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T-MOBILE CELL PHONE RADIATION REPORT FOUND EFFECTS AND RECOMMENDED PRECAUTION

May 30, 2022

8 Recommendations

8.1 Precautionary Health Protection in Relation to Exposures to Electromagnetic Fields of Mobile Telecommunications

With mobile telecommunications we have to differentiate to exposure situations:

- exposure of residents near base stations
- exposure of mobile users when using the devices

To limit exposure to an acceptable degree, if this is possible at all, there need to be different strategies for the two different exposure groups.

Exposures from Base Stations

In humans, harmful organic effects of high frequency electromagnetic fields as used by mobile telecommunications have been demonstrated for power flux densities from $0.2\text{W}/\text{m}^2$ (see Chapter 7). Already at values of $0.1\text{W}/\text{m}^2$ such effects cannot be excluded. If a security factor of 10 is applied to this value, as it is applied by ICNIRP and appears appropriate given the current knowledge, the precautionary limit should be $0.01\text{W}/\text{m}^2$. This should be rigorously adhered to by all base stations near sensitive places such as residential areas, schools, nurseries, playgrounds, hospitals and all other places at which



Wireless companies have long been aware of the scientific research showing effects at low levels.

In fact, in 2000 T-Mobile and Deutsche Telekom released a research review they had commissioned known as the [Ecolog Report](#) which concluded effects such as DNA damage, impacts to the immune system, impacts to hormones, cancer,

headaches, exhaustion, lack of concentration, sleep disturbances and more. The study concluded by recommending precaution.

“Given the results of the present epidemiological studies, it can be concluded that electromagnetic fields with frequencies in the mobile telecommunications range do play a role in the development of cancer.”

Chapter Eight in the [Ecolog Report](#) recommended precautionary policies such as: a precautionary limit for base station antenna exposures of 0.01W/m². *“This should be rigorously adhered to by all base stations near sensitive places such as residential areas, schools, nurseries, playgrounds, hospitals and all other places at which humans are present for longer than 4 hours.”*

“A particular problem in this exposure group is posed by children and adolescents, not only because their organism is still developing and therefore particularly susceptible, but also because many adolescents have come to be the most regular users of mobile phones.”

Theodora Scarato of [Environmental Health Trust](#) pointed out that regarding teenagers the report recommended that:

“Advertising towards this population group should be banned. Furthermore, particular efforts should be made to lower the exposures during calls. It would be recommendable to conduct (covert) advertising campaigns propagating the use of headsets. It would also be important to develop communications and advertising aiming at minimizing the exposures created by carrying mobile phones in standby mode on the body.

Regarding cancer:

“In some years epidemiological studies will hit a different obstacle: once base stations cover the entire country and a large proportion of the population use a mobile phone, it will become difficult to find the necessary unexposed control groups.”

Regarding impacts to the nervous system:

“Effects of high frequency electromagnetic fields on the central nervous system are proven for intensities well below the current guidelines. Measurable

*physiological changes have been demonstrated for intensities from 0.5 W/m².
Impairments of cognitive functions are proven for animals from 2W/m².”*

Wireless companies warn their shareholders about the risk, but not the people who buy their products or live near their cell antennas.

As publicly traded companies, most telecom firms issue annual 10K reports to the US Securities and Exchange Commission, and mobile operator reports have consistently identified potential liabilities for health damages from radiofrequency emissions as a risk. They provide no safety assurances.

T-MOBILE ANNUAL REPORTS

2020 Report

“We, along with equipment manufacturers and other carriers, are subject to current and potential future lawsuits alleging adverse health effects arising from the use of wireless handsets or from wireless transmission equipment such as cell towers. In addition, the FCC has from time to time gathered data regarding wireless device emissions, and its assessment of the risks associated with using wireless devices may evolve based on its findings. Any of these allegations or changes in risk assessments could result in customers purchasing fewer devices and wireless services, could result in significant legal and regulatory liability, and could have a material adverse effect on our business, reputation, financial condition, cash flows and operating results.”

2019 Report

“Our business could be adversely affected by findings of product liability for health or safety risks from wireless devices and transmission equipment, as well as by changes to regulations or radio frequency emission standards.

We do not manufacture the devices or other equipment that we sell, and we depend on our suppliers to provide defect-free and safe equipment. Suppliers are required by applicable law to manufacture their devices to meet certain governmentally imposed safety criteria. However, even if the devices we sell meet the regulatory safety criteria, we could be held liable with the equipment manufacturers and suppliers for any harm caused by products we sell if such products are later found to have design or manufacturing defects. We generally seek to enter into indemnification agreements with the manufacturers who supply us with devices to protect us from losses associated with product liability, but we cannot guarantee that we will be protected in whole or in part against losses associated with a product that is found to be defective.

Allegations have been made that the use of wireless handsets and wireless transmission equipment, such as cell towers, may be linked to various health concerns, including cancer and brain tumors. Lawsuits have been filed against manufacturers and carriers in the industry claiming damages for alleged health problems arising from the use of wireless handsets. In addition, the FCC has from time to time gathered data regarding wireless handset emissions and its assessment of this issue may evolve based on its findings. The media has also reported incidents of handset battery malfunction, including reports of batteries that have overheated. These allegations may lead to changes in regulatory standards. There have also been other allegations regarding wireless technology, including allegations that wireless handset emissions may interfere with various electronic medical devices (including hearing aids and pacemakers), airbags and anti-lock brakes. Defects in the products of our suppliers, such as the 2016 recall by a handset original equipment manufacturer of one of its smartphone devices, could have a material adverse effect on our business, financial condition and operating results. Any

of these allegations or risks could result in customers purchasing fewer devices and wireless services, and could also result in significant legal and regulatory liability. Additionally, there are safety risks associated with the use of wireless devices while operating vehicles or equipment. Concerns over any of these risks and the effect of any legislation, rules or regulations that have been and may be adopted in response to these risks could limit our ability to sell our wireless services.”

-T Mobile filed 12-31-19 (on Page 18)

See also

- [2017 T Mobile Annual Report](#)
- [2016 Form T Mobile 10-K Annual Report](#)



TEN YEAR REPORT



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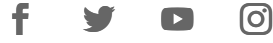
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