



science  
& technology

Department:  
Science and Technology  
REPUBLIC OF SOUTH AFRICA

## Karoo Central Astronomy Advantage Areas

### FORM 2: Permit application with management authority assessment

#### Purpose

This form 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.

This form should be used if the applicant would like the required compliance assessment to be conducted by the management authority. If the applicant would rather arrange for the assessment to be conducted by a competent person employed or contracted by the applicant, then Form 3 should be used instead of Form 2.

#### Background

The Astronomy Geographic Advantage Act, 2007 (Act No. 21 of 2007) (“AGA Act”), provides inter alia for the protection of areas within the Republic of South Africa that are uniquely suited for radio astronomy.

The Karoo Central Astronomy Advantage Areas were declared for the purpose of radio astronomy and related scientific endeavours in terms of the AGA Act in Government Gazette No. 37434, under Notice No.198, on 12 March 2014.

The Regulations on the Protection of the Karoo Central Astronomy Advantage Areas, made in terms of the AGA Act, were published in Government Gazette No. 41321, under Notice No. 1411, on 15 December 2017. The effective date of the Regulations is 15 December 2018.

The Regulations stipulate the following<sup>1</sup>:

1. Schedule A, sub-regulation 3(2): As of 15 December 2019 (one year after the effective date of the Regulations), no operator may use the radio frequency spectrum between 100 MHz and 25.5 GHz, or conduct radio transmissions within that portion of the spectrum, within the Karoo Central Astronomy Advantage Areas unless a permit to do so has been issued.
2. Schedule B, sub-regulations 4(1) and (2): Before such a permit can be issued, a compliance assessment of each radio transmission concerned must be conducted, either by the management authority or by a person employed or contracted by the applicant who is competent to conduct such assessments.
3. Schedule B, sub-regulation 4(3): The assessment must determine whether the radio transmissions comply with the requirements of radio frequency interference protection at the Square Kilometre Array (SKA) Virtual Centre, with the prohibition of saturation level interference, and with all other applicable regulations.

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<sup>1</sup> The statement of the requirements of the Regulations in this form are provided for the convenience of the applicant. Nothing stated in the application form will negate anything prescribed in the published Regulations.

4. By signing the application form, permission is given to the Astronomy Management Authority by the applicant to process, collect, receive, record, organise, collate, store, update, modify, retrieve, alter, consult, use, disseminate, distribute, merge, share, link, erase or destroy personal information received from the applicant.

<b>Details of transmissions for which permits are required</b> (If more than two transmissions are involved, use a tabulated schedule.)	
Legislation	Astronomy Geographic Advantage Act, 2007
AGA unique reference	
Site name	
Transmitter name	
Municipality/nearest town	
Type of radio communications service	
Typical application	
<b>Permit applicant</b>	
Applicant/company name	
Physical address	
Postal address	
Website	
Phone number	
Email address	
<b>Contact person</b>	
Surname	
Full Names	

Mobile number		
Email address		
<b>Transmission characteristics (radio station including accessory equipment)</b>		
<b>Transmission details</b>	<b>Transmission 1</b>	<b>Transmission 2</b>
ICASA licence exempt	Yes/No	Yes/No
ICASA licence number		
Frequency assignment/centre frequency (MHz)		
Bandwidth allocated (MHz)		
Effective radiated power: power to antenna plus antenna gain in relevant direction (dBm)		
Polarisation		
Geographic location (longitude and latitude in WGS84 decimal degrees)		
Antenna height (above ground/site level)		
Transmission time during day/week/month		
<b>Antenna characteristics</b>		
Antenna type		
Antenna producer/make		
Maximum gain (dBi)		
Horizontal beam width		
Vertical beam width		
Detailed antenna characteristics via attachment		

Elevation/tilt		
Azimuth		
<b>Attachments</b>		
ICASA licence		
Any other attachments		
<b>Declaration</b>		
<p>I/we declare that –</p> <ul style="list-style-type: none"> <li>• the information furnished in this application is true and correct in every respect;</li> <li>• I/we have the necessary records to support the information provided for inspection purposes.</li> </ul>		
<p><b>Signed by:</b> ..... (Full Names and Surname)</p>		
<p>_____</p> <p>Signature</p>	<p>_____</p> <p>Date</p>	<p>_____</p> <p>Place</p>