

Long Form Engineering Exhibit

Auction 83; BNPFT – 20130317AHB

Facility ID No. 140790

This exhibit is part of the Long-Form application of Facility ID No. 140790, BNPFT – 20130317AHB. It specifies a change in location, power, antenna elevation, and antenna model only.

Antenna Location

The proposed facility antenna is to be mounted on an existing tower identified by registration number 1004484 at 57 meters above ground, having a horizontal plane azimuth gain pattern as given in **Figure 0** below. Below as **Figure 1** is an overlap and spacing study from which it can be determined that this proposal has no prohibited contour overlap with other authorized facilities or prior filed applications.

Fill-in and Minor Change Status

This proposal is to serve as a fill-in translator for station WHYN-FM, Facility ID 55758, Springfield, MA. The map of **Figure 2** demonstrates that the proposed 60 dBu contour is contained within that of the WHYN-FM facility. It can also be seen that the proposed and permitted facilities have service contour overlap.

RF Fields Statement

The proposed facilities were evaluated in terms of potential radio frequency energy 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 antenna system is a **Scala/Kathrein, CL-FM/VRM**, mounted 57 meters above ground. As this element type is not modeled in any current RF Fields calculation computer program, for purposes of this analysis the FM Model application at FCC.Gov has been set to calculate values for an array of "worst case" type of antenna element "Ring Stub", operated with an effective radiated power of 0.25 Kilowatts in the Vertical plane. At 2 meters above the surface, at 12.6 meters from the base of the tower, this proposal will contribute worst case, 2.6 microwatts per square centimeter, or 0.26 percent of the allowable ANSI limit for controlled exposure, and 1.3 percent of the allowable limit for uncontrolled exposure. This figure is less than 5.0% of the applicable FCC exposure limit at all locations extending out from the base of the tower. Section 1.1307(b)(3) excludes applications when the calculated level is predicted to be less than 5.0% of the applicable exposure limit. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Figure 1. Overlap and Spacing Study

Long Form 144790 at Nextar Tower CLFM AT 75°T V-POL

REFERENCE CH# 247D - 97.3 MHz, Pwr= 0.25 kW DA, HAAT= 167.9 M, COR= 252.1 M DISPLAY DATES
 42 05 04.7 N. Average Protected F(50-50)= 17.0 km DATA 08-09-18
 72 42 13.7 W. Standard Directional SEARCH 08-09-18

