Minor Change to WPUT(FM) at North Salem, New York

Facility ID 175564 ♦ Channel 211 (90.1 mHz.) ♦ June 8, 2020

TECHNICAL STATEMENT

Section 73.509 Allocation Study

Figures 1 and 2 depict the applicable service and interfering contours of all pertinent stations. (Key: same colors may not overlap.)

Where 40 dBu F(50,10) interfering contours from co-channels WGSK, WRXC, and WMFU most closely approach the proposed 60 dBu F(50,50) service contour, HAAT and distances to pertinent contours were determined in 1 degree increments.

HAAT along each radial was determined using the NOAA Globe Terrain Data option in the Commission's online HAAT Calculator. The distances to pertinent contours were then determined by employing the Commission's online FM and TV Propagation Curves program, as shown in Figure 5. All HAAT determinations over 360 degree circles are provided for each station in separate exhibits to the application. No prohibited overlap is created, but the population served within the 60 dBu contour will nearly double from 13,352 to 24,130. WPUT is now the only radio station operating in Putnam County, NY.

TV Channel 6 Protection

There are two full power TV or Class A LPTV stations on Channel 6 within 196 km. of WPUT. These are WRGB at Schenectady, NY, and WNYZ-LP at New York, NY. The proposed WPUT interfering contour on Channel 211 as determined from Section 73.599 Figure 1 is 47 dBu + 20.3 dB, or 67.3 dBu F(50,10).

As shown in Figure 3, the interfering contour from the proposed facility falls well outside the 47 dBu service contour of both of these TV Channel 6 facilities.

Environmental Considerations

The applicant proposes to employ its licensed antenna rotated 5 degrees clockwise. Therefore, this proposal will have no environmental impact other than RFR exposure.

With the facility operating with 440 Watts ERP, RFR field strength measurements were conducted on the premises of the antenna site and inside the building where the antenna is located. As stated in the letter in Figure 4 attached to License Application File No. BLED-20120628AAJ, at no point did RFR exceed 4.74% of the General Population Limit. The maximum RFR produced by the proposed facility will be greater by SQRT (1000/440) = 1.508 times, a maximum of 7.15% of the General Population Limit.

The applicant will reduce power or cease operation as to protect persons having access to the site, pole, or antenna from RFR exposure in excess of FCC guidelines.

