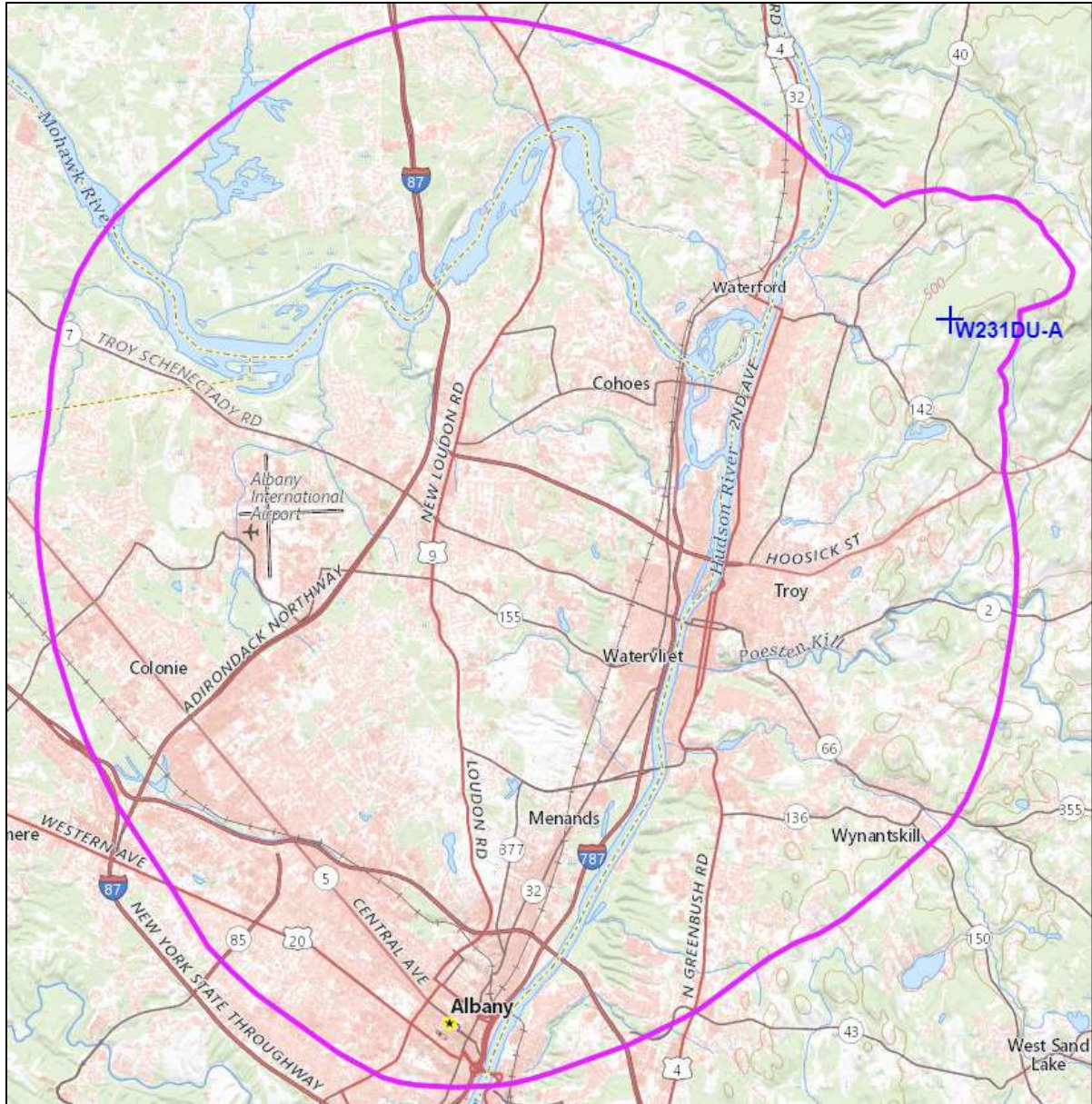




**REC Networks/Michelle Bradley, CBT**  
11541 Riverton Wharf Rd.  
Mardela Springs, MD 21837  
844.REC.LPFM/202.621.2355  
recnet.com

