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DEPARTMENT OF SCIENCE AND INNOVATION

NO. 753 **26 August 2021**

PROMULGATION OF THE REVISED EXEMPTED RADIO FREQUENCY SPECTRUM FOR THE KAROO CENTRAL ASTRONOMY ADVANTAGE AREAS IN TERMS OF THE ASTRONOMY GEOGRAPHIC ADVANTAGE ACT, 2007

I, Dr. Bonginkosi Emmanuel Nzimande Minister of Higher Education, Science and Innovation in accordance with Regulation 3(4) of Schedule B of the Regulations for the Protection of the Karoo Central Astronomy Advantage Areas (hereinafter referred to as the "KCAAA Regulations"), and having obtained concurrence from the Independent Communications Authority of South Africa , hereby promulgate the revised radio frequency spectrum exempted for use within the KCAAAs as set out in the attached schedule.

In terms of Regulation 3(2) of Schedule A of the KCAAA Regulations (extended to 15 December 2021 through Notice No.1293, published in Government Gazette No.43967, on 4 December 2020), the use of the radio frequency spectrum from 100MHz to 25 500 MHz (25.5 GHz) within the KCAAA will be prohibited. Only the radio frequency spectrum exempted from the prohibition as stated in the attached schedule may subsequently be used if a permit has been issued in terms of Regulation 4 of Schedule B of the KCAAA Regulations.

DR B E NZIMANDE, MP
MINISTER OF HIGHER EDUCATION, SCIENCE AND INNOVATION

SCHEDULE

REVISED RADIO FREQUENCY SPECTRUM BANDS EXEMPTED FROM THE PROHIBITION OF ITS USE IN THE KAROO CENTRAL ASTRONOMY ADVANTAGE AREAS.

1. The band between 100 MHz to 200 MHz is exempted from the prohibition of its use, for all existing radio communication transmissions which were lawful immediately before the promulgation of the Regulations for the Protection of the Karoo Central Astronomy Advantage Areas (herein after referred to as the "KCAAA Regulations") as published in Government Gazette No. 41321, under Notice No. 1411, on 15 December 2017.

2. In the paired bands allocated to mobile services, all uplink frequency bands are exempted from the prohibition in terms of sub-regulation 5(3) of Schedule A of the KCAAA Regulations.

3. All space-to-earth frequency bands allocated in terms of Independent Communications Authority of South Africa's (ICASA) National Radio Frequency Plan 2018 as published in Government Gazette No. 41650, under Notice No. 266, on 25 May 2018 as amended, are exempted from the prohibition in sub-regulation 3(2) of Schedule A of the Regulations.

4. All allocations to operate in line with specifications in ICASA National Radio Frequency Plan and Radio Frequency Spectrum Regulations.

TABLE OF FREQUENCY ALLOCATION FOR THE

DECLARED KAROO CENTRAL ASTRONOMY ADVANTAGE AREAS

Frequency band	Allocation to services
138 – 144 MHz	FIXED
	MOBILE
144 – 146 MHz	AMATEUR
366 – 380 MHz	GOVERNMENT SERVICES AND PUBLIC SAFETY
440 – 441	FIXED
416.1 – 417.625	MOBILE
450 – 453 MHz	FIXED
460 – 463 MHz	FIXED
454 – 460 MHz	MOBILE
935.1 – 946.1 MHz	MOBILE
946.5 – 948.9 MHz	MOBILE
951.1 – 959.7 MHz	MOBILE

Frequency band	Allocation to services
1880 – 1900 MHz	FIXED
2110 – 2125 MHz	MOBILE
2140 – 2155 MHz	MOBILE
2307 – 2387 MHz	FIXED
2401 – 2481 MHz	FIXED
5470 – 5720 MHz	ISM
7443 – 7583 MHz	FIXED
7611 – 7751 MHz	FIXED
8282 – 8297 MHz	FIXED
8408 – 8423 MHz	FIXED
10154 – 10294 MHz	FIXED
10450 – 10500 MHz	RADIOLOCATION
10504 – 10644 MHz	FIXED radiolocation
13.75 – 14.5 GHz	FIXED SATELLITE (Earth-to-space)

The following frequency bands are exempted in terms of sub-regulation 5(2) of SCHEDULE A of the Regulations for apparatus exempt from ICASA radio frequency spectrum licences that transmit EIRP of 250 mW or less and should also operate in accordance with the specifications in Annexure B of ICASA's Radio Frequency Spectrum Regulations 2015.

Revised Exempted Band (MHz)	Apparatus
141 – 142	Remote control industrial apparatus.
148 – 152	Wild life telemetry tracking.
402 – 405	Medical Implants/ Doppler shift movement detectors, wireless microphones, garage door openers and motor car alarm systems.
433.05 – 434.79	Non-specific SRDs
863 – 865	Wireless Audio Systems / Wireless microphones
865 – 868	RFID
869.25 – 869.3	Alarms
915.1 – 915.2	Real time location system
2400 - 2483	WLAN / Non-specific SRDs/ FDDA / Low Power Video surveillance
5150 – 5350	WAS/RLAN (indoor)