central rescue station within which rescue corps members may be permitted to reside by an inspector.	half a mile	1 kilometre	All cases
Regulation 16(1)(b)	Radius of Circle within which entrances to mines must lie to be treated together as one mine for the purposes of the Coal and Other Mines (Fire and Rescue) Regulations 1956	two miles	4 kilometres	Arrangements made after these Regulations come into operation
Regulation 23(b)	Minimum length of tubing required for smoke helmets, etc., provided at central rescue stations	one hundred and twenty feet	37 metres	Smoke helmets, etc., provided after these Regulations come into operation
Regulation 23(c)	Capacity of cylinders for reviving	twenty cubic feet	600 litres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	apparatus provided at central rescue stations			
Regulation 24(a)	Required length of tubing for smoke helmets, etc., provided at certain mines	one hundred and twenty feet	37 metres	Smoke helmets, etc., provided after these Regulations come into operation
Regulation 24(b)	Capacity of cylinders for reviving apparatus provided at certain mines	twenty cubic feet	600 litres	All cases
Regulation 35(2)	(*a*) Minimum height of passage through which rescue team permitted to go, unless it is necessary to do so in an attempt to save life	(*a*) two feet	(*a*) 600 millimetres	(*a*) and (*b*) All cases
	(*b*) Minimum width of passage through which rescue team permitted to go, unless it is necessary to do so in an attempt to save life	(*b*) three feet	(*b*) 1 metre	
The Coal and Other Mines (Locomotives) Regulations 1956				
Regulation 3(3)	Distance from working face at and beyond which in certain circumstances an unapproved locomotive may run	nine hundred feet	275 metres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Regulation 5(2)	(*a*) Maximum power of locomotive not required to have certain indicators	(*a*) twenty-five horse-power	(*a*) 20 kilowatts	(*a*) and (*b*) Locomotives brought into use after these Regulations come into operation
	(*b*) Maximum speed of locomotive not required to have certain indicators	(*b*) eight miles per hour	(*b*) 13 kilometres per hour	
	(*c*) Certain indicators	(*c*) mileage	(*c*) distance	(*c*) All cases
Regulation 5(3)	Effective range of headlight	two hundred feet	60 metres	All cases
Regulation 6(1)(b)	Measure of weight of rails	weight per yard	weight per metre	All cases
Regulation 6(1)(c)(i)	(*a*) Maximum weight of locomotive in certain mines for the purposes of this provision	(*a*) three and one-half tons	(*a*) 3.5 tonnes	(*a*) and (*b*) All cases
	(*b*) Maximum distance between centres of sleepers in track in certain mines	(*b*) three feet	(*b*) 1 metre	
Regulation 6(1)(c)(ii)	Maximum distance between centres of sleepers in track in mines other than those referred to in Regulation 6(1)(c)(i)	two feet nine inches	840 millimetres	All cases
Regulation 6(2)	Weight of rail	weight per yard	weight per metre	All cases
Regulation 6(2)(a)	(*a*) Maximum weight of locomotive in certain circumstances	(*a*) five tons	(*a*) 5 tonnes	(*a*) All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	(*b*) Minimum weight of rail in such circumstances	(*b*) twenty-eight pounds	(*b*) 15 kilograms	(*b*) Rails laid after these Regulations come into operation
Regulation 6(2)(b)	(*a*) Maximum weight of locomotive in certain circumstances	(*a*) three and one-half tons	(*a*) 3.5 tonnes	(*a*) All cases
	(*b*) Minimum weight of rail in such circumstances	(*b*) twenty-four pounds	(*b*) 10 kilograms	(*b*) Rails laid after these Regulations come into operation
Regulation 6(2)(c)	(*a*) Minimum weight of rail in circumstances other than those referred to in Regulation 6(2)(a) and (b)	(*a*) forty pounds	(*a*) 19 kilograms	(*a*) All cases
	(*b*) (*c*) and (*d*) measurements used for alternative calculation of minimum weight of rail	(*b*) ten pounds (*c*) five pounds (*d*) ton	(*b*) 5 kilograms (*c*) 2.5 kilograms (*d*) tonne	(*b*) and (*c*) Rails laid after these Regulations come into operation (*d*) All cases
Regulation 6(3)	Minimum clearance between locomotives or other vehicles which may pass each other	one foot	300 millimetres	All cases
Regulation 7(2)(a)	Minimum vertical clearance for locomotives with covered cabs	one foot	300 millimetres	All cases
Regulation 7(2)(b)	Minimum vertical clearance for locomotives without covered cabs in certain circumstances	one foot	300 millimetres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Regulation 7(3)	(*a*) Minimum horizontal clearance for locomotives in any length of road	(*a*) two feet	(*a*) 600 millimetres	(*a*) and (*b*) All cases
	(*b*) Minimum horizontal clearance required in certain circumstances	(*b*) one foot	(*b*) 300 millimetres	
Regulation 13(1)	Distance from working face beyond which determinations of fire-damp content are not required in certain circumstances	nine hundred feet	275 metres	All cases
Regulation 21(2)(b)	Distance from working face within which a locomotive may move a single vehicle otherwise than by hauling from in front	twelve hundred feet	360 metres	All cases
Regulation 21(3)	(*a*) Minimum distance of visibility of white light attached to vehicle being moved by a locomotive otherwise than by hauling from in front	(*a*) two hundred feet	(*a*) 60 metres	(*a*) and (b) All cases
	(*b*) Distance from working face within which the provisions of Regulation 21(3) do not apply to a single vehicle moved by a locomotive	(*b*) twelve hundred feet	(*b*) 360 metres	

