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GOVERNMENT GAZETTE

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GOEWERMENSKENNISGEWINGS

DEPARTEMENT VAN MANNEKRAG

R.1880] [11 September 1981

WET OP FABRIEKE, MASJINERIE EN BOUWERK,
1941
WYSIGING VAN REGULASIES

Die Staatspresident het kragtens artikel 51 van die Wet op Fabriek, Masjinerie en Bouwerk, 1941 (Wet 22 van 1941), die regulasies uitgevaardig wat in die Bylae hiervan uiteengesit is.

BYLAE

1. In hierdie regulasies, tensy uit die samehang anders blyk, beteken die uitdrukking „die Regulasies” die regulasies gepubliseer by Goewermenskennisgewing R.929 van 28 Junie 1963, soos gewysig by Goewermenskennisgewings R.1934 van 13 Desember 1963, R.1492 van 25 September 1964, R.1497 van 25 September 1964, R.3475 van 9 Oktober 1969, R.1336 van 21 Augustus 1970, R.1237 van 16 Julie 1971, R.109 van 26 Januarie 1973, R.780 van 11 Mei 1973, R.2237 van 30 November 1973, R.2262 van 4 November 1977, R.1496 van 6 Julie 1979, R.1112 van 30 Mei 1980 en R.1035 van 22 Mei 1981.
2. Regulasie 1 van Hoofstuk I van die Regulasies word hierby gewysig deur die volgende woordbepaling na die woordbepaling „meterdruk” in te voeg:

GOVERNMENT NOTICES

DEPARTMENT OF MANPOWER

R.1880] [11 September 1981

FACTORIES, MACHINERY AND BUILDING
WORK ACT, 1941
AMENDMENT OF REGULATIONS

The State President has, under section 51 of the Factories, Machinery and Building Work Act, 1941 (Act 22 of 1941), made the regulations set out in the Schedule hereto.

SCHEDULE

1. In these regulations, unless the context otherwise indicates, the expression “the Regulations” means the regulations published under Government Notice R.929 of 28 June 1963, as amended by Government Notices R.1934 of 13 December 1963, R.1492 of 25 September 1964, R.1497 of 25 September 1964, R.3475 of 9 October 1969, R.1336 of 21 August 1970, R.1237 of 16 July 1971, R.109 of 26 January 1973, R.780 of 11 May 1973, R.2237 of 30 November 1973, R.2262 of 4 November 1977, R.1496 of 6 July 1979, R.1112 of 30 May 1980 and R.1035 of 22 May 1981.
2. Regulation 1 of Chapter I of the Regulations is hereby amended by the insertion after the definition of “maximum permissible working pressure” of the following definition:

„minimum veiligheidsruimte” die kortste afstand tussen lewendige gedeeltes van die kraglyn en enige ander voorwerpe (behalwe onderdele van die kraglyn) wat by, of naby, aardpotensiaal is, wat onder normale werksomstandighede gehandhaaf moet word;”

3. Regulasie 2 van Hoofstuk I van die Regulasies word hierby gewysig deur die volgende uitdrukkings na die uitdrukking „megapascal” in te voeg:

„grade celsius °C
gelykstrom g.s.
wortel van gemiddelde kwadraat w.g.k.”

4. Regulasie C51 van die Regulasies word hierby gewysig deur die uitdrukking „42 volt”, waar dit ook al in subregulasies (1) en (2) voorkom, deur die uitdrukking „50 V” te vervang.

5. Regulasie C56 van die Regulasies word hierby gewysig deur subregulasie (5) deur die volgende subregulasie te vervang:

„(5) Die gebruiker moet ’n kennisgewing laat opklak by skakel- of beheeruitrusting wat afgeskakel is om persone in staat te stel om aan elektriese toestelle of geleiers of ander masjinerie wat met elektrisiteit aangedryf word en wat met sodanige skakel- of beheeruitrusting beheer word, te werk, wat teen die aanskakeling van sodanige skakel- of beheeruitrusting waarsku, en geen persone mag in stryd met sodanige waarskuwing optree nie.”

6. Regulasie C59 van die Regulasies word hierby gewysig deur in subregulasie (1) die uitdrukking „42 volt” deur die uitdrukking „50 V” te vervang.

