

GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF SCIENCE AND TECHNOLOGY

NO. 1301

23 NOVEMBER 2018

**NOTICE OF PROPOSED EXEMPTION FOR RADIO FREQUENCY SPECTRUM USE
WITHIN THE KAROO CENTRAL ASTRONOMY ADVANTAGE AREAS**

Former Minister of Science and Technology, Honourable Naledi Pandor, published Regulations on the Protection of the Karoo Central Astronomy Advantage Areas in terms of sections 50 and 51 of the Astronomy Geographic Advantage Act, 2007 (Act No. 21 of 2007) (hereinafter referred to as "the AGA Act") in *Government Gazette* No. 41321, under Notice No. 1411, on 15 December 2017, effective from 15 December 2018.

The AGA Act provides, *inter alia*, for the use of radio frequencies to be prohibited or restricted in order to minimise Radio Frequency Interference (RFI) within the declared Karoo Central Astronomy Advantage Areas. In terms of Regulation 3 of Schedule A of the said Regulations, the use of the radio frequency spectrum from 100 MHz to 25 500 MHz (25.5 GHz) and radio transmission within that spectrum are prohibited unless the spectrum to be used has been exempted from this prohibition. In terms of Sub regulation 3(4) of Schedule B of the said Regulations, the list of exempted radio frequency spectrum will be published within six (6) months after 15 December 2018.

The purpose of this notice, in terms of Regulation 3 of Schedule B of the said Regulations, is to notify all existing licensees and licence exempt operators who operate radio stations within the Karoo Central Astronomy Advantage Areas and who are listed in the permanent register of interested and affected parties for the Karoo Central Astronomy Advantage Areas, of the list of the radio frequency spectrum proposed for exemption from the prohibition on its use for transmissions located within the Karoo Central Astronomy Advantage Areas.

Interested and affected parties are invited to submit written representations and/or objections to the proposed list of radio frequency spectrum to be exempted contained in the Schedule hereto within ninety (90) days of the date of this notice to:

Mr Mere Kgampe

Dept of Science and Technology or
Building 53, CSIR Campus
Meiring Naudé Road
Brummeria
Pretoria
0184

Dept of Science and Technology
Private Bag X894
Pretoria
0001

or

E-mail address: Mere.kgampe@dst.gov.za .

Enquiries can be made at telephone number: 012 843 6644.

Any person(s) not registered as an interested and affected party for the Karoo Central Astronomy Advantage Areas, and who wishes to be so registered, may contact the Department to request that they be registered. Contact details that may have changed for persons who have registered, should be updated.



MS MT KUBAYI-NGUBANE, MP
MINISTER OF SCIENCE AND TECHNOLOGY

SCHEDULE**RADIO FREQUENCY SPECTRUM BANDS PROPOSED TO BE EXEMPTED FROM
THE PROHIBITION OF ITS USE IN THE KAROO CENTRAL ASTRONOMY
ADVANTAGE AREAS.**

Proposed Exempted Bands	Typical Application	Notes and comments
100 – 108 MHz Broadcasting	Terrestrial FM Sound broadcasting services	This band is exempted to accommodate existing terrestrial sound broadcasting services.
138 - 144 MHz Fixed Mobile	Single Frequency Alarms (140.5 – 141 MHz) Single Frequency Mobile (141 – 141.5) Mobile 1 BTX (141.5 – 144) PMR and/ or PAMR	Paired with 138 – 140.5
144 – 146 MHz Amateur	Amateur Radio	
366 – 380 MHz Fixed Mobile	Government Services and Public Safety	
450 - 453 MHz Fixed	Fixed links	Paired with 460 – 463 MHz
460 - 463 MHz Fixed	Fixed links	Paired with 450 – 453 MHz
464 - 470 MHz Mobile	Trunked Mobile BTX (464.425 – 470 MHz)	Paired with trunked Mobile MTX (454.425 – 460 MHz)
935.2 - 946 MHz Mobile	IMT900 Mobile BTX	Paired with IMT900 Mobile MTX (890.2 – 901 MHz)
946.6 - 957.4 MHz Mobile	IMT900 Mobile BTX	Paired with IMT900 Mobile MTX (901.6 – 903.8 MHz)

951.2 - 959.6 MHz Mobile	IMT900 Mobile BTX	Paired with IMT900 Mobile MTX (906.2 – 914.63 MHz)
Proposed Exempted Bands	Typical Application	Notes and comments
5725 – 5850 MHz Fixed Satellite (Earth-to-space) Fixed	Fixed links BFWA	BFWA to operate with specifications given in Annex B of Radio Frequency Spectrum Regulations as amended (Government Gazette No. 38641, 30 March 2015)
7443 – 7583 MHz Fixed links	Fixed links	Fixed links with channelling plan in accordance with ITU-R Rec.F.385 Annex 3
7611 – 7751 MHz Fixed	Fixed links	Fixed links with channelling plan in accordance with ITU-R Rec.F.38 5 Annex 3 & Rec ITU-R 386 (9) Annex 6
8282 – 8297 MHz Fixed	Fixed links	Fixed links with channelling plan in accordance with Rec ITU-R 386-8, Annex 2
8408 – 8423 MHz Fixed	Fixed links	Fixed links with channelling plan in accordance with Rec ITU-R 386-8, Annex 2
10154 – 10294 MHz Fixed	Fixed links	Fixed links with channelling plan in accordance with CEPT ERC Rec.12-05(A)
10450 – 10644 MHz Fixed Radiolocation	Fixed links Radars	Fixed links with channelling plan in accordance with CEPT ERC Rec.12-05(A)

