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GOEWERMENSKENNISGEWING

DEPARTEMENT VAN MINERAAL- EN ENERGIESAKE

No. R. 1885 12 September 1980

WYSIGING VAN REGULASIES

WET OP MYNE EN BEDRYWE, 1956 (WET 27 VAN 1956)

Die Staatspresident het kragtens artikel 12 van die Wet op Myne en Bedrywe, 1956 (Wet 27 van 1956), die regulasies in die Bylae uitgevaardig.

BYLAE

1. In hierdie regulasies beteken "die Regulasies" die regulasies afgekondig by Goewermenskennisgewing R. 992 van 26 Junie 1970, soos gewysig by Goewermenskennisgewings R. 303, R. 304 en R. 305 van 1 Maart 1972, R. 1346 van 4 Augustus 1972, R. 2101, R. 2102 en R. 2103 van 15 November 1974, R. 513 van 1 April 1977, R. 1189 van 8 Junie 1979 en R. 537 van 21 Maart 1980.

2. Die Regulasies word hierby gewysig deur in Hoofstuk 1—

(a) paragraaf (21) deur die volgende paragraaf te vervang:

"(21) 'materiaal' alles wat deur middel van enige hysinstallasie, hyser of selfgedrewe mobiele masjien vervoer kan word, uitgesonderd persone en delfstowwe; (16)"; en

(b) die volgende paragraaf na paragraaf (26) in te voeg:

"(26A) 'selfgedrewe mobiele masjien' 'n masjien of voertuig wat ontwerp of aangepas is om hoofsaaklik op wiele of rusperbande te beweeg en aangedryf word deur 'n motor of enjin en wat gebruik word vir die vervoer van persone of vir die vervoer of hysing van materiaal of vir die vervoer, sny, breek, boor, winning, laai of verwydering van 'n delfstof of deklaag in of by 'n myn of bedryf, en wat gebruik word of bedoel is om gebruik te word vir werksaamhede by of rakende 'n myn of bedryf, en sluit dit ook 'n sleepwa in wat saam met so 'n selfgedrewe mobiele masjien gebruik word; (27A)";

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GOVERNMENT NOTICE

DEPARTMENT OF MINERAL AND ENERGY AFFAIRS

No. R. 1885 12 September 1980

AMENDMENT OF REGULATIONS

MINES AND WORKS ACT, 1956 (ACT 27 OF 1956)

The State President has, in terms of section 12 of the Mines and Works Act, 1956 (Act 27 of 1956), made the regulations in the Schedule.

SCHEDULE

1. In these regulations "the Regulations" means the regulations published under Government Notice R. 992 of 26 June 1970, as amended by Government Notices R. 303, R. 304 and R. 305 of 1 March 1972, R. 1346 of 4 August 1972, R. 2101, R. 2102 and R. 2103 of 15 November 1974, R. 513 of 1 April 1977, R. 1189 of 8 June 1979 and R. 537 of 21 March 1980.

2. The Regulations in Chapter 1 are hereby amended by—

(a) substituting the following paragraph for paragraph (16):

"(16) 'material' means and includes whatever may be conveyed by means of a winding plant, elevator or self-propelled mobile machine, except persons and minerals; (21)"; and

(b) adding the following paragraph after paragraph (27):

"(27A) 'self-propelled mobile machine' means a machine or vehicle designed or adapted principally to travel on wheels or crawler tracks, driven by a motor or engine, which is used for conveying persons or for conveying or lifting material or for conveying, cutting, breaking, drilling, winning, loading or removing mineral or overburden in or at a mine or works and used or intended to be used in connection with operations at and pertaining to a mine or works and shall include any trailer used with such self-propelled mobile machine; (26A)";

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(c) die volgende paragraaf na paragraaf 33 in te voeg:

“(33A) ‘stoelhyser’ enige toestel of kombinasie van toestelle wat gebruik word of bedoel is om gebruik te word vir die vervoer van persone en materiaal deur middel van ’n stoel of ander vervoermiddel wat van ’n ringtrektou hang of stoele of vervoermiddels wat in of op ’n tou of spoorbaan loop en voorsien is van ’n trektou of trekking; (4A)”.

3. Die Regulasies word hierby gewysig deur die volgende regulasie na regulasie 16.104 by te voeg:

“Stoelhyser

16.105 Geen stoelhyserinstallasie mag vir die gereelde vervoer van persone gebruik word nie tensy skriftelike vergunning van die Inspekteur van Masjinerie verkry is.

16.106 Geen stoelhyser mag in enige gedeelte van ’n myn of bedryf waar daar hysinstallasies of bewegende masjinerie bedryf word, geïnstalleer word nie tensy die persone wat die stoelhyser gebruik of bedien, voldoende beskerm is teen die voertuie, ander hystoerusting of bewegende masjinerie of tensy dit so ingerig is dat die gelyktydige werking van die stoelhyser en hysinstallasie of ander masjinerie nie moontlik is nie.

16.107 Die bestuurder van ’n myn of bedryf wat na die datum van inwerkingtreding van hierdie subregulasie voornemens is om ’n stoelhyser te installeer of te verander, moet vroegtydig by die Inspekteur van Masjinerie daarom aansoek doen voordat daar met sodanige installering of verandering begin word.

