

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

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Dept of Science and Technology
Private Bag X894
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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)