

## FACTSHEET – 500m setback (incl New Hampshire Comm)

### INTRODUCTION

One of the first arguments to use in objecting to a mast is “SITING and APPEARANCE”.

When considering SITING, it is a good idea to draw on local knowledge (or a map) to see what is close to the proposed site (see below on how to measure distances). As well as the aesthetics, and whether it will adversely affect the “visual amenity”, most people are concerned about potential risks to health for those living, working etc close to a mast. This is where the “500m setback” argument comes in.

In 2019, a Commission on 5G was set up by legislature in New Hampshire, USA. It was the first legislation passed in the United States calling for the formation of a Commission to explore the health effects of 5G. The findings were published Nov-2020, and on the back of this, a Bill was introduced requiring a setback of 500m as a protective distance from mast radiation. See below for more details.

### RELATED FACTSHEETS

#### **\*\* FACTSHEET – Real-life 5G case studies (Hardell, Nilsson, Sweden)**

The case studies look at the effect of humans living / working close to 5G antennae. Setbacks from the antennae are mostly well within the 500m, so would be good argument to use in objections.

### 500m SETBACK ARGUMENT

#### **\*\* Limiting Liability with Positioning to Minimise Negative Health Effects of Cellular Phone Towers - Joshua M Pearce 2019**

[https://www.researchgate.net/publication/337624982\\_Limiting\\_liability\\_with\\_positioning\\_to\\_minimize\\_negative\\_health\\_effects\\_of\\_cellular\\_phone\\_towers](https://www.researchgate.net/publication/337624982_Limiting_liability_with_positioning_to_minimize_negative_health_effects_of_cellular_phone_towers)

Joshua Pearce (Engineer Michigan Technical University) is warning Telecoms of increasing liability claims and is advising Telecoms to take heed and recommends not placing masts within 500m of schools and hospitals. He states *“There is a large and growing body of evidence that human exposure to RFR from cellular phone base stations causes negative health effects including both i) neuropsychiatric complaints such as headache, concentration difficulties, memory changes, dizziness, tremors, depressive symptoms, fatigue and sleep disturbance; and ii) increased incidence of cancer and living in proximity to a cell-phone transmitter station”*

### NEW HAMPSHIRE, USA

#### **New Hampshire Commission Study December-2020 (USA)**

In 2019, the New Hampshire state legislature created a Commission to study the environmental and health effects of 5G technology. The study was conducted over a period of a year, and the **New Hampshire HB522 Commission on 5G** published their findings in November 2020. The commission found that wireless radiation is harmful and recommended 1,640 feet (500 meters) as a realistic protective distance against radiation from masts. *(Note: it was formed through legislation.)*

The commission comprised a 13-strong team of experts in epidemiology, occupational health, toxicology, physics, electromagnetics, biostatistics, medicine, public health policy, business and law, plus one wireless industry expert. All except the industry rep agreed RF radiation coming from wireless devices affects humans, animals, insects and plants, and poses a significant threat to human health and the environment.

The commission wrote: “There is mounting evidence that DNA damage can occur from radiation outside of the ionizing part of the spectrum. The Commission heard arguments on both sides of this issue with many now saying there are findings showing biological effects in this range. This argument gets amplified as millimetre waves within the microwave range are beginning to be utilized.”

#### **FINAL report =**

<http://emfsafetynetwork.org/wp-content/uploads/2020/11/NH-State-5G-final-report-2020.pdf>

ALSO AT

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- <http://www.qencourt.state.nh.us/statstudcomm/committees/1474/reports/5G%20final%20report.pdf>
- <https://www.fcc.gov/ecfs/document/1022201706198/1>

**Articles =** <https://ehtrust.org/new-hampshire-legislature-votes-to-study-cell-tower-setback-bill/>

<https://rfinfo.co.uk/new-hants-commission/>

<https://ehtrust.org/new-hampshire-state-report-on-health-and-environmental-effects-of-5g-and-wireless-radiation/>

<https://ehtrust.org/science-health-facts-cell-towers-should-be-setback-from-homes-and-schools-dr-kent-chamberlin/>

**VIDEOS =**

**Video of Interview with commission member Kent Chamberlin discussing the report (60 mins)**

<https://www.youtube.com/watch?v=WqKqpKPIE8>

**Video of commission member Kent Chamberlin discussing NH Commission Setback Justification 28-Dec-2021 (20 mins)** <https://www.youtube.com/watch?v=DWK74ie7krc> (includes link to SLIDES) 😊😊

**Slides =** <http://www.unh.edu/ece/NHCommission/Justification%20for%20500%20m%20Setback.pdf>

**Video of Dr. Kent Chamberlin on the New Hampshire 5G Commission Findings and Wireless Safety (2022) (60 mins)** <https://www.youtube.com/watch?v=t85QgvfKNkE> (Explains how the commission was conducted)

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### HOW TO USE in AN OBJECTION

Although neither the New Hampshire Commission (now a Bill) nor the Hardell-Nilsson case studies (see separate factsheet) are in the UK, these are both strong arguments to use when objecting to a mast. The Commission recommendation was evidence based, and such evidence is globally applicable. Biology is biology wherever one lives.

So,

- list local places which are within 500m from the proposed mast site. It is a good idea to give the approx. distances between each place and the mast,  
eg. XXXX School (200m)  
Houses on YYYYY Street (50m)  
Places to consider include \* schools and other educational establishments, \* nurseries \* nursing / care / retirement homes, \* hospitals, maternity wards, medical/health centre, hospices, \* special accommodation \* churches \* residences and businesses \* shops, supermarkets, libraries (where footfall is high), \* community centres including sports centres, \* historic landmarks \* playgrounds, parks, conservation areas, \* ETC
- then emphasise the relevance of the 500m, by referencing the New Hampshire info (and Joshua Pearce)
- also reference the Hardell-Nilsson studies, which give distances from antennae (most of which are within the 500m).