

## 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 AP229, WHJY and WSNEFM have outgoing contour overlaps from the proposed translator, so no interference to other stations is anticipated. Incoming overlap is not prohibited.

AP229 is the current application, and need not be protected.

WHJY and WSNEFM are 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 WHJY and WSNEFM at the proposed site are 108.0 and 94.8 dBu respectively. Using the more restrictive value of 94.8 dBu provides assurance that the larger values work also. A 40 dB ratio of undesired to desired signal strength gives an allowable interfering F(50,10) field strength of 134.8 dBu. With 35 Watts ERP, the free-space equations give the distance to this contour of 7.55 meters from the antenna. The antenna is 45 meters from the ground, so this contour does not reach 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.

The appended map shows that no outgoing prohibited contour overlap exists with WQSX.

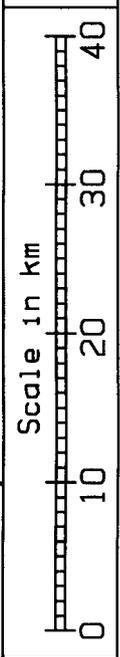
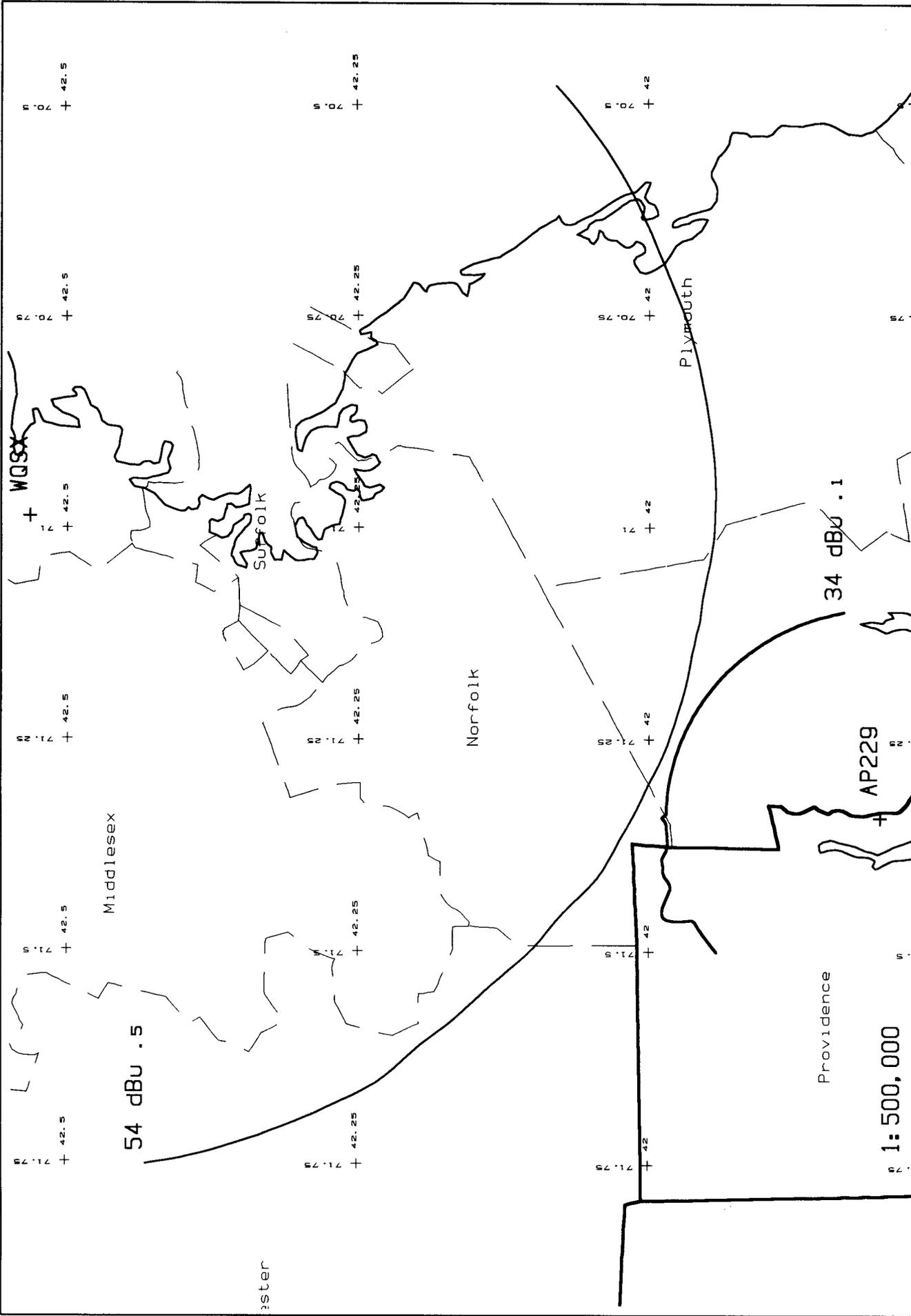
No other entries are sufficiently close to the proposed translator to require analysis.

Exhibit 12  
 CSN International

REFERENCE CH# 229D - 93.7 MHz, Pwr= 0.035 kW, HAAT=49.7 M, COR= 52 M DISPLAY DATES  
 41 48 06 N Average Protected F(50-50)= 5.6 km DATA 08-21-03  
 71 20 30 W Ave. F(50-10) 40 dBu= 18.5 54 dBu= 7.9 80 dBu= 1.8 100 dBu= .4 SEARCH 08-27-03

CH CITY	CALL STATE	TYPE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	COR (M) INT (km)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
229D Providence	AP229 RI	APP C	0.0 180.0	0.00 BNPFT20030317KLJ	41 48 06 71 20 30	0.035 50	52 14.0	5.6 Csn International	-22.86*	-19.60*
231B Providence	WHJY RI	LIC C	321.9 141.9	3.69 BLH20000915ALB	41 49 40 71 22 09	50.000 166	170 0.8	67.1 Capstar Tx Limited Partner	-6.88*	-64.23*
227B Taunton	WSNEFM MA	LIC DCN	31.3 211.3	8.32 BLH19870130KG	41 51 56 71 17 22	30.000 206	218 0.8	66.1 Capstar Tx Limited Partner	-2.00	-58.61*
229B Lawrence	WQSX MA	LIC CN	19.7 199.7	86.32 BLH19960215KC	42 31 57 70 59 11	34.000 181	201 20.4	64.9 Entercom Boston License, L	-51.13	1.10
229B Hartford	WZMX<< CT	LIC CN	258.4 78.4	127.96 BLH19910401KC	41 33 42 72 50 41	17.000 296	359 20.4	68.1 Infinity Radio Operations	-7.47	39.44

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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.



1: 500,000

WQSX	229B	34kW	201M AMSL
AP229	229D	.035kW	52M AMSL

WQSX vs AP229  
Bob Moore - 08/03