Minor modification to construction permit for **W231DU**  
**ALBANY, NY**  
**SARATOGA RADIO, LLC**  
**BNPFT-20171220AAN / MOD-0000089011**

### **PROPOSED 60dBu F(50,50) SERVICE CONTOUR**

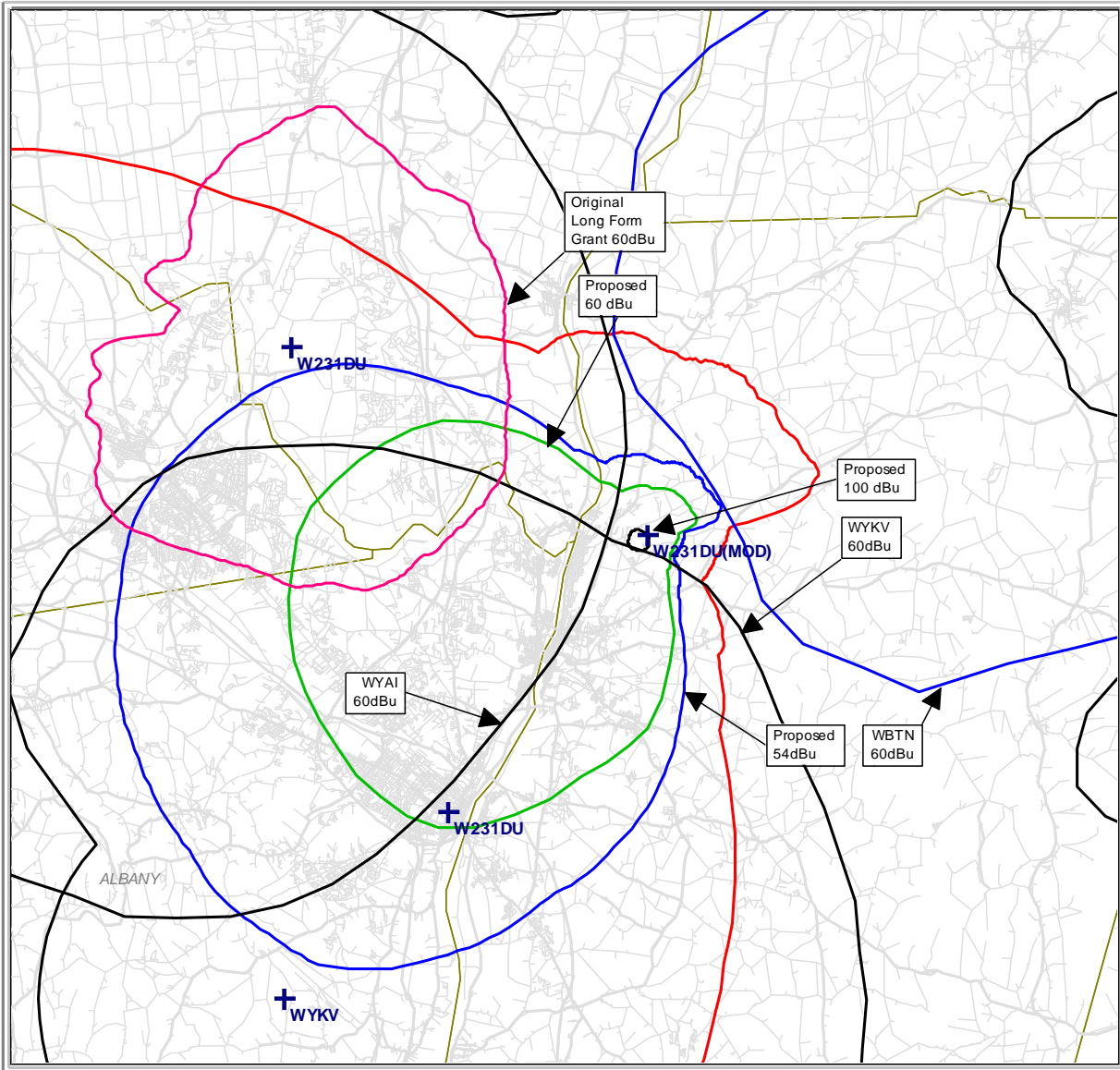


ALBANY, NY – Channel 231D ~ 94.1 MHz ~ ERP 0.250 kW (V)  
Elev: 289.6 meters ~ RCAGL: 25.9 meters ~ RCAMSL: 315.5 meters ~ HAAT: 167 meters  
