

Spacing Study

Compliance with 47 C.F.R. 73.207

As seen in Exhibit 18-A, the proposed facility meets all minimum distance separation requirements with regard to co-channel, first, second, or third adjacent channel stations, and those separated by 53/54 channels, except the licensed facilities of the following stations:

Station	Channel	City of License	Facility ID	Distance Short-Spaced
WILQ	286B	Williamsport, PA	52192	3.1km
WRKT	285B1	Northeast, PA	55063	2.8km

This application proposes contour protection (47 C.F.R. 73.215. 47 C.F.R. 73.215(e)) for WILQ and WRKT.

The minimum separation requirement between a class A and a class B facility (WEKV.P and WILQ), which are co-channel, is 143 km. Exhibit 18-B shows that WILQ is separated from the proposed facility by 174.41 km.

The minimum separation requirement between a class A and a class B1 facility (WEKV and WRKT), which are first adjacent channels, is 72 km. Exhibit 18-A shows that WRKT is separated from the proposed facility by 92.74 km.

Therefore, the proposed facility is permitted to use contour protection toward the short-spaced facility (See Exhibit 20 for compliance with contour protection requirements).

WEKV.P Site Spacing

REFERENCE 41 44 00.0 N. CLASS = A Int = A DISPLAY DATES
 78 55 59.0 W. Current Spacings to 3rd Adj. DATA 05-09-19
 ----- Channel 286 - 105.1 MHz ----- SEARCH 05-20-19

Call	Channel	Location	Azi	Dist	FCC	Margin
WEKV	LIC-N 286A	Sheffield	PA 248.2	9.09	114.5	-105.4
WEKV	CP -Z 286A	Sheffield	PA 287.2	19.95	114.5	-94.6
CJED-FM	OP -D 286B	Niagara Falls	ON 351.4	152.83	210.0	-57.2
WILQ	LIC 286B	Williamsport	PA 109.5	174.41	177.5	-3.1
WRKT	LIC-N 285B1	North East	PA 295.7	92.74	95.5	-2.8
WQXK	LIC 286B	Salem	OH 239.9	184.80	177.5	7.3
WKPQ	LIC 287B	Hornell	NY 58.7	121.35	112.5	8.9
W285ES	LIC 285D	Smethport	PA 79.2	46.26	35.5	10.8
WKEG-LP	LIC 284L1	Limestone	NY 37.7	40.82	28.5	12.3
WOGM-LP	LIC 284L1	Jamestown	NY 329.4	45.67	28.5	17.2
WMKX	LIC-N 288B1	Brookville	PA 189.2	68.71	47.5	21.2
W287DC	CP 287D	Titusville	PA 258.6	64.53	35.5	29.0
CHOQ-FM	OP -D 286B1	Toronto	ON 350.4	215.89	184.0	31.9
W233BS	LIC-D 233D	St. Marys	PA 152.5	43.45	9.5	34.0
WUUK-LP	LIC 289L1	Canadohta Lake	PA 276.5	75.42	28.5	46.9
WUUK-LP	CP 289L1	Canadohta Lake	PA 278.4	75.54	28.5	47.0
WMUG-LP	LIC 286L1	Indiana	PA 188.4	122.98	66.5	56.5
WNBT-FM	LIC 283B	Wellsboro	PA 89.2	130.54	68.5	62.0
WNBT-FM	CP 283B	Wellsboro	PA 89.3	130.54	68.5	62.0
CFCA-FM	OP 287C1	Kitchener	ON 323.7	232.25	168.0	64.3
CFCA-FM-AAX	287C1	Kitchener	ON 323.7	232.25	168.0	64.3
WRKY-FM	LIC 285A	Hollidaysburg	PA 162.3	135.92	71.5	64.4
WXMJ	LIC-N 283A	Cambridge Springs	PA 268.5	102.57	30.5	72.1

 Reference station has protected zone issue: Canada
 All separation margins include rounding