How far away from the communication base station is the wind power safe

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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.

How much RF exposure should a cell site transmitter have?
In the case of cellular and PCS cell site transmitters, the FCC's RF exposure guidelines recommend a maximum permissible exposure level to the general public of approximately 580 microwatts per square centimeter.

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.

What happens if a PCs transmitter is near a cellular antenna?
As with all forms of electromagnetic energy, the power density from a cellular or PCS transmitter rapidly decreases as distance from the antenna increases. Consequently, normal ground-level exposure is much less than the exposure that might be encountered if one were very close to the antenna and in its main transmitted beam.

Wind power developers are pro-active in the early planning stages of facilities to quantify and minimize any disruption to existing telecommunications networks

The intensity of the radio waves is drastically reduced as the distance increases from the base station antenna. On the ground, in houses, and other places where people reside, the exposure levels from ...

To be sure that you are reducing the exposure levels to 0.5 milligauss (mG) or less, a safety distance of 700 feet may be needed. It could be much less, but sometimes more. You must test with a ...

Wind power is one of the fastest-growing technologies for renewable energy generation. Unfortunately, in the

recent years some cases of degradation on certain telecommunication systems have arisen.

Reasonable distance between communication towers and wind turbine towers is a function of two things: (1) the physical turning radius of the wind turbine blades and (2) the characteristics of the ...

Measurements made near typical cellular and PCS cell sites have shown that ground-level power densities are well below the exposure limits recommended by RF/microwave safety ...

Base station antennas add load to the towers not only due to their mass, but also in the form of additional dynamic loading caused by the wind. Depending on the aerodynamic efficiency of the ...

At present, many domestic islands, mountains and other places are far away from the power grid, but due to the communication needs of local tourism, fishery, navigation and ...

This paper describes how these problems can be identified and avoided during the design and site selection of the wind power facilities through analysis and measurement methods used successfully ...

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