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|  | **Radiocommunication Study Groups** | |  |
| **INTERNATIONAL TELECOMMUNICATION UNION** | |  | |
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| Source: Doc. 1A/TEMP/44 (edited) | | **Document 1B/120-E** | |
| **25 November 2016** | |
| **English only** | |
| Working Party 1A | | | |
| Note from the Chairman of Working Party 1A to the Chairman of Working Party 1B | | | |
| Candidate frequency ranges and related information for Wireless Power Transmission (WPT) impact studies | | | |

Document [1A/139](http://www.itu.int/md/R15-WP1A-C-0139/en) (Document 1B/118) clarifies the division of work between Working Party (WP) 1A and WP 1B on Wireless Power Transmission (WPT) issues. WP 1A is tasked with liaising technical and operational information to WP 1B so that WP 1B may develop impact studies, CPM text and suitable harmonized frequency ranges for WPT, in particular WPT for EV in accordance with [Res. **958 (WRC-15)** Annex item 1](http://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000C0024PDFE.pdf). Accordingly, the Chairman of WP 1A respectfully informs the Chairman of WP 1B of the following documents that contain technical and operational and related information:

– Report [ITU-R SM.2303](http://www.itu.int/pub/R-REP-SM.2303) *Wireless power transmission using technologies other than radio frequency beam* contains a wealth of technical and operational information that may be useful for the studies of WP1B. It may be noted that this report is currently being updated.

– Draft new Recommendation ITU-R SM.[WPT] *Frequency ranges for global or regional operation and Human Hazards of non-beam Wireless Power Transmission (WPT) systems* (Annex 4 to Document 1A/60) in particular *considering e)* and *recommends* 1.

– Liaison Statements from WP 6A Document [1A/86](http://www.itu.int/md/R15-WP1A-C-0086/en), WP 1A Document [1A/90](http://www.itu.int/md/R15-WP1A-C-0090/en), WP 7D Document [1A/92](http://www.itu.int/md/R15-WP1A-C-0092/en) and WP 5C Document [1A/130](http://www.itu.int/md/R15-WP1A-C-0130/en) which ask for steps to be taken to ensure the protection of radio services.

Information in the above mentioned documents shows that candidate frequency bands or individual frequencies for WPT:

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| Proposed Frequency range |
| 19-21 kHz |
| 59‑61 kHz |
| 79‑90 kHz |
| 100‑300 kHz |
| 6 765‑6 795 kHz Note: See RR No. **5.138** |

In the listed above documents WP 1A has compiled or received technical requirements for WPT systems as follows:

1 Section 4 of Report ITU-R SM.2303 details various national and international standard bodies, including IEC-CISPR, and their associated standards that are applicable to WPT systems. It should be noted that this report is currently being updated and WP 1A will inform WP 1B of progress in this respect.

2 ETSI (Document [1A/99](http://www.itu.int/md/R15-WP1A-C-0099/en)) presented the formation of draft Harmonised Standard EN 303 417, which has triggered the drafting of a new system reference document TR 103 493 to be delivered to CEPT for study. WP 1B is also invited to note that the ETSI EN 303 417, is only in final approval process and may still be subject to change. Should WP 1A receive information indicating that there are changes in the final ETSI EN 303 417, it will communicate this new information to WP 1B for consideration.

3 ETSI (Document 1A/99) also presented System reference document TR 103 409, for Electric Vehicles, has been delivered to CEPT for study. Should WP 1A receive information on the development of this work, it will communicate this new information to WP 1B for consideration.

WP 1A notes that there are a number of radio services to be considered and protected including some that have not previously been considered, if any. WP 1A further notes that section 7 of Report ITU-R SM.2303 is titled “Status of co-existence studies between WPT and radiocommunication services, including the radio astronomy service” contains information which may be usefully considered during the studies of WP 1B.

WP 1B is requested to take account of the above when undertaking the WPT related tasks within its purview, and to update WP 1A on their progress.

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