A close up of a sign

Description automatically generated**Exposure to Non-Ionising Radiation (RF) – Policy**

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Compliance & Overexposure.

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Document to be reviewed annually.

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For queries regarding this, or any other TEC Installation Policy / Procedure please contact the above.

TEC Installations’ employees, contractors, sub-contractors or any person undertaking work on behalf of the latter, must comply with all elements of this policy. This document contains references to external documents supplied by Clients, Infrastructure Management companies & network providers to TEC Installations Ltd. TEC Installations and its workers have a duty of care to ensure compliance with both internal documentation and that applicable to that of the site provider, at the time.

This document may be superseded by H&S alerts / disseminations.

Other documents to reference:

CEMFAW (Control of Electro-Magnetic Fields at Work) July 2016

The creator of this document is responsible for ensuring workplace compliance, calibration and review. Reviews are to be conducted on a 12 monthly basis, or where an updated guidance note / regulation is issued.

1. **TEC Installations requirements for WAH**

Please find embedded;

TEC5.0 – WAH Policy



1. **Compliance**

TEC Installations, its employees, contractors or any person working on behalf of. Shall work to and comply with the HSE guidance note CEMFAW 2016 Regulations.



1. **MBNL / Others Requirements for WAH**

Please find embedded MBNL Contractors RF / WAH Policy:



1. **TEC Installations requirements for RF Hazards**
   1. **Application**

TEC Installations requirements for RF Hazards relates to all site types, whether working at height, rooftop or greenfield.

* 1. **Overview, training & RF Monitors**

Engineers must attend an RF Safety Course, before visiting any site that poses a risk of exposure to RF Radiation. Training is to be renewed annually or inline with the course providers instructions. Online EMF Awareness Courses are accepted, however proof that a ½ day class room course has be previously attended will be required.

The following training providers are approved for engineers attending, Arqiva, MBNL, CTIL & WIG Sites. They are also MATs approved.

* Arco Professional Training – Total Access
* Capital Safety 3M
* XI Training
* Heightec

Online courses will be delivered by Praxis 42 via Arco Professional Training.

When undertaking work on behalf of or for TEC Installations, the following personal monitors are approved for use:

* Nardalert S3
* Field SENSE (Not approved for sites with Paging Antennas)

The above monitors allow for users to move freely thorough areas of varying or unknown RF strengths, the monitor will alarm at 50% of the ICNIRP Occupational Exposure Level.

In the event of an alarm, engineers should proceed to an RF free area, if the alarm was unexpected or an abnormally high reading was obtained. Management is to be informed so the relevant notification can be issued.

When accessing any areas where there is risk of exposure to an RF source; such as Rooftops or Structures etc. A personal RF Monitor must be worn.

When Rooftop working at least one unit must be present.

When working on a structure each climber must wear a unit.

Units shall be suitable for purpose, and calibrated.

All engineers accessing RF Risk areas, shall have an appropriate, climbers medical, this is for the engineer to be screen of having impaired medical devices or other.

RF Monitors shall be calibrated in line with the manufacturer’s guidelines, however calibration intervals should not exceed 48 months for the mainframe and 24 months for the sensor. Calibration is to be carried out by the manufacturer or the nominated partner. For Nardalert S3’s this would be Linkmicrotek.

* 1. **Electrical Isolation**

Where there is an RF Hazard on site, the relevant item of equipment should be electrically isolated, to prevent any accidental energisation of the propagating equipment. This will be in the form of a TX Rack, BTS or Radio Unit.

For MBNL / EE sites, it is mandatory that all RF Equipment is isolated at source for the duration of works.

Where work is being undertaken on a system that poses no RF H&S implication. Electrical isolation is not required.

1. **Overexposure to Non Ironising Radiation**

The effects of overexposure can cause both short term and long term issues for the exposed engineer. Gone un treated the effects can lead to chronic illness, affecting the nervous system, brain and bodily cells.

Initial signs of over exposure are as follows:

* Headache
* Fatigue
* Dizziness
* Irritability
* Loss of appetite
* Nausea
* Skin burning & tingling

In the event of overexposure immediate medical attention should be sought. Should it be deemed necessary the emergency services shall be rang. The details of the engineer’s location, will be listed within the Method Statement, along with details of the nearest hospital, the location of this document whilst on site will be discussed and agreed during the site tool box talk.

A member of staff should document the events in as and when they occur, in order to provide the emergency services and medical staff vital information that may aid in the treatment of the exposed engineer. This should include, but not be limited to the following:

* Period of exposure
* Type of exposure – Ironising / Non Ironising.
* Propagation Type – I.E – Paging Antenna, DAB Antenna, Panel Antenna
* Area most likely affect – Has the engineer been directly exposed to the head / torso.

Should the engineer have any pre existing medical conditions (diabetic / other illness) details of this would need to be provided to the emergency services upon their arrival.

After the engineer has received treatment, a report will be compiled by the company H&S Consultant, for issue to Clients, Infrastructure Providers & the HSE. All site attendees will be contacted and questioned, regarding the event and details requested regarding how and why the incident occurred. This report shall be issued within 24 hours of the event.

**This document is not exhaustive and should be read in conjunction with other policies provided by network suppliers, and infrastructure companies; relevant to the infrastructure being worked on at that time.**