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| U.S. Radiocommunications Sector  Fact Sheet | |
| **Working Party:** ITU-R WP 1A | **Document No:** USWP1A23\_19\_rev4(final) - PDR Question 210-3\_1 on WPT.docx |
| **Ref:** Question ITU-R 210-3/1 | **Date:** 08 August 2021 |
| Document Title: Updates to the “Preliminary Draft Revision of Question ITU-R 210-3/1”, Wireless power transmission. | |
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| **Purpose/Objective:** Proposal to make changes to the *Preliminary Draft Revision of Question 210-3/1* in order to clearly indicate intent. | |
| **Abstract:** In the last meeting proposals were made to update the *Preliminary Draft Revision of Question 210-3/1*. The resultant document was attached as Annex 1 to the Chairman’s Report and carried forward. As currently presented, some of the verbiage is unclear and bracketed text needs resolved. This contribution proposes clarifying text to help convey appropriate intent. | |

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| **Radiocommunication Study Groups** |  |
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| Received: Date 2021  Subject: Question [ITU-R 210-3/1](https://www.itu.int/pub/R-QUE-SG01.210) | **Document XX/-E** |
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| **English only** |
| **United States of America** | |
| Proposed Revisions TO the Preliminary Draft Revision of Question ITU-R 210-3/1 | |

**Background**

Annex 1 of the Chairman’s Report of the May / June 2021 Meeting is the *Preliminary Draft Revision of Question ITU-R 210-3/1*. In the last meeting several proposed updates to the Preliminary Draft Revision were submitted and reviewed without resolution.

**Discussion**

The newly proposed *considering d* states, “that WPT does not have any status in the Radio Regulations (RR);” The newly proposed *considering f* then continues to state under which parts of the radio regulations that WPT applies (RR No. 15.12 or RR No. 15.13). Given that these two *considerings* appear to be in direct conflict, further clarification of *considering d* is required or else *considering d* should be deleted.

Finally, the bracketed text deals in both the *considering* and *decides* sections deals specifically with classification of WPT. It has already been discussed extensively that WPT can be classified differently (either as ISM or as a radio) by various administrations. These classifications might occur based on specific characteristics of a given WPT system as determined by administrations. Accordingly, it is unnecessary to seek global consensus on general classification of WPT in the form of a question.

**Proposal**

The United States proposes the following summary of changes to the *Preliminary Draft Revision of Question ITU-R 210-3/1*:

* **Either modify the newly proposed *considering d* to be clear or delete *considering d*.**
* **Delete the bracketed text.**

**Attachment:** Proposed revisions to the Preliminary Draft Revision of Question ITU-R 210-3/1

**Attachment**

**Proposed revisions to the PRELIMINARY DRAFT REVISION OF QUESTION ITU-R 210-3/1**

[**USA Note:** Proposed changes in this contribution to Annex 1 of the Chairman’s report are indicated as “USA” and highlighted in blue. No further changes proposed prior to this point.]

Editor's note 20210530: Compilation of offline comments against Annex 1 of Doc. 1A/73

The ITU Radiocommunication Assembly,

considering

*a)* that wireless power transmission (WPT) is defined as the transmission of power from a power source to an electrical load wirelessly using an electromagnetic field;

*b)* that technology is under development to transfer power efficiently from one location to another using wireless methods;

*c)* that such WPT technologies may be useful in several applications including solar power, airborne platforms, lunar stations, electric vehicles, Internet of Things (IoT) devices and wireless charging of mobile / portable devices;

*d)* that WPT is not a defined radio service in the Radio Regulations (RR);

*e)* that no frequency bands have been specifically associated with WPT technology;

*f)* that WPT is considered to be one of the electrical apparatus that are referred to in RR No. **15.12** or industrial, scientific and medical (ISM) equipment referred to in RR No. **15.13**[[1]](#footnote-1)\*\*\*;

*g)* that issues of non-ionizing radiation exposure related to systems employing WPT technologies are dealt with by such organizations as the World Health Organization (WHO) and the International Radiation Protection Association (IRPA)/International Commission on Non‑ionizing Radiation Protection (ICNIRP);

*h)* that WPT technologies utilize various mechanisms, such as transmission via radio frequency beams, inductive, resonant and capacitive coupling;

*i)* that technical characteristics have been developed for various WPT applications and technologies;

*j)* that some WPT applications using these characteristics have already been deployed;

[**USA Note:** The USA proposes deleting the bracketed text considering h-j and decides 1 below.]

decides that the following Questions should be studied and Reports or Recommendations developed as appropriate

[**USA Note:** No further changes proposed.]

1. \*\*\* RR No. **15.12**: *Administrations shall take all practicable and necessary steps to ensure that the operation of electrical apparatus or installations of any kind, including power and telecommunication distribution networks, but excluding equipment used for industrial, scientific and medical applications, does not cause harmful interference to a radiocommunication service and, in particular, to a radionavigation or any other safety service operating in accordance with the provisions of these Regulations.*

   RR No. **15.13**: *Administrations shall take all practicable and necessary steps to ensure that radiation from equipment used for industrial, scientific and medical applications is minimal and that, outside the bands designated for use by this equipment, radiation from such equipment is at a level that does not cause harmful interference to a radiocommunication service and, in particular, to a radionavigation or any other safety service operating in accordance with the provisions of these Regulations.* [↑](#footnote-ref-1)