Figure 1 – Allocation Study

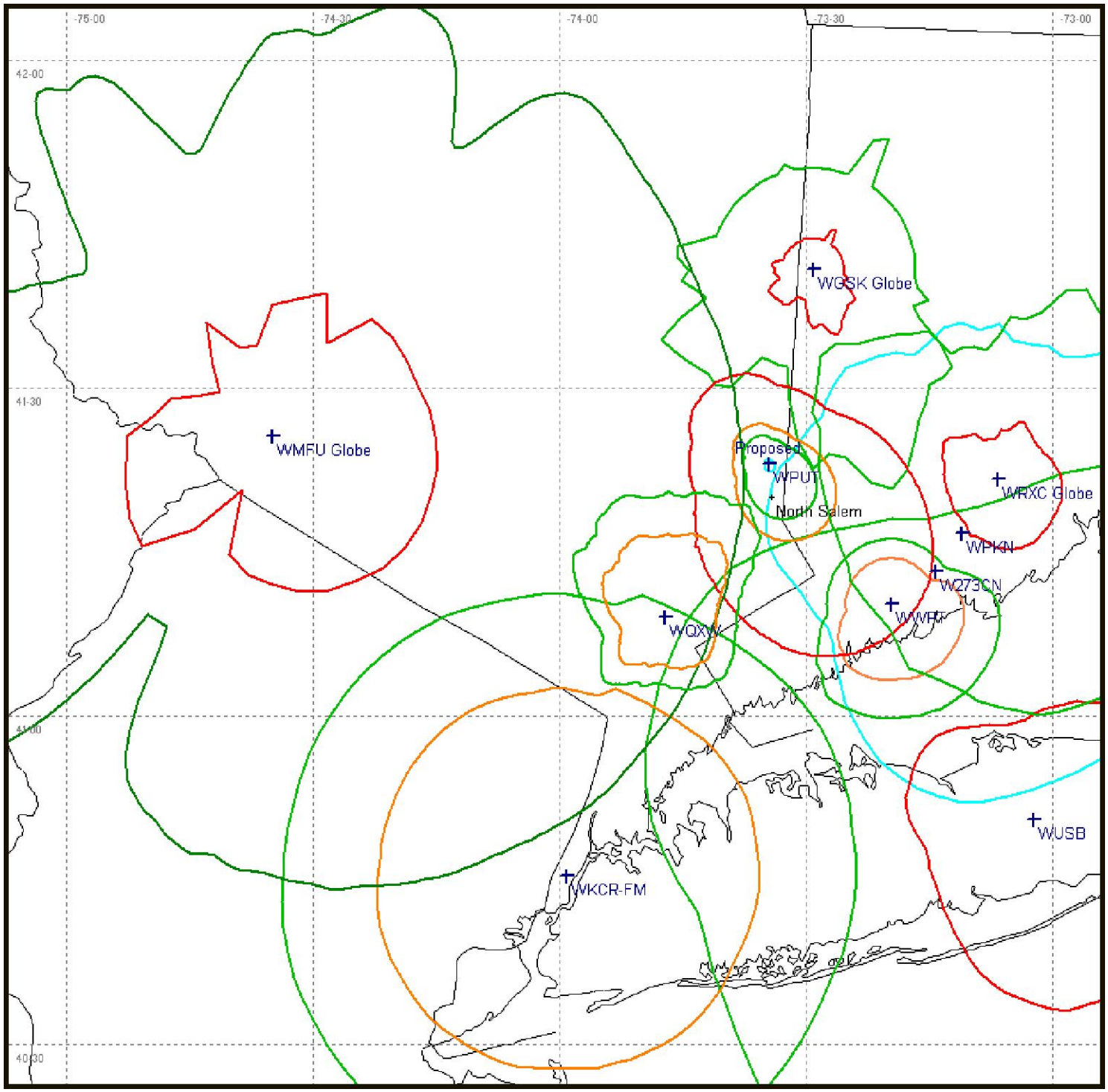


Figure 2 – Closeup Allocation Study

