



science
& technology

Department:
Science and Technology
REPUBLIC OF SOUTH AFRICA

Karoo Central Astronomy Advantage Areas

FORM 2 Questionnaire: Permit application with management authority assessment

Purpose

Form 2 must be used to apply for a permit to use the radio frequency spectrum, and conduct radio transmissions within that portion of the spectrum, within the Karoo Central Astronomy Advantage Areas.

Schedule A under sub-regulation 4 (3) requires for any person who operates radio equipment for which radio frequency spectrum licence exemptions have been prescribed by ICASA, in Part III, regulation 4 of the ICASA Spectrum Regulations, 20015, shall not operate or use such equipment within 50 KM of the SKA Virtual Centre unless a permit has been granted by the management authority.

| The document is modified to make it easier for local community members to apply for a permit | | |
|--|--|--|
| Permit holder / Farm owner | | |
| Physical address / Farm name | | |
| Postal address | | |
| Phone number | | |
| Email address | | |
| Contact person / Person that completed the form | | |
| Surname | | |
| Full Names | | |
| Mobile number | | |
| Email address | | |
| The following list includes typical equipment that may be found on the farms. Additional items found on the farm must be added to the list. | | |

| Equipment Description | Frequency range | Power output & Channel | Additional comment: Manufacture, Photo, Serial number, height |
|---|------------------------|-----------------------------------|--|
| DECT CORDLESS PHONE | 1880 - 1900 MHz | 250 mW | |
| Wildlife telemetry tracking | 148 – 152 MHz | 25 mW | |
| RFID for animal identification (Supplier/product description required) | 433.04-434.79M | 1 mW | |
| | 433.04 – 434.79M | 10mW | |
| Public Mobile Radio (PMR). Analogue and Digital | 446 - 446.2 MHz | 500mW | |
| | 136 - 174MHz | 5W | |
| Security systems | 464.5375 MHz | 1 W | |
| Low power video surveillance | 2400 - 2483.5 MHz | 100 mW | |
| | 10.025 - 10.145 MHz | 1W | |
| Wireless Access Systems / Radio Local Access Network (WAS & RLAN) Indoor use only | 5150 – 5250 MHz | 20 dBm | |
| | 5470 – 5725 MHz | 27 dBm | |
| Alarms systems including social alarms and alarms for security and safety | 402 – 406 MHz | 10 mW | |
| | 868.6 - 868.7 MHz | 10 mW | |
| | 869.65 - 869.7 MHz | 25 mW | |
| Meter Reading | 169.4-169.475 MHz | 500 mW | |
| Wireless Industrial Applications (WIA) | 5725-5875 MHz | 400 mW | |
| Wideband Data Transmission Systems | 915.8-919.4 MHz | 25 mW | |
| | 2400-2483.5 MHz | 100 mW | |
| Aircraft Model Control | 34.995-35.225 MHz | 100 mW | |

| Equipment Description | Frequency range | Power output & Channel | Additional comment: Manufacture, Photo, Serial number, height |
|---------------------------------------|--|-------------------------------------|--|
| DRONES | 2400 - 2483.5MHz, | 14dBm, | |
| | 5725 - 5875MHz | 20dBm | |
| Surface Model Control | 26990-27000 kHz | 100 mW | |
| Radio microphones | 174-216 MHz | 50 mW | |
| | 470-786 MHz | 50 mW | |
| BLUETOOTH SPEAKER / WIRELESS MOUSE | 2400 - 2483.5 MHz | 10 dBm | |
| MOBILE PHONE | GSM900/1800, WCDMA Band I/VIII, LTE Band 1/3/7/8/20 | 33/30dBm, 24dBm, 23dBm | |
| SMART PHONE | GSM900/1800, WCDMA Band I/VIII, LTE Band 1/3/7/8/20 | 33/30 dBm, 24 dBm, 23 dBm | |
| SMOKE ALARM | 433.05 - 434.79 MHz | 10 mW | |
| MOBILE COMPUTER | 2400 - 2483.5MHz, 5150 - 5350MHz, 5470 - 5725MHz, 5725 - 5875MHz | 10dBm, 20dBm, 23dBm, 30dBm | |
| WASHING MACHINE | 2400 - 2483.5MHz | 20dBm | |
| BLUETOOTH MODULE | 2400 - 2483.5MHz | 10dBm | |
| PC TABLET | 2400 - 2483.5 MHz | 15.53 dBm | |
| HOUSEHOLD REFRIGERATOR-FREEZER | 2400 - 2483.5 MHz | 20 dBm | |
| WIFI ROUTER | 2400 - 2483.5 MHz, 5150 - 5250 MHz, 5250 - 5350 MHz, 5470 - 5725 MHz | 20 dBm, 24 dBm, 30 dBm | |
| GPS SMART WATCH | GSM 900/1800 | 2W/1W | |

| Equipment Description | Frequency range | Power output & Channel | Additional comment: Manufacture, Photo, Serial number, height |
|------------------------------------|---|---|--|
| TV BOX | 2400 - 2483.5 MHz, 5150 - 5350 MHz, 5470 - 5725 MHz | 20 dBm, 27 dBm | |
| NOTEBOOK COMPUTER | 2400-2483.5 MHz, 5150-5350 MHz, 5470-5725 MHz, 5725-5875 MHz | 10 dBm, 20 dBm, 23 dBm, 14 dBm | |
| VSAT PLATFORM | 29.25 - 30 GHz | 35.02 dBw | |
| KU-BAND SATELLITE EARTH STATION | 10.7-12.75 GHz; 13.75 - 14.50 GHz | 16W | |
| Ka-BAND SATELLITE EARTH STATION | | | |
| CELLULAR REPEATER | GSM900/1800, WCDMA Band I/VIII, LTE Band 1/3/7/8/20 | 33/30dBm, 24dBm, 23dBm | |
| HOME MESH WI-FI SYSTEM | 2400-2483.5 MHz, 5150-5250 MHz | 20 dBm, 23 dBm | |
| POINT TO MULTIPOINT RADIO | 5470 - 5725 MHz, 5725 - 5875 MHz | 30/36 dBm | |
| | | | |

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|--|-------|-------|-------|-------|-----------|------|-------|
| Geographic location (longitude and latitude in WGS84 decimal degrees) | | | | | | | |
| Average Height | | | | | | | |
| Attachments | | | | | | | |
| Pictures of each item to indicate the brand name and if possible, ICASA Type Approval number | | | | | | | |
| Detailed measurement data attachment in XLSX format as defined by the management authority, if available. | | | | | | | |
| Any other attachments | | | | | | | |
| Declaration I/we declare that – <ul style="list-style-type: none">• the information furnished in this application is true and correct in every respect;• I/we have the necessary records to support the information provided for inspection purposes. | | | | | | | |
| Signed by: (Full Names and Surname) <table><tr><td>_____</td><td>_____</td><td>_____</td></tr><tr><td>Signature</td><td>Date</td><td>Place</td></tr></table> | | _____ | _____ | _____ | Signature | Date | Place |
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| Signature | Date | Place | | | | | |