The list below provides for radio frequency spectrum used by ICASA approved short range devices (SRDs) with a radiated power of 250mW or less that are exempted from the requirement for the possession of a permit in terms of Subregulation 5(2) in Schedule A of the said Regulations and which may not be used within 50 km from the SKA Virtual Centre in accordance with Subregulation 4(4).

Proposed exempted bands	Type of device
141 – 142 MHz	Remote control industrial apparatus

148 – 152 MHz	Wild life telemetry tracking. Use of the band is restricted to national game parks.
173.965 – 174.015 MHz	Wireless microphones and assistive listening devices
401 – 406 MHz	Medical implants
402 - 406 MHz	Doppler shift movement detectors, wireless microphones, garage door openers and motor car alarm systems
433.05 – 434.79 MHz	Non-Specific SRDs
863 – 865 MHz	Wireless Audio Systems
869.25 – 869.3 MHz	Alarms
915.1 – 915.2 MHz	Real time location system
5150 – 5350 MHz	Wireless Access Systems (WAS) & Radio Local Access Network (router) (RLAN) (indoor use)

DEPARTEMENT VAN WETENSKAP EN TEGNOLOGIE

NO. 1301

23 NOVEMBER 2018

KENNISGEWING VAN VOORGESTELDE VRYSTELLING VIR RADIO-FREKWENSIE SPEKTRUMGEBRUIK BINNE DIE KAROO SENTRALE ASTRONOMIEVOORDEELGEBIEDE

Die vorige Minister van Wetenskap en Tegnologie, Agbare Naledi Pandor, het regulasies gepubliseer vir die Beskerming van die Karoo Sentrale Astronomievoordeelgebiede kragtens artikels 50 en 51 van die Wet op Geografiese Astronomievoordeel, 2007 (Wet no. 21 van 2007) (hierna hierin verwys as "die AGA Wet"), in *Staatskoerant* No. 41321, onder Kennisgewing No. 1411, op 15 Desember 2017. Die genoemde Regulasies sal effektief word op 15 Desember 2018.

Die AGA Wet maak voorsiening, onder andere, vir 'n verbod of beperking op die gebruik van radiofrekwensies om Radiofrekwensie Steuring (RFS) binne die verklaarde Karoo Sentrale Astronomievoordeelgebiede te minimaliseer. Kragtens Regulasie 3 in Skedule A van die genoemde regulasies, is die gebruik van die radiofrekwensie spektrum vanaf 100 MHz tot 25 500 MHz (25.5 GHz) en radio-uitsendings binne daardie spektrum, verbied tensy die spektrum om gebruik te word, vrygestel is van daardie verbod. Kragtens Subregulasie 3(4) van Skedule B van die genoemde Regulasies, sal die lys van vrygestelde radiofrekwensie spektrum binne ses (6) maande na 15 Desember 2018, gepubliseer word.

Die doel van hierdie kennisgewing, kragtens Regulasie 3 van Skedule B van die genoemde regulasies, is om al die bestaande lisensiehouers en lisensie-vrygestelde operateurs wat radio stasies binne Karoo Sentrale Astronomievoordeelgebiede bedryf en wie gelys is in die permanente register van geïnteresseerde en belanghebbende partye vir die Karoo Sentrale Astronomievoordeelgebiede, in kennis te stel van die voorgestelde lys van radiofrekwensie spektrum vir vrystelling van die verbod op die gebruik daarvan vir uitsendings binne die Karoo Sentrale Astronomievoordeelgebiede geleë.

Geïnteresseerde en belanghebbende partye word uitgenooi om geskrewe vertoë oor en/of besware teen die voorgestelde lys van radiofrekwensie spektrum om vrygestel te word, soos in die aangehegte Skedule uiteengesit, binne neëntig (90) dae vanaf die datum van hierdie kennisgewing, voor te lê aan:

Mnr. Mere Kgampe

Dep van Wetenskap en Tegnologie
Gebou 53, WNNR kampus
Meiring Naude-weg
Brummeria
Pretoria
0184

Of

Dep van Wetenskap en Tegnologie
Privaatsak X894
Pretoria
0001

E-posadres: mere.kgampe@dst.gov.za

Navrae kan gedoen word by telefoonnommer 012 843 6644

Enige persoon wat nie as 'n geïnteresseerde en belanghebbende party vir die Karoo Sentrale Astronomievoordeelgebiede geregistreer is nie, en wens om so geregistreer te wees, mag die Departement kontak met 'n versoek om geregistreer te word. Kontak besonderhede van geregistreeerde persone wat moontlik verander het, behoort op datum gebring te word.