7. Regulasie C60 van die Regulasies word hierby gewysig—

- (a) deur die woorde „waarvan die werkspanning 50 V oorskry”, tussen die woorde „lig” en „gebruik” in subregulasie (1) in te voeg; en
(b) deur in subregulasie (2) die uitdrukking „42 V” deur die uitdrukking „50 V” te vervang.

8. Regulasie C61 van die Regulasies word hierby gewysig—

- (a) deur paragraaf (a) van subregulasie (1) deur die volgende paragraaf te vervang:

„(a) dakke, geute, geutpype en vuilwaterpype op persele waarvan elektrisiteit verskaf word, geaard is, behalwe—
(i) waar die werkspanning 50 V nie te bowe gaan nie;
(ii) dakke, geute, geutpype en vuilwaterpype op persele wat elektrisiteit ontvang deur middel van ondergrondse verbruiksleidings;
(iii) dakke gemaak van nie-geleidende materiaal of metaal-dakke wat bedek is met ’n nie-geleidende materiaal;
(iv) geute, geutpype en vuilwaterpype gemaak van nie-geleidende materiaal, of geute en geutpype geheg aan ’n metaaldak wat bedek is met ’n nie-geleidende materiaal; en”; en

- (b) deur subregulasie (2) deur die volgende subregulasie te vervang:

„(2) (a) Geen leweransier mag ’n elektriese toevoer aan ’n perseel aansluit of mag so ’n perseel wat vir die doel van uitbreiding of herstelwerk van die elektriese installasie gediskonnekteer is, aan die elektriese installasie heraansluit nie voordat hy homself oortuig het dat dakke, geute, geutpype en vuilwaterpype van die perseel en alle ontholte metaaldele van die elektriese installasie geaard is soos in subregulasie (1) bepaal: Met dien verstande dat hierdie vereistes nie van toepassing is nie ten opsigte van persele wat aan die Staat of enige provinsiale administrasie behoort.

- (b) Indien die leweransier te eniger tyd deur middel van ’n toets van enige elektriese installasie op ’n perseel vind dat die dakke, geute, geutpype en vuilwaterpype op die perseel of ontholte metaaldele van die elektriese installasie nie geaard is nie, moet die leweransier vereis dat die houer of eienaar van sodanige perseel die nodige aarding binne ’n vasgestelde tyd van hoogstens 30 dae moet aanbring. Indien die houer of eienaar versuim om aan die vereistes te voldoen, moet die leweransier die toevoer na sodanige perseel diskonnekteer en die toevoer nie heraansluit voordat die aarding tot sy bevrediging uitgevoer is nie.”

9. Regulasie C62 van die Regulasies word hierby deur die volgende regulasies vervang:

„C62. Kaal geleiers op persele

Die gebruiker moet kaal geleiers, behalwe geleiers van kraglyne, wat nie geheel en al geïsoleer kan word nie, soos kraantrillicdrade, en wat op ’n perseel geïnstalleer is, so plaas dat dit onopsetlike aanraking daarmee voorkom, en moet waarskuwende kennisgewings opvallend by sulke drade vertoon.”

“‘minimum safety clearance’ means the shortest distance that must be maintained, under normal working conditions, between live parts of the power line and any other objects (other than components of the power line) that are at, or near, earth potential;”

3. Regulation 2 of Chapter I of the Regulations is hereby amended by the insertion after the expression “megapascal” of the following expressions:

“degrees celsius °C
direct current d.c.
root mean square r.m.s.”

4. Regulation C51 of the Regulations is hereby amended by the substitution for the expression “42 volts” wherever it occurs in subregulations (1) and (2) of the expression “50 V”.

5. Regulation C56 of the Regulations is hereby amended by the substitution for subregulation (5) of the following subregulation:

“(5) The user shall cause a notice to be posted at switch or control gear which has been switched out to enable persons to work on electrical apparatus or conductors or other machinery driven by electricity and controlled by such switch or control gear, warning against re-closing such switch or control gear and no person shall act contrary to such warning.”

6. Regulation C59 of the Regulations is hereby amended by the substitution for the expression “42 volts” in subregulation (1) of the expression “50 V”.

