# Radio Emissions Management Plan (REMP) application form

This form is to be used for activities proposed for Inyarrimanha Ilgari Bundara, the CSIRO Murchison Radio-astronomy Observatory, other than mining.

## Purpose

The RFI Management Plan (MROSE-07, available on [research.csiro.au/mro](https://research.csiro.au/mro/observatory-documents/)) lists requirements that must be met for activities on Inyarrimanha Ilgari Bundara, the CSIRO Murchison Radio-astronomy Observatory (the Observatory), other than mining activities, which are covered by other processes.

As part of this compliance, information about proposed activities must be provided in a Radio Emissions Management Plan (REMP) using the form at the end of this document. Information in the REMP will enable a technical assessment of the radio frequency interference impact of the proposed activity.

Map

Description automatically generatedA REMP is required for activities which include any of the following components:

1. Permanent installation of electrical equipment.
2. Site visits or other activities within the circled area near the telescopes, Figure 1 (except for normal weekday work).
3. The use of aircraft anywhere over the Observatory.
4. The use of arc welding anywhere on the Observatory.
5. The use of radio equipment anywhere on the Observatory (other than normal use of UHF radios).

A REMP is **not** required for activities to address emergency situations involving preservation of life or potential damage to property or the environment, or urgent repairs to prevent major equipment damage.

## Process

The REMP form at the end of this document should be completed by the person who will take responsibility of the proposed activity, including informing all staff involved in the activity of the requirements of the REMP. A CSIRO contact who will take responsibility for the coordination of the activity is also required. The completed form should be forwarded as a Word document to mro.emc@csiro.au **at least three weeks** prior to the proposed commencement date of the activity.

Figure 1. Inyarrimanha Ilgari Bundara, the CSIRO Murchison Radio-astronomy Observatory (aqua line) with roads (red lines) and rivers (grey lines) marked. In the circled area are the ASKAP (purple) and MWA (green) telescopes. Orange spots are proposed stations of SKA-Low (under construction).

Proponents should note that it may take up to three weeks for an assessment to be made. A member of CSIRO’s RFI team will communicate the result of the assessment to the nominated responsible person. Due to the stringent radio quiet protection requirements, additional conditions or restrictions may be placed on activities and, in extreme cases, the activity may not be approved to proceed.

Submit this form as a Word document to mro.emc@csiro.au at least three weeks prior to the proposed commencement date of the activity. ***Please do NOT convert this form to PDF.***

|  |  |  |  |
| --- | --- | --- | --- |
| REMP Number (to be assigned by RQZ team): | | | |
| Date of submission of this REMP |  | | |
| Title of proposed activity |  | | |
| Name and details of PRIMARY contact responsible for proposed activity |  | | |
| Name of CSIRO staff member responsible for coordination | Name: email: | Phone: | |
| Specific location of proposed activity1 |  | | |
| Period of proposed activity | Start date: | End date: | |
| Daily weekday timeframe  (attach schedule if necessary) | Start time: | End time: | |
| Daily weekend timeframe (if necessary, attach a schedule or provide details in the work description below) | Start time: | End time: | |
| Answer Yes or No to the following questions - if Yes, please specify in the activity description field below | | | |
| 1. Will any electrical equipment be permanently installed? | | |  |
| 2. Does this activity require access to the area circled in Figure 1 (above)? | | |  |
| 3. Will aircraft be used to fly in to, out of, or over the Observatory? | | |  |
| 4. Will welding equipment be used? (Provide details of specific days/times) | | |  |
| 5. Will radio equipment be used (e.g. CB/two-way radios, sat phones, remote control units, wireless devices, WiFi or Bluetooth etc.)? | | |  |
| Provide a brief description of the proposed activity to allow an assessment of the radio frequency interference impact. Include details in relation to questions answered ‘yes’ above.  Specify all:   * electrical, electronic, battery operated or communication equipment/devices * vehicle type * aircraft and drones.   It is not necessary to explain why the activity is required or to provide other non-technical information For advice on what to include please contact: mro.emc@csiro.au. |  | | |

1. This should either be an obvious, well-known landmark (such as the ASKAP Control Building, ASKAP Antenna 10, or Boolardy Airstrip), GPS coordinates, or a map showing the exact location in relation to the circled area or Boolardy Homestead. Vague descriptions such as ‘the turkey nest’ or ‘Jagged tree’ are not acceptable landmarks.

## This page is for CSIRO use only

**Conclusions** (including input from science teams on the impact and the RFI team assessment)

**Recommendations** (including further constraints for this work)