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Regulation 22	(*a*) Minimum distance of visibility of red light attached to the rear of a train or of a locomotive not attached to a vehicle	(*a*) two hundred feet	(*a*) 60 metres	(*a*) and (*b*) All cases
	(*b*) Distance from working face within which the provisions of Regulation 22 do not apply in certain mines	(*b*) twelve hundred feet	(*b*) 360 metres	
Regulation 26(5)	Distance from filling station within which smoking and the use of certain lamps is prohibited	ten yards	ten metres	All cases
Regulation 32(5)	Distance from charging station within which smoking and the use of certain lamps is prohibited	thirty feet	10 metres	All cases
The Coal and Other Mines (Sidings) Regulations 1956				
Regulation 1	Minimum gauge of Railway line	four feet eight and one-half inches	1.432 metres	All cases
Regulation 4(b)	Maximum length of pointed wooden sprags provided in relation to every railway line	three feet	900 millimetres	Sprags provided after these Regulations come into operation
Regulation 16	Minimum width of space required	fifteen feet	5 metres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)* to be left between two vehicles stationary on one track of rails	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Regulation 20	Distance from railway within which, if material stacked, certain precautions must be taken	three feet	1 metre	All cases
Regulation 20(b)	Maximum length of material which may be stacked alongside a railway line without the provision of adequate spaces or recesses	sixty feet	20 metres	All cases
The Coal and Other Mines (Working Plans) Rules 1956				
Rule 4(1)	Maximum horizontal intervals at which variations in level to be shown on certain plans	three hundred feet	100 metres	Plans and sections of workings made after these Regulations come into operation
Rule 5(1)(a)	Maximum intervals at which vertical variations to be shown where gradient does not exceed 1:3	fifty feet	15 metres	Plans and sections of workings made after these Regulations come into operation
Rule 5(1)(b)	Vertical variations to be shown where gradient exceeds 1:3	(*a*) ten feet (*b*) fifty feet (*c*) one hundred and fifty feet	(*a*) 5 metres (*b*) 15 metres (*c*) 50 metres	(*a*), (*b*) and (*c*) Plans and sections of workings made after these Regulations come into operation

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Rule 5(2)	Maximum change in level of floor workings shown in any new plan required to show only direction and rate of dip of seam	fifty feet	15 metres	Plans and sections of workings made after these Regulations come into operation
Rule 8	(*a*) Distance from workings within which, where there is evidence of danger to the workings, plans shall show certain particulars	(*a*) one hundred and fifty feet	(*a*) 45 metres	(*a*) and (*b*) Plans and sections of workings made after these Regulations come into operation
	(*b*) Distance from boundary of mine within which, where there is evidence of danger to the workings of that mine, plans shall show certain particulars	(*b*) three hundred and seventy-five feet	(*b*) 115 metres	Plans and sections of workings made after these Regulations come into operation
The Coal Mines (Cardox and Hydrox) Regulations 1956				
Regulation 19(1)	Distance from shot hole within which tests for inflammable gas required	thirty feet	10 metres	All cases
Regulation 21(1)	Minimum length of cable to be used for firing shots	sixty feet	20 metres	All cases
The Stratified Ironstone Shale and Fireclay Mines (Explosives) Regulations 1956				

