

Apparatus Licence

Issued by Delegate of the Australian Communications and Media Authority



Licensee details

Customer ID	471482
Licensee	COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION
Trading name	CSIRO
Licensee address	GPO Box 1035, TUGGERANONG, ACT 2901

Licence details

Licence service	Earth
Licence subservice	Fixed Earth
Licence number	10282252/2
Date of issue	02/08/2023
Date of effect	02/08/2023
Date of expiry	20/08/2024

Licence conditions

Your licence is subject to conditions set out in the *Radiocommunications Act 1992*. Your licence may also be subject to such other licence conditions as determined by the ACMA (in licence condition determinations) from time to time, and is also subject to special conditions as detailed on this licence.

The conditions that are imposed on a licence vary according to the type of licence issued, the service being operated and the section of the *Radiocommunications Act 1992* under which the licence has been issued. For further information about the conditions that apply to your licence, please contact the ACMA (see contact details below).

Rights of appeal

A decision by the ACMA to impose further conditions or revoke or vary the conditions of your licence may be reviewable. If you are affected by, and dissatisfied with, such a decision you may apply to the ACMA to have the ACMA reconsider the decision under section 288 of the *Radiocommunications Act 1992*.

An application for reconsideration must state the reasons for the request, and should be sent to the Customer Service Centre, Australian Communications and Media Authority, PO Box 78, Belconnen, ACT, 2616. Applications for review of decisions can be made using the R051 - Application for review of Decision form, available on the ACMA website.

Important

An application for the ACMA to reconsider a decision to impose or vary licence conditions must be made to the ACMA within 28 days of the day on which you are informed of the decision. An application for reconsideration made after that time may not be accepted.

ACMA contact details

Customer Service Centre
PO Box 78
BELCONNEN ACT 2616

Telephone: 1300 850 115
Email: info@acma.gov.au

ACMA website: www.acma.gov.au

Certain information contained in this licence record will be disclosed in the Register of Radiocommunications Licences (RRL), established and maintained pursuant to Part 3.5 of the *Radiocommunications Act 1992*.

Special Conditions applying to licence no.: 10282252/2

Avoidance Cones for New Norcia Deep Space Transmissions in the 2110 - 2120 MHz Band (s.2.4.1. of the Arrangement). For transmissions from the New Norcia site in the 2110 - 2120 MHz band: Maximum power at the antenna input: 20 kW (43 dBW); Avoidance cone opening angle: 90 degrees; Avoidance cone axis bearing: 198 degrees. (Cone Definition: A cone, with an axis bearing 198 degrees with reference to true north, centred on the horizon at 0 degrees elevation. The angle subtended by the cone is 90 degrees; this includes 45 degrees to the left of, the right of and vertically above the centre axis.)

This Special Condition is comprised of Section 2.4 (Avoidance Cones for New Norcia Deep Space Transmissions) extracted from Annex 1 of the Draft Implementing Arrangement (the Arrangement) between the European Space Agency (ESA) and the Government of the Commonwealth of Australia, represented by the Department of Industry, Science and Resources (DISR) concerning the establishment of an ESA Facility at New Norcia in Western Australia. The operation and maintenance of this facility and ESA's facilities at the Perth International Telecommunications Centre, and other matters related or incidental to implementing the agreement between the Government of Australia and the European Space Agency for a Co-Operative Space Tracking Program, done at Paris on 15 June 1979 and amended.

Advisory Notes applying to licence no.: 10282252/2

Conditions applicable to the operation of Fixed Earth station(s) authorised under this licence can be found in the Radiocommunications Licence Conditions (Apparatus Licence) Determination. Copies of this determination are available from the ACMA and from the ACMA home page (www.acma.gov.au).

This licence authorises communications with MARS-EXPRESS.

Technical characteristics

Below is a summary of the technical characteristics of the licensed service. Further technical details not displayed here may be found on the ACMA website.

Station 1:

Site details

Site ID	131922
Site address	ESA Deep Space Earth Station, Great Northern Hwy 9 km SSW of, NEW NORCIA WA
Co-ordinates (GDA94)	Latitude: -31.048236 Longitude 116.191514

Transmitter details

Assigned frequency	2.11467600 GHz
Bandwidth	2.500000 MHz
Freq. assign. ID	0001934682
Transmitter power	20.00 kW
EIRP	6,324.56 MW
Emission designator	2M50G1D

Antenna details

Antenna ID	13126
Antenna polarisation	M - Mixed
Antenna azimuth	
Antenna type	Parabolic-P

Advisory Notes applying to Station 1

The Master International Frequency Register (MIFR) is maintained by the International Telecommunication Union (ITU) in accordance with the Radio Regulations.

This frequency band is currently under review to accommodate changes in technology. This review may lead to a requirement to change frequency or to cease transmission.

The bands 1885 to 2025 MHz and 2110 to 2200 MHz are intended to be used for the operation of new mobile telecommunications services expected to be introduced in, or from, the year 2000. If mobile telecommunications services are to be introduced in these bands then, prior to this occurring, services or stations assigned frequencies in these bands will be required to change frequency, change frequency band, or cease transmission.

Special Conditions applying to Station 1

Operation of this earth station must be in accordance with frequency assignments recorded in the Master International Frequency Register (MIFR) of the International Telecommunication Union.