**3GPP TSG-RAN WG4 Meeting #116bis R4-2514579**

**Prague, Czech, 13th – 17th October, 2025**

**Title:** WF on HPUE for FRMCS

**Agenda Item:** 5.5

**Source:** Nokia, Union Inter. Chemins de Fer

**Document for:** Approval

**Agreements:**

Issue 1: Maximum output power for CA

Add a new table UE Power Class for uplink inter-band CA (two bands) for FRMCS in bands n100 and n101. No need to introduce single band PC2 and PC1.5 for bands n100 and n101.

**Table 6.2A.1.3-3: UE Power Class for** **uplink inter-band CA (two bands) for FRMCS in bands n100 and n101**

|  |  |  |
| --- | --- | --- |
| **Uplink CA Configuration** | **Class 1 (dBm)** | **Tolerance (dB)** |
| CA\_n100-n101 | 31 | +2/-3 |
| NOTE: Uplink CA configuration CA\_n100-n101 is allowed only for FRMCS cab-radio’s, i.e. user equipment installed on trains with external antenna on top of the train roof at approximately 4m over ground, with UE having power class 1 capability per band. | | |

Issue 2: Maximum output power for NR\_DC

Add a new table UE Power Class for uplink inter-band NR\_DC for FRMCS in bands n100 and n101. No need to introduce single band PC2 and PC1.5 for bands n100 and n101.

**Table 6.2B.1.3-2: UE Power Class for uplink inter-band NR\_DC for FRMCS in bands n100 and n101**

|  |  |  |
| --- | --- | --- |
| **Uplink NR\_DC Configuration** | **Class 1 (dBm)** | **Tolerance (dB)** |
| DC\_n100-n101 | 31 | +2/-3 |
| NOTE: Uplink NR\_DC configuration DC\_n100-n101 is allowed only for FRMCS cab-radio’s, i.e. user equipment installed on trains with external antenna on top of the train roof at approximately 4m over ground, with UE having power class 1 capability per band. | | |

Issue 3: MPR

No new MPR.

Issue 4: A-MPR

No new A-MPR.

Issue 2: ACLR

No new ACLR.

Issue 5: MSD

No MSD.