

## Spurious Emissions Compliance for W256CD

On February 13<sup>th</sup>, 2018, I, John Mathews, personally conducted measurements to show compliance with FCC 73.317(b) through 73.317(d), for FM Broadcast Station W256CD. I have submitted certified data to the Commission in the past. The aforementioned station shares a common antenna with W261BX, W271BN, W297BF, and W210CA. W261BX, W271BN and W297BF all combine using a Shively 2930-3 branch combiner. The output of the branch combiner feeds the broadband input of a Shively 2940 balanced combiner and is combined with W210CA. The output of the aforementioned balanced combiner feeds the broadband input of an additional Shively 2940 balanced combiner and is combined with W256CD. Measurements were made at the output of each transmitter, with all stations operating simultaneously at a TPO necessary to obtain the appropriate ERP as specified in the individual station licenses and construction permits. A low level sample was obtained at the output of each transmitter. This sample was observed for spurious emissions. The sample was measured using a Rohde & Schwarz FSH3 Spectrum Analyzer. I certify the results are in compliance with 73.317(b) through 73.317(d) as required by Construction Permit BPFT-20140423AAL, W256CD. The results of the measurements are attached as **Exhibit I**

Certified by:

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John Mathews

# Exhibit I

## 47 C.F.R. sections 73.317 (b) through 73.317(d) Compliance Certification

### **W256CD 99.1 MHz**

120kHz-240kHz >49 dB below the level of the unmodulated carrier.  
240kHz-600kHz > 59 dB below the level of the unmodulated carrier.  
Greater than 600kHz from the unmodulated carrier >92dB Below the level of the unmodulated carrier.

### **W261BX 100.1 MHz**

120kHz-240kHz >50 dB below the level of the unmodulated carrier.  
240kHz-600kHz > 60 dB below the level of the unmodulated carrier.  
Greater than 600kHz from the unmodulated carrier >90dB Below the level of the unmodulated carrier.

### **W271BN 102.1 MHz**

120kHz-240kHz >51 dB below the level of the unmodulated carrier.  
240kHz-600kHz > 58 dB below the level of the unmodulated carrier.  
Greater than 600kHz from the unmodulated carrier >91dB Below the level of the unmodulated carrier.

### **W297BF 107.3 MHz**

120kHz-240kHz >48 dB below the level of the unmodulated carrier.  
240kHz-600kHz > 55 dB below the level of the unmodulated carrier.  
Greater than 600kHz from the unmodulated carrier >91dB Below the level of the unmodulated carrier.

### **W210CA 89.9 MHz**

120kHz-240kHz >60 dB below the level of the unmodulated carrier.  
240kHz-600kHz > 70 dB below the level of the unmodulated carrier.  
Greater than 600kHz from the unmodulated carrier >91dB Below the level of the unmodulated carrier.