

## **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 AP255 has an outgoing contour overlap from the proposed translator, so no interference to other stations is anticipated.

AP255 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 257 km from the nearest point in Canada, within the 320 km limit established by treaty. The 0.010 kW ERP does not exceed the maximum 250 Watts, and the maximum 32.7 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 (32.7 km maximum contour distance is not greater than the 257 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  
CSN International

REFERENCE	CH# 255D - 98.9 MHz, Pwr= 0.038 kW, HAAT=72.8 M, COR= 317 M	DISPLAY DATES
41 26 55 N	Average Protected F(50-50)= 6.86 km	DATA 08-21-03
86 09 37 W	Ave. F(50-10) 40 dBu= 22.9 54 dBu= 9.8 80 dBu= 2.2 100 dBu= .4	SEARCH 08-26-03

CH CITY	CALL STATE	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	COR (M) INT (km)	PRO (km) LICENSEE	*IN* (Overlap	*OUT* in km)
255D Bremen	AP255	APP C IN	0.0 180.0	0.00 BNPFT20030317KHH	41 26 55 86 09 37	0.038 70	317 22.1	6.7 Csn International	-29.09*	-28.84*
255D Goshen	AP255	APP C IN	60.2 240.2	31.32 BNPFT20030314CCE	41 35 16 85 50 02	0.170 9	264 21.4	6.4 James Glenski	3.44	3.49
252A Culver Canadian border area	ALLO	VAC IN	220.6 40.6	33.75 RM9817	41 13 04 86 25 21	6.000 -239	0 0.4	15.8	25.29	17.56
255B Van Wert	WBYR<	LIC CN OH	116.9 296.9	120.24 BLH19890117KH	40 57 14 84 53 07	50.000 127	375 31.3	61.7 Pathfinder Communications	-20.97	27.18

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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.

Exhibit 12  
 Canada Terrain and Contour Data  
 AP255 Bremen, IN

ERP 0.038 kW  
 N. Lat. 41 26 55  
 W. Lon. 86 9 37  
 Center of Radiation 317.00 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	249.3	67.7	0.0380	31.4
30	248.3	68.7	0.0380	31.7
60	253.9	63.1	0.0380	30.3
90	258.9	58.1	0.0380	29.1
120	249.7	67.3	0.0380	31.3
150	248.0	69.0	0.0380	31.7
180	246.9	70.1	0.0380	32.0
-->210	244.1	72.9	0.0380	32.7<--
240	245.5	71.5	0.0380	32.4
270	251.5	65.5	0.0380	30.8
300	252.0	65.0	0.0380	30.7
330	253.3	63.7	0.0380	30.4
Average	250.117	66.883	<--HAAT m	