

## IEEE Standards Interpretation for IEEE Std 802.16.2™-2001 IEEE Standard for Local and Metropolitan Area Networks - IEEE Recommended Practice for Local and Metropolitan Area Networks Coexistence of Fixed Broadband Wireless Access Systems

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### Interpretation Request #1

**Topic:** Recommended Practice for Coexistence of Fixed Broadband Wireless Access Systems **Relevant Clause:** 6.1.3 (Out-of-block unwanted emissions) **Relevant Figure:** Figure 7

Subclause 6.1.3, **Out-of-block unwanted emissions** of IEEE Std 802.16.2-2001 presents a block edge mask. Figure 7 ("example of application of unwanted emission limit") and the associated text could be read to imply that a single-channel emission mask corresponding to the transmitted spectrum in the figure is a requirement. Is this the intent of the recommended practice on this topic?

### Interpretation Response #1

Subsection 6.1.3, **Out-of-block unwanted emissions** of the Recommended Practice for Coexistence of Fixed Broadband Wireless Access Systems relates to out-of-block unwanted emissions. Figure 7 provides an example application of out-of-block unwanted emission limits. The transmitter spectrum shown in the figure is an example of a typical actual spectrum for one possible channel bandwidth. It shows the relationship between the placement of the example carrier and the block edge mask, so as to meet the recommended out-of-blocks limits.

It is not an emission mask and there is no intention to imply the use of any particular mask. The system designer is free to choose the levels and placement of carrier fre-

quencies in order to meet the recommended out-of-block emission limits.

**Note:** This interpretation was unanimously approved by the IEEE 802.16™ Working Group on Broadband Wireless Access on 13 July 2001.