



REC Networks/Michelle Bradley, CBT
11541 Riverton Wharf Rd.
Mardela Springs, MD 21837
844.REC.LPFM/202.621.2355
recnet.com

Minor Modification to Construction Permit
TRAPPE, MD
HISTORIC OXFORD, LIMITED
0000167290

PROPOSED 60dBu F(50,50) SERVICE CONTOUR



TRAPPE, MD – Channel 219A ~ 91.7 MHz ~ ERP 3.9 kW

Elev: 4.5 meters ~ RCAGL: 47 meters ~ RCAMSL: 51.5 meters – HAAT: 51 meters

Overall tower height: 48.7 meters – ASR: 1203063

NAD83 Latitude: 38° 34' 07.2" NL – Longitude: 76° 04' 30.5" WL

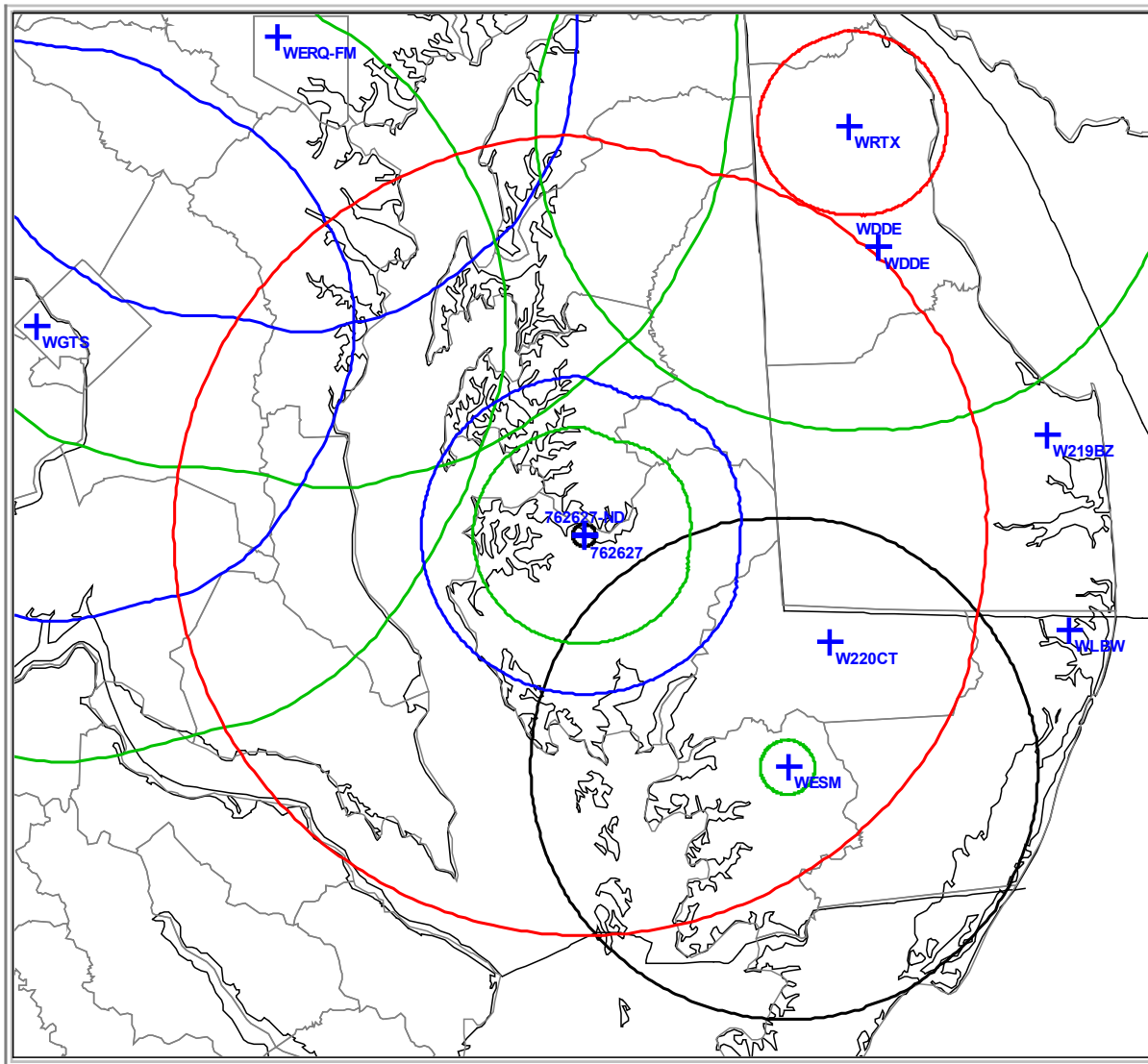
Site: 762627-ND
 Coordinates: 38-34-07.2 N, 76-04-30.5 W
 Freq: 91.70000 MHz
 ERP: 3.90 kW