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Regulation 10(1)	Maximum weight of explosive permitted in a canister below ground	five pounds	2.25 kilograms	All cases
Regulation 19(1)	Minimum permitted difference between the diameter of a drill and the diameter of a cartridge to be inserted in the shothole being drilled	one-eighth of an inch	3 millimetres	All cases
Regulation 21(4)	Distance from charged shot hole within which no person shall charge a shot hole in a long-wall working	ninety feet	25 metres	All cases
Regulation 28(2)(a)	Minimum length of cable for shot firing when a single shot is being fired otherwise than in a shaft in the course of being sunk	sixty feet	20 metres	All cases
Regulation 28(2)(b)	Minimum length of cable for shot firing when round of shots being fired otherwise than in a shaft in the course of being sunk	two hundred and ten feet	65 metres	All cases
Regulation 28(2)(c)	Minimum length of cable for shot firing when a single shot or a round of shots is being fired in a	six hundred feet	180 metres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	shaft in the course of being sunk			
Regulation 29(1)	(*a*) Minimum length of fuse for firing a single shot	(*a*) three feet	(*a*) 1 metre	(*a*) and (*b*) All cases
	(*b*) Minimum length of fuse for firing any shot in a round	(*b*) four feet	(*b*) 1.2 metres	
Regulation 29(2)	Length of working face within which not more than one person shall charge or fire shots by means of a fuse	one hundred and fifty feet	45 metres	All cases
Regulation 29(3)	(*a*) Minimum length of a working face beyond which more than one person may charge a shot hole	(*a*) and (*b*) one hundred and fifty feet	(*a*) and (*b*) 45 metres	(*a*) and (*b*) All cases
	(*b*) Distance between charged shot holes within which certain precautions must be taken before shot is fired			
Regulation 29(5)(a)	Distance from shot hole within which no naked lights or person smoking permitted when shot is to be fired by means of a fuse	four feet	1.2 metres	All cases
Regulation 45	Distance from waste below ground within which only	fifteen feet	5 metres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)* certain explosive may be used	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Regulation 49(3)(a)(ii)	Distance from shot hole within which tests for inflammable gas required	thirty feet	10 metres	All cases
Regulation 54(1)	Distance from place where shot to be fired with horse killing apparatus within which tests for inflammable gas required	thirty feet	10 metres	All cases
Regulation 56(1) (in the definition of "safety fuse")	Rate of burning of fuse	each foot	each 300 millimetres	All cases
The Coal and Other Mines (Shafts, Outlets and Roads) Regulations 1960, as amended(**3**)				
Regulation 6	Maximum vertical distance between the top of the shaft or outlet and the lowest entrance to the shaft or outlet, before certain apparatus need be provided	one hundred and fifty feet	45 metres	Shafts sunk or outlets made after these Regulations come into operation
Regulation 8	Minimum diameter of drum shaft	ten inches	254 millimetres	All cases
Regulation 11(1)	Speed which winding apparatus capable of exceeding	twelve feet per second	4 metres per second	All cases
Regulation 11(1)(a)	Maximum speed of landing for	five feet per second	1.5 metres per second	Automatic contrivances

(**3**) S.I. 1968/1037

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	descending cage, etc.			provided after these Regulations come into operation
Regulation 14	(*a*) Maximum distance between top of and lowest entrance to a shaft or staple pit before guides need be provided	(*a*) one hundred and fifty feet	(*a*) 45 metres	(*a*) Shafts or staple pits sunk after these Regulations come into operation
	(*b*) Maximum depth of shaft or staple pit in the course of being sunk before guides need be provided	(*b*) three hundred feet	(*b*) 90 metres	(*b*) Shafts or staple pits commenced after these Regulations come into operation
Regulation 19(3)	Intervals at which a length of rope used for carrying persons or loads through a shaft shall be cleaned and examined	three hundred feet	90 metres	All cases
Regulation 27(2)	Maximum average weight of output of mineral per working day for certain purposes	one hundred tons	100 tonnes	All cases
Regulation 40(a)	Maximum distance between highest and lowest entrances to a staple pit before effective means of transmitting certain signals required	fifty feet	15 metres	Staple pits sunk after these Regulations come into operation
Regulation 57(a)	(*a*) Minimum width of clear space between vehicles and side of transport road	(*a*) two feet	(*a*) 600 millimetres	(*a*) and (*b*) All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	if persons are to pass on foot along that road			
	(*b*) Maximum speed of vehicles in transport road if persons are to pass on foot along that road	(*b*) ten miles per hour	(*b*) 4.5 metres per second	
Regulation 57(b)	(*a*) In certain mines, maximum speed of vehicles in transport road if persons are to pass on foot along that road	(*a*) three miles per hour	(*a*) 1.4 metres per second	(*a*) and (*b*) All cases
	(*b*) Maximum distance of certain gradient in transport road if persons are to pass on foot along that road	(*b*) three hundred feet	(*b*) 90 metres	
Regulation 58	(*a*) Minimum width of clear space between vehicles standing on any rails and the side of the road nearest to those rails at any place where vehicles coupled or uncoupled	(*a*) two feet	(*a*) 600 millimetres	(*a*) and (*b*) All cases
	(*b*) Minimum width of clear space between vehicles standing on parallel lines of rails if Regulation 58 not to apply	(*b*) three feet	(*b*) 900 millimetres	
Regulation 59(1)(a)	In relation to the provision of refuge holes in roads in which			