16.108 Elke aansoek om die installering, verandering en gebruik van ’n stoelhyser moet vergesels gaan van—

(a) maattekeninge in plan, aansig en seksie volgens ’n skaal van minstens 1 op 100;

(b) spesifikasies deur die vervaardigers of verskaffers van die beoogde installasie; en

(c) volle besonderhede rakende alle toue en kettings bedoel vir gebruik in die installasie.

16.109 Die Inspekteur van Masjinerie mag nie vergunning vir die gebruik van ’n stoelhyser verleen nie alvorens hy hom deur middel van inspeksie en werklike toets, in sover dit prakties moontlik is, daarvan vergewis het dat daar voldoen is aan die vereistes van hierdie regulasies, vir sover hulle van toepassing is.

16.110 Bykomend by die bepalinge van hierdie regulasies kan die Inspekteur van Masjinerie vergunning verleen vir die gebruik van ’n stoelhyser onderworpe aan die voorwaardes wat hy voorskryf.

16.110.1 Die Inspekteur van Masjinerie kan die vergunning vir die gebruik van ’n stoelhyser wysig, opskort of intrek as hy sodanige optrede nodig ag.

16.111 Geen stoelhyser mag gebruik word nie—

16.111.1 tensy dit van goeie konstruksie, van goeie kwaliteit materiaal, sterk genoeg volgens berekening en vry van enige sigbare gebrek is;

16.111.2 tensy dit so gebruik word dat die veiligheid van persone nie in gevaar gestel word nie;

16.111.3 tensy die as van die lyn van werking daarvan, tussen stasies, in plan ’n reguit lyn is;

16.111.4 tensy die helling van die gelaaide trektou of trekking minder as 45 grade is;

(c) adding the following paragraph after paragraph 4:

“(4A) ‘chairlift’ means any appliance or combination of appliances used or intended to be used for the conveyance of persons and material by means of a chair or other carrier suspended from an endless hauling rope or with chairs or carriers running in or on a rope or rail circuit and provided with a traction rope or chain; (33A)”.

3. The Regulations are hereby amended by adding the following regulation after regulation 16.104:

“Chairlifts

16.105 No chairlift installation shall be used for the regular conveyance of persons unless written permission to do so has been obtained from the Inspector of Machinery.

16.106 No chairlift shall be installed in any portion of a mine or works where winding plants or moving machinery operates unless the persons using and operating the chairlift are adequately protected from the conveyances, other winding equipment or moving machinery or unless it is so arranged that simultaneous operation of the chairlift and the winding plant or other machinery is impossible.

16.107 The manager of a mine or works who intends to install and use or modify a chairlift after inurement of this subregulation shall timeously apply in writing to the Inspector of Machinery for permission to do so before such installation or modification is commenced.

16.108 Each application for permission to install, modify and use a chairlift shall be accompanied by—

(a) dimensioned drawings in plan, elevation and section to the scale of at least 1 in 100;

(b) the manufacturer's or supplier's specifications of the proposed installation; and

(c) full particulars of all ropes and chains intended for use in the installation.

16.109 The Inspector of Machinery shall not grant permission to use a chairlift until he has satisfied himself by actual inspection and test, as far as is practically possible, that the requirements of these regulations, as far as they are applicable, are complied with.

16.110 In addition to the requirements of these regulations the Inspector of Machinery may grant permission to use a chairlift subject to such conditions as he may specify.

16.110.1 The Inspector of Machinery may amend, suspend or cancel such permission to use a chairlift should he deem such action necessary.

16.111 No chairlift shall be used unless—

16.111.1 it is of good construction, sound material, adequate calculated strength and free from any patent defect;

16.111.2 it is so used that the safety of persons is not endangered;

16.111.3 the axis of its line of operation, in plan, between stations, is a straight line;

16.111.4 the slope of the loaded hauling rope or traction chain is less than 45 degrees;

16.111.5 tensy die afstand tussen die middellyne van twee stoele of vervoermiddels wat by mekaar verbygaan, 900 mm of meer is en die afstand vanaf die middellyn van 'n stoel of vervoermiddel na 'n handreling of handrelingstut of die sywal 500 mm of meer oor die hele lengte van die stoelhyser is: Met dien verstande dat by alle op- en afklimplekke die vryruimte vanaf die middellyn van 'n stoel na buite ten minste 1,5 meter moet wees;

16.111.6 tensy die vertikale vryruimte tussen die onderkant van 'n stoel met 'n passasier daarop en die terrein aan die onderkant, in ondergrondse installasies, nie meer as 1,5 meter en ook nie minder as 0,3 meter is nie;

16.111.7 tensy die minimum spasiëring, in meter, tussen enige twee agtereenvolgende stoele of vervoermiddels nie gelyk is aan, of meer is as, vier maal die snelheid in meter per sekonde vir enkelsitplek-vervoermiddels of vyf maal die snelheid in meter per sekonde vir dubbelsitplek-vervoermiddels waar passasiers gelyktydig op- en afklim of sewe maal die snelheid in meter per sekonde vir dubbelsitplek-vervoermiddels waar passasiers die een na die ander op- en afklim nie;

16.111.8 tensy die helling by op- en afklimplekke nie meer as 6 grade is nie en die lengte van beide op- en afklimplekke ten minste 6 meter is vir 'n installasie wat ontwerp is om minder as 500 persone per uur te vervoer, of ten minste 8 meter vir 'n installasie wat ontwerp is om 500 of meer persone per uur te vervoer, of gelyk aan die minimum spasiëring vereis kragtens regulasie 16.111.7, welke afstand ook al die grootste is;