Bearing	ERP kW	HAAT	DH	Distance	Lat	Lon
0	3.90	50	10	18.43	38.734434	-76.075139
5	3.90	47	0	17.82	38.728336	-76.057232
10	3.90	46	10	17.62	38.724735	-76.039864
15	3.90	44	0	17.16	38.717715	-76.023949
20	3.90	44	10	17.16	38.713658	-76.007497
25	3.90	46	10	17.62	38.712269	-75.989303
30	3.90	47	10	17.82	38.707429	-75.972441
35	3.90	48	10	18.02	38.701382	-75.956010
40	3.90	49	0	18.23	38.694169	-75.940130
45	3.90	50	10	18.43	38.685786	-75.924976
50	3.90	51	10	18.63	38.676284	-75.910681
55	3.90	49	10	18.23	38.662569	-75.903163
60	3.90	51	10	18.63	38.652321	-75.889279
65	3.90	50	10	18.43	38.638566	-75.882800
70	3.90	50	10	18.43	38.625193	-75.875752
75	3.90	49	10	18.23	38.610921	-75.872494
80	3.90	48	10	18.02	38.596636	-75.870898
85	3.90	48	10	18.02	38.582612	-75.868576
90	3.90	47	10	17.82	38.568488	-75.870140
95	3.90	47	10	17.82	38.554520	-75.870960
100	3.90	47	10	17.82	38.540661	-75.873333
105	3.90	48	10	18.02	38.526545	-75.875009
110	3.90	50	10	18.43	38.511802	-75.876066
115	3.90	51	10	18.63	38.497675	-75.881052
120	3.90	51	10	18.63	38.484719	-75.889712
125	3.90	51	10	18.63	38.472403	-75.899778
130	3.90	51	10	18.63	38.460820	-75.911173
135	3.90	51	0	18.63	38.450057	-75.923811
140	3.90	51	0	18.63	38.440195	-75.937595
145	3.90	51	0	18.63	38.431311	-75.952420
150	3.90	51	0	18.63	38.423470	-75.968173
155	3.90	51	0	18.63	38.416733	-75.984736
160	3.90	51	0	18.63	38.411149	-76.001983
165	3.90	51	0	18.63	38.406762	-76.019782
170	3.90	51	0	18.63	38.403605	-76.038000
175	3.90	51	0	18.63	38.401701	-76.056499
180	3.90	51	0	18.63	38.401065	-76.075139
185	3.90	51	0	18.63	38.401701	-76.093779
190	3.90	51	0	18.63	38.403605	-76.112277
195	3.90	51	0	18.63	38.406762	-76.130496
200	3.90	51	0	18.63	38.411149	-76.148295
205	3.90	51	0	18.63	38.416733	-76.165542
210	3.90	51	0	18.63	38.423470	-76.182104
215	3.90	51	0	18.63	38.431311	-76.197858
220	3.90	51	20	18.63	38.440195	-76.212683
225	3.90	51	20	18.63	38.450057	-76.226467
230	3.90	51	30	18.63	38.460820	-76.239105
235	3.90	51	30	18.63	38.472403	-76.250500
240	3.90	51	30	18.63	38.484719	-76.260566
245	3.90	51	20	18.63	38.497675	-76.269226
250	3.90	51	30	18.63	38.511171	-76.276413
255	3.90	51	30	18.63	38.525106	-76.282072
260	3.90	51	30	18.63	38.539373	-76.286159
265	3.90	51	30	18.63	38.553865	-76.288642
270	3.90	51	30	18.63	38.568471	-76.289501
275	3.90	51	30	18.63	38.583080	-76.288729
280	3.90	51	30	18.63	38.597581	-76.286330
285	3.90	51	40	18.63	38.611863	-76.282322
290	3.90	51	30	18.63	38.625817	-76.276735
295	3.90	51	10	18.63	38.639338	-76.269609
300	3.90	51	0	18.63	38.652321	-76.260999
305	3.90	51	0	18.63	38.664668	-76.250970
310	3.90	51	0	18.63	38.676284	-76.239597
315	3.90	51	0	18.63	38.687081	-76.226967
320	3.90	51	0	18.63	38.696976	-76.213175
325	3.90	51	0	18.63	38.705894	-76.198328
330	3.90	51	0	18.63	38.713765	-76.182537
335	3.90	51	0	18.63	38.720531	-76.165925
340	3.90	51	0	18.63	38.726138	-76.148617
345	3.90	51	0	18.63	38.730545	-76.130746
350	3.90	51	0	18.63	38.733717	-76.112448
355	3.90	51	10	18.63	38.735630	-76.093865

ComStudy 2.2 search of channel 219 (91.7 MHz Class A) at 38-34-07.2 N, 76-04-30.5 W.

