

TECHNICAL ATTACHMENT **NEW LFPM FOR LANSING, MICH**

PARAMETERS

Channel 246
 New Location: 42-45-14.3 N 84-32-51.3 W -- NAD 83
 Antenna AGL 18
 Tower Total 36.6 (39.6 m total)
 Antenna Ground 260.9
 Antenna COR 278.9
 HAAT 21.2
 Power 50
 ASRN 1220230

CHANNEL SPACING

REFERENCE CLASS = L1 Int = DISPLAY DATES
 42 45 14.30 N. DATA 10-16-23
 84 32 51.30 W. Current Spacings to 2nd Adj. SEARCH 11-10-23
 ----- Channel 246 - 97.1 MHz -----

Call	Channel	Location		Azi	Dist	FCC	Margin
*WJIM-FM	LIC 248B	Lansing	MI	155.9	9.51	66.5	-57.0
WXYT-FM	LIC 246B	Detroit	MI	104.9	114.18	111.5	2.7
WLAV-FM	LIC-Z	245B Grand Rapids	MI	282.2		112.53	96.5 16.0
WUFN	LIC-Z	244A Albion	MI	188.4		54.84	28.5 26.3
WMJO	LIC 247A	Essexville	MI	36.7	105.81	55.5	50.3
W244BS	LIC 244D	Alma	MI	352.7	73.02	7.5	65.5
W244EN	LIC-D	244D Lapeer	MI	79.3		90.27	20.5 69.8
W246AU	LIC 246D	Coldwater	MI	203.2	98.41	25.5	72.9

Reference station has protected zone issue: Canada
 All separation margins include rounding
 * Second Adj Waiver request

SECOND ADJACENT WAIVER REQUEST

Applicant respectfully requests a "second adjacent channel waiver" with regards to Section 47 C.F.R. Section 73.807 of the FCC rules based upon the "Living Way" precedent (Living Way Ministries, Inc., Memorandum Opinion and Order, 17 FCC Red 17054, 17056, ¶ 5 (2002), recon.

denied 23 FCC Red 15070 (2008)). This will be accomplished by used Free Space methodology of calculation.

Second adjacent channel WJIM-FM CH 248B has a signal strength of 92.2 dBu. Interference occurs with the proposed station where the proposed station's signal is +40 dB above 92.2 or 132.2 dBu.

The distance to this contour, using free space method:

$$D = (7.01 * P^{1/2}) / E,$$

where P is power (watts), E is field strength (v/m), and D is distance to contour (meters):

$$P = 50 \text{ w}, E = 132.2 \text{ dBu } D = 12.1 \text{ meters}$$

Antenna is proposed at 18 m, so there interference area is 5.9 above the ground. The tower is in an industrial area with the inference above the inhabited areas.

Due to zero population within this radiation radius, this meets the "Living Way" Criteria to qualify for a Waiver of 47 C.F.R. Section 73.807.

Thus, the applicant requests a second adjacent waiver based upon evidence no interference is proposed.