
Cellular Phone Antennae Guidelines

Information Technology Services Policy

1 Purpose

The purpose of these guidelines is to provide a safe environment by defining parameters for the installation of cellular phone antennae.

Potential health hazards have been identified from the effects of radiofrequency radiation. These hazards need to be minimised by the implementation of effective controls consistent with the current knowledge of radiofrequency radiation hazards.

Cell phone antennae may be hosted by the University to provide mobile phone coverage. Guidelines and conditions for hosting antennae will be set by the University.

2 Organisational Scope

These are University-wide guidelines.

3 Definitions

For purposes of these guidelines, unless otherwise stated, the following definitions shall apply:

Cellular Phone Antenna(e):	Any aerial(s) and associated equipment used for the purpose of providing mobile phone coverage.
Exposure Level:	The extent of exposure to radiofrequency radiation.
Radiofrequency:	Any frequency at which electromagnetic radiation is useful for telecommunication. In these guidelines radiofrequency refers to the frequency range 300Hz – 300GHz

4 Guidelines Content and Guidelines

4.1 Exposure Levels

- (a) The University and the cellular phone antennae providers are guided by the national standard. However, the University also acknowledges that there are potential radiation health hazards which must be minimised. Accordingly every endeavour will be made to ensure that emissions are kept to the lowest practical level by reviewing calculated radiation levels and methodology of any new installation prior to any proposal proceeding, and by continued monitoring after installation.
- (b) Notwithstanding the recommended power radiation levels permitted under international standards, the University will not permit any changes or new installations on its grounds or property that lead to exposure levels measured in any location on

University property above $3.0 \mu\text{W}/\text{cm}^2$. This limit represents 0.66% of the New Zealand Standard 2772.1:1999 maximum exposure limit of $450 \mu\text{W}/\text{cm}^2$.

4.2 Installation

- (a) Consideration will be given to the location of specific antennae in order to minimise exposure levels in occupied areas in line with clause 10(d) of New Zealand Standard 2772.1:1999. Before installation of a site, or modification to an existing site, estimated worst-case and typical exposure levels in offices and other occupied work areas shall be given to the University Health and Safety Committee for review.
- (b) Where antennae are mounted on rooftops or other areas where access directly in front of the antennas is possible, adequate signage/barriers shall be installed to prevent inadvertent exposures above the public exposure limits in NZS 2772.1.1999.
- (c) Antenna installations shall be designed to blend in with the surrounding environment as much as possible.
- (d) Preference will be given to roof top sites such as the tops or sides of plant rooms or structures when selecting and configuring sites.
- (e) Antennas shall be positioned at the maximum possible distance from occupied spaces.
- (f) Multiple lower power sites should be used rather than a smaller number of higher power installations if appropriate.
- (g) Optimisation of transmit power to be just sufficient to achieve the require coverage.

4.3 Monitoring

- (a) The University will conduct 6 monthly monitoring around cell site installations to check the exposure levels on all campuses. Exposure levels in occupied areas (offices, laboratories) should be consistent with exposure levels at other urban sites. For perspective, measurements by the National Radiation Laboratory at other sites in New Zealand may be used for reference.
- (b) After a new site is commissioned, or significant changes made to an existing site (for example, change in frequency, or increase in normal power output), exposure levels will be measured by the University to ensure that the maximum exposure level has not been exceeded.

4.4 Staff Notification

Where an installation has been approved by the University, staff will be notified at least ten working days, in advance of the scheduled date of the installation.

4.5 Review Period

The guidelines will be reviewed every two years as part of the cyclical review of University policy or more frequently when significant developments occur in relation to cell phone antennae installations.

5 Legislative Compliance

Though the University is required to manage its policy documentation within a legislative framework; there is no specific legislation directing these guidelines.

6 References

[Environmental Policy](#)

New Zealand Standard 2772: Part 1:1999, Radiofrequency Fields, Part 1 – Maximum Exposure Levels – 3 kHz to 300 GHz.

Previous version: [Cellular Phone Antennae Guidelines](#)

7 Appendices

None

8 Approval Agency

Vice-Chancellor

9 Contact Person

The following person may be approached on a routine basis in relation to these guidelines:

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