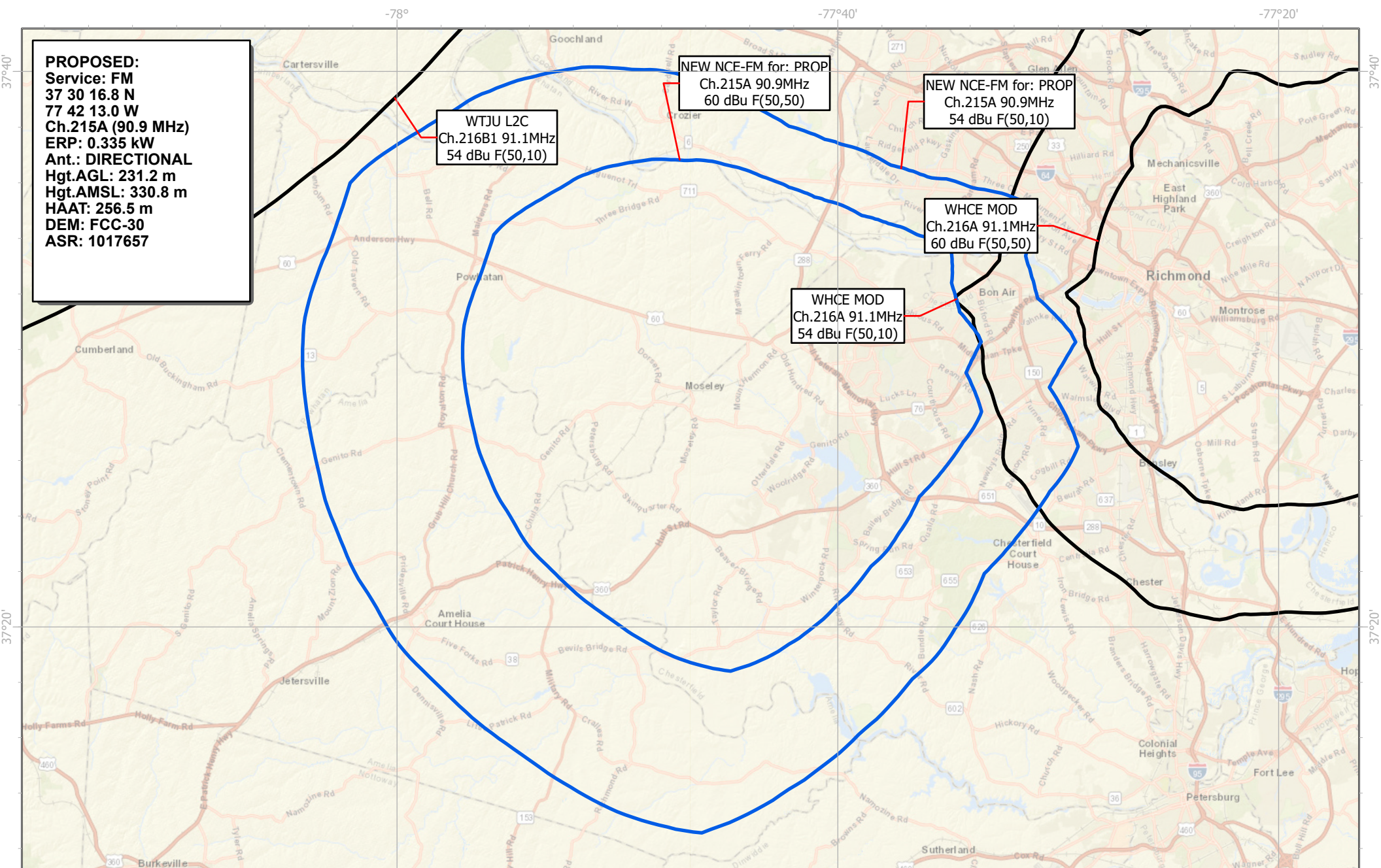


NEW NCE-FM for: WOODLAKE, VA Proposed Channel 215A (90.9 MHz)
REDEEMER BROADCASTING, INC. - CP MOD

Co-channel and minor change showing.