Overall tower height: 224.8 meters – ASR: 1004249 ~ Scala CLFM-V Rotation 240  
NAD83 Latitude: 42° 47' 09.0" NL – Longitude: 73° 37' 41.0" WL  
NAD27 Latitude: 42° 47' 08.7" NL – Longitude: 73° 37' 42.6" WL

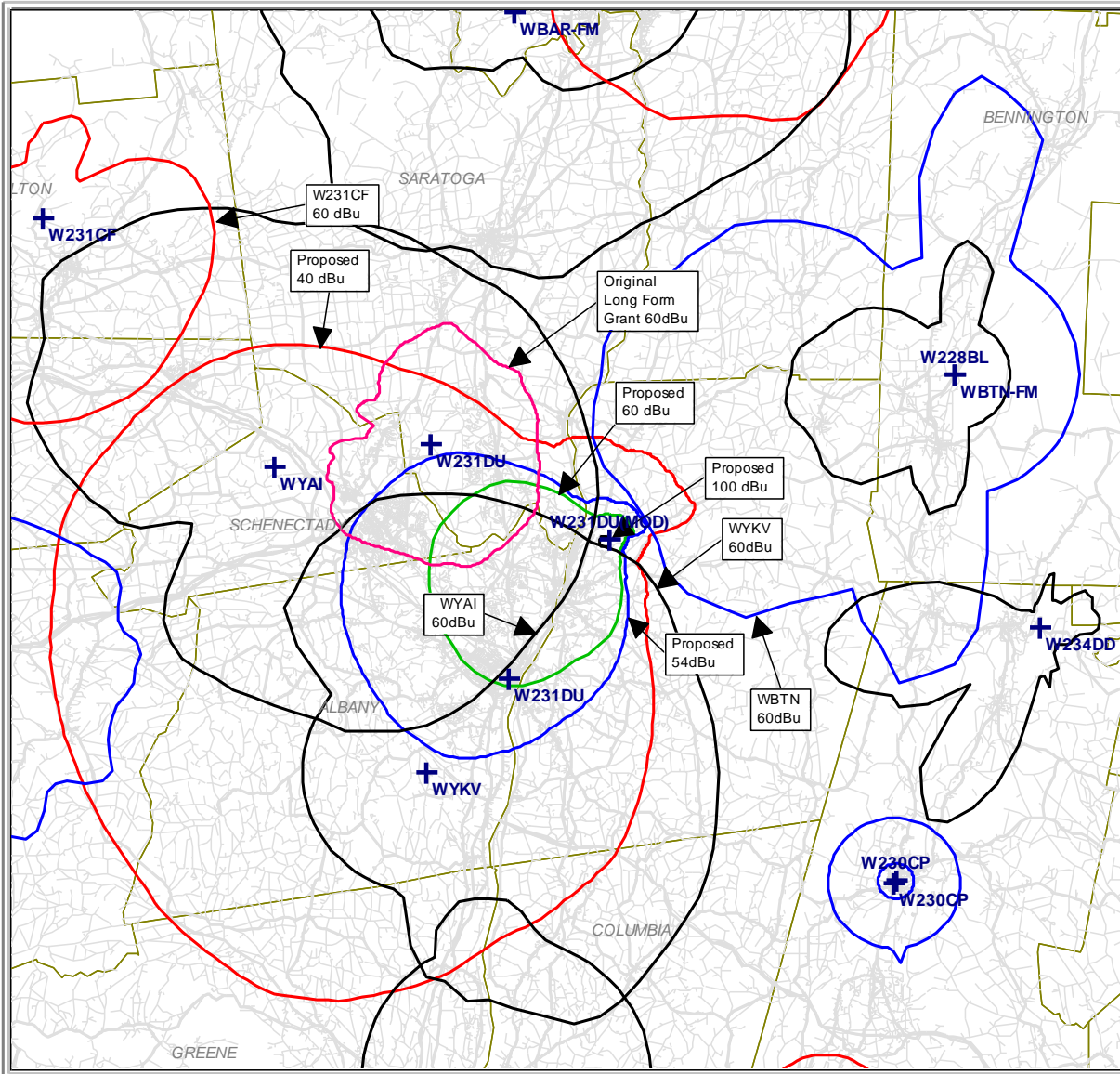
Site: W231DU(MOD)  
 Coordinates: 42-47-08.7 N, 73-37-42.6 W  
 Freq: 94.10000 MHz  
 ERP: 250.00 W

