

Is it harmful to power a communication base station upstairs

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Do mobile phones need a base station?

Mobile phones and other mobile devices require a network of base stations in order to function. The base station antennas transmit and receive RF (radio frequency) signals, or radio waves, to and from mobile phones near the base station. Without these radio waves, mobile communications would not be possible.

Why do we need more base station antennas?

As the number of mobile devices in a community grows, more base stations are needed. For that reason, more antennas are needed in such crowded locations as shopping malls where there are many mobile phone users. However, the shorter the distance between base station antennas, the lower the output power of each antenna.

How much exposure can a radio base station have?

On the ground, in houses, and other places where people reside, the exposure levels from radio base stations are normally below 1 percent of the limits. Only in the close vicinity of the antennas can the exposure limits sometimes be exceeded.

Do base station antennas affect humans?

The effects are radiofrequency sickness, cancer and changes in biochemical parameters. Similar effects from RF by different sources reinforce the conclusions of this review. The objective of this work was to perform a complete review of the existing scientific literature to update the knowledge on the effects of base station antennas on humans.

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o The power density of the radio waves incident on the body is a good measure of whole body exposure. o Guidelines advise reference levels of either 4.5 or 9 watts per square metre depending on ...

They are typically equipped with multiple antennas to cover large areas, ensuring mobile communication services are available. While these towers are beneficial, they do come with potential ...

When cellular and PCS antennas are mounted on rooftops, RF emissions could exceed higher than desirable

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guideline levels on the rooftop itself, even though rooftop antennas usually ...

Are base stations dangerous to the surrounding community? No. So far, there is no evidence that indicates that base stations are dangerous to the surrounding community.

Mobile towers are essential for maintaining reliable communication networks in our increasingly connected world. However, their presence in residential areas raises significant health ...

Where a base station is installed on top of a building where people live or work, those people are usually quite unaware that there is a cell site close by, and of the high levels of radiation that they are ...

Base Stations Enable Mobile Communications Antennas Are Placed in Various Locations More Mobile Devices Means More Base Stations Base Station Output Power Is Low Exposure Limits Are Set by Independent Organizations Exposure Levels Are Much Lower Than The Limits Public Access Is Restricted Where Needed No Adverse Health Effects According to The Who Independent expert organizations have established exposure limits for radio waves based on many years of research. These limits include large safety margins. The World Health Organization (WHO), among others, recommends exposure limits which are adopted by national authorities. See more on ericsson .sb_doct_txt{color:#4007a2;font-size:11px;line-height:21px;margin-right:3px;vertical-align:super}.b_dark .sb_doct_txt{color:#82c7ff} consumerconnectng [PDF] FREQUENTLY ASKED QUESTIONS ON HEALTH AND SAFETY ... Are base stations dangerous to the surrounding community? No. So far, there is no evidence that indicates that base stations are dangerous to the surrounding community.

This first study of symptoms experienced by people living near base stations shows that, in view of radio protection, the minimum distance of people from mobile phone base stations should not be < 300 m.

The results of this review show three types of effects by base station antennas on the health of humans: radiofrequency sickness, cancer and changes in biochemical parameters (Fig. 1).

Mobile phone base stations and health | ARPANSA Based on current research there is no established scientific evidence to support exposure to the low-level RF EME from mobile phone base station ...

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