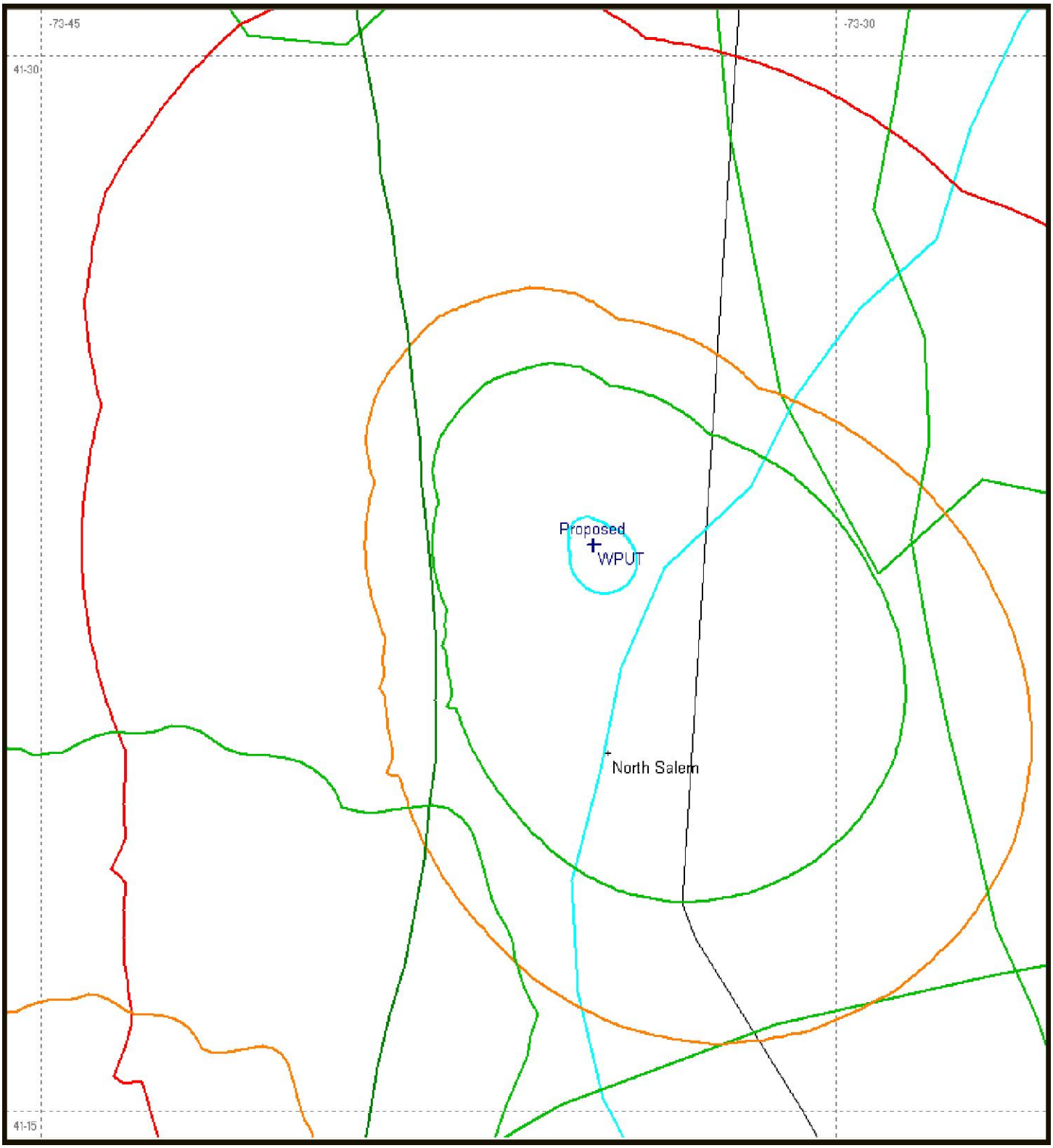


Figure 3 – TV Channel 6 Study

Proposed 67.3 dBu Interfering Contour

does not cross any