CH CITY	CALL	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	=IN* (Overlap)	=OUT* (in km)
247D Westfield	637213	APP _C_ MA	78.0 258.1	9.57 BNPFT20030317AHB	42 06 09.0 72 35 25.0	0.100 -13	18.6 51	5.6 Capstar TX Limited Partner	-27.7*<	-54.6*<
247A Litchfield	WZBG	LIC _CX CT	230.6 50.3	49.30 BMLH20150701ACV	41 48 09.0 73 09 49.8	3.000 100	81.7 411	27.6 Local Girls And Boys Broad	-34.8*<	13.2
247A Orange	WJDF	LIC _C_ MA	24.5 204.7	63.13 BLH19950814KC	42 36 03.0 72 23 01.0	5.800 25	67.5 255	15.6 Deane Brothers Broadcastin	-16.7*<	6.5
246D Bolton	W246CC	LIC _C_ CT	145.2 325.4	38.10 BLFT20110125ABH	41 48 10.0 72 26 30.0	0.100 187	24.8 328	16.5 Red Wolf Broadcasting Corp	5.2	10.0
250A Windsor Locks	WUCS	LIC _ZCX CT	176.4 356.4	35.42 BLH20120123AEO	41 46 00.0 72 40 38.0	3.400 135	2.7 183	29.8 Capstar TX, LLC, As Debtor	30.1	5.6
247B New Bedford	WJFD-FM	LIC _CX MA	107.5 288.8	159.67 BLH20120913AAL	41 38 14.8 70 52 16.7	50.000 152	136.0 161	63.3 Wjfd-fm, Inc.	7.1	26.5
249D Springfield	W249DP	CP _DC_ MA	77.7 257.9	29.97 BPFT20180713AAD	42 08 30.0 72 20 55.0	0.250	1.0 356	20.3 Kurt Jackson	10.2	8.6
249D Springfield	W249DP	LIC _DC_ MA	77.7 257.9	29.97 BLFT20171205ACE	42 08 30.0 72 20 55.0	0.200	0.9 356	19.4 Kurt Jackson	10.3	9.5
248D Windsor	W248CR	LIC _C_ CT	175.4 355.4	25.80 BLFT20171026AAF	41 51 12.0 72 40 43.0	0.250	10.9 78	7.6 Gois Broadcasting Of Conne	12.3	14.1
245D Amherst	W245BK	LIC _DC_ MA	4.4 184.4	32.22 BLFT20141003AAT	42 22 25.0 72 40 26.0	0.250	1.1 249	17.5 Saga Communications Of Ne	24.0	14.5
248L1 Dudley	WNRC-LP	LIC _ _ MA	93.7 274.3	63.93 BLL20050223ACH	42 02 40.0 71 55 52.0	0.031 53	223	39.8 Nichols College		32.6
246D Putnam	W246DN	CP _C_ CT	106.6 287.1	69.78 BNPFT20171201AIN	41 54 09.0 71 53 44.0	0.250	10.1 136	7.1 Osbreyc Broadcasting Compan	43.0	37.7
249D Torrington	W249CW	LIC _C_ CT	234.6 54.3	46.64 BLFT20170501AAL	41 50 26.0 73 09 46.0	0.010	0.2 399	6.4 Connecticut Public Broadca	44.1	40.3
246D Pittsfield	W246DM	CP _V_ MA	313.3 132.9	63.59 BNPFT20171212ABO	42 28 31.0 73 16 07.0	0.250	10.1 437	7.1 wbrk, Inc.	51.0	52.7
247D Old Saybrook	W247DE	CP _DC_ CT	162.6 342.9	88.15 BNPFT20180418AAG	41 19 38.6 72 23 19.7	0.250	33.8 110	10.1 Crossroads Communications	51.7	67.8
249D Waterbury	W249DY	CP _DC_ CT	191.5 11.4	59.15 BNPFT20180426AAO	41 33 47.0 72 50 42.0	0.250	0.1 351	5.5 watr Inc	56.7	53.6
248A Hoosick Falls	WHAZ-FM	LIC _CX NY	333.6 153.2	96.87 BLH20070126ADA	42 51 49.0 73 13 59.0	0.420 361	34.6 730	23.1 Capital Media Corporation	59.9	70.1
246L1 Higganum	WNBW-LP	LIC _ _ CT	142.2 322.6	79.97 BLL20131216CJX	41 30 52.0 72 06 56.0	0.100	68	62.4 Connecticut River Educatio		61.0
247A Schoharie	WMYN	LIC _NC_ NY	295.8 114.8	142.05 BLH20070604AAT	42 37 51.0 74 16 01.0	0.800 273	77.9 659	27.1 Capital Media Corporation	61.9	107.2
249A Norwich	WCTY	LIC _CN CT	143.6 324.0	84.12 BLH19920206KD	41 28 28.0 72 06 14.0	1.900 125	2.0 194	21.8 Hall Communications, Inc.	73.2	62.1
249A Keene	WSNI	LIC _CX NH	18.2 198.4	97.32 BLH20090901AFG	42 54 57.0 72 19 53.0	2.150 169	2.7 432	34.7 Saga Communications Of New	84.5	62.2
244A Brattleboro	WTSA-FM	LIC _CN VT	4.7 184.8	89.75 BLH19910821KF	42 53 21.0 72 36 47.0	5.200 41	2.3 330	23.8 Four Seasons Media, Inc.	80.2	65.8
248B Patchogue	WALK-FM	LIC _DCN NY	191.4 11.2	140.56 BLH19910524KA	40 50 41.0 73 02 01.0	39.000 169	72.3 192	61.1 Connoisseur Media Licenses	65.9	74.0
245D New Haven	W245DK	CP _DC_ CT	195.7 15.5	76.40 BNPFT20180507ABG	41 25 21.9 72 57 06.5	0.215	0.2 364	10.4 Cc Licenses, LLC	73.8	65.9
248D Kent	W248CZ	CP _DC_ CT	239.4 58.8	80.20 BNPFT20171206ACK	41 42 50.0 73 32 07.0	0.250	12.0 436	8.5 Tri-state Public Communica	65.9	68.2

Figure 2. Contour Map