16.111.9 tensy die werksnelheid nie 1,5 meter per sekonde vir 'n vastegreepsisteem of 3,0 meter per sekonde vir 'n afhaakbaregreepsisteem oorskry nie;

16.111.10 tensy alle onderdele wat, terwyl dit in beweging is, 'n bron van gevaar kan wees, buite bereik is van 'n passasier wat gewoonweg op 'n stoel sit;

16.111.11 tensy die tipe vervoermiddel wat gebruik word, van 'n ontwerp en konstruksie is wat deur die Inspekteur van Masjinerie goedgekeur is en een van die volgende is:

- (a) Enkelsitplekstoele toegerus met 'n voetrusplek;
- (b) dubbelsitplekstoele met 'n sitwydte van ten minste 0,5 meter per persoon en toegerus met voetrusplekke;
- (c) 'n spesiale maklik afhaakbare houer wat aan die stoel geheg is of 'n houer vir die vervoer van materiaal; of
- (d) 'n spesiale draagbaarvervoerder wat gebruik word vir die vervoer van draagbaargevalle.

16.112 Enige tou van 'n stoelhyser moet van staal-draad wees en die buigstyfheid van die tou moet aangepas wees by die diameter van die katrolwiele.

16.112.1 Enige ketting wat as 'n trekketting vir 'n stoelhyser gebruik word, moet gemaak wees van 'n klas staal wat deur die Staatsmyningenieur goedgekeur is.

16.112.2 Geen tou of ketting mag op 'n stoelhyser gebruik word as die berekende breekkrag daarvan by enige plek in die tou of ketting minder as nege tiendes van die aanvanklike breekkrag is nie.

16.111.5 the distance between the centre lines of two passing chairs or carriers is 900 mm or more and the distance from the centre line of a chair or carrier to a handrail or handrail support or to the sidewall is 500 mm or more along the entire operating length of the chairlift: Provided that at all landing and boarding sites the clearance from the centre line of the chair to the outside is at least 1,5 metres;

16.111.6 the vertical clearance between the underside of a chair loaded with a passenger and the terrain below it, in underground installations, is not more than 1,5 metres or less than 0,3 metres;

16.111.7 the minimum spacing in metres between any two consecutive carriers or chairs is equal to or greater than four times the velocity in metres per second for single-seat carriers or five times the velocity in metres per second for two-seat carriers where passengers board and leave simultaneously, or seven times the velocity in metres per second for two-seat carriers where passengers board and leave one after the other;

16.111.8 the gradient at boarding and landing sites is not more than six degrees and the length of both boarding and landing sites is 6 metres if the installation is designed to convey less than 500 persons per hour and 8 metres if the installation is designed to convey 500 or more persons per hour or equal to the minimum spacing of carriers called for in regulation 16.111.7, whichever is the greater;

16.111.9 the speed of operation does not exceed 1,5 metres per second for a fixed grip system and does not exceed 3 metres per second for a detachable grip system;

16.111.10 all components which, whilst in motion, may be a source of danger are out of reach of a passenger when seated normally on the chair;

16.111.11 the type of carriers used are of a design and construction approved by the Inspector of Machinery and are either—

- (a) chairs with one seat equipped with a footrest;
- (b) chairs with two seats, providing a seating width of not less than 0,5 metre per person, and equipped with suitable footrests;
- (c) special, easily detachable receptacles attached to the chair or containers to permit the transport of material; or
- (d) special stretcher carriers used for the transportation of stretcher cases.

16.112 Any rope used on a chairlift shall be made of steel wire and the bending stiffness of the rope shall be suited to the diameter of the sheaves.

16.112.1 Any chain used as a traction chain on a chairlift shall be manufactured from a class of steel approved by the Government Mining Engineer.

16.112.2 No rope or chain shall be used on a chairlift if the calculated breaking force at any point is less than nine-tenths of the breaking force of the rope or chain when it was new.

16.112.3 Waar daar 'n trektou of trekketting gebruik word op 'n stoelhyser wat toegerus is met vervoermiddels wat in of op 'n tou of spoorbaan loop, moet daar 'n veiligheidsstou of -touw voorsien word wat aan elke vervoermiddel geklem is en wat voorkom dat die vervoermiddel terughardloop indien die trektou of -ketting sou breek.

16.112.4 Enige tou of ketting wat deel uitmaak van 'n stoelhyserinstallasie, moet 'n veiligheidsfaktor van ten minste ses hê, bereken op die statiese las.

16.112.5 By die berekening van die totale massa van persone vir die doel van regulasie 16.112.4, word 70 kilogram per persoon toegelaat.

16.112.6 Splitlasse in toue wat deel uitmaak van 'n stoelhyserinstallasie, moet deur ervare persone gemaak word en die lengte van enige sodanige splitlas moet minstens 1 200 maal die toudeursnee wees. Indien daar klampe aan 'n tou gebruik word, moet die aantal voldoende wees om 'n effektiewe las te verseker.

16.112.7 Behalwe met die skriftelike toestemming van die Inspekteur van Masjinerie mag daar nie meer as twee splitlasse in die geslote kring van 'n dratrektou toegelaat word nie. Indien meer as een splitlas gemaak word, moet die vry afstand tussen opeenvolgende splitlasse minstens 3 000 maal die diameter van die tou wees.

16.113 Die krag wat deur 'n dratrektou op elke steunroller uitgeoefen word, moet positief wees as die stelsel sonder vrag werk.