TV Channel 6 47 dBu Service Contour

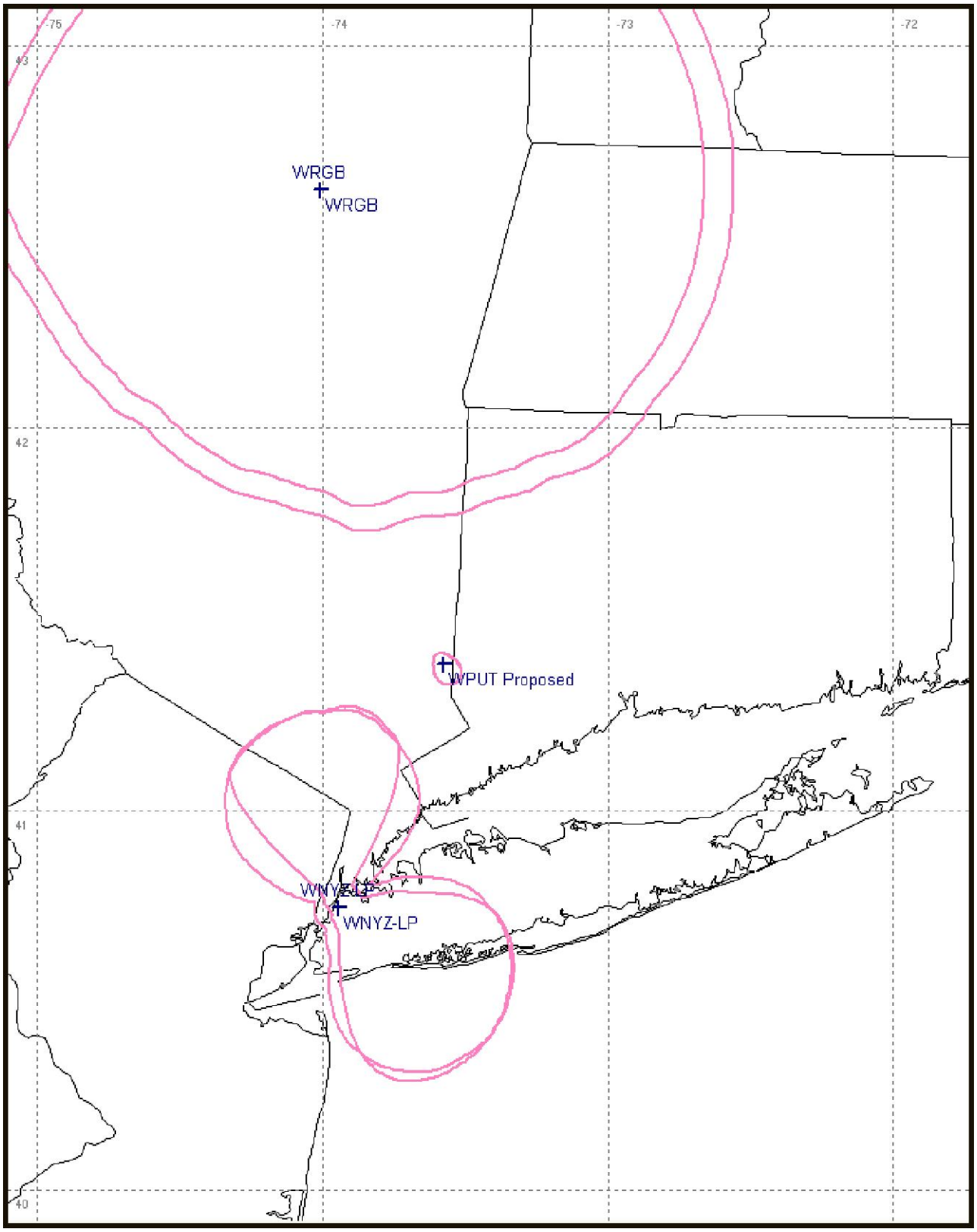
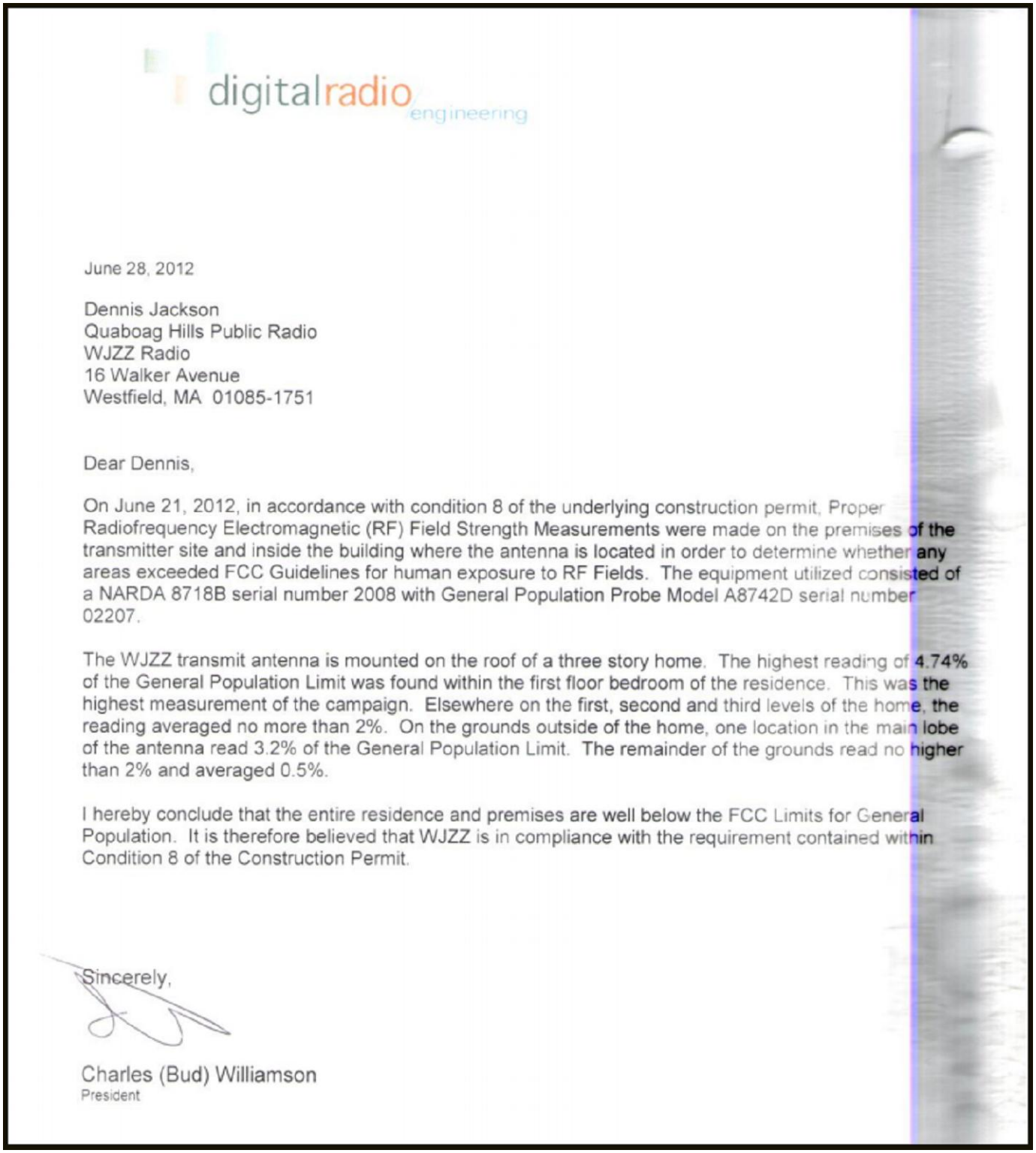