Bearing	ERP W	HAAT	DH	Distance	Lat	Lon
0	0.22	228	50	2.73	42.810341	-73.628500
5	0.22	205	60	2.65	42.809494	-73.625668
10	0.22	195	40	2.61	42.808869	-73.622943
15	0.26	185	110	2.68	42.809068	-73.619983
20	0.29	180	160	2.77	42.809153	-73.616889
25	0.32	172	130	2.83	42.808802	-73.613847
30	0.36	161	200	2.85	42.807964	-73.611017
35	0.38	150	110	2.82	42.806533	-73.608663
40	0.40	141	230	2.80	42.805026	-73.606451
45	0.40	141	380	2.80	42.803543	-73.604245
50	0.40	132	350	2.74	42.801565	-73.602807
55	0.40	136	250	2.76	42.800001	-73.600755
60	0.40	136	320	2.76	42.798172	-73.599168
65	0.40	141	640	2.80	42.796382	-73.597416
70	0.40	141	590	2.80	42.794353	-73.596272
75	0.40	119	520	2.65	42.791912	-73.597138
80	0.40	72	490	2.20	42.789177	-73.601994
85	0.38	24	560	1.69	42.787069	-73.607927
90	0.36	6	440	1.67	42.785748	-73.607996
95	0.32	-4	410	1.65	42.784457	-73.608392
100	0.29	-4	400	1.62	42.783217	-73.608936
105	0.26	-7	370	1.59	42.782042	-73.609655
110	0.22	-14	440	1.56	42.780943	-73.610513
115	0.22	-15	320	1.56	42.779811	-73.611152
120	0.22	-3	310	1.56	42.778724	-73.611923
125	0.22	5	240	1.56	42.777691	-73.612821
130	0.22	22	210	1.56	42.776718	-73.613837
135	0.22	47	200	1.72	42.774797	-73.613580
140	0.22	74	230	1.92	42.772554	-73.613417
145	0.22	101	240	2.11	42.770225	-73.613692
150	0.22	115	220	2.21	42.768558	-73.614980
155	0.40	139	200	2.78	42.763055	-73.614086
160	0.62	155	220	3.35	42.757477	-73.614485
165	3.60	152	150	5.52	42.737826	-73.611017
170	9.02	158	130	7.11	42.722814	-73.613395
175	21.02	165	80	9.04	42.704723	-73.618853
180	38.02	169	90	10.62	42.690211	-73.628500
185	54.52	169	70	11.59	42.681919	-73.640857
190	73.98	176	90	12.73	42.673014	-73.655536
195	95.17	182	120	13.75	42.666309	-73.672022
200	119.02	206	70	15.44	42.655258	-73.693071
205	141.75	226	170	17.00	42.647162	-73.716339
210	166.87	246	200	18.54	42.641279	-73.741846
215	187.49	260	190	19.63	42.641030	-73.766176
220	209.76	259	290	20.15	42.646832	-73.786851
225	224.68	255	280	20.34	42.656284	-73.804357
230	240.10	251	350	20.51	42.667005	-73.820697
235	245.02	244	420	20.33	42.680666	-73.832293
240	250.00	242	430	20.35	42.694011	-73.844213
245	245.02	243	340	20.29	42.708388	-73.853633
250	240.10	243	350	20.19	42.723399	-73.860809
255	224.68	245	310	19.94	42.739087	-73.864386
260	209.76	245	310	19.61	42.754886	-73.865005
265	187.49	247	190	19.14	42.770512	-73.862063
270	166.87	253	330	18.80	42.785519	-73.858955
275	141.75	256	330	18.14	42.799758	-73.850035
280	119.02	250	290	17.11	42.812285	-73.835073
285	95.17	249	170	16.06	42.822975	-73.818710
290	73.98	249	140	15.02	42.831828	-73.801619
295	54.52	249	150	13.93	42.838597	-73.783359
300	38.02	246	150	12.71	42.842844	-73.763557
305	21.02	241	180	10.93	42.842080	-73.738319
310	9.02	236	210	8.74	42.836228	-73.710584
315	3.60	236	280	6.77	42.828786	-73.687201
320	0.62	245	380	3.95	42.812989	-73.659663
325	0.40	255	230	3.44	42.811063	-73.652663
330	0.22	263	260	2.79	42.807473	-73.645597
335	0.22	274	160	2.80	42.808566	-73.643003
340	0.22	273	210	2.80	42.809398	-73.640233
345	0.22	263	190	2.79	42.809980	-73.637350
350	0.22	249	90	2.77	42.810321	-73.634406
355	0.22	247	90	2.77	42.810588	-73.631462

