

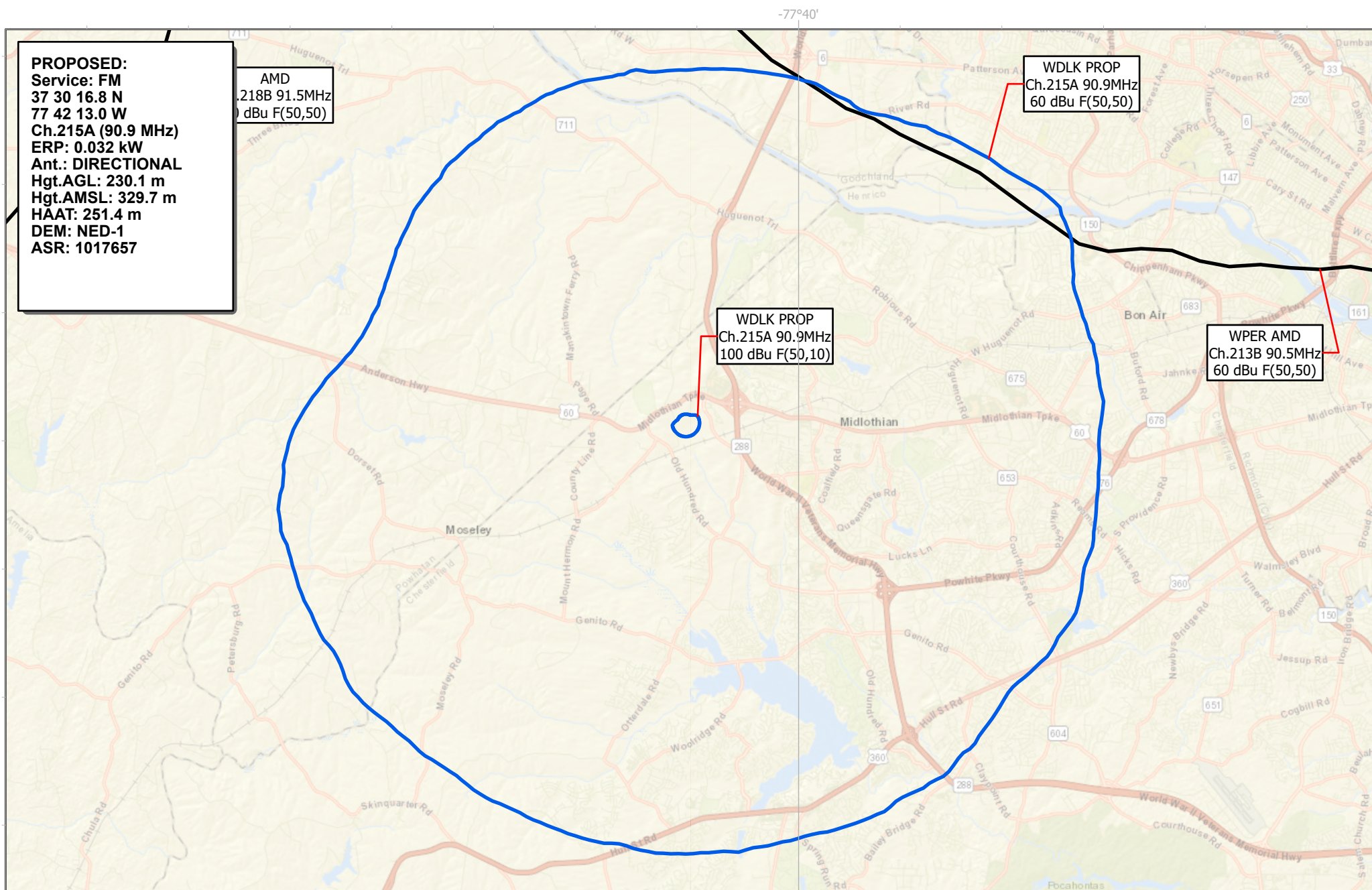
WDLK WOODLAKE, VA Proposed Channel 215A (90.9 MHz)
REDEEMER BROADCASTING, INC. - CP MOD

1st adjacent-channel showing.



