



science  
& technology

Department:  
Science and Technology  
REPUBLIC OF SOUTH AFRICA

## Karoo Central Astronomy Advantage Areas

### FORM 1: Application for competent person accreditation

#### Purpose

This form must be used to request accreditation for a person who is competent to carry out compliance assessments in terms of the Regulations on the Protection of the Karoo Central Astronomy Advantage Areas.

This form should be used in conjunction with Form 3 – application for a permit to use the radio frequency spectrum and carry out transmissions within the Karoo Central Astronomy Advantage Areas, with the option of the applicant arranging for a competent person to conduct the required compliance assessment.

#### 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 from 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 any such 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. Schedule B, sub-regulation 8(1): The person who carries out the compliance assessment and submits the required information to the management authority must –
  - 4.1 possess an academic qualification in electronic or radio frequency engineering at a level that would allow him/her to register as a professional engineering technologist;
  - 4.2 have access to, or be able to obtain access to, a computerised frequency spectrum planning system that could be used to carry out the required computer modelling; and
  - 4.3 be able to provide at least two references for work carried out successfully in the preceding five years which involved the determination of radio wave propagation and signal levels.
  
5. Schedule B, sub-regulation 8(2): If a person has carried out work that is equivalent to the required compliance assessment, but cannot fulfil the requirements of sub-regulation 8(1), he/she may request the management authority to conduct an assessment of his/her skills and experience relevant to carrying out compliance assessments.
  
6. Schedule B, sub-regulation 8(4): The management authority must advise the applicant in writing whether the person who carried out the compliance assessment and submitted the required information met the requirements of sub-regulation 8(1), or, where a skills and experience assessment was undertaken, what the outcome of the assessment was.
  
7. 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>Information to be provided for accreditation as a competent person or for the assessment of the person's competence</b>	
AGA unique reference	
<b>Applicant/employer/licensee/licence exempt operator</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>Details of the person requesting accreditation as a competent person</b>	
Surname	
Full Names	
South African ID number	
Mobile number	
Email address	
Academic qualifications	
Registration with the Engineering Council of South Africa – category and number (not mandatory)	
Access to a computer system for signal level calculation	
Web address and description of the computer system	
Relevant methods and standards to be applied, as listed in Annexure B to Schedule B of the Regulations	
Digital terrain model to be used	
Two references for radio frequency signal level prediction	

work carried out in the preceding five years	
<b>Attachments</b>	
Any relevant information that was not provided for in this form or could not be accommodated in the space provided	
<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 of person requesting accreditation)</p>	
<p>_____  Signature</p>	<p>_____  Date</p>
<p>_____  Place</p>	