7. Regulation C60 of the Regulations is hereby amended—

- (a) by the insertion in subregulation (1) between the words “light” and “unless” of the words “of which the operating voltage exceeds 50 V”; and
(b) by the substitution for the expression “42 V” in subregulation (2) of the expression “50 V”.

8. Regulation C61 of the Regulations is hereby amended—

- (a) by the substitution for paragraph (a) of subregulation (1) of the following paragraph:

“(a) roofs, gutters, downpipes and waste-pipes on premises to which electricity is supplied to be earthed, except—
(i) where the operating voltage does not exceed 50 V;
(ii) roofs, gutters, downpipes and waste-pipes on premises which receive electricity by means of underground service connections;
(iii) roofs made of a non-conductive material or metal roofs covered by a non-conductive material;
(iv) gutters, downpipes and waste-pipes made of a non-conductive material or gutters and downpipes attached to a metal roof which is covered by a non-conductive material; and”; and

- (b) by the substitution for subregulation (2) of the following subregulation:

“(2) (a) No supplier shall connect an electric supply to a premises or reconnect an electric supply to a premises where such supply was disconnected for the purpose of extensions or repairs to the electrical installation, before he has satisfied himself that roofs, gutters, downpipes and waste-pipes of the premises and all exposed metallic parts of the electrical installation are earthed as provided in subregulation (1): Provided that this requirement shall not apply to premises owned by the State or any provincial administration.

- (b) If, through a test by the supplier, at any time, of any electrical installation on a premises it is found that the roofs, gutters, downpipes and waste-pipes of the premises or exposed metallic parts of the electrical installation are not earthed, the supplier shall require the occupier or owner of such premises to effect the necessary earthing within a fixed period of not more than 30 days. Should the occupier or owner fail to comply with such requirements, the supplier shall disconnect the supply to such premises and shall not reconnect such supply until the earthing has been carried out to his satisfaction.”

9. The following regulation is hereby substituted for Regulation C62 of the Regulations:

“C62. Bare Conductors on Premises

The user shall cause bare conductors other than conductors of powerline, which cannot be completely insulated, such as crane trolley wires, and which are installed on premises, to be so placed as to prevent accidental contact therewith, and warning notices to be prominently displayed at such wires.”

10. Regulasie C63 van die Regulasies word hierby deur die volgende regulasie vervang:

„C63. Stutte

Die leweransier of gebruiker moet toesien dat die stutte vir kraglyne so ontwerp word dat die volgende minimum veiligheidsfaktore verseker word:

	Gebaseer op soort-getoetste breekvrag	Gebaseer op berekende breekvrag	Gebaseer op breek-modulus
Staaltraliatorings en dwars-arms	2,5	2,5	—
Naatloosgetrokke staalpale ..	2,0	2,5	—
Gesweiste staalpale en staalpale met saal- of tele-skoopplasse	2,2	2,5	—
Ankersamestelling	2,5	2,5	—
Pale van gewapende slingerbeton	2,4	3,5	—
Struktuur en onderdele van meganies gevibreerde gewapende beton	2,5	3,5	—
Ander soorte strukture en onderdele van gewapende beton	2,75	3,75	—
Houtonderdele nie ononderbroke belas nie	3,5	—	2,7
Houtonderdele onderworpe aan ononderbroke belasting	5,5	—	4,5

By berekening van die veiligheidsfaktore moet aangeneem word dat—

- (1) daar geen gebreekte geleiers is nie;
- (2) elke lyngeler, kabel of draad wat deur die stut gedra word, 'n temperatuur van -5°C het;
- (3) lyngelers, saam met die stutte, onderwerp is aan 'n winddruk van 700 Pa.

In die geval van traliestrukture moet die oppervlakte vir die berekening van krag as gevolg van winddruk 1,5 maal die geprojekterde oppervlakte van die dele aan een kant wees en in die geval van ronde, elliptiese of seshoekige pale, geleiers en drade moet die oppervlakte geneem word as 0,6 van die geprojekterde oppervlakte.”

11. Regulasie C65 van die Regulasies word hierby deur die volgende regulasie vervang:

„C65. Isolatore en toebehoere

Die leweransier of gebruiker moet sorg dat die veiligheidsfaktor van lynisolatore en toebehoere, gebaseer op die soort-getoetste breekvrag, minstens 2,5 is.”