16.114 Die vervoermiddel van 'n stoelhyser moet vry wees om in die rigting van beweging, relatief tot die vertikale vlak, deur 'n boog te swaai wat gelykstaande is met die helling van die installasie. Oormatige swaaibewegings moet binne praktiese perke beheer word.

16.115 Die beweging van die vervoerders om die katrolwiele moet nie 'n bron van gevaar wees vir passasiers wat nie in staat was om af te klim nie.

16.116 Die dryfmotor van enige stoelhyser—

16.116.1 moet oor voldoende drywing beskik om te verseker dat dit die stoelhyser onder die ongunstigste toestande aan die gang kan sit;

16.116.2 moet outomaties tot stilstand kom as enige rem aangeslaan word of as enige veiligheids-toestel in werking gestel word;

16.116.3 moet waar dit deur meerfasige wisselstroom gevoer word, voorsien wees van 'n terugloop-fasereël of ander ekwivalente beskerming om te voorkom dat die dryfmotorrigting verander ingeval die fases per abuis omgekeer word.

16.117.1 Alle stoelhyssers moet voorsien wees van twee afsonderlike remme, 'n hoofrem en 'n steunrem, wat so ontwerp is dat elke rem in staat is om, op sy eie, die stoelhyserinstallasie te hou sonder dat dit gly wanneer die maksimum wringmoment op die rem toegepas word. Die bepalinge van hierdie subregulasie is van toepassing selfs as die installasie toegerus is met 'n spesiale toestel wat outomaties die trubeweging van die vervoermiddels voorkom.

16.117.2 Beide remme moet so ontwerp wees dat dit outomaties aanslaan wanneer die kragtoevoer aan die dryfmotor onderbreek word of as enige veiligheids-toestel in werking kom.

16.117.3 Die hoofrem van die stoelhyser moet op die dryfkatrol of op die as van die dryfkatrol werk en nie op enige tussen-as nie.

16.118 'n Noodstop-toestel, wat die kragtoevoer aan die dryfmotor onderbreek, moet aangebring word oor die volle lengte van die stoelhyserinstallasie en moet so geïnstalleer wees dat dit maklik in werking gestel kan word deur 'n passasier wat met die stoelhyser reis.

16.112.3 Where a traction chain or rope is used on a chairlift with the carriers running in or on a rope or rail circuit, a safety rope or ropes clamped to each carrier shall be provided to prevent runback in the event of the traction chain or rope breaking.

16.112.4 Any rope or chain forming part of a chairlift installation shall have a factor of safety of at least six, calculated on its static load.

16.112.5 In calculating the total mass of persons for the purpose of regulation 16.112.4, 70 kilograms shall be allowed for each person.

16.112.6 Splices in ropes forming part of a chairlift installation shall be made by experienced persons and the length of such splice shall not be less than 1 200 times the rope diameter. Whenever clamps are used on ropes the clamps used shall be sufficient in number to ensure an efficient joint.

16.112.7 Except with the written permission of the Inspector of Machinery, not more than two splices shall be allowed along a closed loop formed by a carrying-hauling rope. Where more than one splice is made the clear distance between successive splices shall be at least 3 000 times the diameter of the rope.

16.113 The force exerted by a carrying-hauling rope on each supporting roller shall be positive when the system is operating unloaded.

16.114 The carrier of a chairlift installation shall be free to incline itself in the direction of travel with respect to the vertical by an amount equal to the inclination of the installation. Swinging shall be restricted to within practical limits.

16.115 The passage of the carriers around the sheaves shall not be a source of danger to passengers who have been unable to alight.

16.116 The driving motor of a chairlift installation shall be—

16.116.1 of adequate power to ensure starting the chairlift under the most unfavourable conditions;

16.116.2 stopped automatically when any brake is applied or if any safety device is operated;

16.116.3 provided with a reverse phase relay or other equivalent protection to prevent the reversal of the driving motor through an inadvertent reversal of the phases if the motor is supplied with polyphase alternating current.

16.117.1 Every chairlift installation shall be equipped with two independent brakes, a main brake and a back-up brake, so designed that either brake is capable of holding, without slipping, the chairlift installation when loaded in such a way that the maximum static torque is produced on the brake. The provisions of this sub-regulation are applicable even if the installation is fitted with a special device which will automatically prevent reverse movement of the carriers.

16.117.2 Both brakes shall be so designed that they are automatically applied when the power supply to the driving motor is interrupted or if any safety device is operated.

16.117.3 The main brake of the chairlift shall operate on the driving sheave or on the shaft of the driving sheave and not on any intermediate shaft.

16.118 An emergency stopping device, which interrupts the power supply to the driving motor, shall be provided along the full length of the chairlift installation and shall be so arranged that it can easily be brought into operation by any passenger travelling on the chairlift.

16.119 Elke op- en afklimplek vir passasiers asook die volle lengte van die stoelhyserinstallasie moet te alle tye ondergronds en snags bogronds, wanneer die stoelhyser in gebruik is, voldoende verlig wees.

16.120.1 Tensy 'n ander waarskuwingstelsel, wat deur die Inspekteur van Masjinerie goedgekeur is, geïnstalleer is, moet elke stoelhyserinstallasie toegerus wees met 'n alarm- of toeterstelsel wat hoorbaar is oor die volle lengte van die installasie, en hierdie alarm- of waarskuwingstelsel moet outomaties in werking kom voordat die stoelhyser in beweging gebring word.

