

# Bilateral agreement between Norway and Sweden regarding interference handling for DTT in certain areas, especially in the area of Vestfold, Göteborg and Varberg

Measurements and predictions have shown that there is a risk for interference to certain DTT stations and areas in Norway and Sweden due to transmissions from the other country. If such interference appears in reality, it should primarily be handled nationally on each side, since this is generally considered to be the most effective way to mitigate interference. Examples of appropriate mitigation could be establishment of additional stations in the affected areas or changes to ERP or antenna arrangement for existing stations in the affected country. If such changes requires co-ordination agreements these should be treated in good spirit.

For the following specific areas specified actions have been agreed.

In order to reduce the risk of interference to the Vestfold area in Norway from the Swedish station Varberg, it is agreed that Varberg can start transmissions on channel 32 at full ERP (10 kW) immediately but that Sweden will implement a reduction in the form of a beam tilt downwards producing a reduction of the ERP in the horizontal plane with at least 5 dB in the direction of Vestfold (324-340 degrees). This beam tilt shall be in effect no later than May 1st 2011 and it will be applied for the relevant transmitted UHF frequency channels (channels 21, 32, 38 and 45) from Varberg.

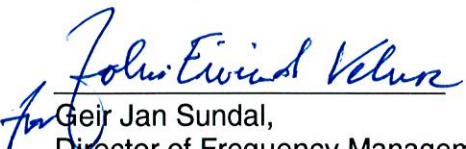
In the Swedish areas Göteborg and Varberg there is a risk for interference from the Norwegian station Kongsberg when the agreed frequency plan is implemented in Norway and Sweden. In case harmful interference is identified in reality it will primarily be handled by Sweden through changes to the Swedish network in the form of additional stations and/or increased ERP to existing stations. If, after the implementation of measures with similar costs as Norway had to implement in the Vestfold area (four new transmitters and an information campaign), Sweden still considers that harmful interference remains, Norway shall when implementing the sixth layer, carry out a reduction of the ERP in the horizontal plane from the station Kongsberg with at least 5 dB on the relevant transmitted UHF frequency channels (channels 43 and 47) in the direction of the Göteborg and Varberg areas (140-155 degrees). If Norway already has implemented the sixth layer at that time, the reduction shall be carried out within 5 month after the request from Sweden.

Sweden shall not take into operation an ERP greater than 50 dBW in the direction of Greipstad for the station Bäckefors without prior consultation with Norway.

Norway shall provide information to Sweden as early as possible but no later than 6 months in advance before taking Greipstad ch. 26, Kongsberg ch. 47, Skien ch. 47, Tryvasshögda ch. 54 and Kongsvinger ch. 29 into operation.

If harmful interference is experienced by one country and no solution can be found within this agreement, the involved countries shall mutually contribute to find case-by-case solutions.

For Norway

  
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Department

Date: 14.4.11

For Sweden

  
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