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	certain vehicles run—			
	(*a*) Minimum width of clear space between vehicles and the side of the road	(*a*) two feet	(*a*) 600 millimetres	(*a*), (*b*) and (*c*) All cases
	(*b*) Maximum speed of vehicles	(*b*) three miles per hour	(*b*) 1.4 metres per second	
	(*c*) Maximum intervals between refuge holes	(*c*) sixty feet	(*c*) 20 metres	
Regulation 59(1)(b)	Maximum intervals between refuge holes in roads where certain vehicles run in all cases except that mentioned in Regulation 59(1)(a)	thirty feet	10 metres	All cases
Regulation 59(2)(a)(i)	In relation to the provision of refuge holes in roads in which a locomotive runs—			
	(*a*) Maximum radius of the curve of such roads	(*a*) one hundred feet	(*a*) 30 metres	(*a*) Parts of roads made after these Regulations come into operation
	(*b*) Maximum intervals between refuge holes	(*b*) sixty feet	(*b*) 20 metres	(*b*) All cases
Regulation 59(2)(a)(ii)	In relation to the provision of refuge holes in roads in which a locomotive runs—			
	(*a*) Minimum radius of the	(*a*) one hundred feet	(*a*) 30 metres	(*a*) and (*b*) Parts of roads made after these