12. Regulasie C66 van die Regulasies word hierby deur die volgende regulasie vervang:

„C66. Geleiers

Die leweransier of gebruiker moet sorg dat die veiligheidsfaktor vir elke lyngeler minstens 2,5 is. Hierdie faktor moet gebaseer wees op die aangeslane breeksterkte van die geleier en moet bereken word op die veronderstelling dat die lyngeler 'n temperatuur van -5°C het en dat dit tegelykertyd onderwerp word aan 'n winddruk reghoekig met die lyn, wat gelykstaan met 700 Pa op 0,6 van die geprojekterde oppervlakte van die geleiers.”

13. Regulasie C67 van die Regulasies word hierby gewysig deur subregulasie (3) deur die volgende regulasie te vervang:

„(3) Geen leweransier of gebruiker mag 'n gebou deur middel van lugverbruiksleiding met 'n elektriese stroom verbind nie tensy sodanige verbinding met die gebou gedoen word deur middel van 'n klemkas, goedgekeur deur 'n inspekteur, of op 'n ander wyse wat insgelyks goedgekeur is.”

14. Regulasie C68 van die Regulasies word hierby deur die volgende regulasie vervang:

„C68. Vry ruimtes

(1) Die leweransier of gebruiker moet sorg dat—

- (a) die minimum vry ruimtes van elektriese geleiers en ander drade van kraglyne, behalwe in die geval van lugverbruikersleidings en lyngelers met 'n spanning van hoogstens 1,1 kV w.g.k. en wat bestaan uit geïsoleerde draad van 'n soort wat deur die Hoofinspekteur goedgekeur is, nie minder is as die ruimtes wat in die volgende tabel aangedui word nie:

10. The following regulation is hereby substituted for Regulation C63 of the Regulations:

“C63. Supports

The supplier or user shall cause the supports for power lines to be designed to provide the following minimum factors of safety:

	Based on type-tested failing load	Based on calculated failing load	Based on modulus of rupture
Steel lattice towers and cross-arms	2,5	2,5	—
Solid drawn steel poles	2,0	2,5	—
Welded steel poles and steel poles with swaged or telescopic joints	2,2	2,5	—
Stay assemblies	2,5	2,5	—
Reinforced concrete spun poles	2,4	3,5	—
Mechanically vibrated reinforced concrete structures and components	2,5	3,5	—
Other types of reinforced concrete structures and components	2,75	3,75	—
Wooden members not continuously loaded	3,5	—	2,7
Wooden members subjected to continuous loading	5,5	—	4,5

In calculating the factors of safety it shall be assumed that—

- (1) there are no broken conductors;
- (2) every line conductor, cable or wire carried by the support is at a temperature of -5°C ;
- (3) line conductors, together with the supports, are subjected to a wind pressure of 700 Pa.

In the case of lattice structures the area for calculating the force due to wind pressure shall be 1,5 times the projected area of the members of one side and in the case of round, elliptical or hexagonal poles, conductors and wires the area shall be taken as 0,6 of the projected area.”

11. The following regulation is hereby substituted for Regulation C65 of the Regulations:

“C65. Insulators and Fittings

The supplier or user shall cause the factor of safety of line insulators and fittings to be at least 2,5 based on the type-tested failing load.”

12. The following regulation is hereby substituted for Regulation C66 of the Regulations:

“C66. Conductors

The supplier or user shall cause the factor of safety of every line conductor to be at least 2,5. This factor shall be based on the rated ultimate tensile strength of the conductor and shall be calculated on the assumption that the line conductor is at a temperature of -5°C and that it is simultaneously subjected to a wind pressure at right angles to the line equivalent to 700 Pa on 0,6 of the projected area of the conductors.”

13. Regulation C67 of the Regulations is hereby amended by the substitution for subregulation (3) of the following subregulation:

“(3) No supplier or user shall connect an electric supply to a building by means of overhead service mains unless the connection to the building is by means of a terminal connector-box, approved by an inspector, or by other means similarly approved.”

