

The Directors
Loxton Wind Facility 1(Pty) Ltd
Unit 1501 15th Floor Portside building
4 Bree Street
Cape Town, Western Cape
8001

Email: peter@atlanticep.com

Date: 09 February 2023

To whom it may concern

RE: THE PROPOSED LOXTON WIND FACILITY 1

This letter is in response to the proposed above mentioned wind development facility and its possible impact on the Square Kilometre Array radio telescope.

SARAO has undertaken a high-level impact assessment and based on the information provided, it was determined that the project represents a low risk to medium risk of interference to the SKA radio telescope. As such, we do not object to the development, however we request that an EMI control plan be developed to ensure that the emissions are reduced by at least 8dB for a hub-height of 200m or 4 dB for a hub-height of 120m, based on a facility of 42 wind turbines.

We would further like to bring it to your attention that a PERMT is not required for wind facilities that are further than 50 km from the SKA Infrastructure Territory, provided that the facility does not cause interference. In this project, our high level assessment does indicate that when CISPR 11 emission limits are used, the facility causes some interference to the SKA. As such, a PERMIT will be required, unless it could be shown that the radiated emissions of the turbines fall below the CISPR limits and within the SARAS compliance margins.

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The South African Radio Astronomy Observatory (SARAO) is a National Facility managed by the National Research Foundation and incorporates all national radio astronomy telescopes and programmes. SARAO is responsible for implementing the Square Kilometre Array (SKA) in South Africa.

Thank you very much for your patience and for contacting our office and we remain open to discuss any matter relating to the above.

Regards,



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