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	curve of such roads			Regulations come into operation
	(*b*) Maximum radius of the curve of such roads	(*b*) two hundred feet	(*b*) 60 metres	
	(*c*) Maximum intervals between refuge holes	(*c*) ninety feet	(*c*) 28 metres	(*c*) All cases
Regulation 59(2)(a)(iii)	In relation to the provision of refuge holes in roads in which a locomotive runs—			
	(*a*) Minimum radius of the curve of such roads	(*a*) two hundred feet	(*a*) 60 metres	(*a*), (*b*) and (*c*) Parts of roads made after these Regulations come into operation
	(*b*) Maximum radius of the curve of such roads	(*b*) three hundred feet	(*b*) 90 metres	
	(*c*) Maximum intervals between refuge holes	(*c*) one hundred and fifty feet	(*c*) 45 metres	
Regulation 59(2)(b)(i)	In relation to the provision of refuge holes in roads in which a locomotive runs, the maximum intervals between refuge holes where the gradient does not exceed 1:80	three hundred feet	90 metres	Parts of roads made after these Regulations come into operation
Regulation 59(2)(b)(ii)	In relation to the provision of refuge holes in roads in which a locomotive runs, the maximum intervals between	one hundred and eighty feet	55 metres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	refuge holes where the gradient exceeds 1:80 but does not exceed 1:50			
Regulation 59(2)(b)(iii)	In relation to the provision of refuge holes in which a locomotive runs, the maximum intervals between refuge holes where the gradient exceeds 1:50 but does not exceed 1:30	one hundred and twenty feet	37 metres	All cases
Regulation 59(2)(b)(iv)	In relation to the provision of refuge holes in roads in which a locomotive runs, the maximum intervals between refuge holes where the gradient exceeds 1:30	sixty feet	20 metres	All cases
Regulation 59(2)(d)	In relation to the provision of refuge holes in roads in which a locomotive runs, the maximum intervals between refuge holes in the case of any part of a road not mentioned in Regulation 59(2)(a), (b) or (c)	three hundred feet	90 metres	Parts of roads made after Regulations come into operation
Regulation 59(4)	In relation to the provision of refuge holes in roads in which vehicles are moved	seventy five feet	23 metres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	by animals, the maximum intervals between refuge holes			
Regulation 59(5)(a)	Width of refuge holes	three feet	1 metre	Refuge holes made after these Regulations come into operation
Regulation 59(5)(b)	Minimum depth of refuge holes	four feet	1.2 metres	All cases
Regulation 59(5)(c)	Minimum height of refuge holes	six feet	1.8 metres	All cases
Regulation 59(6)	Minimum width of clear space between vehicles in a road and one side of that road on which side of the road refuge holes shall be situated	two feet	600 millimetres	All cases
Regulation 59(8)(b)	Minimum distance around aperture of refuge hole required to be whitewashed	one foot	300 millimetres	All cases
Regulation 61	Speed above which persons prohibited from riding on a set, etc., of vehicles for certain purposes	three miles per hour	1.4 metres per second	All cases
Regulation 67(1)	(*a*) Minimum length of rope to be cut when that rope re-capped if used in certain haulage apparatus	(*a*) six feet	(*a*) 2 metres	(*a*) All cases
	(*b*), (*c*) and (*d*) Maximum lengths of rope to be cut if re-capping done	(*b*) three feet (*c*) four feet (*d*) five feet	(*b*) 1 metre (*c*) 1.2 metres (*d*) 1.5 metres	(*b*), (*c*) and (*d*) All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)* within certain periods	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Regulation 68(a)	(*a*) Melting point of metal used for capping	(*a*) 570° Fahrenheit	(*a*) 300°C	(*a*) and (*b*) All cases
	(*b*) Maximum temperature of metal used for capping when poured into socket of capel	(*b*) 685° Fahrenheit	(*b*) 365°C	
Regulation 68(c)(i)	(*a*) Minimum temperature of socket of capel if that capel made of steel	(*a*) 212° Fahrenheit	(*a*) 100°C	(*a*) and (*b*) All cases
	(*b*) Maximum temperature of socket of capel if that capel made of steel	(*b*) 400° Fahrenheit	(*b*) 205°C	
Regulation 68(c)(ii)	Temperature of socket of capel	212° Fahrenheit	100°C	All cases
Regulation 78(a)	Height above point to which kibble is being lowered at which person lowering kibble shall stop kibble until certain signal received	eighteen feet	6 metres	All cases
Regulation 78(b)	Height above point from which kibble is being raised at which person raising kibble shall stop kibble until certain signal received	four feet	1.2 metres	All cases
Regulation 80(1)	Maximum distance of road along which vehicles may be	three thousand feet	900 metres	Shafts sunk and unwalkable outlets made after these

