

WRXR-FM MINOR MODIFICATION TO CLASS A FM LICENSE BLH-20070814AAI
105.5 MHz 5.3 kW ND 106 M HAAT FACILITY ID 72375 ROSSVILLE, GEORGIA
ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS
FEBRUARY 2024

Audacy License, LLC ("Audacy") licensee of commercial FM broadcast station WRXR-FM, herein proposes to relocate to a new site 4.37 kilometers from the licensed site. This application proposes:

1. Use of FCC tower registration #1049385. Coordinates are those specified in the tower registration and were pulled into the application from the ULS database. The antenna center will be 50.3 meters AGL and 392 meters AMSL,
2. Continued compliance with FCC Section 73.207 distance separation requirements to all full service stations.
3. HAAT has been determined using the FCC online calculator based on the proposed coordinates in LMS, RC 392 M AMSL, 8 evenly spaced radials and FCC 30 second terrain data. The HAAT proposed is 106 meters.
4. The proposed ERP of 5.3 kilowatts was determined by use of the FCC online FMPOWER calculator and an HAAT of 106 meters for a Class A station in Georgia.
5. The antenna chosen by the licensee for this facility is an ERI LPX-3E-HW, three bay half wave spaced antenna.

Utilizing the FCC FM Model online calculator with an ERI LPX series antenna, EPA type 3, three bay, 0.5 lambda spaced, with 5,300 watts ERP H & V on CH 288. The maximum calculated power density is 1.93 microwatts per centimeter squared which is 0.97% percent of the 200 microwatts public exposure guideline. Based on this analysis, it is believed that the proposed facility follows OET-65 Public Exposure Guidelines. The applicant will reduce power or cease transmission as required to meet FCC OET-65 worker Guidelines.

An allocation study tabulation, please see below, demonstrates that the proposed facility complies with 73.207 distance separations.

ComStudy 2.2 search of channel 288 (105.5 MHz Class A) at 34-55-22.0 N, 85-19-01.0 W.

CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE
WRXR-FM	LIC ROSSVILLE	GA	288	A	4.37	115.00	31.1	-110.6
WYTM-FM	FAYETTEVILLE	TN	288	A	117.51	115.00	281.6	2.5
WUIE	LAKE SITE	TN	286	A	37.84	31.00	12.6	6.8
WBZY	CANTON	GA	289	C2	123.73	106.00	140.1	17.7
WOWC	MORRISON	TN	287	A	92.33	72.00	319.5	20.3
WIHG	ROCKWOOD	TN	289	C3	114.92	89.00	20.6	25.9
WRBF	PLAINVILLE	GA	285	A	69.17	31.00	158.4	38.2

Figure 1, attached, depicts the licensed and proposed 70 dBu contours. It is noted that the licensed and proposed 70 dBu contours cover 100% of the Rossville community boundary. Figure 2, attached, depicts the licensed and proposed 60 dBu contours which are similar in footprint.

The foregoing was prepared on behalf of The Audacy License, LLC by Clarence M. Beverage of Communications Technologies, Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



By _____

Clarence M. Beverage

for Communications Technologies

Medford, New Jersey

February 2, 2024