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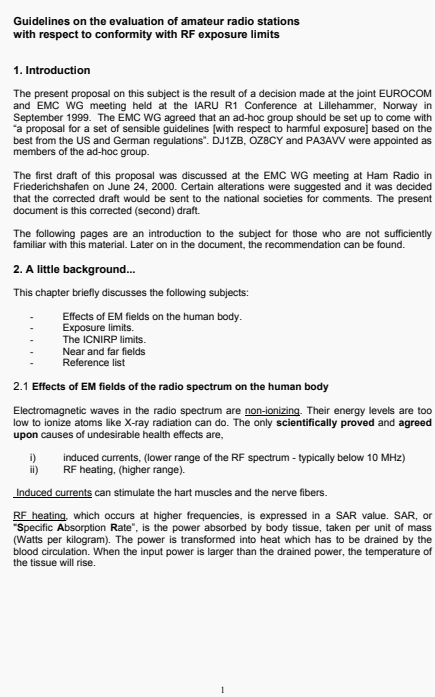
Seitenbild	

Guidelines on the evaluation of amateur radio stations with respect to conformity with RF exposure limits

1. Introduction

The present proposal on this subject is the result of a decision made at the joint EUROCOM and EMC WG meeting held at the IARU R1 Conference at Lillehammer, Norway in September 1999. The EMC WG agreed that an ad-hoc group should be set up to come with "a proposal for a set of sensible guidelines [with respect to harmful exposure] based on the best from the US and German regulations". DJ1ZB, OZ8CY and PA3AVV were appointed as members of the ad-hoc group.

The first draft of this proposal was discussed at the EMC WG meeting at Ham Radio in Friederichshafen on June 24, 2000. Certain alterations were suggested and it was decided that the corrected draft would be sent to the national societies for comments. The present document is this corrected (second) draft.

The following pages are an introduction to the subject for those who are not sufficiently familiar with this material. Later on in the document, the recommendation can be found.

2. A little background...

This chapter briefly discusses the following subjects:

- Effects of EM fields on the human body.
- Exposure limits.
- The ICNIRP limits.
- Near and far fields
- Reference list

2.1 **Effects of EM fields of the radio spectrum on the human body**

Electromagnetic waves in the radio spectrum are non-ionizing. Their energy levels are too low to ionize atoms like X-ray radiation can do. The only **scientifically proved** and **agreed upon** causes of undesirable health effects are,

i) induced currents, (lower range of the RF spectrum - typically below 10 MHz)
ii) RF heating, (higher range).

Induced currents can stimulate the hart muscles and the nerve fibers.

RF heating, which occurs at higher frequencies, is expressed in a SAR value. SAR, or "**S**pecific **A**bsorption **R**ate", is the power absorbed by body tissue, taken per unit of mass (Watts per kilogram). The power is transformed into heat which has to be drained by the blood circulation. When the input power is larger than the drained power, the temperature of the tissue will rise.

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Seitenschutz

Bearbeiten	Alle Benutzer (unbeschränkt)
Verschieben	Alle Benutzer (unbeschränkt)
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Das Seitenschutz-Logbuch für diese Seite ansehen.

Versionsgeschichte

Versionsgeschichte

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