

## **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 the AP285s and WKPQ have outgoing contour overlaps from the proposed translator, so no interference to other stations is anticipated. Incoming overlap is not prohibited.

The AP285s is the current application, and need not be protected.

WKPQ is second adjacent to the proposed translator, and, according to §74.1204(d),

**"The provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to ... lack of population ... ."**

The F(50,50) signal from WKPQ at the proposed site is 73.6 dBu (on the same tower). A 40 dB ratio of undesired to desired signal strength gives an allowable interfering F(50,10) field strength of 113.6 dBu. With 10 Watts ERP, the free-space equations give the distance to this contour of 46.6 meters from the antenna. The antenna is 84 meters from the ground, so this contour does not reach the ground. There are no habitable buildings in the area which could reach up to intersect the contour. Hence §74.1204(d) applies, and the predicted area of interference is acceptable to the Commission.

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

#### **Canadian Consideration**

The proposed translator is 124 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 46.7 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. Because the 34 dBu F(50,10) contour does not cross the common border (46.7 km maximum contour distance is less than the 124 km minimum distance to Canada), no Canadian concurrence is required. The relevant document for this analysis is the July 9, 1997 modification to the February 25, 1991 agreement.

	Exhibit 12									
	NY Wayland									
REFERENCE	CH#	285D - 104.9 MHz, Pwr= 0.01 kW, HAAT=294.1 M, COR= 682 M							DISPLAY DATES	
42 31 06 N		Average Protected F(50-50)= 10.03 km							DATA 03-26-04	
77 29 50 W	Ave. F(50-10)	40	dBu= 33.4	54	dBu= 14.1	80	dBu= 2.0	100	dBu= .2	SEARCH 05-04-04

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	COR (M) INT (km)	PRO (km) LICENSEE	*IN* (Overlap	*OUT* in km)
285D Wayland	AP285	APP NY	C 180.0	0.03 BNPFT20030829ALG	42 31 07 77 29 50	0.010 198	684 27.5	8.2 Calvary Chapel Of The Fing	-34.78*	-32.93*
285D Wayland	AP285	APP NY	C 180.0	0.03 BNPFT20030317KHW	42 31 07 77 29 50	0.010 198	684 27.5	8.2 Calvary Chapel Of The Fing	-34.78*	-32.93*
285D Alfred	AP285	APP NY	C 233.1 53.1	38.29 BNPFT20030828ACP	42 18 40 77 52 08	0.010 226	740 29.2	8.8 Edgewater Broadcasting Inc	3.06	9.78
285D Alfred	AP285	APP NY	C 233.1 53.1	38.29 BNPFT20030317FFI	42 18 40 77 52 08	0.010 226	740 29.2	8.8 Edgewater Broadcasting Inc	3.06	9.78
285D Alfred	AP285	APP NY	C 233.1 53.1	38.29 BNPFT20030828ACP	42 18 40 77 52 08	0.010 226	740 29.2	8.8 Edgewater Broadcasting Inc	3.06	9.78
285A Montour Falls Specially negotiated, short-spaced allotment	WNGZ	LIC NY	CN 120.2 300.2	58.75 BLH6380	42 15 05 76 52 53	1.000 80	559 56.1	16.3 Chemung County Radio, Inc.	-4.64	17.66
287B Hornell SPECIAL NEGOTIATED	WKPQ	LIC NY	CN 210.1 30.1	29.03 BLH19880614KB	42 17 32 77 40 27	43.000 191	694 6.4	55.2 Bilbat Radio, Inc.	16.13	-26.59*
285D Perry	AP285	APP NY	C 293.8 113.8	50.64 BNPFT20030317FJT	42 42 01 78 03 47	0.010 211	561 28.3	8.5 Edgewater Broadcasting Inc	13.82	13.72
285D Perry	AP285	APP NY	C 293.8 113.8	50.64 BNPFT20030826AAX	42 42 01 78 03 47	0.010 211	561 28.3	8.5 Edgewater Broadcasting Inc	13.82	13.72
285A Brockport	WMJQ.A	APP NY	NCX 342.2 162.2	75.44 BMPH20030603ACD	43 09 51 77 46 57	4.900 95	267 82.6	26.4 Canandaigua Broadcasting,	-14.51	24.33
285A Brockport	WMJQ.A	APP NY	CX 342.1 162.1	75.48 BMPH20031017AAA	43 09 51 77 47 02	6.000 85	257 84.0	26.2 Canandaigua Broadcasting,	-15.87	24.57
285A Brockport	WMJQ.A	APP NY	CX 342.1 162.1	75.48 BMPH20031017AAA	43 09 51 77 47 02	6.000 85	257 84.0	26.2 Canandaigua Broadcasting I	-15.87	24.57
285A Brockport	WMJQ.A	APP NY	CX 342.1 162.1	75.48 BMPH20031017AAA	43 09 51 77 47 02	6.000 85	257 84.0	26.2 Canandaigua Broadcasting,	-15.87	24.57

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

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

Exhibit 12  
Canadian Terrain and Contour Data  
AP285 Wayland, NY

ERP 0.010 kW  
N. Lat. 42 31 6  
W. Lon. 77 29 50  
Center of Radiation 682.00 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	521.6	160.4	0.0100	34.8
30	388.1	293.9	0.0100	46.7<--
60	524.5	157.5	0.0100	34.5
90	565.6	116.4	0.0100	29.6
120	521.8	160.2	0.0100	34.8
150	452.1	229.9	0.0100	41.6
180	485.9	196.1	0.0100	38.3
210	557.8	124.2	0.0100	30.6
240	568.3	113.7	0.0100	29.3
270	499.2	182.8	0.0100	37.0
300	474.1	207.9	0.0100	39.4
330	463.1	218.9	0.0100	40.5
Average	501.842	180.158	<--HAAT m	