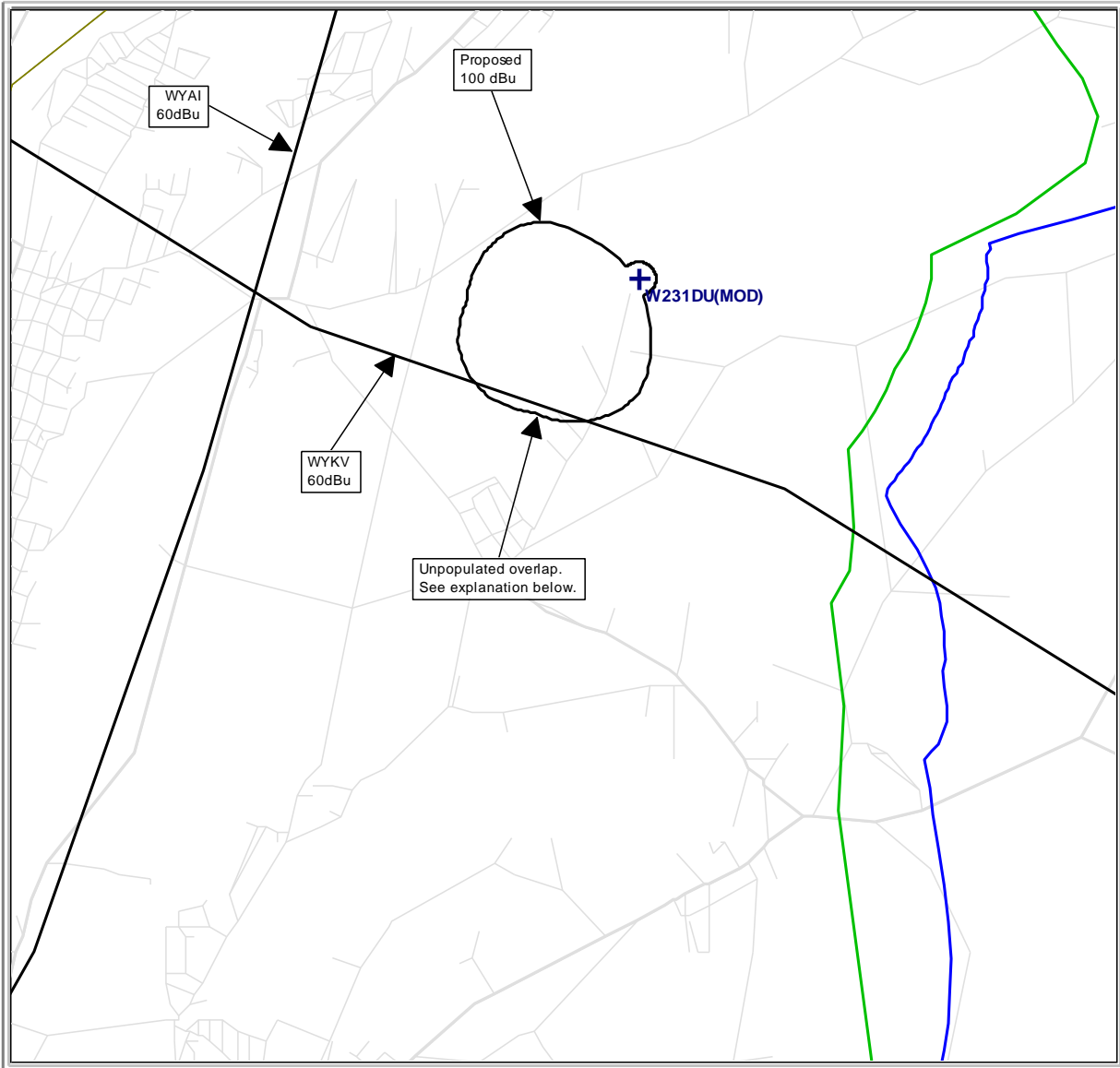
## W231DU Minor Change + Contour Protections