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)* moved before telephonic communication need be provided	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment* Regulations come into operation
The Coal Mines (Explosives) Regulations 1961				
Regulation 2(1) definition of "safety fuse"	Length of fuse to be used in calculations of rate of burning	three feet	900 millimetres	All cases
Regulation 7(3)(c)	Distance from road within which only permitted explosives and detonators may be used	thirty feet	10 metres	All cases
Regulation 19(1)	Maximum weight of explosive permitted in a canister below ground	five pounds	2.25 kilograms	All cases
Regulation 28(1)	Minimum permitted difference between the diameter of a drill and the diameter of a cartridge	one-eighth of an inch	3 millimetres	All cases
Regulation 30(3)	Distance from charged shot hole within which persons shall not charge another shot hole	ninety feet	25 metres	All cases
Regulation 37(3)(a)	Minimum length of cable to be used when firing a single shot otherwise than in a shaft in the course of being sunk	sixty feet	20 metres	All cases
Regulation 37(3)(b)	Minimum length of cable to be	one hundred and fifty feet	45 metres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)* used when firing a round of shots in coal	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
Regulation 37(3)(c)	Minimum length of cable to be used when firing a round of six shots or less in stone	two hundred and ten feet	65 metres	All cases
Regulation 37(3)(d)	Minimum length of cable to be used when firing a round of more than six shots in a ripping	three hundred feet	90 metres	All cases
Regulation 37(3)(e)	Minimum length of cable to be used when firing a round of more than six shots in a cross measure drift or any shot in a shaft in the course of being sunk	six hundred feet	180 metres	All cases
Regulation 38(1)	(*a*) Minimum length of fuse to be used when firing single shots;	(*a*) three feet	(*a*) 1 metre	(*a*) and (*b*) All cases
	(*b*) Minimum length of fuse to be used when firing any shot in a round	(*b*) four feet	(*b*) 1.2 metres	
Regulation 38(2)	Length of working face within which not more than one person shall fire shots by means of a fuse	one hundred and fifty feet	45 metres	All cases
Regulation 38(3)	(*a*) Length of working face	(*a*) and (*b*) one hundred and fifty feet	(*a*) and (*b*) 45 metres	(*a*) and (*b*) All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	(*b*) Distance from another charged shot hole within which a shot-firer shall not fire any shot by fuse unless he is satisfied that no other shot firer is about to fire that other shot			
Regulation 38(5)(a)	Distance from shot hole, explosive or detonator within which a shot firer shall satisfy himself that there is no naked light, etc., when he is to fire a shot	four feet	1.2 metres	All cases
Regulation 44(1)	Distance from face beyond which a shot firer may prime cartridges to be used in firing a round of shots in a cross measure drift	one hundred and fifty feet	45 metres	All cases
Regulation 48(a)	Minimum thickness of a seam of coal in a cross measure drift in which a delay detonator is permitted only in certain circumstances	twelve inches	300 millimetres	All cases
Regulation 48(b)	In relation to the use of a delay detonator in a cross measure drift			
	(*a*) Thickness of waste in	(*a*) twelve inches	(*a*) 300 millimetres	(*a*) and (*b*) All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	which the face of any such cross measure drift situated			
	(*b*) Distance from waste within which face of any such cross measure drift is known to have approached	(*b*) fifteen feet	(*b*) 5 metres	
Regulation 48(b)(ii)(A)	Distance from the face of cross measure drift within which dust can be raised	three hundred feet	90 metres	All cases
Regulation 50(5)(b)(i)	Distance from certain shot holes within which tests for gas required	thirty feet	10 metres	All cases
Regulation 50(6)(a)(ii)	In relation to a longwall face			
	(*a*) Distance to be used in determining where tests for gas required	(*a*) and (*c*) sixty feet	(*a*) and (*c*) 20 metres	(*a*), (*b*) and (*c*) All cases
	(*b*) Distance from shot hole within which tests for gas required if the shot hole is beyond a certain distance from the face	(*b*) thirty feet	(*b*) 10 metres	
	(*c*) Distance from a shot hole within which tests for gas required if shot hole is within a certain distance from the face			
Regulation 52(1)	Maximum width of break in coal or	one-eighth of an inch	3 millimetres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	in a ripping which is not required to be marked			
Regulation 52(2)	Width of break in coal or in ripping which person testing with a break detector is satisfied is not exceeded	one-eighth of an inch	3 millimetres	All cases
Regulation 54(2)(b)(iii)	(*a*) Maximum and (*b*) minimum distances between a ripping and coal face which determine whether a delay detonator may be used	(*a*) four hundred and fifty feet	(*a*) 135 metres	(*a*) and (*b*) All cases
		(*b*) eighteen feet	(*b*) 6 metres	
Regulation 55(a)	Distance from coal face in a safety lamp mine within which it is not permitted to charge a shot hole unless certain precautions taken	three hundred feet	90 metres	All cases
Regulation 55(b)	Distance from coal face in a safety lamp mine within which it is not permitted to charge any shot hole in a roof ripping unless a sheathed explosive is used	sixty feet	20 metres	All cases
Regulation 63(2)(a)	In relation to miss-fires distance from the shot hole within which the relieving shot hole within which the relieving shot	twelve inches	300 millimetres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	hole shall not be drilled			
The Coal and Other Mines (First Aid) Regulations 1962				
Regulation 4(1)(a)(ii)	Minimum floor area of first aid room	one hundred and fifty square feet	14 square metres	First aid rooms provided after these Regulations come into operation
Regulation 4(3)(g)	Weight of packets of sterilized cotton wool provided in first aid rooms	half ounce	15 grams	All cases
Regulation 6(4)(b)	Weight of packets of sterilized cotton wool provided in first aid boxes	half ounce	15 grams	All cases
The Coal and Other Mines (Mechanics and Electricians) Regulations 1965				
Regulation 11(4)(b)	Distance from working face beyond which a lamp-holder must be made dead by certain persons before removal or insertion of a lamp	nine hundred feet	275 metres	All cases
Regulation 15(2)(b)(i)	In relation to the qualification of mechanical engineers or mechanics for appointment at certain mines			
	(*a*) Power which prime mover	(*a*) ten horse-power	(*a*) 7.5 kilowatts	(*a*) and (*b*) All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)* capable of exceeding	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	(*b*) Distance from the working face at or within which such a prime mover used	(*b*) thirty feet	(*b*) 10 metres	
Regulation 15(2)(b)(ii)	In relation to the qualification of electrical engineers or electricians, the distance from the working face at or within which an electric motor was used	thirty feet	10 metres	All cases
Regulation 15(3)(d)(i)	In relation to the qualification of mechanical engineers or mechanics for appointment at mines of stratified ironstone			
	(*a*) Power which prime mover capable of exceeding;	(*a*) ten horse-power	(*a*) 7.5 kilowatts	(*a*) and (*b*) All cases
	(*b*) Distance from working face at or within which such a prime mover used	(*b*) thirty feet	(*b*) 10 metres	
Regulation 15(3)(d)(ii)	In relation to the qualification of electrical engineers or electricians for appointment at mines of stratified ironstone, distance from the working face at or within which	thirty feet	10 metres	All cases

