

## **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 AP254 has an outgoing contour overlap from the proposed translator, so no interference to other stations is anticipated.

AP254 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 237 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 237 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# 254D - 98.7 MHz, Pwr= 0.01 kW, HAAT=142.1 M, COR= 389 M	DISPLAY DATES
41 11 23 N	Average Protected F(50-50)= 6.91 km	DATA 08-21-03
85 46 39 W	Ave. F(50-10) 40 dBu= 23.2 54 dBu= 9.8 80 dBu= 1.8 100 dBu= .2	SEARCH 08-26-03

CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr (kW)	COR (M)	PRO (km)	*IN*	*OUT*
CITY	STATE		<--	FILE #	LNG.	HAAT (M)	INT (km)	LICENSEE	(Overlap	in km)
254D	AP254	APP C	0.0	0.00	41 11 23	0.010	389	6.5	-28.13*	-28.49*
Warsaw		IN	180.0	BNPFT20030317KGX	85 46 39	123	22.0	Csn International		
254D	AP254	APP C	72.4	59.78	41 21 00	0.027	336	5.9	33.86	33.14
Auburn		IN	252.4	BNPFT20030317KHY	85 05 47	64	20.7	Csn International		
255B	WBYR«	LIC CN	109.0	79.43	40 57 14	50.000	375	61.9	-1.42	5.44
Van Wert		OH	289.0	BLH19890117KH	84 53 07	128	12.1	Pathfinder Communications		
252A	ALLO	VAC	273.5	54.19	41 13 04	6.000	0	15.8	45.92	38.22
Culver		IN	93.5	RM9817	86 25 21	-247	0.2			
Canadian border area										
255D	AP255	APP C	312.1	43.06	41 26 55	0.038	317	6.7	26.66	26.69
Bremen		IN	132.1	BNPFT20030317KHH	86 09 37	68	9.7	Csn International		

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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  
AP254 Warsaw, IN

ERP 0.010 kW  
N. Lat. 41 11 23  
W. Lon. 85 46 39  
Center of Radiation 389.00 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	260.3	128.7	0.0100	31.1
30	266.7	122.3	0.0100	30.3
60	271.1	117.9	0.0100	29.8
90	280.6	108.4	0.0100	28.6
120	272.6	116.4	0.0100	29.6
150	261.3	127.7	0.0100	31.0
180	266.0	123.0	0.0100	30.4
210	270.6	118.4	0.0100	29.9
240	261.1	127.9	0.0100	31.0
270	256.1	132.9	0.0100	31.6
-->300	246.8	142.2	0.0100	32.7<--
330	252.5	136.5	0.0100	32.0
Average	263.808	125.192	<--HAAT m	