14. The following regulation is hereby substituted for regulation C68 of the Regulations:

“C68. Clearances

(1) The supplier or user shall cause—

- (a) the minimum clearances of electric conductors and other wires of power lines, except in the case of overhead service mains and line conductors having a voltage not exceeding, 1,1 kV r.m.s. and consisting of insulated wire of a type approved by the Chief Inspector, to be not less than the clearances indicated in the following table:

Maksimum spanning, kV w.g.k. fase-tot-fase, waarvoor isolatore ontwerp is	Minimum veiligheids- vryruimte	Minimum vry ruimtes in meter				
		Bokant grond buite dorpsgebiede	Bokant grond binne dorpsgebiede	Bokant paaie in dorpsgebied, geproklameerde paaie buite dorpsgebiede, spoorweë en koekepanweë	Na kommunikasielyne, ander kraglyne of tussen kraglyne en vangnette	Na geboue, pale en strukture wat nie deel van die kraglyne vorm nie
1,1 of minder	—	4,9	5,5	6,1	0,6	3,0
7,2	0,15	5,0	5,5	6,2	0,7	3,0
12	0,20	5,1	5,5	6,3	0,8	3,0
24	0,32	5,2	5,5	6,4	0,9	3,0
36	0,43	5,3	5,5	6,5	1,0	3,0
48	0,54	5,4	5,5	6,6	1,1	3,0
72	0,77	5,7	5,7	6,9	1,4	3,2
100	1,00	5,9	5,9	7,1	1,6	3,4
145	1,45	6,3	6,3	7,5	2,0	3,8
245	1,85	6,7	6,7	7,9	2,4	4,2
300	2,35	7,2	7,2	8,4	2,9	4,7
362	2,90	7,8	7,8	9,0	3,5	5,3
420	3,20	8,1	8,1	9,3	3,8	5,6
533 kV g.s.*	3,70	8,6	8,6	9,8	4,3	6,1

* Maksimum spanning na aarde waarvoor die isolasie ontwerp is.

Maximum voltage for which insulation is designed, kV r.m.s. phase-to-phase	Minimum safety clearance	Minimum clearance in metres				
		Above ground outside townships	Above ground in townships	Above roads in townships, proclaimed roads outside townships, railways and tramways	To communication lines, other power lines or between power lines and cradles	To buildings, poles and structures not forming part of the power lines
1,1 or less	—	4,9	5,5	6,1	0,6	3,0
7,2	0,15	5,0	5,5	6,2	0,7	3,0
12	0,20	5,1	5,5	6,3	0,8	3,0
24	0,32	5,2	5,5	6,4	0,9	3,0
36	0,43	5,3	5,5	6,5	1,0	3,0
48	0,54	5,4	5,5	6,6	1,1	3,0
72	0,77	5,7	5,7	6,9	1,4	3,2
100	1,00	5,9	5,9	7,1	1,6	3,4
145	1,45	6,3	6,3	7,5	2,0	3,8
245	1,85	6,7	6,7	7,9	2,4	4,2
300	2,35	7,2	7,2	8,4	2,9	4,7
362	2,90	7,8	7,8	9,0	3,5	5,3
420	3,20	8,1	8,1	9,3	3,8	5,6
533 kV d.c.*	3,70	8,6	8,6	9,8	4,3	6,1

* Maximum voltage to earth for which insulation is designed.

(Vry ruimtes moet bepaal word vir 'n minimum geleiertemperatuur van 50 °C en met enige hoek van swaai tot by dié wat gelykstaan met 'n winddruk van 500 Pa. Waar kraglyngeleiers onder normale omstandighede teen 'n hoër temperatuur as 50 °C werk, moet die vry ruimtes teen die hoër temperatuur waarby die geleiers werk, in ooreenstemming wees met die vry ruimtes soos in bostaande tabel aangedui.);

(b) waar 'n kraglyn water kruis, die vry ruimte tussen geleiers of ander drade en die normale hoogwatervlak nie minder is nie as die ruimtes voorgeskryf vir kraglyne bokant die grond buite dorpsgebiede. Indien die eienaar van die grond waarop die water geleë is, 'n groter vry ruimte verlang en geen ooreenkoms bereik kan word nie, moet die geskil na die Hoofinspekteur verwys word, wie se beslissing afdoende sal wees;

(c) die afstand van enige kraglyn vanaf 'n springstofmagasyn voldoen aan die vereistes van die Wet op Ontploffbare Stowwe, 1956 (Wet 25 van 1956) (indien van toepassing).