Figure 4 – RFR Study

As stated in the letter below from License Application File No BLED-20120628AAJ, with the licensed facility operating at 440 Watts ERP, at no point did RFR exceed 4.74% of the General Population Limit. The maximum RFR produced by the proposed facility at 1.0 kW can be expected to be greater by a factor of SQRT (1000/440) or 1.508, resulting in RFR exposure of 7.15% of the Limit.



digitalradio engineering

June 28, 2012

Dennis Jackson
Quaboag Hills Public Radio
WJZZ Radio
16 Walker Avenue
Westfield, MA 01085-1751

Dear Dennis,

On June 21, 2012, in accordance with condition 8 of the underlying construction permit, Proper Radiofrequency Electromagnetic (RF) Field Strength Measurements were made on the premises of the transmitter site and inside the building where the antenna is located in order to determine whether any areas exceeded FCC Guidelines for human exposure to RF Fields. The equipment utilized consisted of a NARDA 8718B serial number 2008 with General Population Probe Model A8742D serial number 02207.

The WJZZ transmit antenna is mounted on the roof of a three story home. The highest reading of 4.74% of the General Population Limit was found within the first floor bedroom of the residence. This was the highest measurement of the campaign. Elsewhere on the first, second and third levels of the home, the reading averaged no more than 2%. On the grounds outside of the home, one location in the main lobe of the antenna read 3.2% of the General Population Limit. The remainder of the grounds read no higher than 2% and averaged 0.5%.

I hereby conclude that the entire residence and premises are well below the FCC Limits for General Population. It is therefore believed that WJZZ is in compliance with the requirement contained within Condition 8 of the Construction Permit.

