

**MINOR CHANGE APPLICATION**  
**MARION R. WILLIAMS**  
**NEW FM TRANSLATOR STATION**  
**CH 298D - 107.5 MHZ - 0.08 KW**  
**NILES, MICHIGAN**  
**December 2017**

**EXHIBIT B1**

**Clearance Study for New Translator**  
**Using Proposed Site as Reference**

REFERENCE		CH# 298D - 107.5 MHZ, Pwr= 0.08 kW, HAAT= 0.0 M, COR= 318 M								DISPLAY DATES	
41 49 23.3 N.		Average Protected F(50-50)= 5.3 km								DATA 11-27-17	
86 17 02.6 W.		Omni-directional								SEARCH 11-27-17	
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
298D Niles	1762579!	APP	C MI	0.0 0.0	0.00 BNPFT20170727ADE	41 49 23.3 86 17 02.6	0.080	31.3 318	9.4 Marion R. Williams	-40.7	-40.7
298B Chicago	WGCI-FM	LIC	C IL	273.6 92.7	112.09 BLH20010413AAL	41 52 44.0 87 38 08.0	3.700 472	125.3 653	64.4 Amfm Broadcasting Licenses	-22.8*	1.8
299B Portage	WRKR	LIC	C MI	66.2 246.8	85.15 BLH19980730KB	42 07 44.0 85 20 22.0	50.000 148	79.3 421	66.1 Townsquare Media Kalamazoo	-3.2	0.2
297B Warsaw	WRSW-FM	LIC	CN IN	150.8 331.1	76.40 BLH3980	41 13 21.0 85 50 17.0	50.000 69	64.4 332	51.7 Talking Stick Communicatio	2.2	4.1
296A St. Joseph	WIRX	LIC	CN MI	345.5 165.5	28.57 BLH19901010KE	42 04 19.0 86 22 14.0	1.200 152	1.9 359	23.7 Wsjm, Inc.	16.8	4.2
300D Mishawaka	W300AL	LIC	C IN	162.3 342.3	24.13 BLFT20001208ACV	41 36 59.0 86 11 44.0	0.010 194	0.2 433	8.6 Calvary Radio Network, Inc	13.8	14.9
295D La Porte	W295AF	LIC	VN IN	248.5 68.2	46.56 BLFT19970819TA	41 40 07.0 86 48 21.0	0.013 74	0.3 290	5.0 Family Stations, Inc.	37.2	40.3

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
In & Out distances between contours are shown at closest points. Reference Zone= East Zone, Co to 3rd adjacent.  
All separation margins (if shown) include rounding.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt (Y,N,X)  
"\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.  
< = Station meets FCC minimum distance spacing for its class.  
Reference station has protected zone issue: AM tower

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**EXHIBIT B2**

N. Lat. = 41° 49' 23.3" - Protected and Interfering Contour Data  
W. Lng. = 86° 17' 02.6" - New FM Translator, Niles, Michigan

HAAT and Distance to Contour - FCC 30 second terrain database

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5	40-F1	54-F1	100-F1
000	225.8	92.2	0.0800	-10.97	1.000	9.38	31.33	13.11	0.63
010	227.7	90.3	0.0800	-10.97	1.000	9.29	30.96	12.98	0.63
020	222.8	95.2	0.0800	-10.97	1.000	9.53	31.92	13.32	0.63
030	216.2	101.8	0.0800	-10.97	1.000	9.86	33.20	13.78	0.63
040	222.1	95.9	0.0800	-10.97	1.000	9.57	32.07	13.37	0.63
050	227.4	90.6	0.0800	-10.97	1.000	9.30	31.01	13.00	0.63
060	230.2	87.8	0.0800	-10.97	1.000	9.16	30.46	12.81	0.63
070	234.7	83.3	0.0800	-10.97	1.000	8.91	29.58	12.49	0.63
080	238.2	79.8	0.0800	-10.97	1.000	8.71	28.89	12.24	0.63
090	243.0	75.0	0.0800	-10.97	1.000	8.43	27.97	11.90	0.63
100	243.7	74.3	0.0800	-10.97	1.000	8.39	27.85	11.85	0.63
110	239.1	78.9	0.0800	-10.97	1.000	8.66	28.72	12.18	0.63
120	232.8	85.2	0.0800	-10.97	1.000	9.02	29.96	12.62	0.63
130	231.8	86.2	0.0800	-10.97	1.000	9.07	30.15	12.69	0.63
140	233.9	84.1	0.0800	-10.97	1.000	8.96	29.74	12.55	0.63
150	224.2	93.8	0.0800	-10.97	1.000	9.46	31.65	13.22	0.63
160	214.0	104.0	0.0800	-10.97	1.000	9.96	33.60	13.93	0.63
170	208.5	109.5	0.0800	-10.97	1.000	10.20	34.55	14.30	0.63
180	225.1	92.9	0.0800	-10.97	1.000	9.42	31.47	13.16	0.63
190	234.2	83.8	0.0800	-10.97	1.000	8.94	29.68	12.52	0.63
200	238.9	79.1	0.0800	-10.97	1.000	8.67	28.77	12.20	0.63
210	237.3	80.7	0.0800	-10.97	1.000	8.76	29.08	12.31	0.63
220	236.8	81.2	0.0800	-10.97	1.000	8.79	29.18	12.34	0.63
230	238.1	79.9	0.0800	-10.97	1.000	8.72	28.93	12.25	0.63
240	236.3	81.7	0.0800	-10.97	1.000	8.82	29.28	12.38	0.63
250	235.6	82.4	0.0800	-10.97	1.000	8.86	29.40	12.42	0.63
260	226.3	91.7	0.0800	-10.97	1.000	9.36	31.23	13.07	0.63
270	223.9	94.1	0.0800	-10.97	1.000	9.48	31.71	13.25	0.63
280	221.2	96.8	0.0800	-10.97	1.000	9.61	32.24	13.43	0.63
290	214.9	103.1	0.0800	-10.97	1.000	9.91	33.44	13.87	0.63
300	220.3	97.7	0.0800	-10.97	1.000	9.66	32.42	13.49	0.63
310	220.2	97.8	0.0800	-10.97	1.000	9.67	32.44	13.50	0.63
320	216.8	101.2	0.0800	-10.97	1.000	9.83	33.09	13.74	0.63
330	222.8	95.2	0.0800	-10.97	1.000	9.54	31.93	13.32	0.63
340	217.1	100.9	0.0800	-10.97	1.000	9.81	33.02	13.71	0.63
350	219.4	98.6	0.0800	-10.97	1.000	9.70	32.59	13.55	0.63

AMSL= 318.0