(2) Geen persoon mag enige pad, spoorweg, koekepanweg, kommunikasielyn, ander kraglyn, gebou of stuktuur wat inbreuk maak op die minimum vry ruimtes voorgeskryf in subregulasie (1), onder of in die nabyheid van 'n kraglyn bou nie.

(Clearances shall be determined for a minimum conductor temperature of 50 °C and with any swing angle up to that corresponding to a wind pressure of 500 Pa. Where under normal conditions power line conductors operate at a temperature above 50 °C, the clearance at the higher temperature at which the conductors operate, shall be in accordance with the clearances indicated in the above table.);

(b) the clearances of conductors and other wires to normal high water level of power lines crossing over water to be not less than the values for power lines above ground outside townships. If the owner of the land on which the water is situated requires a greater clearance and no agreement can be reached, the dispute shall be referred to the Chief Inspector, whose decision shall be final;

(c) the distance of any power line from an explosives magazine to comply with the requirements of the Explosives Act, 1956 (Act 26 of 1956) (if applicable).

(2) No person shall construct any road, railway, tramway, communication line, other power line, building or structure under or in the vicinity of a power line which will encroach on the appropriate minimum clearances provided in terms of subregulation (1).

(3) Niemand mag in persoon of met enige voorwerp inbreuk maak op die minimum veiligheidsruimte soos voorgeskryf in subregulasie (1) nie en niemand mag vereis of toelaat dat enige ander persoon so inbreuk maak nie behalwe met die toestemming van die leweransier of gebruiker van die kraglyn.

(4) Die leweransier of gebruiker van 'n kraglyn moet plantegroei beheer ten einde te verhoed dat daar inbreuk gemaak word op die minimum veiligheidsruimtes soos voorgeskryf in subregulasie (1), en die eienaar van sodanige plante moet dié beheer toelaat."

15. Regulasie C69 van die Regulasies word hierby deur die volgende regulasie vervang:

"C69. Oorgange

(1) Waar 'n kraglyn 'n geproklameerde pad, spoorweg, koekepanweg of belangrike kommunikasielyn wat deur die Posmeester-generaal geproklameer is, kruis, moet die leweransier of gebruiker sorg dat die vry ruimtes aan die vereistes van regulasie C68 en aan die volgende verdere vereistes voldoen:

- Strukture wat 'n kruisspan stut, moet so ontwerp wees dat hulle die belastinge kan weerstaan wat daarop geplaas mag word as enige fasegeleier of aardgeleier sou breek.
- Vir sover dit redelik uitvoerbaar is, moet strukture wat kruisspanne stut, so geplaas word dat hulle nie aan die diens wat hulle kruis, sal raak ingeval hulle omval nie.
- Onderworpe aan die beperking in paragraaf (b), moet een van die strukture wat 'n kruisspan stut, so naby as wat redelik uitvoerbaar is aan die kruispunt geplaas word.
- Waar 'n kraglyn 'n geproklameerde pad kruis, moet die leweransier of gebruiker sorg dat die vry ruimte van die kruisspan bokant die pad, in die geval van 'n gebreekte fasegeleier in 'n ander span as die kruisspan, nie minder as 4,5 m, sal wees nie.
- Geen lasse mag in 'n kruisspan gebruik word nie.
- Waar die maksimum spanning waarvoor die kraglyn ontwerp is, 1,1 kV w.g.k. oorskry, moet pantserstange of vonkhorings aan die lewendige ente van die suspensie en vaste isolatore aan minstens die eerste drie strukture aan elke kant van die kruising aangebring word. As alternatief moet duplikaatgeleiers, wat aan mekaar gebind is op afstande van nie meer as 1,5 m nie, voorsien word in die kruisspan en met duplikaat parallel isolatore gestut word. In die geval van kraglyne waar die geleiers op vaste isolatore gedra word, moet die duplikaatgeleiers minstens 1,5 m verby die stutte aan elke kant van die kruisspan strek.
- Die afwyking van 'n reghoekige kruising oor 'n kommunikasielyn van die Departement van Pos- en Telekommunikasiewese of van die Suid-Afrikaanse Spoorweg- en Hawensadministrasie moet vir lyne met 'n spanning van 48 kV w.g.k. en meer, hoogstens 30° en vir lyne van minder as 48 kV w.g.k. hoogstens 45° wees.
- Waar 'n kraglyn 'n ander kraglyn kruis, moet die vry ruimtes voldoen aan die vereistes van regulasie C68 en moet die bykomende vereistes van paragrafe (b) en (c) van hierdie subregulasie nagekom word: Met dien verstande dat die Hoofinspekteur enige afwyking van hierdie vereistes op sodanige voorwaardes as wat hy bepaal, mag goedkeur.