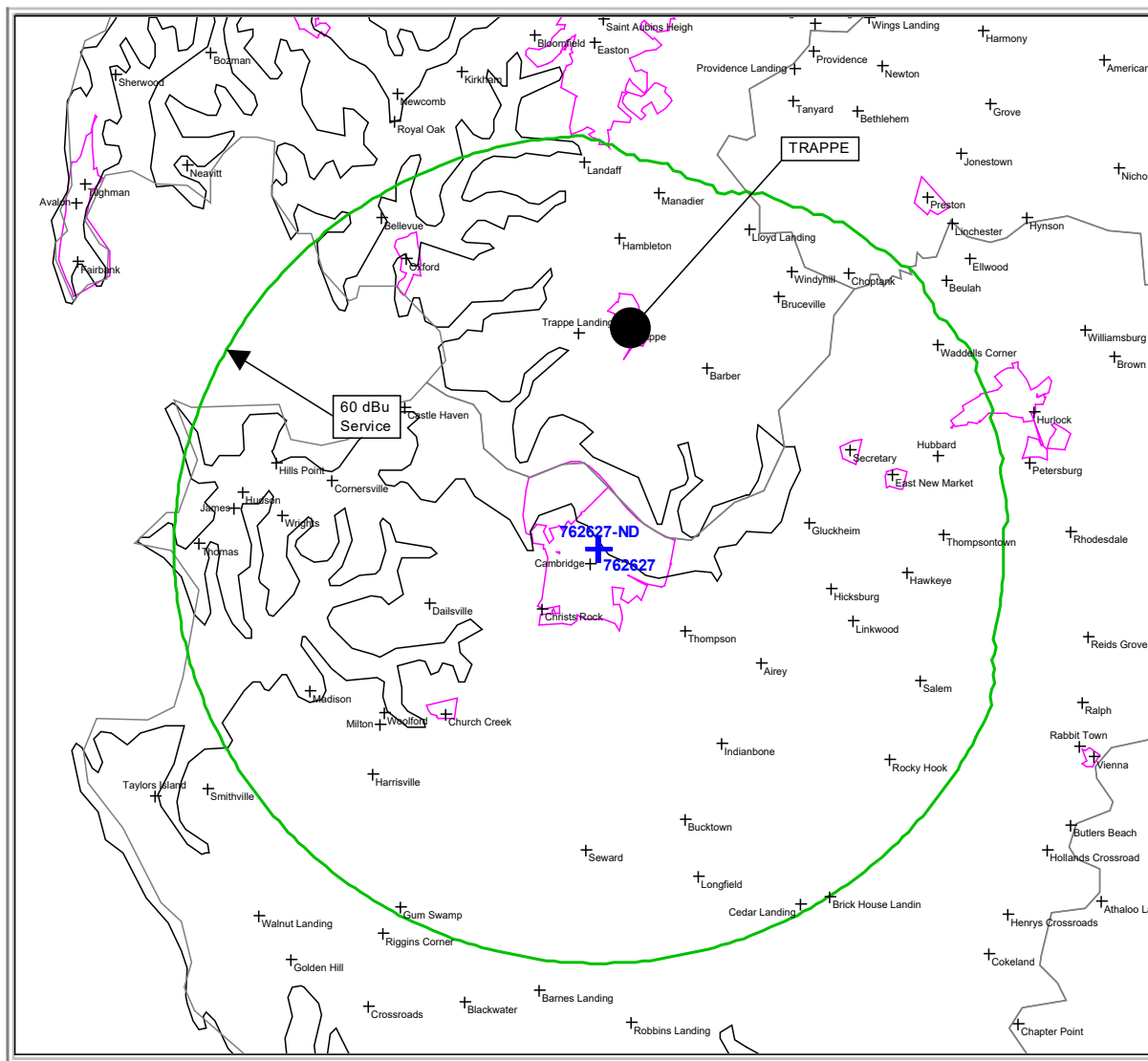
CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE
WRTX	DOVER	DE	219	A	82.96	115.00	32.0	0.06 dB
WGTS	TAKOMA PARK	MD	220	B	98.64	113.00	291.7	0.91 dB
WBJC	BALTIMORE	MD	218	B	107.11	113.00	328.3	0.86 dB
WESM	PRINCESS ANNE	MD	217	B	52.55	69.00	139.2	3.62 dB
766728	SPOTSYLVANIA	VA	219	A	146.75	115.00	252.8	10.30 dB
768418	FREDERICKSBURG	VA	219	B1	131.38	143.00	252.0	10.09 dB
767150	Courtland	VA	219	A	149.13	115.00	251.9	10.17 dB
WZWG	WEST GROVE	PA	219	A	139.86	115.00	5.7	11.35 dB
WZWG	WEST GROVE	PA	219	A	139.85	115.00	5.7	13.22 dB
WMPH	WILMINGTON	DE	219	A	142.44	115.00	19.9	13.76 dB
WLFR	POMONA	NJ	219	A	166.88	115.00	52.3	17.40 dB
WIXQ	MILLERSVILLE	PA	219	A	160.92	115.00	351.3	17.10 dB
WCUR	WEST CHESTER	PA	219	A	158.81	115.00	14.8	17.37 dB
WZXH	HAGERSTOWN	MD	219	A	172.05	115.00	305.8	18.93 dB
WDDE	DOVER	DE	216	B1	69.77	48.00	44.6	19.70 dB
WYCS	YORKTOWN	VA	218	B	156.39	113.00	195.3	19.79 dB
WKDU	PHILADELPHIA	PA	219	A	172.29	115.00	25.9	19.44 dB
WXHM	MIDDLETOWN	DE	220	A	101.80	72.00	17.2	20.67 dB
WXHM	MIDDLETOWN	DE	220	A	101.81	72.00	17.2	20.54 dB
WSMJ	NORTH WILDWOOD	NJ	220	A	118.73	72.00	62.8	21.99 dB
WHRE	EASTVILLE	VA	220	A	134.79	72.00	175.0	21.41 dB
