



Figure 1

W242BD- MINOR CHANGE TO LICENSED FACILITY

Demonstration of 60 dBu contour within the 'greater' of 2 mV or 25-mile radius of WRRL-AM

Table 1

W242BD - MINOR CHANGE TO LICENSED FACILITY

Channel Study

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Distance (km)	Bearing TO (deg)	Req. Dist. (km)	Clearance (km)	Field Strength (dBu)
242	D	W242BD	FX	CP	BECKLEY	WV	US	LIGHTENING BOLT COMMUNICATIO	0.0	0.0	0.0	0.0	(same as applicant)
294	A	WHFI	FM	LIC	LINDSIDE	WV	US	MONROE COUNTY BOARD OF EDUC	37.4	200.1	15.9	21.5	
296	A	WCHG	FM	LIC	HOT SPRING	VA	US	POCAHONTAS COMMUNICATIONS C	69.6	67.9	46.1	23.5	
296	C3	WPSK-FM	FM	LIC	PULASKI	VA	US	CUMULUS LICENSING LLC	88.3	193.4	63.5	24.8	
297	B	WKAZ-FM	FM	LIC	MIAMI	WV	US	WEST VIRGINIA RADIO CORPORATI	103.1	301.2	99.8	3.3	
299	D	W299CF	FX	CP MOI	FAYETTEVILI	WV	US	ZACK MEDIA, LLC	42.5	290.0	18.8	23.7	

Radiofrequency Electromagnetic Exposure Analysis

Source	Height AGL(m)	Antenna type	Bays	Horizontal ERP (kw)	Vertical ERP (kw)	Power Density $\mu\text{W}/\text{cm}^2$ at 2 meters AGL				
						within 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$)	Max. PD	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$)	Distance to maximum PD (m)
W242B2 Proposed	43	Dipole (EPA)	1	0.085	0.085	2.00	0.2%	2.00	1.0%	11.0
WRLB-FM1	24	Dipole (EPA)	1	0.190	0.190	16.00	1.6%	16.00	8.0%	6.0
W247BZ	20	Dipole (EPA)	1	0.000	0.250	25.60	2.6%	25.60	12.8%	4.2
WRON-FM	50	SWR-FMEC (Dipole EPA)	3	3.300	3.300	56.40	5.6%	56.40	28.2%	10.0
						56.4	10.0%	56.4	50.0%	11.0

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

Calculations made using FCC FMModel

In the absence of specific antenna information, "Dipole (EPA)" is assumed ("worst case")