(2) Waar lugverbruiksleiding bokant kaal kommunikasielyne van die Departement van Pos- en Telekommunikasiewese kruis, moet die minimum vry ruimtes tussen die lugverbruiksleidings en die kommunikasielyne by die kruispunte 0,5 m wees en lugverbruiksleidings mag nie aan die onderkant van kaal kommunikasielyne kruis nie. Die leweransier of gebruiker moet sorg dat aan hierdie bepalinge voldoen word."

16. Regulasie C70 van die Regulasies word hierby gewysig—

(a) deur paragraaf (a) van subregulasie (1) deur die volgende paragraaf te vervang:

„(a) Voordat daar met die installering van 'n distribusiestelsel of die uitbreiding van so 'n stelsel begin word, moet leweransiers hul volledige planne in tweevoud aan die Posmeester-generaal voorleë vir die doel om deur onderling ooreenkoms te besluit oor die metodes of toestelle wat die leweransiers moet gebruik om te voorkom dat daar by bestaande en voorgestelde telefoon- en telegraaflyne toestande kan ontstaan wat vir die publiek en vir personeel van die Poskantoor gevaarlik kan wees. Waar sodanige toestande sonder groot koste vir enige van die partye vermy kan word deur die wysiging van die voorgestelde planne van of die leweransier of die Posmeester-generaal, moet sodanige wysiging aangebring word: Met dien verstande dat hierdie paragraaf nie ten opsigte van verbruiksleidings van toepassing is nie.”;

(b) deur subregulasie (2) deur die volgende subregulasie te vervang:

„(2) In gevalle waar veranderinge aan die ontwerp of oprigting van 'n bestaande kraglyn wat ooreenkomstig subregulasie (1) (a) en (b) opgerig is, of van bykomende toestelle daarvan nodig word as gevolg van verhoë deur die Departement van Pos- en Telekommunikasiewese of enige ander sodanige veranderinge aanbring op rekening van die liggaam wat verhoë vir die verandering gerig het.”.

(3) No person shall encroach in person or with objects on the minimum safety clearances provided in subregulation (1) nor shall he require or permit any other person to do so except by permission of the supplier or user operating the power line.

(4) The supplier or user shall control vegetation to prevent it encroaching on the minimum safety clearances provided in subregulation (1) and the owner of the vegetation shall permit such control."

15. The following regulation is hereby substituted for Regulation C69 of the Regulations:

"C69. Crossings

(1) Where a power line crosses a proclaimed road, railway, tramway or important communication line, as proclaimed by the Postmaster General, the supplier or user shall cause the clearances to comply with the requirements of regulation C68, and with the following further requirements:

- Structures supporting a crossing span shall be designed in such a manner that they will be able to withstand the loads that may be imposed upon them should a breakage of any phase conductor or earth conductor occur.
- As far as is reasonably practicable, structures supporting crossing spans shall be located in such a manner that they will not touch the service crossed should they overturn.
- Subject to the restriction in paragraph (b), one of the structures supporting a crossing span shall be located as close to the point of crossing as is reasonably practicable.
- Where a power line crosses a proclaimed road the supplier or user shall cause the clearance of the crossing span above the road to be not less than 4,5 m for the condition of a broken phase conductor in a span other than the crossing span.
- No joints shall be used in a crossing span.
- Where the maximum voltage for which the power line is designed exceeds 1,1 kV r.m.s., armour rods or arcing horns shall be fitted at the live ends of the suspension and rigid insulators on at least the first three structures on both sides of the crossing. Alternatively, duplicate conductors, tied together at intervals of not more than 1,5 m, shall be provided in the crossing span and supported by duplicate parallel insulators. For lines on rigid insulators the duplicate conductors shall extend at least 1,5 m beyond the supports on each side of the crossing span.
- The deviation from a right angle crossing over a communication line of the Department of Posts and Telecommunications or of the South African Railways and Harbours Administration shall be not greater than 30° for lines with a voltage of 48 kV r.m.s. and above, and not greater than 45° for lines below 48 kV r.m.s.
- Where a power line crosses another power line, the clearances shall comply with the requirements of regulation C68 and the additional requirements of paragraphs (b) and (c) of this subregulation shall be observed: Provided that the Chief Inspector may approve any variation of these requirements on such conditions as he may determine.

