

## 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 AP279 and WEDG have outgoing contour overlaps from the proposed translator, so no interference to other stations is anticipated. Incoming overlap is not prohibited.

AP279 is the current application, and need not be protected.

WEDG 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 WEDG at the proposed site is 53.9 dBu. A 40 dB ratio of undesired to desired signal strength gives an allowable interfering F(50,10) field strength of 93.9 dBu. Utilizing the specified 2 bay half wave spaced antenna at 149 meters from the ground, the maximum signal strength on the ground is 90.85 dBu (see attached spreadsheet), less than the above mentioned 93.9 dBu. It only reaches down to 44.08 m above the ground. There are no habitable buildings in the area which reach up to intersect the contour. Hence §74.1204(d) applies, and the predicted area of interference is acceptable to the Commission.

#### Canadian Consideration

The proposed translator is 59 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 48.7 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 (48.7 km maximum contour distance is not greater than the 59 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

Calvary Chapel of the Finger Lakes

REFERENCE CH# 279D - 103.7 MHz, Pwr= 0.01 kW, HAAT=319.7 M, COR= 765 M DISPLAY DATES  
 42 37 23 N Average Protected F(50-50)= 10.43 km DATA 08-21-03  
 78 17 16 W Ave. F(50-10) 40 dBu= 34.9 54 dBu= 14.7 80 dBu= 2.0 100 dBu= .2 SEARCH 08-28-03

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*
279D Arcade	AP279	APP C NY	0.0 180.0	0.00 BNPFT20030317KHK	42 37 23 78 17 16	0.010 177	765 31.8	7.7 Calvary Chapel Of The Fing	-35.67*	-39.56*
279D Batavia	AP279	APP C NY	11.1 191.1	44.94 BNPFT20030317KTO	43 01 12 78 10 54	0.027 8	300 27.9	4.0 Calvary Chapel Of The Fing	23.70	12.98
279A St Catharines	R---	ADD ON	305.5 125.5	96.02	43 07 10 79 15 00	6.000 -180	0 47.3	22.4	-13.00	26.28
281B Buffalo	WHTTFM	LIC C NY	299.1 119.1	47.88 BLH19970523KG	42 49 51 78 48 00	50.000 24	272 0.4	36.1 Citadel Broadcasting Compa	34.74	11.32
277B Buffalo	WEDG<	LIC CN NY	306.9 126.9	56.43 BLH19970523KB	42 55 34 78 50 28	49.000 97	293 0.4	56.2 Citadel Broadcasting Compa	41.57	-0.25
279B Ithaca	WQNY	LIC CX NY	100.6 280.6	135.58 BLH20021028AAR	42 23 13 76 40 10	15.500 250	681 41.8	63.5 Eagle Ii Broadcasting Corp	2.70	30.26
278A Wellsville From Channel 228A per D95-162	WJQZ	LIC CN NY	159.9 339.9	66.96 BLH19980210KB	42 03 24 78 00 34	1.650 174	780 11.1	27.0 Dbm Communications, Inc.	18.40	28.79
278D Geneseo	AP278	APP C NY	65.7 245.7	48.43 BNPFT20030317KSF	42 48 02 77 44 52	0.013 108	336 13.2	6.5 Family Life Ministries, In	29.91	28.78
279B Erie Grandfathered at 50 kW ERP and 152 meters HAAT	WRTS	LIC CN PA	247.0 67.0	148.71 BMLH19871209KC	42 05 25 79 56 37	50.000 80	516 43.2	52.9 Nm Licensing, Llc	12.49	52.68

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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

vs WEDG

*Freespace Interference Study based on Vertical Radiation Pattern  
ERI Series 100 2-bay 1/2-wave spaced antenna*

Depression Angle from Antenna	Antenna Relative Field	ERP Watts	ERP dBk	Distance to Ground from Antenna (m)	Free Space Signal (dBu)	2.5 dB Loss for Reflection	Signal Strength at Ground (dBu)	Circular Distance From Tower (m)	Distance to Contour using Free Space (m)	Height of Contour above Ground (m)
90	0.001	0.000	-80.00	149.00	43.46	2.5	40.96	0.00	0.34	148.66
85	0.002	0.000	-73.98	149.57	49.44	2.5	46.94	13.04	0.67	148.33
80	0.009	0.001	-60.92	151.30	62.41	2.5	59.91	26.27	3.02	146.02
75	0.023	0.005	-52.77	154.26	70.39	2.5	67.89	39.92	7.72	141.54
70	0.049	0.024	-46.20	158.56	76.72	2.5	74.22	54.23	16.45	133.54
65	0.076	0.058	-42.38	164.40	80.22	2.5	77.72	69.48	25.52	125.87
60	0.120	0.144	-38.42	172.05	83.79	2.5	81.29	86.03	40.29	114.11
55	0.180	0.324	-34.89	181.90	86.83	2.5	84.33	104.33	60.43	99.50
50	0.250	0.625	-32.04	194.51	89.10	2.5	86.60	125.03	83.93	84.70
45	0.333	1.109	-29.55	210.72	90.89	2.5	88.39	149.00	111.80	69.95
40	0.425	1.806	-27.43	231.80	92.19	2.5	89.69	177.57	142.69	57.28
35	0.524	2.746	-25.61	259.77	93.01	2.5	90.51	212.79	175.93	48.09
30	0.625	3.906	-24.08	298.00	93.35	2.5	90.85	258.08	209.84	44.08
25	0.723	5.227	-22.82	352.56	93.16	2.5	90.66	319.53	242.74	46.41
20	0.815	6.642	-21.78	435.65	92.36	2.5	89.86	409.37	273.63	55.41
15	0.890	7.921	-21.01	575.69	90.70	2.5	88.20	556.08	298.81	71.66
10	0.950	9.025	-20.45	858.06	87.80	2.5	85.30	845.02	318.95	93.61
5	0.989	9.781	-20.10	1709.58	82.17	2.5	79.67	1703.08	332.04	120.06

Distance to Ground Level assumes flat ground or a site where the site level is above average terrain in all azimuths.

Maximum ERP	10 watts	Max dBu at Ground Level	90.85	Lowest Height of Contour	44.08
Radiation Center AG	149 m				
Radiation Center AG	489 ft.				
Maximum ERP	-20.00 dBk				
Protected dBu	53.9 dBu				
Interfering dBu	93.9 dBu				
Free Space Distance	447.71 m				

Exhibit 12  
 Canadian Terrain and Contour Data  
 AP279 Arcade, NY

ERP 0.010 kW  
 N. Lat. 42 37 23  
 W. Lon. 78 17 16  
 Center of Radiation 765.00 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	495.9	269.1	0.0100	44.8
30	564.6	200.4	0.0100	38.7
60	504.0	261.0	0.0100	44.2
90	535.4	229.6	0.0100	41.6
120	529.7	235.3	0.0100	42.1
150	560.4	204.6	0.0100	39.1
180	587.6	177.4	0.0100	36.5
210	543.4	221.6	0.0100	40.8
240	514.2	250.8	0.0100	43.4
270	481.2	283.8	0.0100	45.9
-->300	445.5	319.5	0.0100	48.7<--
330	491.1	273.9	0.0100	45.2
Average	521.083	243.917	<--HAAT m	