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
	an electric motor was used			
Regulation 16(1)(b)(i)	In relation to the qualification of supervisory mechanics for appointment at certain mines			
	(*a*) Power which prime mover capable of exceeding	(*a*) ten horse-power	(*a*) 7.5 kilowatts	(*a*) and (*b*) All cases
	(*b*) Distance from working face at or within such a prime mover used	(*b*) thirty feet	(*b*) 10 metres	
Regulation 16(2)(b)	In relation to the qualification of supervisory electricians for appointment at certain mines, distance from the working face at or within which an electric motor was used	thirty feet	10 metres	All cases
Regulation 18(1)(a)	In relation to exceptions from Regulations 15 and 16 applying to certain persons			
	(*a*) power which prime mover capable of exceeding	(*a*) ten horse-power	(*a*) 7.5 kilowatts	(*a*) and (*b*) All cases
	(*b*) Distance from working face at or within which such prime movers or, as the case may be, electric motors were used	(*b*) thirty feet	(*b*) 10 metres	
The Coal and Other Mines				

Column 1 Regulations to be amended	*Column 2 Subject matter of measurement(s)*	*Column 3 Present Measurement*	*Column 4 Substituted Measurement*	*Column 5 Application of Amendment*
(Training) Regulations 1967				
Regulation 2(1) definition of "work for coal production"	Distance from face at which coal is got	thirty feet	10 metres	All cases

EXPLANATORY NOTE

These Regulations amend—

(i) the Coal and Other Mines (Managers and Officials) Regulations 1956,

(ii) the Coal and Other Mines (Surveyors and Plans) Regulations 1956,

(iii) the Coal and Other Mines (General Duties and Conduct) Regulations 1956,

(iv) the Coal and Other Mines (Safety Lamps and Lighting) Regulations 1956,

(v) the Coal and Other Mines (Electricity) Regulations 1956,

(vi) the Coal and Other Mines (Fire and Rescue) Regulations 1956,

(vii) the Coal and Other Mines (Locomotives) Regulations 1956,

(viii) the Coal and Other Mines (Sidings) Regulations 1956,

(ix) the Coal and Other Mines (Working Plans) Rules 1956,

(x) the Coal Mines (Cardox and Hydrox) Regulations 1956,

(xi) the Stratified Ironstone Shale and Fireclay Mines (Explosives) Regulations 1956,

(xii) the Coal and Other Mines (Shafts, Outlets and Roads) Regulations 1960,

(xiii) the Coal Mines (Explosives) Regulations 1961,

(xiv) the Coal and Other Mines (First Aid) Regulations 1962,

(xv) the Coal and Other Mines (Mechanics and Electricians) Regulations 1965, and

(xvi) the Coal and Other Mines (Training) Regulations 1967,

by substituting for the measurements expressed in imperial units, measurements expressed in metric units so as to preserve the effect of the various provisions except to the extent necessary to obtain amounts expressed in convenient and suitable terms.

In addition Regulation 3 of the Regulations amends the Coal and Other Mines (Working Plans) Rules 1956 to allow the use of Ordnance Datum as well as an assumed level below Ordnance Datum as had hitherto been the case.