WJAZ	SUMMERDALE	PA	219	A	208.87	115.00	337.8	22.75 dB
WBKU	AHOSKIE	NC	219	C1	292.24	200.00	200.4	24.84 dB
WBMR	TELFORD	PA	219	A	205.11	115.00	18.9	24.82 dB
WLBS	BRISTOL	PA	219	A	205.44	115.00	30.3	26.06 dB
WLNJ	LAKEHURST	NJ	219	A	216.59	115.00	39.1	26.07 dB
767399	AMELIA COURT HOUSE	VA	219	A	219.38	115.00	229.6	26.79 dB
WDDE	DOVER	DE	216	A	69.77	31.00	44.6	27.29 dB
WEMC	HARRISONBURG	VA	219	A	245.06	115.00	268.4	28.53 dB
WMUH	ALLENTOWN	PA	219	A	230.44	115.00	11.9	29.49 dB
WERQ-FM	BALTIMORE	MD	222	B	99.65	69.00	329.3	30.6
764203	Lake Monticello	VA	218	B	226.17	113.00	243.1	31.18 dB
WDBK	BLACKWOOD	NJ	218	A	162.04	72.00	33.1	31.77 dB
WSRN-FM	SWARTHMORE	PA	218	A	160.88	72.00	22.4	31.32 dB
WYTL	WYOMISSING	PA	220	A	179.84	72.00	3.3	32.83 dB
WBNJ	BARNEGAT	NJ	220	A	201.61	72.00	48.1	36.15 dB
WEQP	RUSTBURG	VA	219	A	300.97	115.00	242.6	37.34 dB
WNRN	CHARLOTTESVILLE	VA	220	A	220.63	72.00	253.5	37.85 dB
766643	Strasburg	VA	218	A	200.85	72.00	283.3	38.54 dB
WNRN	CHARLOTTESVILLE	VA	220	A	220.63	72.00	253.5	38.50 dB
WARN	CULPEPER	VA	217	B	154.48	69.00	277.7	38.04 dB
767321	Strasburg	VA	218	A	210.41	72.00	282.9	38.44 dB
WHFC	BEL AIR	MD	216	A	111.05	31.00	350.9	39.40 dB
767583	WOODSTOCK	VA	218	A	214.59	72.00	280.0	39.61 dB

