

TECHNICAL SUMMARY

FM BROADCAST STATION WZZU(FM)
LYNCHBURG, VIRGINIA
CHANNEL 250C3, 0.58 KW (H&V), 26 M AGL, 875 M AMSL, 591 M HAAT

1. The instant application is for a construction permit for WZZU(FM), Lynchburg, Virginia, to relocate its transmitting antenna to a nearby existing tower located approximately 15 m southeast of the licensed transmitter site.
2. It is demonstrated herein that the proposed transmitter location fully meets the minimum distance spacing requirements of Section 73.207 of the FCC Rules. In addition, it is demonstrated herein that the predicted 70 dBu principal community contour for the proposed facility is compliant with the minimum coverage requirements of the city of license of Lynchburg. The Predicted Coverage Contours map exhibit contained herein shows that there is essentially no change in the predicted coverage contours for the WZZU facility as compared to the licensed facility. But in any case, the predicted 70 dBu coverage contour encompasses greater than 80% of the population of Lynchburg in substantial compliance with Section 73.315 of the FCC Rules.
3. As specified herein, the WZZU transmitting antenna is proposed to be located on an existing tower supporting structure with no FCC antenna structure registration number. There will be no change in the overall height of the existing supporting structure.
4. The WZZU facility is to employ an ERI model LPX-1E (EPA Type 3) transmitting antenna. The transmitting antenna will be side-mounted on the existing tower supporting structure with a nominal radiation center height above ground level of 26 m.
5. The nominal antenna radiation center height above mean sea level is calculated to be 875 m and the antenna HAAT is calculated to be 591 m. The nominal ERP will be 0.58 kW, which complies with the maximum permissible ERP level for Class C3 stations with an HAAT exceeding 100 m under Section 73.211(b) of the FCC Rules.