

Minor Amendment of Transmitter Location BPH-20140804ADC; WWBB Facility ID No.: 54568 August 2014

This application seeks to amend BPH-20140804ADC, which is one of three applications of a coordinated contingent group of minor change applications involving stations WCIB, Falmouth, MA, Facility ID 2683, WBWL, Lynn, MA, Facility ID 40824, and WWBB, Providence, RI, Facility ID 54568. By this application, WWBB seeks to specify a new transmitter location, utilizing an existing tower on the roof of the “One Financial Plaza” building in Providence, Rhode Island.

The station will downgrade channel class from B to A, change transmitter location, specify use of a directional antenna, and specify use of Section 73.215, to accommodate a facilities modification by WBWL.

Presently WWBB as a Class B facility is short spaced with WBWL Class A pursuant to Section 73.213(a); a short spacing which has been continuous since prior to November 1964. This coordinated contingent group of minor change applications will eliminate that short spacing.

Attached as **Figure 1** is a spacing study conducted at the proposed Class A, WWBB antenna location¹, which includes all known facilities, applications and allocations, as well as the planned modified facilities of WBWL and WCIB. This Figure confirms that the WWBB antenna location will be fully spaced in accordance with Section 73.207 with all known facilities, except with the licensed and contingent modified facilities of WBWL. Section 73.215 compliance with these facilities will be demonstrated. Attached as **Figure 2** is the proposed antenna directional pattern, which was used to produce **Figure 3**, a map of predicted principal community signal, demonstrating that the entire WWBB principal community will receive the required level of signal.

As the proposed WWBB facility is short of the required Section 73.207 spacing distance to the proposed licensed and the contingent WBWL Class A non-directional facility, which will itself use Section 73.215, it is proposed to use Section 73.215 for this proposed WWBB Class A facility to demonstrate compliance with regard to WBWL. As shown in **Figure 4**, no prohibited contour overlap is predicted to be created by this proposal.

The proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, “Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation.”

The proposed 1-bay antenna system is to be mounted 129.53 meters above ground, 6.4 meters above the building rooftop, which is a controlled work location. The licensee will take power density measurements and make any needed changes to access procedures and marking of the rooftop prior to filing of an application for license to be in compliance with 73 CFR 1.1306.

¹

41-49-30.4 N 71-24-38.0 W (NAD 27), an existing tower with no registration required on the roof of One Financial Plaza, Providence, Rhode Island

Figure 1. WWBB Proposed Antenna Location Spacing Study

WWBB at 1-FC 8-19-2014

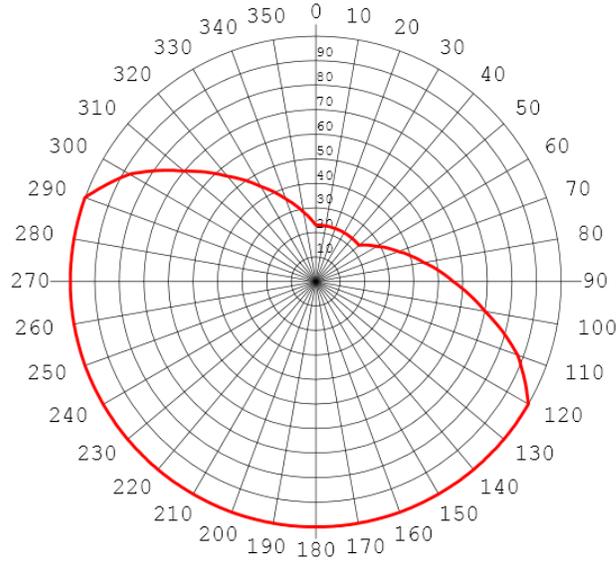
REFERENCE
 41 49 30.4 N. CLASS = A Int = A
 71 24 38.0 W. Current Spacings to 3rd Adj.
 ----- Channel 268 - 101.5 MHz -----

DISPLAY DATES
 DATA 08-19-14
 SEARCH 08-19-14

Call	Channel	Location		Azi	Dist	FCC	Margin
WWBB	APP-Z 268A	Providence	RI	126.8	8.15	115.0	-106.9
WBWL	LIC-Z 269A	Lynn	MA	26.3	65.45	72.0	-6.6
WBWL	APP-N 269A	Lynn	MA	26.3	65.45	72.0	-6.6
WCIB	APP-Z 270B	Falmouth	MA	113.4	73.98	69.0	5.0
WCIB	LIC 270B	Falmouth	MA	113.4	73.98	69.0	5.0
WJHD	LIC 214A	Portsmouth	RI	155.2	27.35	10.0	17.4
Horizontally Polarized only							
WKCI-FM	LIC-N 267B	Hamden	CT	251.7	135.12	113.0	22.1
WPDH	LIC 268B	Poughkeepsie	NY	267.7	215.32	178.0	37.3
WRSY	LIC-N 268A	Marlboro	VT	317.7	154.73	115.0	39.7
WBUR-FM	LIC-D 215B	Boston	MA	15.9	55.75	15.0	40.8
WAQY	LIC 271B	Springfield	MA	285.5	111.04	69.0	42.0
WKNL	LIC-Z 265A	New London	CT	235.1	74.36	31.0	43.4
WHYA	LIC-N 266A	Mashpee	MA	99.4	89.74	31.0	58.7
WGIR-FM	LIC 266B	Manchester	NH	353.6	129.30	69.0	60.3
WCNI	LIC 215A	New London	CT	229.8	76.20	10.0	66.2
WBEA	LIC 269A	Southold	NY	222.9	144.20	72.0	72.2