Sincerely,

Charles (Bud) Williamson
President

Figure 5 – Summary of Pertinent HAAT and Distance-To-Contour Calculations

HAAT along each radial was determined using the NOAA Globe Terrain Data option in the Commission's online HAAT Calculator. Distances to pertinent contours were then determined by employing the Commission's online FM and TV Propagation Curves program.

WPUT Globe Data To The West					WPUT Globe Data To The East			
Azimuth	HAAT (m)	ERP (Watts)	Dist to 60 dBu F(50,50) (km)		Azimuth	HAAT (m)	ERP (Watts)	Dist to 60 dBu F(50,50) (km)
220	33.9	97.339	5.914		85	<30	174.725	6.479
221	33.1	93.029	5.787		86	<30	182.326	6.549
222	31.4	88.808	5.583		87	<30	191.848	6.635
223	<30	84.677	5.404		88	<30	201.600	6.719
224	<30	80.656	5.338		89	<30	211.602	6.801
225	<30	76.725	5.270		90	<30	221.844	6.881
226	<30	73.445	5.210		91	<30	232.326	6.959
227	<30	70.224	5.150		92	<30	243.049	7.038
228	<30	67.604	5.098		93	<30	254.021	7.118
229	30.5	64.513	5.075		94	<30	265.223	7.197
230	30.9	62.002	5.054		95	<30	276.675	7.273
231	31.4	59.052	5.028					
232	32.2	56.641	5.036					
233	32.7	53.821	5.007					
234	32.0	51.530	4.899					
235	<30	48.840	4.679		WGSK Globe Data			
236	<30	46.659	4.621					
237	<30	44.949	4.574					Dist to 40 dBu
238	<30	43.269	4.525		Azimuth	HAAT (m)	ERP (Watts)	F(50,10) (km)
239	<30	41.618	4.480					
240	<30	39.998	4.438		180	106.70	77.0	33.728
241	<30	38.808	4.406		181	102.00	77.0	32.887
242	<30	37.247	4.362		182	97.20	77.0	31.975
243	<30	35.717	4.318		183	92.00	77.0	30.968
244	<30	34.227	4.272		184	86.30	77.0	29.868
245	<30	32.757	4.226		185	78.40	77.0	28.354
246	<30	31.686	4.190					
247	<30	31.686	4.190					
248	<30	31.686	4.190					
249	<30	31.686	4.190					
250	<30	31.686	4.190		WRXC Globe Data			
251	<30	31.686	4.190					
252	<30	31.686	4.190					Dist to 40 dBu
253	<30	31.686	4.190		Azimuth	HAAT (m)	ERP (Watts)	F(50,10) (km)
254	<30	31.686	4.190					
255	<30	31.686	4.190		267	105.00	45	28.978
256	<30	31.686	4.190		268	106.70	45	29.228
257	<30	31.686	4.190		269	108.40	45	29.471
258	<30	31.686	4.190		270	110.20	45	29.727
259	<30	31.686	4.190		271	110.20	45	29.727
260	<30	31.686	4.190		272	110.10	45	29.713
261	<30	31.686	4.190					
262	<30	31.686	4.190					
263	<30	31.686	4.190					
264	<30	31.686	4.190					
265	<30	31.686	4.190		WMFU Globe Data			
266	<30	31.686	4.190					
267	<30	31.686	4.190					Dist to 40 dBu
268	<30	31.686	4.190		Azimuth	HAAT (m)	ERP (Watts)	FF(50,10) (km)
269	<30	31.686	4.190					
270	<30	31.686	4.190		90	221.5	1100	79.340
271	<30	31.686	4.190		91	223.5	1100	79.567
272	<30	31.686	4.190		92	225.3	1100	79.770
273	<30	31.686	4.190		93	226.7	1100	79.927
274	<30	31.686	4.190		94	227.5	1100	80.016
275	<30	31.686	4.190		95	229.4	1100	80.226
276	<30	31.686	4.190		96	231.0	1100	80.401
277	<30	31.686	4.190					
278	<30	31.686	4.190					
279	<30	31.686	4.190					
280	<30	31.686	4.190					