

W243CA Sutton, WV - Minor Modification of a Licensed Facility  
SUMMIT MEDIA BROADCASTING, L.L.C.

Modify to new site on Ch.244D (96.7 MHz), Summersville, WV  
Minor change showing and showing service contour contained inside WAFD 54 dBu F(50,50) contour.

Figure 1

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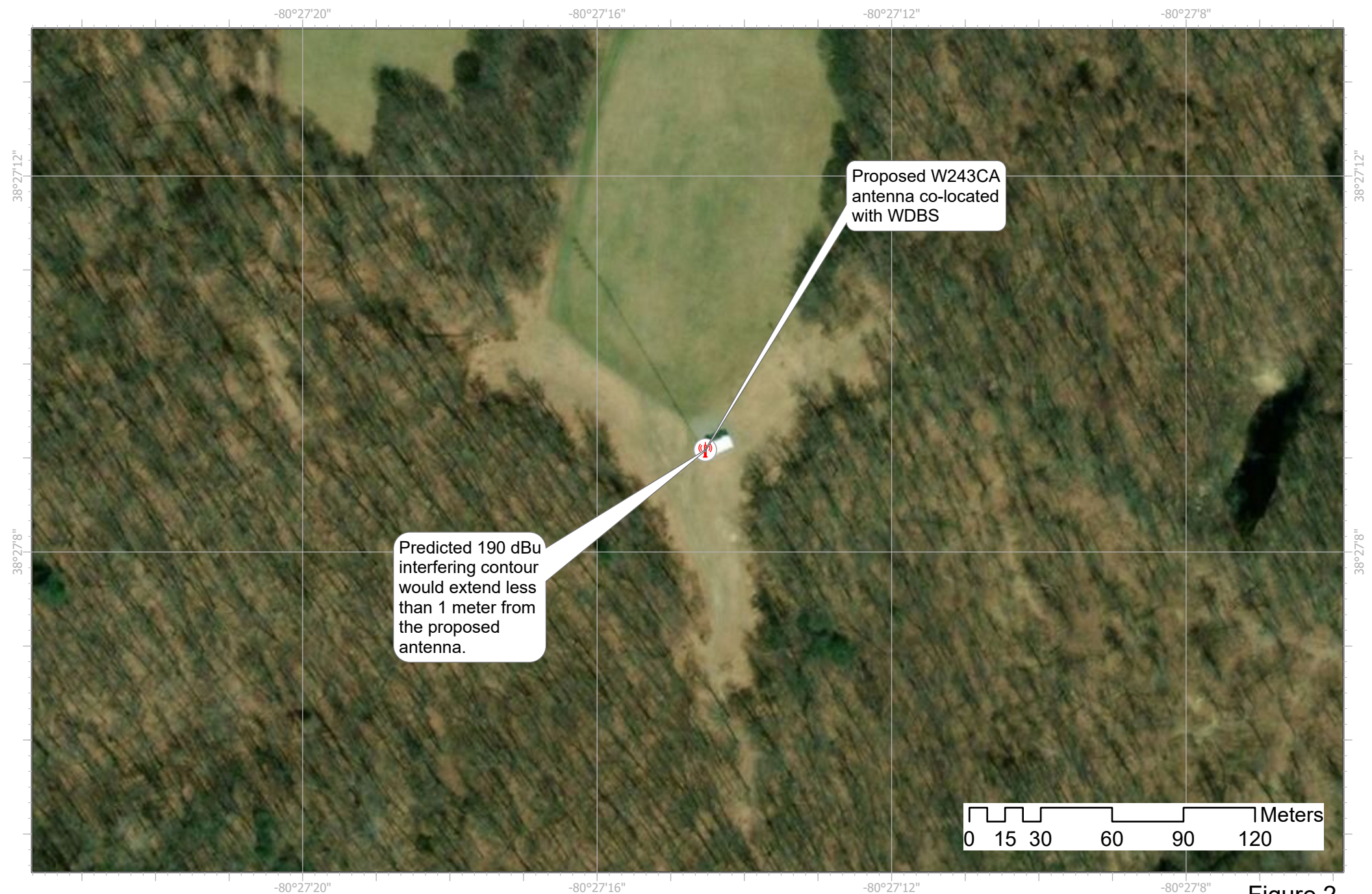
**Table 1 W243CA Minor Modification of a Licensed Facility December 20, 2019****Channel Study**

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	Distance (km)	Req. Dist. (km)	Clearance (km)	Field Strength (dBu)
241	B	WKWS	FM	L-L2C	CHARLESTON	WV	US	WEST VIRGINIA RADIO CORPC	265.6	114.9	70.6	44.3	
242	A	WOTR	FM	L-L2C	WESTON	WV	US	DELLA JANE WOOFER	355.2	69.0	28.1	40.9	
<b>243</b>	<b>D</b>	<b>W243CA</b>	<b>FX</b>	<b>L-L2C</b>	<b>SUTTON</b>	<b>WV</b>	<b>US</b>	<b>SUMMIT MEDIA BROADCASTING</b>	<b>314.1</b>	<b>32.1</b>	<b>44.7</b>	<b>-11.0</b>	<b>(applicant)</b>
244	D	W244CB	FX	L-L2C	WEST MILFORD	WV	US	ARAIZA REVIVAL MINISTRIES,	8.5	92.5	80.4	14.8	
244	D	W244BF	FX	L-L2C	NIMITZ	WV	US	GRACE MISSIONARY BAPTIST	206.6	100.1	70.2	32.8	
244	A	WKMM	FM	L-L2C	KINGWOOD	WV	US	MARPAT CORPORATION	33.5	134.3	95.2	41.8	
246	B	WDBS	FM	L-L2C	SUTTON	WV	US	SUMMIT MEDIA BROADCASTING	0.0	0.0	46.9	-46.9 (co-located)	(see note)

**NOTE:**

Second adjacent WDBS is co-located at the proposed site. At 30 meters horizontal distance from the tower, WDBS has a field strength of 150.8 dBu F(50,50) at the proposed W243CA site. Therefore, the W243CA interfering contour is the W243CA 190.8 dBu (50,10) which will extend less than 1 meter horizontally from the proposed W243CA antenna. Therefore the proposed W243CA interfering contour will not overlap any occupied structures or population (SEE FIGURE 2). Therefore this proposal is compliant with the allowance of Rule 74.1204(d). (SEE FIGURE 2).





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2nd adjacent channel interference showing with respect to co-located WDBS

Figure 2

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## 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 beyond 10 m	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$ )	Distance to maximum PD (m)
W243CA (PROPOSED)	72	(Dipole EPA assumed)	1	0.250	0.250	1.9	0.19%	2.1	1.1%	17.4
WAFD	81	ERI-MPX-4AE	4	25.000	25.000	3.7	0.37%	19.7	9.9%	35.6
WDBS	94	SHI-6810-4	4	22.000	22.000	5.9	0.59%	15.1	7.6%	37.6
						5.9	<b>1.15%</b>	19.7	<b>18.5%</b>	37.6

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 data, the EPA-dipole, single bay model is used.