Figure 2. WWBB Directional Antenna Pattern

WWBB at 1-FC Pattern



Azi	Rel	dBk	kW	dB	Azi	Rel	dBk	kW	dB
0	0.230	-4.98	0.32	-12.77	180	1.000	7.78	6.00	0.00
10	0.230	-4.98	0.32	-12.77	190	1.000	7.78	6.00	0.00
20	0.230	-4.98	0.32	-12.77	200	1.000	7.78	6.00	0.00
30	0.230	-4.98	0.32	-12.77	210	1.000	7.78	6.00	0.00
40	0.230	-4.98	0.32	-12.77	220	1.000	7.78	6.00	0.00
50	0.230	-4.98	0.32	-12.77	230	1.000	7.78	6.00	0.00
60	0.287	-3.06	0.49	-10.84	240	1.000	7.78	6.00	0.00
70	0.358	-1.14	0.77	-8.92	250	1.000	7.78	6.00	0.00
80	0.447	0.79	1.20	-6.99	260	1.000	7.78	6.00	0.00
90	0.560	2.75	1.88	-5.04	270	1.000	7.78	6.00	0.00
100	0.700	4.68	2.94	-3.10	280	1.000	7.78	6.00	0.00
110	0.875	6.62	4.59	-1.16	290	1.000	7.78	6.00	0.00
120	1.000	7.78	6.00	0.00	300	0.875	6.62	4.59	-1.16
130	1.000	7.78	6.00	0.00	310	0.700	4.68	2.94	-3.10
140	1.000	7.78	6.00	0.00	320	0.560	2.75	1.88	-5.04
150	1.000	7.78	6.00	0.00	330	0.447	0.79	1.20	-6.99
160	1.000	7.78	6.00	0.00	340	0.358	-1.14	0.77	-8.92
170	1.000	7.78	6.00	0.00	350	0.287	-3.06	0.49	-10.84

Rotation Angle = 0

Figure 3. Map of Principal Community Coverage

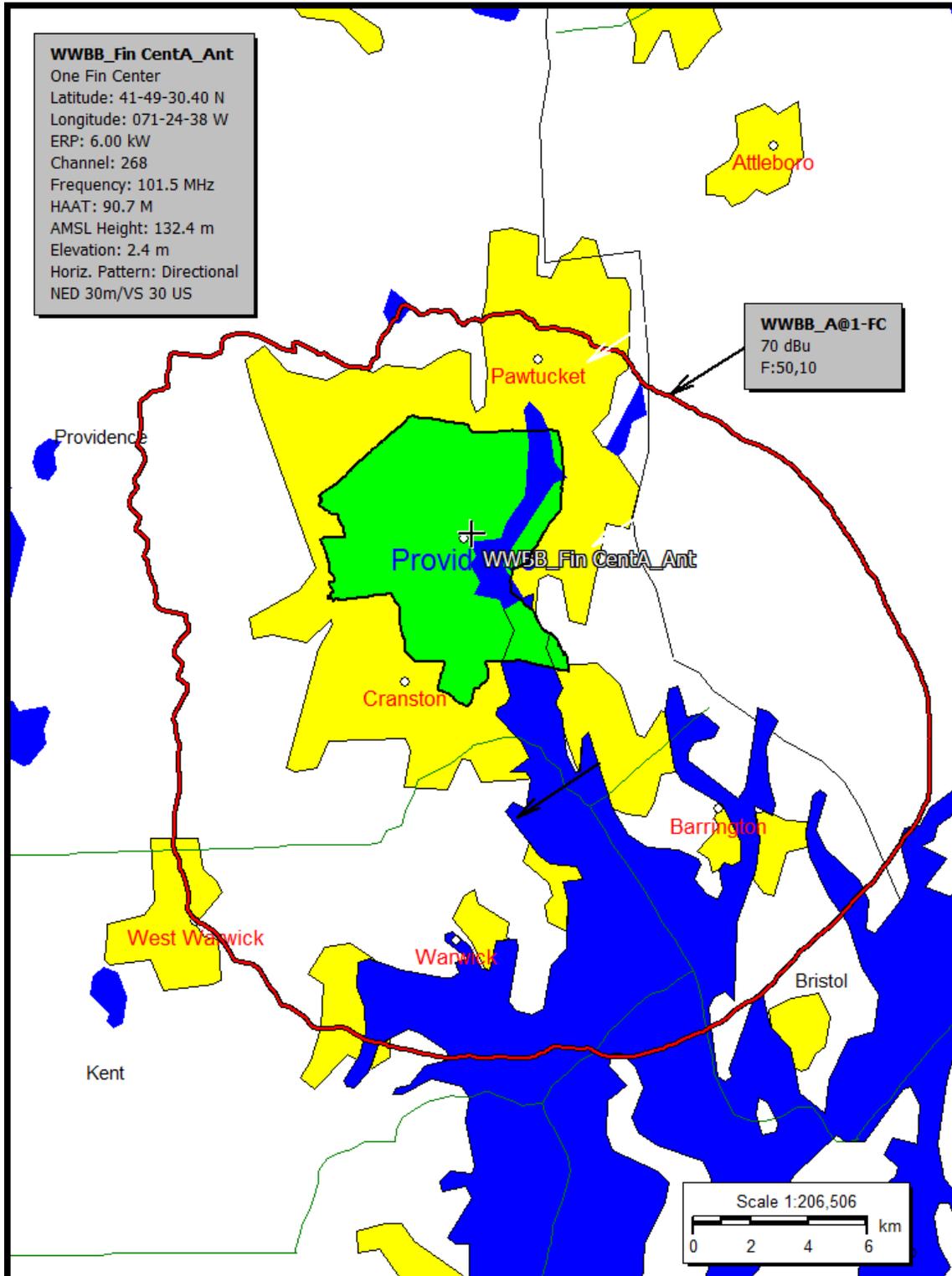


Figure 4. Map of Predicted WBWL and WWBB Protected and Interfering Contours