§73.509 - Contour Protection



Red = Co-channel, Blue = First-adjacent, Black = Second/Third adjacent

§73.515 - Community Coverage



INFORMATION ABOUT APPLICATION

New-FM – Trappe, Maryland
Channel 219A – 91.7 MHz

This application is being filed to change from a directional to a nondirectional antenna at the same site, same height and same ERP. As this is simply a change to a nondirectional antenna, the facility will still continue to meet its original Fair Distribution obligations of 2,988 persons first NCE service and 23,731 persons second NCE service with no shift in that population.

SITE ASSURANCE INFORMATION

New-FM – Trappe, Maryland
Channel 219A – 91.7 MHz

Dale C. Price, III
Authorized Representative
410 228-8896

TV CHANNEL 6 CONSIDERATIONS

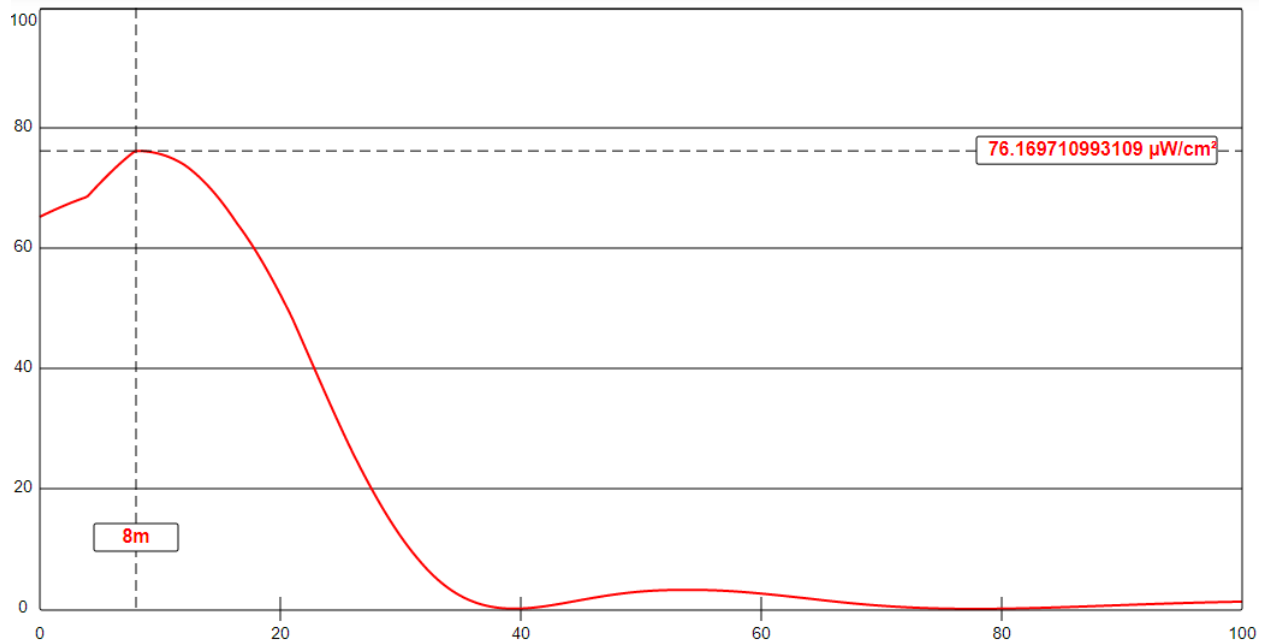
New-FM – Trappe, Maryland
Channel 219A – 91.7 MHz

Proposed facility is 179 km from WPVI(TV) Philadelphia

Pursuant to §73.525 of the Commission's Rules, this is not an affected TV station as it exceeds 159 km. Therefore, no additional study is necessary.

NEPA COMPLIANCE

New-FM – Trappe, Maryland
Channel 219A – 91.7 MHz



This study is based on 3.9 kW vertical and 3.9 kW horizontal ERP using a worst-case scenario hypothetical EPA-1 four bay antenna at full wave spacing at 47 meters RCAGL. It places a peak power density of 76.17 $\mu\text{W}/\text{cm}^2$ at this site. One other non-exempt station, WHCP-LP shares the tower. WHCP-LP operates 71 watts horizontal and vertical at 36 meters into a single bay EPA-1 antenna and places a peak power density of 2.47 $\mu\text{W}/\text{cm}^2$ for a total peak power density of 78.64 $\mu\text{W}/\text{cm}^2$. Using the Commission's FM MODEL software, it has been determined that there is no point that will exceed the general population/controlled exposure guideline of 200 $\mu\text{W}/\text{cm}^2$.

In the instant application, the applicant is certifying that the RF exposure in all occupied areas is well within the guidelines in accordance with OET Bulletin No. 65, Edition 97-01, August, 1997.

Prepared by,

/S/
Michelle Bradley, CBT
REC Networks

June 9, 2022