16.120.2 Elke plek waar 'n stoelhyser so geïnstalleer is dat die hellingshoek met die horisontale meer as 20 grade is en waar passasiers in staat is om op enige plek langs die lengte daarvan af te klim as dit staan, moet voorsien wees van 'n noodleerinstallasie wat so geïnstalleer is dat dit of afsonderlik van die installasie of tussen die vervoermiddels is.

16.120.3 Waar die leerinstallasie tussen die vervoermiddels is, moet daar stoelhyserbedieners by elke op- en afklimplek wees om die stoelhyser te stop en aan die gang te sit en wie se plig dit ook is om te verseker dat die stoelhyser nie aan die gang gesit word terwyl persone op die leerinstallasie is nie.

16.120.4 Waar die leerinstallasie afsonderlik van maar langs die stoelhyserinstallasie is, moet dit voorsien wees van 'n gladde handreling wat dit van die stoelhyser skei.

16.121.1 Niemand mag met 'n stoelhyser saam met materiaal ry nie behalwe met materiaal wat waarskynlik nie gevaar vir homself of enige ander persoon inhou nie en waarvoor vergunning deur die bestuurder, die mynopsigter of die persoon kragtens regulasie 2.13.1, 2.13.2 of 2.13.3 aangestel is, verleen is.

16.121.2 Die bestuurder moet 'n lys by elke op- en afklimplek laat byhou van alle artikels waarvoor vergunning verleen is kragtens regulasie 16.121.1 en hy moet toesien dat alle betrokke persone bewus gemaak word van die artikels wat in die lys ingesluit is.

16.122 Geen persoon wat op 'n stoelhyser ry en geen persoon wat in die omgewing van 'n stoelhyser is, mag hom op enige manier met die toerusting of met enige ander persoon wat op die stoelhyser ry of in die omgewing daarvan is, bemoei of probeer bemoei nie.

16.123.1 Die stoelhyserinstallasie in sy geheel of enige deel daarvan moet gereeld ondersoek word deur sodanige persone en met sodanige tussenpose as wat deur die persoon aangestel kragtens regulasie 2.13.1 of 2.13.2 bepaal moet word, met inagneming van die dienslas en gebruiksfrekwensie van die installasie: Met dien verstande dat die Inspekteur van Masjinerie kan aandrang op meer dikwelse inspeksies of inspeksies deur sodanige ander persone as wat hy mag nodig ag.

16.123.2 Van elke sodanige inspeksie moet daar skriftelik verslag gedoen word deur die persoon of persone verantwoordelik vir die inspeksie, in 'n boek wat spesiaal vir dié doel deur die bestuurder verskaf word."

4. Die Regulasies word hierby gewysig deur regulasie 18.1.4 te skrap.

5. Die Regulasies word hierby gewysig deur regulasie 18.2 deur die volgende regulasie te vervang:

"18.2.1 Behoudens die bepalings van regulasies 18.1.1, 18.1.2 en 18.1.3 mag niemand enige selfgedrewe mobiele masjien, wat onder beheer van die bestuurder is, op private eiendom in of by 'n myn of bedryf dryf

16.119 Every passenger boarding and landing site as well as the entire length of the chairlift installation shall be adequately illuminated at all times underground and at night on the surface, whenever the chairlift is in use.

16.120.1 Except where some other warning system, approved by the Inspector of Machinery, is installed, every chairlift installation shall be equipped with an alarm or warning system, audible along the entire length of the installation, and such alarm or warning system shall be actuated automatically before the chairlift is set in motion.

16.120.2 Every place where a chairlift is installed such that the inclination exceeds 20 degrees from the horizontal and where passengers are able to alight anywhere along its length when it is stationary, shall be provided with an emergency ladderway so arranged that it is either separate from the installation or situated between the carriers.

16.120.3 Where the ladderway is between the carriers, chairlift attendants responsible for starting and stopping the installation shall be stationed at each boarding and landing site and their duty shall also be to ensure that the chairlifts is not set in motion whilst persons are on the ladderway.

16.120.4 Where the ladderway is separate from, but adjacent to, the chairlift installation, it shall be provided with a smooth handrail separating it from the chairlift.

16.121.1 No person shall travel on a chairlift with material other than articles which are unlikely to endanger him or any other person and for which permission has been granted by the manager, mine overseer or person appointed in terms of regulation 2.13.1, 2.13.2 or 2.13.3.

16.121.2 At all boarding and landing sites the manager shall cause a list to be kept of all articles for which permission has been granted in terms of regulation 16.121.1 and he shall ensure that all persons concerned are made aware of the articles included in the list.

16.122 No person travelling on a chairlift and no person in the vicinity of a chairlift installation shall in any way interfere or attempt to interfere with the equipment of the chairlift or any other person travelling on the chairlift or any other person who is in the vicinity of the chairlift.

16.123.1 The complete chairlift installation or any part thereof shall be examined regularly by such persons and at such intervals as may be determined by the person appointed in terms of regulation 2.13.1 or 2.13.2, having due regard to the duty and frequency of operation of the installation: Provided that the Inspector of Machinery may insist on more frequent inspections or inspections by such other persons as he may deem necessary.

16.123.2 A written record of each such inspection shall be kept by the person or persons responsible for the inspection in a book specially provided for the purpose by the manager."

