

Business Radio

FCS Regional Meeting, Coventry
6 April 2011

Malika Greene

Items for discussion

- Providing spectrum for 6¼kHz PMR equipment
- Investigation into analogue/digital sharing
 - CTCSS tones
- Increase in applications for 25kHz spectrum
- CEPT FM38

Providing spectrum for 6¼kHz PMR equipment

- Spectrum available in Mid band, UHF1, UHF2
- Create four channels from 25kHz channel
 - Original channel still available
 - Assigned on a Technically Assigned/Area Defined basis
- Ofcom licensing system will cater for both when considering potential assignments
- Potential new spectrum around 467MHz
 - On board ship communication channels, 25kHz simplex
 - Primarily to be used for onsite assignments, maximum two watts
- Create 6¼ kHz channel plans from 25kHz and 12½kHz channel plans

Investigation into analogue/digital sharing

- Can digital radios be set to be more analogue friendly?
 - Aggressive capture of channel
- Should CTCSS tones block digital signal
- Does this affect TDMA and FDMA digital radios
- Major implications for Ofcom if dedicated digital spectrum required

6¼kHz spectrum licence applications forms

- Not yet published
- Change to Technically Assigned and Area Defined application forms
- Addition of checkbox for 6¼kHz
- Optional box for indicating whether system is analogue or digital
 - If digital is it FDMA or TDMA

Increase in applications for 25kHz spectrum

- Simplex use
- Limited supply but currently we can meet demand

CEPT FM38

- Public Protection and Disaster Relief (PPDR)
- Citizens' Band Radio (CB)
- GSM-R
- PMR 446

Public Protection and Disaster Relief (PPDR)

- Across Europe user requirement for additional spectrum for narrowband, wideband and broadband systems for the Emergency Services
- Current harmonised spectrum 380-385MHz and 390-395MHz (2x5MHz)
- FM38 Questionnaire showed no possibilities to identify harmonised spectrum between 380-470MHz for narrowband and wideband PPDR systems
- Ongoing work to identify potential bands for broadband PPDR

Citizens' Band Radio (CB)

- New draft ECC Decision on CB
- The Decision increases the power limits and harmonises the modulation types for CB
- 4W for both FM and AM modulation and 12W with SSB modulation
- Public consultation on the draft new Decision will end 23 April 2011

Global System for Mobile Communications - Railway (GSM-R)

- Coordination issues between the Rail operators GSM-R networks and Public Mobile Operators GSM and UMTS networks
- The operators requested a study on practical mechanisms to improve the compatibility between GSM-R and public mobile networks and guidance on practical coordination
- A report on this study has been sent for public consultation

PMR 446

- Proposal from Switzerland to amend ERC Decision (98)25 on analogue PMR446 with the aim to add a transmitting time limitation and/or functionality that would avoid unnecessary transmissions on PMR446 frequencies
- FM38 to discuss how to progress this issue