Figure 1

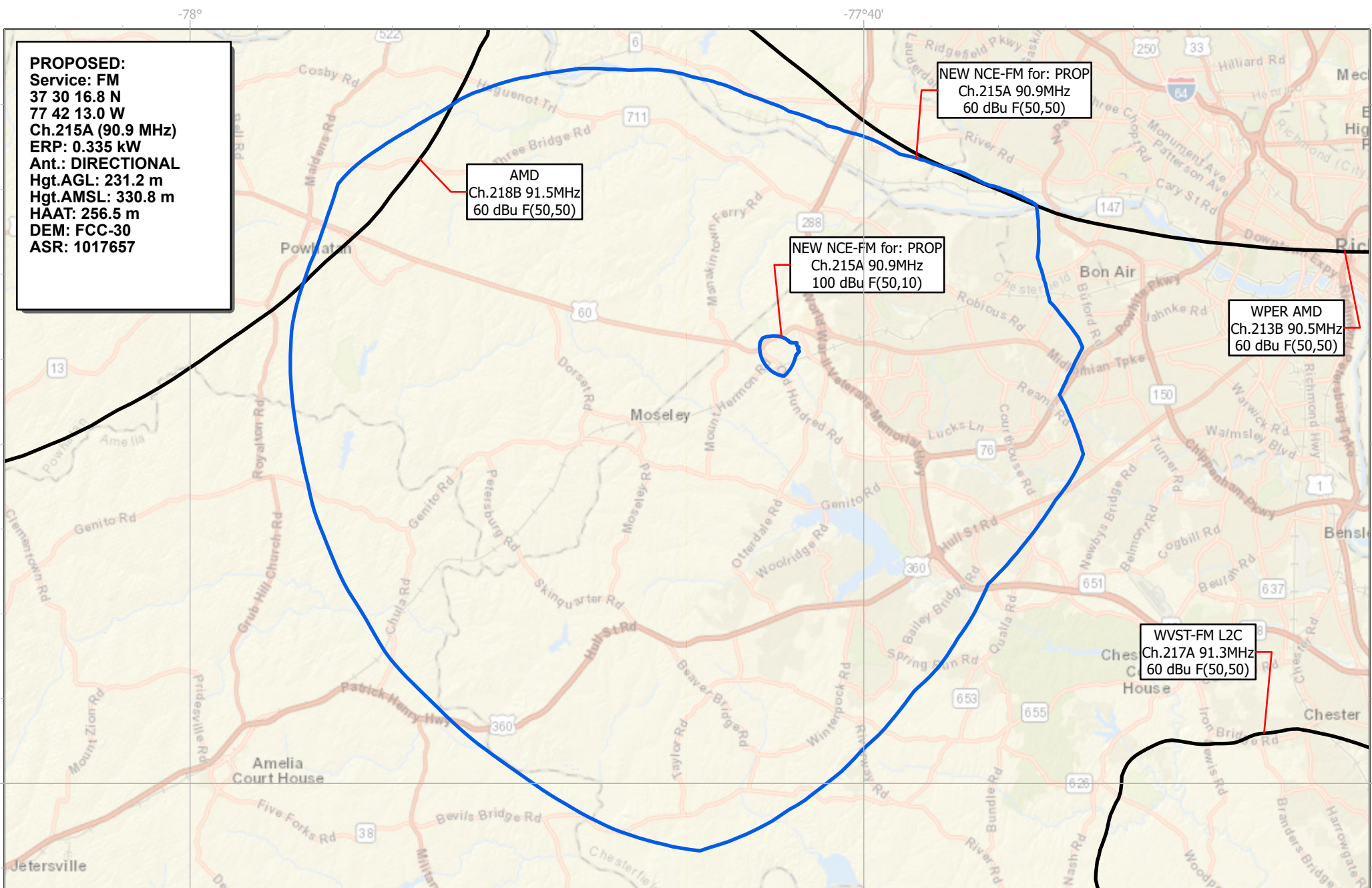
Robert J. Robbins, Ph.D.
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radiodataservices@radiodataservices.com
(305) 234-9309



NEW NCE-FM for: WOODLAKE, VA Proposed Channel 215A (90.9 MHz)
REDEEMER BROADCASTING, INC. - CP MOD

1st adjacent-channel showing.

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NEW NCE-FM for: WOODLAKE, VA Proposed Channel 215A (90.9 MHz)
REDEEMER BROADCASTING, INC. - CP MOD

2nd and 3rd adjacent-channel showing.

