



Wireless Communications Service (WCS)

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Background

- The FCC released a R&O in May 2010 (FCC 10-82) that modified the WCS technical rules and performance requirements applicable to broadband terrestrial operations in the 2305-2320 MHz and 2345-2360 MHz bands while maintaining adequate interference protection to the SDARS operations in the intermediate 2320-2345 MHz band.
- Five petitions for reconsideration were filed in response to the rulemaking.
- On October 17th, 2012, the FCC released an Order on Reconsideration (FCC 12-130) that responded to the petitions for reconsideration.
- Most of the rule changes became effective on March 13th, 2013



Presentation Scope

- Presentations were made at the April and October 2011 TCB workshops, summarizing the modifications made to the technical rules by the 2010 WCS R&O.
- This presentation will highlight only those changes to the technical rules (and previous presentations) that have resulted from the recent Order on Reconsideration.



WCS Technical Rules Changes from Order on Reconsideration

- A change in authorized frequency band for WCS base and fixed station operations.
 - §27.50(a)(1)(iii) requirement that frequency division duplex (FDD) WCS base and fixed stations be limited to operation in the 2345-2360 MHz band (from 2010 WCS R&O) has been removed.
 - WCS base and fixed stations employing FDD technologies are now permitted to operate in either the 2305-2320 MHz or the 2345-2360 MHz frequency bands.



WCS Technical Rules Changes from Order on Reconsideration (continued)

- A relaxation of the prohibition on outdoor installations and/or outdoor antennas associated with low-power ($EIRP \leq 2$ watts) consumer-premises equipment (CPE).
 - §27.50(a)(2) has been modified to remove the restriction on outdoor installations or outdoor antennas for low-power CPE's that conform to the more restrictive emission mask for base and fixed stations specified in §27.53(a)(1).
 - For low-power CPE's that conform to the less restrictive emission mask specified in §27.53(a)(3), outdoor installations or antennas remain prohibited except if professionally installed in locations removed by 20 meters from roadways or in locations where it can be shown that a ground power level of -44 dBm (for operation in the A or B blocks) or -55 dBm (for operation in the C or D blocks) will not be exceeded at the nearest road location.



WCS Technical Rules Changes from Order on Reconsideration (continued)

- A prohibition on mobile and portable WCS transmissions in the C and D blocks (2315-2320 MHz and 2345-2350 MHz, respectively).
 - §27.50(a)(3)(i)&(ii) are modified to permit mobile and portable station transmissions only in the 2305-2315 MHz or 2350-2360 MHz frequency bands.



WCS Technical Rules Changes from Order on Reconsideration (continued)

- Elimination of duty cycle limits for WCS mobile, portable and fixed CPE stations employing FDD technologies.
 - §27.50(a)(2)&(3) have been modified by removing the duty cycle limits for WCS stations employing frequency division duplexing (FDD) technologies.
 - The duty cycle limits are retained for WCS stations employing time division duplexing (TDD) technologies.



Questions and Answers

Thanks!