

## **Exhibit 12**

### **Interference Analysis Overlap Requirements**

According to CFR 47 §74.1204(a), translators are required to protect all existing FM stations from interference due to overlap of the protected contours of the existing stations with the interfering contours of the new translators.

#### **US Stations**

In the attached tabular printout, only AP238(Middlebury) has an outgoing contour overlap from the proposed translator, so no interference to other stations is anticipated.

AP238(Middlebury) is the current application, and need not be protected.

No other entries are sufficiently close to the proposed translator to require analysis.

#### **Canadian Consideration**

The proposed translator is 215 km from the nearest point in Canada, within the 320 km limit established by treaty. The 0.019 kW ERP does not exceed the maximum 250 Watts, and the maximum 34.1 km F(50,10) 34 dBu contour (see data printout) does not exceed the statutory 60 km. No Canadian stations were found in the above search. Hence there is no outgoing interference with any Canadian stations. Because the 34 dBu F(50,10) contour does not cross the common border (34.1 km maximum contour distance is less than the 215 km minimum distance to Canada), Canadian concurrence is not required. The relevant document for this analysis is the July 9, 1997 modification to the February 25, 1991 agreement.

## Exhibit 12

## Progressive Broadcasting

REFERENCE	CH# 238D - 95.5 MHz, Pwr= 0.019 kW, HAAT=112.9 M, COR= 356 M	DISPLAY DATES
41 39 01 N	Average Protected F(50-50)= 7.25 km	DATA 08-21-03
85 41 52 W	Ave. F(50-10) 40 dBu= 24.3 54 dBu= 10.2 80 dBu= 2.1 100 dBu= .3	SEARCH 08-25-03

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	COR (M) INT (km)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
238D AP238 Middlebury		APP C IN	0.0 180.0	0.00 BNPFT20030317EHG	41 39 01 85 41 52	0.013 87	356 24.0	5.8 Progressive Broadcasting S	-26.20*<	-29.76*<
238D AP238 Orland		APP C IN	74.7 254.7	42.68 BNPFT20030317KHN	41 45 02 85 12 10	0.010 37	318 22.0	3.5 Family Stations, Inc.	24.90	17.17
238D AP238 Portage		APP C MI	7.9 187.9	65.02 BNPFT20030317JWW	42 13 48 85 35 20	0.175 41	303 23.4	7.6 Midwest Communications, In	32.71	34.07
239A WLRX« Nappanee		LIC CX IN	234.7 54.7	38.58 BLH20020911AAU	41 26 58 86 04 30	1.250 150	408 9.6	23.8 Talking Stick Communicatio	-3.83<	5.23
240A WLKMF Three Rivers Accepted by Canada 940207		LIC CN MI	9.0 189.0	31.25 BLH6731	41 55 41 85 38 18	3.000 104	348 0.3	24.7 Impact Radio, Llc	21.97	6.26
237A WAOR Niles		LIC NCX MI	282.1 102.1	47.21 BLH20030314AZG	41 44 16 86 15 10	5.500 78	312 9.4	24.6 Pathfinder Communications	2.90	13.18

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 "\*\*Affixed to 'IN' or 'Out' values = site inside protected contour.

ERP and HAAT are on direct line to and from reference station.

"«" = Station meets FCC minimum distance spacing for its class. "<" = Contour Overlap

Exhibit 12  
Canadian Terrain and Contour Data  
AP238 Middlebury, IN

ERP 0.019 kW  
N. Lat. 41 39 1  
W. Lon. 85 41 52  
Center of Radiation 356.00 m AMSL

Azimuth Deg T.	Avg Elev 3-16 km Meters AMSL	Effective Antenna Ht Meters AAT	ERP Kilowatts	Distance to Contour (km) 34.0 dBu F(50,10)
--> 0	245.9	110.1	0.0190	34.1<--
30	257.0	99.0	0.0190	32.2
60	255.4	100.6	0.0190	32.5
90	268.5	87.5	0.0190	30.0
120	258.8	97.2	0.0190	31.8
150	274.1	81.9	0.0190	28.9
180	269.4	86.6	0.0190	29.8
210	258.7	97.3	0.0190	31.8
240	258.0	98.0	0.0190	32.0
270	255.9	100.1	0.0190	32.4
300	254.2	101.8	0.0190	32.7
330	249.6	106.4	0.0190	33.5
Average	258.792	97.208	<--HAAT m	