(2) Where overhead service mains cross over bare communication lines of the Department of Posts and Telecommunications, the minimum clearances between the overhead service mains and the communication lines at the points of crossing shall be 0,5 m and overhead service mains shall not cross below bare communication lines. The supplier or user shall cause these provisions to be observed."

16. Regulation C70 of the Regulations is hereby amended—

(a) by the substitution for paragraph (a) of subregulation (1) of the following:

“(a) Before commencing the installation of any distribution scheme or extension to such a scheme, suppliers shall submit their complete proposals in duplicate to the Postmaster General for the purpose of deciding my mutual agreement the methods or devices to be adopted by the suppliers to avoid the creation of conditions on existing and projected communication lines which may be dangerous to the public and to Post Office staff. Where such conditions can be avoided without material cost to either party by amendment to the projected plans either of the supplier or the Postmaster General, such amendment shall be made: Provided that this paragraph shall not apply to service mains.”; and

(b) by the substitution for subregulation (2) of the following subregulation:

“(2) In cases where change in the design or construction of an existing power line, which has been erected in accordance with subregulation (1) (a) and (b), or devices additional thereto, becomes necessary on account of representations made by the Department of Posts and Telecommunications or any other such body, such alterations shall be carried out by the supplier at the expense of the body at whose representation the change has been brought about.”.

17. Regulasie C71 van die Regulasies word hierby deur die volgende regulasie vervang:

„C71. *Bestek*

Die bepalings van Regulasies C63, C65, C66, C67 (3), C68 en C69, soos vervang deur die wysigende regulasies gepubliseer by Goewermentskennisgewing R.1880 van 11 September 1981 is van toepassing alleenlik ten opsigte van kraglyne en lugverbruiksleidings wat opgerig word na die datum van inwerkingtreding van genoemde wysigende regulasies.”.

17. The following regulation is hereby substituted for Regulation C71 of the Regulations:

“C71. *Scope*

The provisions of Regulations C63, C65, C66, C67 (3), C68 and C69, as substituted by the amending regulations published by Government Notice R.1880 of 11 September 1981 shall apply only in respect of power lines and overhead service mains which are erected after the date of coming into operation of the said amending regulations.”.

R.1881]

[11 September 1981

WET OP FABRIEKE, MASJINERIE EN BOUWERK,
1941

WYSIGING VAN REGULASIES

Hierby word ingevolge artikel 51 (5) van die Wet op Fabriek, Masjinerie en Bouwerk, 1941 (Wet 22 van 1941), bekendgemaak dat die Minister van Mannekrag bepaal het dat die gewysigde regulasies, gepubliseer by Goewermentskennisgewing R.1880 van 11 September 1981, in die Republiek van Suid-Afrika van toepassing is en op die tweede Maandag na die datum van publikasie van hierdie kennisgewing in werking tree.

R.1881]

[11 September 1981

FACTORIES, MACHINERY AND BUILDING
WORK ACT, 1941

AMENDMENT OF REGULATIONS

It is hereby notified, in terms of section 51 (5) of the Factories, Machinery and Building Work Act, 1941 (Act 22 of 1941), that the Minister of Manpower has determined that the amended regulations published under Government Notice R.1880 of 11 September 1981, shall apply in the Republic of South Africa and shall come into effect on the second Monday after the date of publication of this notice.

INHOUD

Departement van Mannekrag

GOEWERMENTSKENNISGEWINGS

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