

DICK BROADCASTING COMPANY, INC. OF TENNESSEE

JACKSONVILLE, NORTH CAROLINA

ENGINEERING NARRATIVE FOR WXQR-FM

Dick Broadcasting proposes the installation of a new antenna for WXQR-FM and WQSL at a new location on the existing tower that supports the antenna of WRMR, Sonrise Broadcasting, LLC, Jacksonville, North Carolina (BLH-19900401KE). WXQR and WQSL will use a common antenna. The new location is 4.646 kilometers from the present location.

The proposed WXQR-FM 70 dBu contour does not cover 100 percent of the city of Jacksonville, however, it does cover 90.43 percent as measured by planimeter, See the attached coverage map. This meets The Commission's longstanding policy of approving coverage of 80 percent or more. If a waiver is required, it is hereby requested.

In the calculation of the antenna HAAT, three of the eight radials run out into the Atlantic Ocean. The eight radials have been dealt with in accordance with §73.313(d) as follows:

000° Full Radial (3-16 kM) = 14.4 meters elevation  
045° Full Radial (3-16 kM) = 4.4 meters elevation  
090° Excluded  
135° Excluded  
180° Excluded  
225° Full Radial (3-16 kM) = 2.2 meters elevation  
270° Full Radial (3-16 kM) = 10.1 meters elevation  
270° Full Radial (3-16 kM) = 10.2 meters elevation

Average Elevation is 8.26 meters ( $41.3\text{m} / 5 = 8.26\text{m}$ )

HAAT = 253m (AMSL) - 8.26m = 244.7 meters