Figure 2

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WDLK WOODLAKE, VA Proposed Channel 215A (90.9 MHz)
 REDEEMER BROADCASTING, INC. - CP MOD

2nd and 3rd adjacent-channel showing.

Figure 3

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Table 2 - 73.207 Channel Study
WDLK WOODLAKE, VA - REDEEMER BROADCASTING, INC.
CP MOD September 2022 (Ch.215A proposed)

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	FCC Dist.(km)	Req. Dist. (km)	Clearance (km)
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**** No facilities or applications with less than 50 km clearance.**
 Distance separations determined per §73.208(c)

The proposed antenna location is not within 320 kilometers of the common border between the United States and Canada or Mexico.

Table 1 - 73.509 Channel Study

WDLK WOODLAKE, VA - REDEEMER BROADCASTING, INC.

CP MOD September 2022 (Ch.215A proposed)

Chan	Class	Call Letters	Type	Status	City	State	Country	Owner	Bearing TO (deg)	Distance (km)	Req. Dist. (km)	Clearance (km)
213	B	WPER	FM	L-AMD	FREDERICKSBURG	VA	US	POSITIVE ALTERNATIVE	29.6	59.0	49.0	10.0
214	B	WMRA	FM	L-L2C	HARRISONBURG	VA	US	JAMES MADISON UNIV	317.6	160.5	96.6	63.9
215	A	WDLK	FM	C-MOD	WOODLAKE	VA	US	REDEEMER	0.0	0.0	72.3	-72.2 (applicant)
215	B1	WCWM	FM	L-L2C	WILLIAMSBURG	VA	US	THE COLLEGE OF WILL	104.8	64.4	61.8	2.6
215	A	WQLU	FM	L-MOD	LYNCHBURG	VA	US	LIBERTY UNIVERSITY, I	262.8	130.4	60.3	70.1
215	B	WETA	FM	L-MOD	WASHINGTON	DC	US	GREATER WASHINGTON	17.8	162.1	161.6	0.5
215	C2	WRQM	FM	L-L2C	ROCKY MOUNT	NC	US	WUNC PUBLIC RADIO,	181.1	188.3	115.2	73.1
216	A	WHCE	FM	L-MOD	HIGHLAND SPRINGS	VA	US	HENRICO COUNTY SCH	83.5	33.7	33.1	0.6
216	B1	WTJU	FM	L-L2C	CHARLOTTESVILLE	VA	US	THE RECTOR & VISITOR	308.0	86.7	66.8	19.9
217	A	WVST-FM	FM	L-L2C	PETERSBURG	VA	US	VIRGINIA STATE UNIV	139.2	39.1	15.1	24.1
217	A	WMLU	FM	L-L2C	FARMVILLE	VA	US	LONGWOOD UNIVERSITY	249.5	65.2	13.6	51.6
218	B		FM	C-AMD	Lake Monticello	VA	US	SOLID FOUNDATION B	283.5	59.6	39.0	20.7
218	B	WYCS	FM	L-L2C	YORKTOWN	VA	US	DAVID INGLES MINIST	107.4	107.7	38.8	68.9

Terrain data DEM: NED-1

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				Distance to maximum PD (m)
						within 10 meters distance	% controlled environment limit (1000 $\mu\text{W}/\text{cm}^2$)	Max. PD	% uncontrolled environment limit (200 $\mu\text{W}/\text{cm}^2$)	
WDLK (Proposed)	230.0	SHI SLV (EPA Type 1)	1	0.032	0.032	0.75	0.08%	0.86	0.43%	53.0
WBBT-FM	183.0	ERI LPX-2E-HW (EPA Type 1)	2	1.400	1.400	0.20	0.02%	0.54	0.27%	102.0
						0.75	0.10%	0.86	0.70%	102.0

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 (Revised version)