## W231DU Minor Change + Contour Protections



## W231DU Minor Change ~ 2nd/3rd Adjacent



## **REQUEST FOR WAIVER OF §74.1204(a)**

W231DU  
Albany, NY  
Channel 231D – 94.1 MHz

The proposed translator is a very slight *de minimis* 100 dBu overlap with the 60 dBu contour of WYKV, Ravena, NY. WYKV operates on Channel 233A with 3 kW effective radiated power (ERP) at 42 meters height above average terrain (HAAT).

A detailed evaluation of the small area in which there is overlap shows that the area of prohibited overlap consists of open field and an unoccupied outbuilding.

As a result, despite the slight second-adjacent channel overlap, the proposed operation of W231DU will not result in any interference to listeners of WYKV.

Therefore, applicant requests a waiver of §74.1204(a) in respect to WYKV, Ravena, New York.

Report prepared by:

Michelle Bradley, CBT  
REC Networks

September 22, 2020



## NEPA COMPLIANCE

W231DU  
Albany, NY  
Channel 231D – 94.1 MHz

NAD83 Latitude: 42° 47' 09.0" NL – Longitude: 73° 37' 41.0" WL

Level	Bays	Call Sign(Service)	Horizontal ERP	Vertical ERP
85m	1	W254DA (FX)	80	80
46m	2	WQBK (FM)	7,100	7,100
27m	1	W256BU (FX)	250	250
25.9m	1	W231DU (FX-APP)	0	250
23m	1	W226AC (FX)	250	250

Power density from the base of the tower ( $\mu\text{W}/\text{cm}^2$ ):

Meters->	0	5	10	15	20	25	30	35	40
W254DA	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
WQBK	122.8	134.1	146.1	142.8	135	115.9	95.3	70.9	49.6
W256BU	13.4	15.9	16	14.8	12.8	10.6	8.7	8.2	7.0
W231DU	11.8	13.9	13.5	12.0	9.9	7.6	6.1	5.7	4.7
W226AC	12.9	22.7	22.4	19.7	15.7	12.3	11.5	9.4	7.8
<b>Total</b>	161.3	187.0	198.4	189.8	173.9	146.9	122.1	94.7	69.6

The instant application is proposed for 250 watts (0.25 kW) vertical and 0 watts horizontal. Operation will be using a single bay Kathrein Scala CL-FM rear mount directional antenna. Based on all non-exempt FM services that are reported to be on this tower and using the Commission's FM MODEL software, it has been determined that there is no point that will exceed the general population/uncontrolled exposure guideline  $200 \mu\text{W}/\text{cm}^2$ . We note that the tower site is secured by fencing and is located in a remote mountainous area.

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.

Report prepared by:

Michelle Bradley, CBT  
REC Networks

September 22, 2020

## WABY(AM) FILL-IN