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PROPOSED:
Service: FM
37 30 16.8 N
77 42 13.0 W
Ch.215A (90.9 MHz)
ERP: 0.335 kW
Ant.: DIRECTIONAL
Hgt.AGL: 231.2 m
Hgt.AMSL: 330.8 m
HAAT: 256.5 m
DEM: FCC-30
ASR: 1017657

NEW NCE-FM for: PROP
Ch.215A 90.9MHz
60 dBu F(50,50)

Woodlake

PROPOSED:
Service: FM
37 30 16.8 N
77 42 13.0 W
Ch.215A (90.9 MHz)
ERP: 0.335 kW
Ant.: DIRECTIONAL
Hgt.AGL: 231.2 m
Hgt.AMSL: 330.8 m
HAAT: 256.5 m
DEM: FCC-30
ASR: 1017657

NEW NCE-FM for: PROP
Ch.215A 90.9MHz
60 dBu F(50,50)

Woodlake

NEW NCE-FM for: WOODLAKE, VA Proposed Channel 215A (90.9 MHz)
REDEEMER BROADCASTING, INC. - CP MOD

Community of license showing.

0 2.75 5.5 11 Kilometers

Figure 4

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Table 1 - 73.509 Channel Study**NEW NCE-FM for: WOODLAKE, VA - REDEEMER BROADCASTING, INC.****CP MOD April 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	49.1	9.9
214	B	WMRA	FM	L-L2C	HARRISONBURG	VA	US	JAMES MADISON UNIVERSITY	317.6	160.5	102.3	58.3
215	A		FM	C-AMD	WOODLAKE	VA	US		0.0		62.6	-62.6 (applicant)
215	B1	WCWM	FM	L-L2C	WILLIAMSBURG	VA	US	THE COLLEGE OF WILLIAMSBURG	104.8	64.4	62.4	2.0
215	A	WQLU	FM	L-MOD	LYNCHBURG	VA	US	LIBERTY UNIVERSITY, INDEPENDENCE	262.8	130.4	80.8	49.6
215	B	WETA	FM	L-MOD	WASHINGTON	DC	US	GREATER WASHINGTON BROADCASTING	17.8	162.1	161.7	0.4
215	C2	WRQM	FM	L-L2C	ROCKY MOUNT	NC	US	WUNC PUBLIC RADIO, INC.	181.1	188.3	123.4	64.9
216	A	WHCE	FM	L-MOD	HIGHLAND SPRINGS	VA	US	HENRICO COUNTY SCHOOL BOARD	83.5	33.7	33.3	0.4
216	B1	WTJU	FM	L-L2C	CHARLOTTESVILLE	VA	US	THE RECTOR & VISITORS	308.0	86.7	74.1	12.6
216	A	WVRP	FM	L-L2C	ROANOKE RAPIDS	NC	US	LIBERTY UNIVERSITY, INDEPENDENCE	177.6	115.2	41.3	73.9
217	A	WVST-FM	FM	L-L2C	PETERSBURG	VA	US	VIRGINIA STATE UNIVERSITY	139.2	39.1	16.2	22.9
217	A	WMLU	FM	L-L2C	FARMVILLE	VA	US	LONGWOOD UNIVERSITY	249.5	65.2	23.4	41.8
217	A		FM	C-AMD	APPOMATTOX	VA	US	RISING TIDE BROADCASTING	262.9	95.8	22.0	73.7
218	B		FM	C-AMD	Lake Monticello	VA	US	SOLID FOUNDATION BROADCASTING	283.5	59.6	40.8	18.8
218	B	WYCS	FM	L-L2C	YORKTOWN	VA	US	DAVID INGLES MINISTRIES	107.4	107.7	39.9	67.8

Terrain data DEM: FCC-30

Table 2 - 73.207 Channel Study

NEW NCE-FM for: WOODLAKE, VA - REDEEMER BROADCASTING, INC.

CP MOD April 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.

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)
NCE-FM (Proposed)	183	(EPA Type 1)	1	0.335	0.335	0.2	0.0002%	0.3	0.10%	62
WBBT-FM	231.2	ERI LPX-2E-HW (EPA Type 1)	2	1.4	1.4	1.5	0.10%	1.7	0.90%	49
						1.7	0.20%	2.0	1.00%	62

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)