

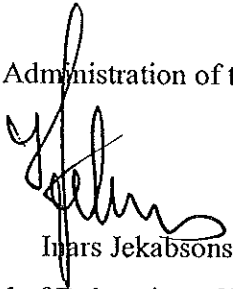
**AGREEMENT ON TECHNICAL CONDITIONS
TO BE APPLIED AT THE STAGE OF IMPLEMENTATION
OF THE DIGITAL BROADCASTING PLAN GENEVA RRC-06**

Administration of Poland and Administration of the Republic of Latvia (hereafter referred as *Parties*), represented by the Heads of Delegations to the Regional Radiocommunication Conference RRC-06, agreed on conditions they will apply at the stage of implementation of the allotments, which are included in the Plan Geneva RRC-06 .

Parties agree that during future implementation of Digital Plan entries the characteristics of the digital transmitting network, implementing the Plan entry, shall be coordinated with the other *Party* if the cumulative interfering field strength from that implementation on the boundary of any existing co-channel entry in the Plan exceeds the values listed in Annex 1

Geneva, 8.06.2006

For Administration of the Republic of Latvia



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For the Administration of Poland



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Annex 1: Method of derivation of the limiting interfering strength values.

Annex 1 to agreement between Latvia and Poland

Derivation of the limiting interfering field strength values

If the cumulative interfering field strength exceeds the values listed in Table 1-4 below on the boundary of any existing co-channel/co-block allotment coordination with the affected administration is needed.

For affected DVB-T it's proposed to use the $E_{\max \text{ int}}$ for RPC2 and for affected T-DAB it's proposed to use the $E_{\max \text{ int}}$ for RPC5.

DVB-T interfered by DVB-T for 200 MHz and 650 MHz respectively

Reference planning configuration	RPC2
Reference location probability	95%
Reference C/N [dB]	19
Reference (E_{med})ref [dB μ V/m] at 200 MHz	67
Reference (E_{med})ref [dB μ V/m] at 650 MHz	78
CF at 200 MHz	13
CF at 650 MHz	13
IM for VHF	3
$E_{\max \text{ int}}$ [dB μ V/m] at 200 MHz	38
$E_{\max \text{ int}}$ [dB μ V/m] at 650 MHz	46

Table 1 $E_{\max \text{ int}}$ for DVB-T interfered by DVB-T

In UHF the value should be adjusted with respect to frequency with $30 \cdot \log(f/f_{650})$, f in MHz.

T-DAB interfered with by T-DAB for 200 MHz

Reference planning configuration	RPC5
Location probability	95%
Reference C/N [dB]	15
Reference (E_{med})ref [dB μ V/m]	66
CF	14.6
IM	2.6
$E_{\max \text{ int}}$ [dB μ V/m]	39

Table 2 $E_{\max \text{ int}}$ for T-DAB interfered by T-DAB

DVB-T interfered by T-DAB for 200 MHz

Reference planning configuration	RPC2
Reference location probability	95%
Protection ratio [dB]	23.6
Reference (E_{med}) _{ref} [dB μ V/m] at 200 MHz	67
CF at 200 MHz	12.8
IM	2.4
$E_{max\ int}$ [dB μ V/m]	33

Table 3 $E_{max\ int}$ for DVB-T interfered by T-DAB

T-DAB interfered with by 7 MHz DVB-T for 200 MHz

Reference planning configuration	RPC5
Location probability	95%
Protection ratio [dB]	9
Reference (E_{med}) _{ref} [dB μ V/m]	66
CF	14.6
IM	2.6
$E_{max\ int}$ [dB μ V/m]	45

Table 4 $E_{max\ int}$ for T-DAB interfered with by 7 MHz DVB-T

Derivation maximum allowable interfering field strength

The maximum allowable interfering field strength, $E_{max\ int}$, at any test point given by the input requirement is calculated as follows:

$$E_{max\ int} = E_{med} + f_{corr} - CF - PR + IM$$

where

E_{med} is the minimum median equivalent field strength (in dB μ V/m) for 200 MHz and 650 MHz, respectively;

f_{corr} is the frequency correction (in dB) for UHF, given by $30 \cdot \log(f/f_{650})$, f in MHz;

CF is the combined location correction factor: $CF = q \sqrt{\sigma_w^2 + \sigma_i^2}$;

q is the distribution factor;

σ_w is the standard deviation of the lognormal distribution of the wanted signal (in dB);

σ_i is the standard deviation of the lognormal distribution of the interfering signal (in dB);

PR is the appropriate protection ratio;

When the interfering system is of the same type as the wanted one, PR is equal to C/N for the wanted system's RPC. PR and C/N are taken from Addendum 12 to Document 7-E, input from CEPT to RRC-06.

IM is the implementation margin (in dB).