4. The Regulations are hereby amended by deleting regulation 18.1.4.

5. The Regulations are hereby amended by substituting the following regulation for regulation 18.2:

"18.2.1 Except as provided for in regulations 18.1.1, 18.1.2 and 18.1.3, no person shall drive or be caused or permitted to drive any self-propelled mobile machine which is under the control of the manager, on private

of verplig of toegelaat word om dit te dryf nie tensy hy daartoe gemagtig is deur die bestuurder, mynopsigter, skofbaas of persoon aangestel kragtens regulasie 2.13.1, 2.13.2 of 2.13.3.

18.2.2 Die bestuurder, mynopsigter, skofbaas of persoon aangestel kragtens regulasie 2.13.1, 2.13.2 of 2.13.3 mag geen persoon magtig om enige selfgedrewe mobiele masjien te dryf nie tensy hy daarvan oortuig is dat die betrokke persoon—

(a) die ouderdom van 18 jaar bereik het;

(b) se gesig of gehoor nie defek is en dat hy aan geen ander ongeskiktheid, geestelik of liggaamlik, ly wat hom moontlik in die doeltreffende verrigting van sy pligte kan hinder nie; en

(c) bevoeg bevind is, deur werklike toets, deur die persoon aangestel kragtens regulasie 2.13.1, 2.13.2, of 2.13.3 of deur 'n bevoegde ingelyste persoon aan wie hierdie plig deur sodanige persoon gedelgeer is, behalwe dat—

(i) die bepalings van regulasie 18.2.2 (c) nie van toepassing is nie op 'n persoon wat aldus gemagtig is indien hy in besit is van 'n rybewys uitgereik deur 'n erkende provinsiale owerheid, en wat geldig is vir die klas voertuig wat hy gemagtig is om te dryf; en

(ii) 'n leerlingdrywer toegelaat kan word om enige sodanige masjien te dryf onder die onmiddellike toets en beheer van die gemagtigde drywer.

'n Magtiging kragtens hierdie regulasie uitgereik, is geldig slegs vir die myn of bedryf waar dit uitgereik is.

18.2.3 Niemand mag 'n selfgedrewe mobiele masjien dryf of toegelaat word om dit te dryf nie tensy hy behoorlik sit in 'n sitplek wat vir die drywer voorsien is, behalwe waar die masjien ontwerp is om gedryf te word deur 'n staande of lopende drywer.

18.2.4 Indien enigiemand wat kragtens regulasie 18.1.3 of 18.2.1 gemagtig is, na die mening van die Inspekteur van Myne of die Inspekteur van Masjinerie nalatig was by die uitvoering van sy pligte of om enige ander rede nie in staat is om sy pligte veilig en doeltreffend uit te voer nie, moet die bestuurder by ontvangs van 'n kennisgewing van die Inspekteur onmiddellik die magtiging aan sodanige persoon terugtrek."

6. Die Regulasies word hierby gewysig deur regulasies 18.4.1, 18.4.2, 18.4.3 en 18.4.4 deur die volgende regulasies te vervang:

"18.4.1 Niemand mag op 'n lokomotief of op of in enige spoorwa, of op of in enige selfgedrewe mobiele masjien, of op of in enige voertuig wat met masjinerie op of in 'n vervoerweg getrek of gestoot word, of op enige vervoerband reis of enige ander persoon verplig of toelaat om aldus te reis nie, tensy hy gemagtig is om dit te doen deur die bestuurder, mynopsigter of persoon aangestel kragtens regulasie 2.13.1, 2.13.2 of 2.13.3, en geen persoon mag op enige trektou reis of enige ander persoon verplig of toelaat om daarop te reis nie.

18.4.2 Die bestuurder, mynopsigter of persoon aangestel kragtens regulasie 2.13.1, 2.13.2 of 2.13.3 mag nie die gereelde vervoer van persone, behalwe die persone benodig vir die werking van die masjien of trein, in of op enige spoorwa of in of op enige voertuig wat met masjinerie op of in 'n vervoerweg getrek of gestoot word of in of op enige selfgedrewe mobiele masjien of op enige vervoerband magtig nie alvorens skriftelike vergunning verkry is van die Inspekteur van Masjinerie, wat sodanige voorwaardes kan bepaal as wat hy nodig ag vir die veiligheid van persone: Met dien verstande dat die bepalings van hierdie subregulasie nie van

property, in or at a mine or works, unless he is authorised thereto by the manager, mine overseer, shiftboss or person appointed in terms of regulation 2.13.1, 2.13.2 or 2.13.3.

18.2.2 The manager, mine overseer, shiftboss or person appointed in terms of regulation 2.13.1, 2.13.2 or 2.13.3 shall not authorise any person to drive any self-propelled mobile machine unless he is satisfied that the person—

(a) has attained the age of 18 years;

(b) does not suffer from defective sight or hearing or any other infirmity, mental or physical, likely to interfere with the efficient discharge of his duties; and

(c) has been found competent to do so, by actual test, by the person appointed in terms of regulation 2.13.1, 2.13.2 or 2.13.3, or by some other competent scheduled person to whom this duty was delegated by such person, except that—

(i) the provisions of regulation 18.2.2 (c) shall not apply to a person so authorised if he is in possession of a driver's licence issued by a recognised provincial authority and valid for the class of vehicle he is authorised to drive, and

(ii) a learner driver may be permitted to drive any such machine under the immediate supervision and control of the authorised driver.

An authorisation issued in terms of this regulation shall be valid for the mine or works in respect of which it is issued.

