

**June 2009
WKAF(FM) Channel 249A
Brockton, MA
Allocation Study**

The attached spacing study shows that the proposed operation meets the co-channel and adjacent channel spacing requirements for Class A stations as prescribed in §73.207 of the Commission's Rules, with the exception of short-spacings to the licensed operations of WJFD-FM Channel 247B New Bedford and WCTK 251B New Bedford.

WKAF has been on the air since 1948, and operates as a grandfathered "pre-1964" short-spaced station with respect to WJFD-FM and WCTK under §73.213(a) of the Commission's Rules. WKAF is second-adjacent to WJFD-FM and WCTK, and per §73.213(a)(4) there are no distance separation or interference protection requirements with respect to second-adjacent channel short-spacings that have existed continuously since November 16, 1964.¹

WKAF is currently authorized as a §73.215 short-spaced station, but not to WJFD-FM or WCTK. The station secured authorization to operate from this site in 2005 as a §73.215 short-spaced operation with respect to WSNI (then WOQL) Channel 249A Winchendon. Since that time, WSNI has relocated its transmitter site and relicensed to Swanzey, and currently holds a construction permit to relicense to Keene. WKAF is no longer short-spaced with WSNI, and therefore the instant application does not request §73.215 processing.

¹ For example, in 1988 WKAF was licensed at coordinates of NL 42-02-54 x WL 71-03-19, which location was 21 km short-spaced to WJFD-FM and 20 km short-spaced to WCTK. See BLH-19880304KA. Earlier licensed coordinates for WKAF are not readily available, but in all likelihood the station operated from the 1988 site from its inception as this is the site of WXBR 1460 kHz Brockton, with which WKAF was originally co-owned.

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SEARCH PARAMETERS FM Database Date: 090615

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Channel: 249A 97.7 MHz

Latitude: 42 12 42

Longitude: 71 6 51

Safety Zone: 32 km

Job Title: WKAF 249A BROCKTON

Call Status	City St	FCC File No.	Channel Freq.	ERP(kw) HAAT(m)	Latitude Longitude	Bearing deg-True	Dist (km)	Req (km)
WJFD-FM LIC	NEW BEDFORD MA	BEDFORD BLH-831028AA	247B 97.3	50.000 152.0	41-38-20 070-52-27	162.6	66.66 -2.34	69 SHORT
NOTE: GRANDFATHERED PRE-1964 SHORT-SPACING								
WNRC-LP LIC	DUDLEY MA	BLL-50223ACH	248L1 97.5	0.031 52.7	42-02-40 071-55-52	254.8	70.06 0.00	0 LPPM
WOKQ LIC	DOVER NH	BLH-940214KE	248B 97.5	50.000 150.0	43-13-26 070-58-18	5.9	113.05 0.05	113 CLOSE
WCTYaux LIC	NORWICH CT	BLH-920324KA	249A 97.7	3.000 91.0	41-28-28 072-06-14	225.3	116.03 0.00	0 AUX
WCTY LIC	NORWICH CT	BLH-920206KD	249A 97.7	1.900 125.0	41-28-28 072-06-14	225.3	116.03 1.03	115 CLOSE
WKAFaux LIC	BROCKTON MA	BXLH-71221AAV	249A 97.7	2.700 148.0	42-07-28 071-00-05	136.2	13.44 0.00	0 AUX
WKAF LIC	BROCKTON MA	BLH-60620ABK	249A 97.7	1.700 173.0	42-12-42 071-06-51	0.0 SS	0.00 -115.00	115 SHORT
VAC	NANTUCKET MA	RM-10997	249A 97.7	0.000 0.0	41-17-12 070-06-06	140.4	132.84 17.84	115 CLEAR
WYAJ LIC	SUDBURY MA	BLED-941114KA	249D 97.7	0.004 67.0	42-22-30 071-24-28	307.0	30.26 0.00	0 CLS=D
NEW-T APP	WESTCHESTER MA	BNPFT-30314BXK	249D 97.7	0.140 141.0	42-20-10 071-49-11	283.6	59.82 0.00	0 TRANS
WSNI CP	KEENE NH	BPH-81015ABM	249A 97.7	2.150 169.0	42-54-57 072-19-53	308.6	126.92 11.92	115 CLEAR
WSNI LIC	SWANZEY NH	BLH-71116AEV	249A 97.7	1.750 187.0	42-54-57 072-19-48	308.6	126.83 11.83	115 CLEAR
W250AB LIC	MANCHESTER NH	BLFT-940315TP	250D 97.9	0.250 101.0	42-59-34 071-27-50	341.9	91.39 0.00	0 TRANS
WCTK LIC	NEW BEDFORD MA	BLH-790808AG	251B 98.1	47.000 155.0	41-37-21 070-55-07	166.1	67.42 -1.58	69 SHORT
NOTE: GRANDFATHERED PRE-1964 SHORT-SPACING								

44444 END OF FM SPACING STUDY FOR CHANNEL 249 44444