



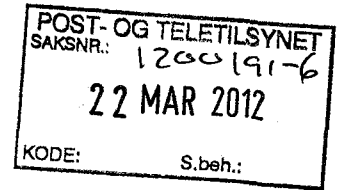
Viestintävirasto
Kommunikationsverket
Finnish Communications
Regulatory Authority

Päivämäärä/Datum/Date

Nro/Nr/No.

20 March 2012

Post- og teletilsynet
Mr. Krzysztof Mazurkiewicz
Postboks 93
N-4791 Lillesand
NORGE



Vilte
Ref.
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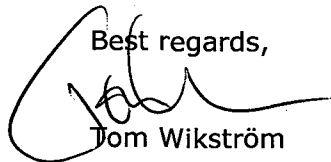
Asia
Ärende
Subject

Coordination Agreement for the 800 MHz band

Dear Mr. Mazurkiewicz,

Please find attached a signed copy of the coordination agreement.

Best regards,



Tom Wikström

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Agreement

**between
the Norwegian Post and Telecommunications
Authority
and
the Finnish Communications Regulatory Authority**

**concerning
the use of the 800 MHz-band (790-862 MHz)
for terrestrial systems**

Lillesand 13.03.2012

1. Principles and definitions

- 1.1. The 800 MHz-band, as referred to in this agreement, covers the frequencies from 790 MHz to 862 MHz.
- 1.2. The agreement considers that the use of the band is in accordance with the Commission Decision 2010/267/EU of 6 May 2010, based on the Block Edge Mask spectrum description, with the Frequency Division Duplex (FDD) arrangement. The use of other arrangements such as Time Division Duplex (TDD) is not covered in this agreement.
- 1.3. This agreement is based on the concept of field strength levels.
- 1.4. This agreement covers the co-ordination of the base stations. The user equipment, or terminals, are allowed to be used on non-interfering basis, in accordance with ITU RR 4.4.
- 1.5. For this agreement the border is defined as the land border between Norway and Finland.

2. Use of frequencies without co-ordination by administrations

- 2.1. Norway may use the 800 MHz-band without co-ordination with Finland, if the predicted mean field strength produced by a base station does not exceed **55 dB(μ V/m)/5 MHz** at a height of 3 m above the ground at the border or beyond.
- 2.2. Finland may use the 800 MHz-band without co-ordination with Norway, if the predicted mean field strength produced by a base station does not exceed **55 dB(μ V/m)/5 MHz** at a height of 3 m above the ground at the border or beyond.
- 2.3. If the bandwidth of the signal is not 5 MHz, then $10 \times \log(\text{bandwidth}/5 \text{ MHz})$ should be added to the field strength threshold values in 2.1 and 2.2.
- 2.4. In cases where LTE is deployed on both sides of the border, the field strength levels described in section 2.1 and 2.2 can be increased to **59 dB μ V/m/5MHz**, if mutually agreed between operators concerned. LTE systems in border areas should use the preferred Physical Cell Identifier provided in Annex 5 of ECC/REC/(11)04.

3. General

- 3.1. If a frequency assignment has to be co-ordinated, the period of co-ordination shall not exceed 45 days from the date an administration receives the request and 20 days after the reminder. If no reply is received after 65 days the frequency assignment shall be considered as co-ordinated.

Agreement between the Norwegian Post and Telecommunications Authority and the Finnish Communications Regulatory Authority concerning the use of the 800 MHz- band (790-862 MHz) for terrestrial systems

- 3.2. The exchange of the co-ordination information shall be in electronic form and sent by e-mail or by other electronic means as appropriate.
- 3.3. Preliminary co-ordination may take place between the operators concerned. The results of such preliminary co-ordination must be approved by the administrations.
- 3.4. A complaint in case of harmful interference shall be based on the median values of measurements of field strength, performed at 3 meter of receiving antenna height at least on two different occasions over a range of at least 100 m along the border.
- 3.5. In the presence of interference, the report of harmful interference shall be presented in accordance with Appendix 10 of the Radio Regulations. The other administration shall take all possible steps in order to eliminate the interference.
- 3.6. The field strength values in this agreement are based on a receiving antenna height of 3 m, 10% of the time and 50% of the locations.
- 3.7. The latest version of ITU-R P.1546 " Method for point-to area predictions for terrestrial services in the frequency range 30-3000 MHz" shall be used.

4. Revision and cancellation

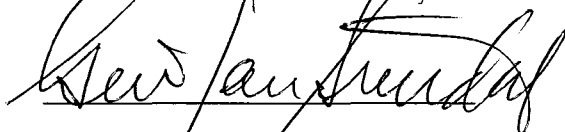
- 4.1. This agreement may be revised or cancelled as desired by one of the administrations with a notice of twelve months.

5. Enter into force

- 5.1. This agreement shall come into effect from date of signature.
- 5.2. This agreement has been drawn in two identical copies, one for Norway and one for Finland.

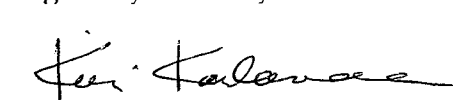
Lillesand, 13.03.2012

For the Norwegian Post and
Telecommunications Authority



Geir Jan Sundal (p.p)
Director of Frequency Management
Department

For the Finnish Communications
Regulatory Authority



Kirsi Karlamaa
Director