18.2.3 No person shall drive or be permitted to drive any self-propelled mobile machine unless he is properly seated in a seat provided for the driver, except where the machine is so designed as to be driven with the driver standing or walking.

18.2.4 If, in the opinion of the Inspector of Mines or the Inspector of Machinery, any person authorised in terms of regulation 18.1.3 or 18.2.1 has been negligent in the execution of his duties or is for any reason unable to discharge his duties safely and efficiently, the manager shall, upon notice from the Inspector, immediately withdraw the authorisation to such person."

6. The Regulations are hereby amended by substituting the following regulations for regulations 18.4.1, 18.4.2, 18.4.3 and 18.4.4:

"18.4.1 No person shall travel or cause or permit any other person to travel on a locomotive, or on or in any rolling stock or in any vehicle operated by machinery or on or in any self-propelled mobile machine on or in a haulageway or on any conveyor belt, unless authorised to do so by the manager, mine overseer or person appointed in terms of regulation 2.13.1, 2.13.2 or 2.13.3 and no person shall travel or cause or permit any other person to travel on any haulage rope.

18.4.2 The manager, mine overseer or person appointed in terms of regulation 2.13.1, 2.13.2 or 2.13.3 shall not authorise the regular conveyance of persons, other than those required for the working of the machine or train, on or in any rolling stock, or on or in any vehicle operated by machinery on or in a haulageway or on or in any self-propelled mobile machine or on any conveyor belt, unless written permission has been obtained from the Inspector of Machinery, who may impose such conditions as he considers necessary for the safety of persons: Provided that the provisions

tessing is nie op 'n konvensionele motorvoertuig spesiaal ontwerp is vir die vervoer van passasiers en in ander plekke as die delfplekke van 'n myn geik word.

4.3 Niemand mag op die trap, buffer of koppeling van lokomotief of van enige spoorwa of van enige voertuig wat met masjinerie op of in 'n vervoerweg gek of gestoot word, of van enige selfgedrewe mobiele men ry of enige ander persoon daar laat ry of toelaat daar te ry nie: Met dien verstande dat 'n opgeleide rangeerder of leerlingrangeerder wat rangeerwerk bonds verrig, op die trap van die lokomotief of op en spoorwa mag ry mits die spoed van die lokomotief of spoorwa nie agt kilometer per uur te bowe gaan nie.

4.4 Niemand mag op 'n lokomotief of enige spoorwa of enige voertuig wat met masjinerie op of in 'n vervoerweg getrek of gestoot word of op enige selfgedrewe mobiele masjien klim of daarvan afklim of eniander persoon laat opklim of afklim of toelaat om op af te klim terwyl dit beweeg nie: Met dien verstande dat hierdie subregulasie nie van toepassing is nie op iemand wat op 'n mantrolle ry wat vas is aan 'n ringvervoer, of op 'n opgeleide rangeerder of leerlingrangeerder wat rangeerwerk bogronds verrig, mits die sed van die lokomotief, spoorwa of voertuig nie agt kilometer per uur te bowe gaan nie."

7. Die Regulasies word hierby gewysig deur regulasie 18.5 vir die volgende regulasie te vervang:

"18.1 Behalwe met die skriftelike toestemming van die Inspekteur van Myne of die Inspekteur van Masjinerie mag geen lokomotief of trein teen 'n hoër snelheid as agt kilometer per uur oor 'n spooroorgang van 'n pad gaan nie.

18.5. Die persoon wat 'n lokomotief of trein dryf of in beheer daarvan is, mag nie toelaat dat die lokomotief of trein 'n pad by 'n spooroorgang kruis nie tensy hy afdoende waarskuwing aan die padgebruikers gegee het van 'n voorneme om die trein of lokomotief oor die pad te dryf, te trek of te stoot.

18.5.3 Die persoon wat 'n lokomotief of trein dryf of in beheer daarvan is, moet alle redelike voorsorgmaatreëls tref om te verseker dat die lokomotief of trein nie by 'n spooroorgang tot stilstand gebring word sodat dit die pad versper nie.

18.5.4 Die drywer van 'n motorvoertuig wat gebruik word vir die vervoer van persone op private eiendom by 'n myn of bedryf moet, wanneer hy 'n spooroorgang nader, stilhou met die voertuig op 'n veilige afstand van die naaste spoorstaaf en mag nie verder ry alvorens hy seker gemaak het dat dit veilig is om te ry nie."

8. Die Regulasies word hierby gewysig deur die volgende regulasie na regulasie 18.5.4 by te voeg:

"18.6 Die volgende maatreëls is van toepassing op alle selfgedrewe mobiele masjiene:

(a) Waar daar gereeld met so 'n masjien op 'n helling van meer as 10 grade met die horisontaal gewerk moet word, moet een of meer effektiewe toestelle, bykomend by die normale remstelsel, voorsien word om te voorkom dat die masjien buite beheer raak. Hierdie toestel moet, sover dit prakties moontlik is, aan die begin van elke skof deur 'n bevoegde persoon nagegaan word.

(b) Enige persoon wat kragtens regulasie 18.4.1 gemagtig is om op so 'n masjien te ry, moet behoorlik kan sit of voldoende beveilig wees om te voorkom dat hy van die masjien val of gly terwyl dit in beweging is.

of this subregulation shall not apply to a conventional motor vehicle specially designed for the conveyance of persons when used in places other than the workings of a mine.

