



International Amateur Radio Union Region 1

Europe, Middle East, Africa and Northern Asia

Founded 1950

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1_ WPT: Wireless Power Transfer :

A_ Very high power: We have been informed that Space Advanced projects for high energy supply have been studied by space companies for the purpose of R&D: we don't currently know whether practical applications will be available. These applications would be mostly use to power certain isolated system devices located offshore or in uninhabited areas.

B_ Medium and low power: So far we don't have a specific report from French radio amateurs for perturbations due to WPT.

Even the ITU's draft of recommendations could be taken into consideration; our position is not favorable for the development of WPT: EMC perturbations for radio services will occur, due to the high power level.

We consider that the primary aim of wireless is to transfer information for communications, and perhaps for very low power supply transfers, but only when necessary.

2_ PLC: Power Line Carrier:

No validated specific problem has been noticed, so far, for CEM/REF.

However, a new model of domestic power meters will be installed in France for the next years.

These meters, called "LINKY", will transfer data by the mean of PLC.

Some installation experiments are in progress in various areas.

Even if these devices are not be a drastic QRM generator for Radio Amateur's bands, care should be taken to ensure the devices, when generally distributed, are fully in accordance with the specifications particularly by staying in the LF bands.

3_ "On the field" report for Digital and Domestic EMC:

_ LEDs can generate EMC problems, but there has been no particular case detected by REF/C7_

_ The photovoltaic layers can generate EMC problems, but there has been no particular case detected by REF/C7

_ Some Photovoltaic switchers are suspected to generate strong EMC problems at night when they are widely active. Such a situation has already been detected. It is assumed that many cases will occur due to the wide deployment of such devices in the future.

_ A power supply for a remote wireless phone for TV sets caused EMC problems: the poor quality of the device is the root cause of the QRM: it did not respect the CE specification, even though the CE

logo is stamped on the box... Solutions: 1_Replace the device/ 2_ take action against deviant C.E. logos.

_A new design of Chemist' shop neon sign was responsible for all HF QRM bands; this situation is on the way to be amicably solved.

_Public lights using sodium vapor bulbs can generate EMC problems: reported for information only.

_A domestic ventilation model was incriminated for EMC problems. Several actions have been asked from the supplier in order to reach an EMC compliance to the CE marking without any answer. A final recall has been made that we could obtain from official complaints that all models already installed could be forced to be retrieved with a prohibition of this model from the market.

In this case, an immediate replacement by a non radiating device has been obtained.

_ The new digital control for lift machinery has been verified through official measurements to cause unacceptable troubles in the reception of many radio amateurs' bands; One case has been confirmed: REF has sent a complaint letter to the lift machine company "OTIS". No answer yet...

We should point out that a new specification for lift cabin position accuracy is now in application status in France. Motors and digital switchers have been re designed: some of them seem to be outside of the EMC specifications.

_ For many low cost equipments, some RFI components (chokes, inductances, filtering capacitors, shielding components) could be considered as optional components during some periods of production for some manufacturers. This is not acceptable without specific justification. This topic should be discussed during the meeting for such situations: what could be the IARU/C7 position and what could be the actions against these manufacturers? Note that some of these manufacturers use do disappear frequently.

4 _ Standard EN-50561-1 versus new radio amateur bands_

We just have a question: what is the status of the release of the standard according to the new radio amateur bands?

Note: Unfortunately, for France the expected new 5 MHz band is very narrow: 5351, 5 kHz to 5366, 5 kHz

5 Partnership with the French official service "ANFR"

(ANFR : "Agence Nationale des FRéquences")

ANFR service cooperation with French radio amateurs is working well, including REF members.

The partnership with REF is OK.

Nevertheless, a remark should be made: we would appreciate more positive support from ANFR; Amateur service should be considered as a "true service" as it is defined in the RR of ITU, but this concept needs a bit more help from ANFR even if we are not supported by a professional activity. Our own resources are not so vast.