



700 MHz Working Group

Stu Overby, Chair

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NPSTC is a federation of organizations whose mission is to improve public safety communications and interoperability through collaborative leadership.

- 1) Coalition Letter regarding 700 MHz Wireless Microphones**
- 2) H.R. 7013: Short-term DTV Transition Extension**
- 3) FCC TV White Space Decision**

Coalition Letter



- Relates to Wireless microphones at 700 MHz
- Coalition submitted letter to FCC Nov. 13
- Requests FCC to act expeditiously to adopt proposals in FCC NPRM Docket No. 08-167
 - Prevent wireless mic/low power device operation in 700 MHz band
 - Prohibit manufacture, import, sale, shipment of 700 MHz band wireless mics/low power devices
- Signatories incl. CTIA, APCO, NEMA, Rural Cellular Assoc., Alcatel-Lucent, AT&T, Bluegrass Wireless, Cellular South, Cincinnati Bell, Metro-PCS, Motorola, PISC, Qualcomm, U.S. Cellular, and Verizon.
- Verizon asked NPSTC to support
- Recommend Gov. Board authorize development of support letter

H.R. 7013



- Bill would extend DTV transition from Feb. 17, 2009 to March 3, 2009 (Sponsors: Capps/Boucher/Solis)
- Would allow analog broadcast of DTV transition info and analog transmission of essential public safety announcements in an emergency for 2 weeks
- Would require FCC to act by 1/15/09 to provide extension
- Section 2(c)(5) of Bill says the FCC shall prohibit analog broadcast on any spectrum that is approved or pending approval by the FCC for public safety use
- NPSTC should monitor closely and act if needed to ensure limitations on extension are maintained

TV White Space (TVWS) Spectrum Decision

Applying Cognitive Radio

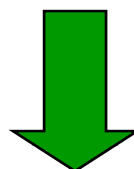
U.S. Digital Dividend Overview



TV: 408 MHz of Spectrum (VHF & UHF)

TV CHS VHF 2-13 and UHF 14-51

TV CHS 52-69



698 MHz

806 MHz

TV Clears by
Feb. 17, 2009

TV: 300 MHz **108 MHz**



**700 MHz Band
Allocation Done
Public Safety: 24 MHz
Commercial: 84 MHz**

TV: 300 MHz **108 MHz**



**TV Whitespace: Spectrum Amount
and Location Vary By Geography**

Each TV CH = 6 MHz

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TVWS-Incumbent Landscape



**Full
Power TV
Stations**



**LPTV
stations
and
translators**



**LMR
CH 14-20
11 metros**



**Broadcast Aux
& Wireless
Mikes**



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FCC TV White Space Decision

Released 11/14/08- Docket ET 04-186



- **Opens CH 2, 5-36, and 38-51 for unlicensed**
- **Fixed operation on all allowed channels**
- **Portable operation CH 21 and above**
- **Fixed: 4W/30 meter max; Portable: 100 mW max**
- **TVWS Devices must have geolocation and sensing to protect incumbents (limited exception for sensing-only devices)**
- **3rd party database used for TVWS geolocation and registration**
- **2 channels between CH 21 and 51 reserved for wireless mics in top 13 markets; also high demand mic locations may register in database for protection**
- **Conservative decision to start; re-examine in 2 years**