

**NEW AUXILIARY FM ANTENNA**  
**CUMULUS LICENSING LLC**  
**WMNX RADIO STATION**  
**CH 247C1 - 97.3 MHZ - 1.5 KW**  
**WILMINGTON, NORTH CAROLINA**  
**June 2018**

**TECHNICAL STATEMENT**

This Technical Statement and attached exhibits were prepared on behalf of Cumulus Licensing LLC (“Cumulus”), licensee of FM radio station WMNX, Channel 247C1, Wilmington, North Carolina. Cumulus requests permission to construct a new auxiliary FM antenna system for WMNX for use when the main system is out of service for repairs or maintenance. The proposed auxiliary system will operate with an effective radiated power of 1.5 kilowatts. The proposed antenna is the same as specified in several auxiliary applications, specifically new auxiliary facilities for WGNI, Wilmington, North Carolina; WWQQ-FM, Wilmington, North Carolina; and WKXS-FM, Leland, North Carolina. Only one station will utilize the antenna at a time. This eliminates the requirement for a diplexer.

Cumulus is proposing to locate the new auxiliary antenna on an existing tower, which has been assigned Antenna Structure Registration Number 1208973. Since this is a proposed auxiliary antenna system, no allocation review, community coverage issues, main studio location, or interference issues are considered in this instant application.<sup>1</sup>

Exhibit A is a map showing that the proposed WMNX auxiliary 60 dBu contour will not extend beyond that of the licensed WMNX 60 dBu contour. Exhibit B is a study

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1) There are no stations with an Intermediate Frequency (IF) relationship near the proposed auxiliary site.

that shows the proposed WMNX auxiliary facility will comply with the Commission's RF exposure requirements.<sup>2</sup> Since only one station will be using the shared antenna at any given time, Exhibit B demonstrates a worse case scenario.

All other data used to certify the information contained in the application has been forwarded to Cumulus and is available for submission to the Commission upon request.<sup>3</sup>

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- 2) Cumulus is also submitting applications for new auxiliary antenna systems for WGNI and WWQQ-FM, Wilmington, North Carolina and WKXS-FM, Leland, North Carolina to share the WMNX antenna.
  - 3) The undersigned has evaluated on the radio frequency radiation exposure limits of this proposal. Further, all data regarding broadcast facilities was extracted from the CDBS database on the date of this application. We assume no liability for errors or omissions in that database that may be adverse to the requests contained herein.