



# Electromagnetic Energy



# Electromagnetic Energy (EME)

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This document outlines the minimum guidelines that Indara workers (including contractors) must adhere to when planning and performing activities involving electromagnetic fields. This guide outlines the criteria that Indara requires to be effectively addressed and managed during the planning and execution of commissioned work activities. Workers are expected to integrate these criteria into their Health Safety Environment Quality (HSEQ) management systems and plans. As a minimum, Indara anticipates evidence of adherence to these criteria in workers' HSEQ management systems and plans.

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## CRITERIA FOR ELECTROMAGNETIC WORK ACTIVITIES

### RESPONSIBILITIES AND AUTHORITIES

Designated individuals are responsible for managing and supervising EME-related work, with clear identification of their roles and responsibilities.

### ARPANSA RPS3 STANDARD

Contractors must review the ARPANSA RPS3 Standard, which defines Maximum Exposure Levels to Radio Frequency Fields (3kHz - 300GHz), and incorporate these requirements into safe work systems for activities involving EME sources.

### RF WORKER TRAINING

RF workers must complete an RF worker training course endorsed by the Australian Centre for Electromagnetic Bioeffects Research (ACEBR) or equivalent before working near EME sources.

### EME SITE SAFETY GUIDES

Contractors must review the EME Guide for Site Safety (EMEG) and the Radiofrequency National Site Archive (RFNSA) before commencing work involving EME.

### COMPLIANCE AND PERMITS

Necessary information, advice, notifications, permits, and authorisations from asset site owners, landlords, councils, or relevant parties must be obtained for installing or modifying EME transmitting equipment. Permits must align with legislative and Codes of Practice requirements.

### NO GO ZONES

Methods must be in place to identify EME transmission equipment locations and applicable "No Go Zones," with appropriate signage.

### EME PERSONAL MONITORING

Workers must have access to EME personal monitoring equipment to identify EME zones and confirm isolation of transmission equipment. Workers must be trained in its use and keep it on their person while within the occupational zone.

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## **EME TESTING EQUIPMENT**

EME testing and measurement equipment must be in good condition, calibrated, tested, tagged, and meet required standards. Records of equipment condition and calibration must be readily available.

## **COMPETENCY IN EQUIPMENT USE**

Individuals using EME test or measurement equipment must be trained and competent in their usage.

## **SAFETY DURING WORK**

Work must not be performed on live antennas, feeder systems, or transmitters if potential exposure exceeds ARPANSA-prescribed levels for RF workers.

## **MEDICAL CONSIDERATIONS**

Individuals with medical implants must not work in areas exceeding EME exposure levels without a medical certificate clearing them from health risks.

## **UNSAFE EQUIPMENT HANDLING**

Unsafe EME equipment must be disconnected, isolated, tagged, and locked out where possible. Reconnection is prohibited until repaired, tested safe, or permanently removed from use.

## **MINIMISED ENERGY FIELDS**

EME transmitter devices must operate to minimise energy fields and not exceed occupational exposure standards.

## **EME MEASUREMENT REPORTS**

Sites requiring EME measurement reports from accredited test facilities must obtain and file these reports alongside other site records.

## **MEDICAL MANAGEMENT FOR OVEREXPOSURE**

A system must be in place for managing cases of overexposure to EME, including medical attention.

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This document outlines the critical guidelines for working safely with electromagnetic fields. All persons, including our contractors are required to incorporate these guidelines into their HSEQ management systems and plans. Compliance with this guide is mandatory to ensure the well-being of personnel and the safe execution of activities involving EME.

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## DOCUMENT CONTROL

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### AUTHORISATION

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