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**Contents**

| <i>No.</i>   |   | <i>Gazette<br/>No.</i> | <i>Page<br/>No.</i> |
|--|---|------------------------|---------------------|
| <b>GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS</b>                                   |   |                        |                     |
| <b>Science and Technology, Department of/ Wetenskap en Tegnologie, Departement van</b> |   |                        |                     |
| 1301   | Astronomy Geographic Advantage Act (21/2007): Notice of Proposed Exemption for Radio Frequency Spectrum Use within the Karoo Central Astronomy Advantage Areas .....                    | 42057                  | 4                   |
| 1301   | Wet op Geografiese Astronomievoordeel (21/2007): Kennisgewing van Voorgestelde Vrystelling vir Radio Frekwensie Spektrumgebruik binne die Karoo Sentrale Astronomievoordeelgebiede..... | 42057                  | 9                   |

## 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](mailto: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.

A handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke extending to the left.

**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.**

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

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

| <b>Proposed exempted bands</b> | <b>Type of device</b>               |
|--------------------------------|-------------------------------------|
| <b>141 – 142 MHz</b>           | Remote control industrial apparatus |

|                              |   |
|------------------------------|---|
| <b>148 – 152 MHz</b>         | Wild life telemetry tracking. Use of the band is restricted to national game parks.                     |
| <b>173.965 – 174.015 MHz</b> | Wireless microphones and assistive listening devices  |
| <b>401 – 406 MHz</b>         | Medical implants  |
| <b>402 - 406 MHz</b>         | Doppler shift movement detectors, wireless microphones, garage door openers and motor car alarm systems |
| <b>433.05 – 434.79 MHz</b>   | Non-Specific SRDs   |
| <b>863 – 865 MHz</b>         | Wireless Audio Systems  |
| <b>869.25 – 869.3 MHz</b>    | Alarms  |
| <b>915.1 – 915.2 MHz</b>     | Real time location system   |
| <b>5150 – 5350 MHz</b>       | 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 versoë 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

Of

E-posadres: [mere.kgampe@dst.gov.za](mailto: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.**

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

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

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

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

# **WARNING!!!**

## **To all suppliers and potential suppliers of goods to the Government Printing Works**

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Government Printing Works condemns such illegal activities and encourages service providers to confirm the legitimacy of purchase orders with GPW SCM, prior to processing and delivery of goods.

To confirm the legitimacy of purchase orders, please contact:

Anna-Marie du Toit (012) 748-6292 ([Anna-Marie.DuToit@gpw.gov.za](mailto:Anna-Marie.DuToit@gpw.gov.za)) and

Siraj Rizvi (012) 748-6380 ([Siraj.Rizvi@gpw.gov.za](mailto:Siraj.Rizvi@gpw.gov.za))