18.4.3 No person shall ride, or cause or permit any person to ride, on the step, buffer or coupling of a locomotive or of any rolling stock or of any vehicle operated by machinery on or in any haulageway or of any self-propelled mobile machine: Provided that a trained shunter or a trainee shunter engaged in shunting operations on the surface, may travel on a step of a locomotive or on any rolling stock, provided further that the locomotive or rolling stock does not exceed a speed of 8 kilometres per hour.

18.4.4 No person shall board or alight from, or cause or permit any other person to board or alight from, a locomotive or any rolling stock or any vehicle operated by machinery on or in a haulageway or any self-propelled mobile machine while it is in motion: Provided that this subregulation shall not apply to any person riding on a man-trolley attached to an endless rope haulage or to a trained shunter or trainee shunter engaged in shunting operations on the surface: Provided further that the locomotive, or rolling stock or vehicle does not exceed a speed of 8 kilometres per hour."

7. The Regulations are hereby amended by substituting the following regulations for regulation 18.5:

"18.5.1 Except with the written permission of the Inspector of Mines or the Inspector of Machinery, no locomotive or train may be run over a level crossing of a road at a greater speed than 8 kilometres per hour.

18.5.2 The person driving or in control of a locomotive or train shall not cause or permit such locomotive or train to cross any road at a level crossing unless he has given sufficient warning to users of the road of the intention to drive, draw or propel the locomotive or train across such road.

18.5.3 The person driving or in control of a locomotive or train shall take all reasonable measures to ensure that such locomotive or train is not stopped in such a way that the locomotive or train obstructs the road at a level crossing.

18.5.4 The driver of a motor vehicle which is being used for the transport of persons, on private property, at a mine or works, shall, upon approaching a level crossing, stop such vehicle at a suitable safe distance from the nearest rail and shall not proceed until he has ensured that it is safe to do so."

8. The regulations are hereby amended by adding the following regulation after regulation 18.5.4:

"18.6 The following shall apply to all self-propelled mobile machines:

(a) Where such machine is required to operate regularly on an inclined plane, which is inclined at more than 10 degrees from the horizontal, one or more effective devices shall be provided, in addition to the normal braking system, to prevent such machine running out of control. Such device shall, to an extent practicable, be checked by a competent person at the beginning of each shift.

(b) Any person authorised in terms of regulation 18.4.1 to travel on such machines shall be properly seated or adequately safeguarded to prevent inadvertent slipping or falling from the machine while it is in motion.

(c) Indien die drywer se sig vanuit so 'n masjien, behalwe 'n lokomotief, in enige rigting van beweging erg beperk is, moet die masjien voorsien wees van 'n duidelik hoorbare alarm of toeter wat so geïnstalleer is dat dit in werking kom wanneer die masjien in daardie rigting beweeg.

(d) Geen persoon mag instandhouding- of herstelwerk op so 'n masjien uitvoer nie tensy hy daartoe gemagtig is deur die bestuurder, mynopsigter of persoon aangestel kragtens regulasie 2.13.1, 2.13.2 of 2.13.3."

9. Die Regulasies word hierby gewysig deur regulasie 20.9.3 deur die volgende regulasie te vervang:

"20.9.3.1 Wanneer enige werk of herstelwerk aan masjinerie gedoen word, moet die persoon in onmiddellike beheer van die werk of herstelwerk verseker dat die kragtoevoer van die masjinerie afgeskakel of gediskonnekteer word en afgeskakel of gediskonnekteer bly totdat die werk of herstelwerk voltooi is.

20.9.3.2 Niemand mag instandhouding- of herstelwerk doen nie en niemand mag verplig of toegelaat word om dit te doen nie alvorens alle redelike voorsorgmaatreëls getref is om te verseker dat die werk met veiligheid gedoen kan word. 'n Masjien of enige deel van 'n masjien wat op die persoon wat sulke werk verrig, of enige ander persoon kan val, moet behoorlik gestut word."

10. Die Regulasies word hierby gewysig deur regulasie 25.1 (c) deur die volgende te vervang:

"(c) bewusteloosheid ten gevolge van hittesteek, hitte-uitputting, elektriese skok of die inaseming van dampe of giftige gas, of enige ongeskiktheid wat normaalweg behandeling in 'n dekompressiekluis vereis, of"

(c) Every such machine, except a locomotive, where the driver's line of vision in any direction of travel is severely restricted, shall be equipped with a clearly audible alarm or hooter, so installed that it is acted whenever motion of the machine in that direction takes place.

(d) No person shall conduct maintenance or air work on such machine unless he has been authorized to perform such work by the manager, mine overseer or person appointed in terms of regulation 2.13.1, 3.2 or 2.13.3."

9. The Regulations are hereby amended by substituting the following regulation for regulation 20:

"20.9.3.1 When any work or repairs are undertaken on any machinery the person in immediate charge of such work or repairs shall ensure that the power supply to such machinery is switched off or disconnected and remains switched off or disconnected until the work or repairs have been completed.

20.9.3.2 No person shall conduct maintenance or repair work, and no person shall cause or permit such work to be done, until all reasonable precautions have been taken to ensure that the work can be done safely. A machine or any part of a machine which may fall on the person conducting such work or on another person shall be adequately supported."

10. The Regulations are hereby amended by substituting the following for regulation 25.1 (c):

"(c) unconsciousness from heatstroke, heat exhaustion, electric shock or the inhalation of fumes or poisonous gas, or any incapacitation normally requiring treatment in a decompression chamber, or"

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