MS M T KUBAYI-NGUBANE, LP
MINISTER VAN WETENSKAP EN TEGNOLOGIE

SKEDULE**VOORGESTELDE RADIO FREKWENSIESPEKTRUM BANDE OM VRYGESTEL
TE WORD VAN DIE VERBOD OP GEBRUIK DAARVAN BINNE DIE KAROO
SENTRALE ASTRONOMIEVOORDEELGEBIEDE.**

Voorgestelde Vrygestelde Bande	Tipiese Aanwending	Notas en kommentaar
100 – 108 MHz Uitsaaiwese	Terrestriële FM Klank uitsaaidienste	Hierdie band word vrygestel om bestaande terrestriële klank uitsaaidienste te akkommodeer.
138 - 144 MHz Vaste Mobiele	Enkel Frekwensie Alarms (140.5 – 141 MHz) Enkel Frekwensie Mobiele (141 – 141.5) Mobiele 1 BTX (141.5 – 144) PMR en/of PAMR	Gepaar met 138 – 140.5
144 – 146 MHz Amateur	Amateur Radio	
366 – 380 MHz Vaste Mobiele	Staatsdienste en Openbare veiligheid	
450 - 453 MHz Vaste	Vaste skakels	Gepaar met 460 – 463 MHz
460 - 463 MHz Vaste	Vaste skakels	Gepaar met 450 – 453 MHz
464 - 470 MHz Mobiele	Multikanaal Mobiele BTX (464.425 – 470 MHz)	Gepaar met multikanaal Mobiele MTX (454.425 – 460 MHz)
935.2 - 946 MHz Mobiele	IMT900 Mobiele BTX	Gepaar met IMT900 Mobiele MTX (890.2 – 901 MHz)
946.6 - 957.4 MHz Mobiele	IMT900 Mobiele BTX	Gepaar met IMT900 Mobiele MTX (901.6 – 903.8 MHz)
951.2 - 959.6 MHz Mobiele	IMT900 Mobiele BTX	Gepaar met IMT900 Mobiele MTX (906.2 – 914.63 MHz)

Voorgestelde Vrygestelde Bande	Tipiese Aanwending	Notas en kommentaar
5725 – 5850 MHz Vaste Satelliet (Aarde-na-ruimte) Vaste	Vaste skakels BFWA	BFWA om volgens spesifikasies verskaf in Bylae B van die Radio Frekwensiespektrum Regulasies te werk, soos gewysig (Staatskoerant No. 38641, 30 Maart 2015)
7443 – 7583 MHz Vaste skakels	Vaste skakels	Vaste skakels met kanaalplan volgens ITU-R Rec.F.385 Annex 3
7611 – 7751 MHz Vaste	Vaste skakels	Vaste skakels met kanaalplan volgens ITU-R Rec.F.38 5 Annex 3 & Rec ITU-R 386 (9) Annex 6
8282 – 8297 MHz Vaste	Vaste skakels	Vaste skakels met kanaalplan volgens Rec ITU-R 386-8, Annex 2
8408 – 8423 MHz Vaste	Vaste skakels	Vaste skakels met kanaalplan volgens Rec ITU-R 386-8, Annex 2
10154 – 10294 MHz Vaste	Vaste skakels	Vaste skakels met kanaalplan volgens CEPT ERC Rec.12-05(A)
10450 – 10644 MHz Vaste Radio-opsporing	Vaste skakels Radar	Vaste skakels met kanaalplan volgens CEPT ERC Rec.12-05(A)

Die lys hieronder maak voorsiening vir frekwensiespektrum gebruik deur OKOSA goedgekeurde kortafstand toestelle (SRDs) met 'n uitgestraalde krag van 250mW of minder wat vrystel is van die vereiste vir die besit van 'n permit kragtens Subregulasie 5(2) in Skedule A van die genoemde Regulasies en wat, kragtens Subregulasie 4(4) nie binne 50 km vanaf die SKA Virtuele Middelpunt gebruik mag word nie.

Voorgestelde vrygestelde bande	Tipe toestel
141 – 142 MHz	Afstandbeheer industriële toerusting
148 – 152 MHz	Natuurlewe telemetrie opsporing. Gebruik van die band is beperk tot nasionale wildtuine.
173.965 – 174.015 MHz	Draadlose mikrofone and luister-hulp toestelle
401 – 406 MHz	Mediese inplantings

402 - 406 MHz	Doppler-verskuiwing bewegingsdetektors, draadlose mikrofone, motorhuisdeur oopmakers and motor alarmstelsels
433.05 – 434.79 MHz	Nie-Spesifieke kortaftand toestelle
863 – 865 MHz	Draadlose Klanksisteme
869.25 – 869.3 MHz	Alarms
915.1 – 915.2 MHz	Intydse opsporingstelsel
5150 – 5350 MHz	Draadlose Toegangstelsels (WAS) & Radio Plaaslike Toegangsnetwerk (router) (RLAN) (binnenshuise gebruik)