PMSE Workshop
Current and Future Use of Spectrum by Audio PMSE
The UHF-Band in Austria

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Use of the UHF band for Audio PMSE

Content:

- Importance of Audio PMSE applications in Austria
- 470 – 694 MHz, 700 MHz duplex gap, 823 – 832 MHz for Audio PMSE
- Plan for implementation of the 700 MHz band in Austria: future for Audio PMSE
- L-Band for Audio PMSE
- Other bands usable for Audio PMSE
Importance of Audio PMSE applications for Austria

- GE06: Austria has to coordinate with up to 13 neighbouring- and affected countries

- re-planning of UHF band may influence PMSE usage

- thousands of licences for Audio PMSE using white spaces in UHF 470-790 MHz
  - open air festivals near the Austrian border during summer time
  - lack of spectrum is a problem already today

- dense usage on basis of GE06 especially in “Hot Spots” difficult, if UHF spectrum for PMSE is further reduced
470 – 694 MHz, 700 MHz duplex gap, 823 – 832 MHz for Audio PMSE

- frequency coordination with neighbouring countries to serve future demand for digital terrestrial television

- further importance of terrestrial broadcasting platform

- guaranteed use for DTT for at least 10 years below 694 MHz

• => therefore also secured for PMSE
• => additionally foreseen further measures taking into account Decision 2014/641/EU
Plan for implementation of the 700 MHz band in Austria: future for Audio PMSE

- currently used for DTT:
  DVB-T (2 nationwide, 1 regional MUX): licenses expire by 2016 (renewal in 2015)
  DVB-T2 (3 nationwide MUX): licenses granted in 2013

- PMSE use (mainly wireless microphones)

- plan for MFCN starting from 2020 -> 700 MHz band for wireless broadband
  • ECC/DEC(15)01: MFCN frequency arrangement … including ‘non MFCN’ options such as … PMSE … for the use of the duplex gap of the MFCN FDD 2x 30 MHz…

- no harmonisation decision taken on the use of the frequency gap
  • => Austria: maintain the use for PMSE
L-Band for Audio PMSE

- 1492 – 1518 MHz implemented in Austria since 2011, future usability also pending on outcome of WRC-15
  - not used by Audio PMSE up to now – availability of equipment?

- 1350 – 1400 MHz under study in CEPT for PMSE tuning range, implementation also foreseen in Austria
  - availability of equipment within this tuning range to be provided by industry by …?
Other bands usable for Audio PMSE

- 174 - 216 MHz: still in use by older equipment, 248 licences

- 230 – 250 MHz: still very intensive use, more than 20,000 licences in the field, but mainly not used by “professional” users

- 863 – 865 MHz: very intensive usage in Austria, licence exempt

- 1785 - 1805 MHz: less equipment available – no visible use in Austria up to now…

- Video PMSE becomes another topic for discussion (2.3 GHz etc. …)
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