

## **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**

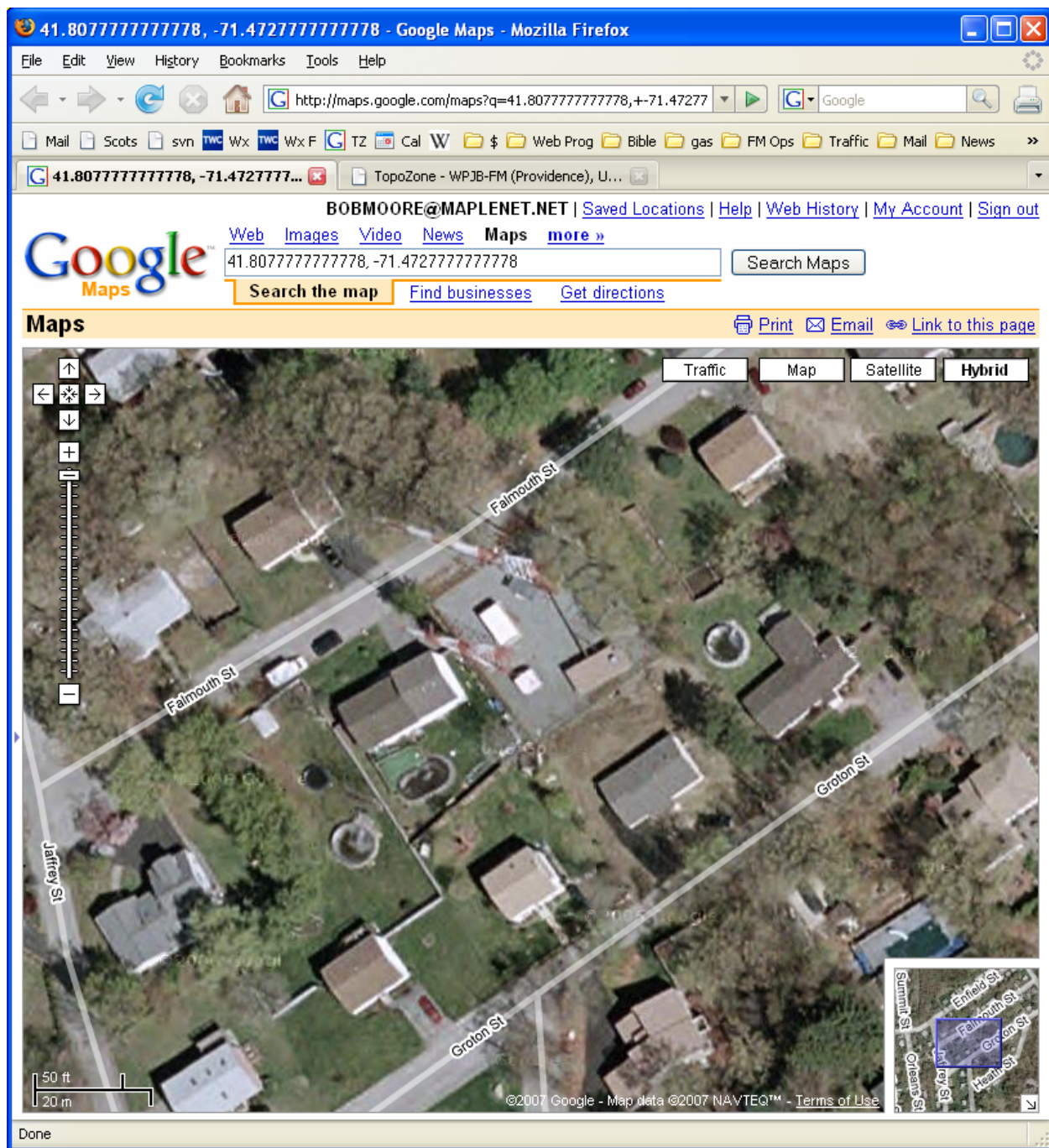
In the attached tabular printout, only W229AN, WHJY, and WSNE-FM have outgoing contour overlaps from the proposed translator, so no interference to other stations is anticipated. Incoming overlap is not prohibited.

W229AN is the current application, and need not be protected.

WHJY and WSNE-FM are both 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 at the transmit site is 90.8 dBu and the signal from WSNE-FM at the proposed site is 82.5 dBu. The weaker and thus more fragile station is WSNE-FM, so protection sufficient for it will suffice for WHJY. A 40 dB ratio of undesired to desired signal strength gives an allowable interfering F(50,10) field strength of 122.5 dBu. With 13 Watts ERP, the free-space equations give the distance to this contour of 18.965 meters from the antenna. The antenna is 55 meters ground, and the houses in the neighborhood are no higher than 2 stories (7 meters) so the signal is about 29 meters (95 ft) above the rooftops. The house heights are easily verified by looking at the shadows in this Google maps closeup.



Hence §74.1204(d) applies, and the predicted area of interference is acceptable to the Commission.

Maps are attached to demonstrate clearance to WMKK (including close up to demonstrate the detail) and WZMX

### IF Separation

The proposal sufficiently distant from all IF spaced facilities that none showed up in the search.

Csn International											
RI Providence Tr at 55m AGL											
CH# 229D - 93.7 MHz, Pwr= 0.013 kW, HAAT=81.5 M, COR= 137 M											
Average Protected F(50-50)= 5.61 km											
DISPLAY DATES											
DATA 05-03-07											
SEARCH 05-24-07											
CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*OUT* (Overlap in km)	
229D Providence	W229AN	CP	DV_	0.0	0.00	41 48 28.0	0.010	12.0	3.8	-14.84*	
		RI		0.0	BNPFT20030827AHZ	71 28 22.0		159	Csn International		
231B Providence	WHJY	LIC	_C_	75.4	8.89	41 49 40.0	50.000	5.3	60.1	-51.60*<	
		RI		255.5	BLH20000915ALB	71 22 09.0	139	170	Capstar Tx Limited Partner		
227B Taunton	WSNE-FM	LIC	DCN	67.0	16.53	41 51 56.0	30.000	5.9	65.2	-49.10*<	
		MA		247.1	BLH19870130KG	71 17 22.0	189	218	Capstar Tx Limited Partner		
229B Lawrence	WMKK	LIC	_CN	26.3	89.97	42 31 57.0	34.000	132.9	64.6	2.48	
		MA		206.6	BLH19960215KC	70 59 11.0	179	201	Entercom Boston License, L		
229B Hartford	WZMX	LIC	_CN	257.0	117.45	41 33 42.0	17.000	131.4	68.3	36.45	
		CT		76.0	BLH19910401KC	72 50 41.0	259	359	Cbs Radio Stations Inc.		
226B Springfield	WHYN-FM	LIC	_C_	296.8	108.65	42 14 28.0	8.900	4.9	64.7	43.67	
		MA		116.0	BMLH19990121KA	72 38 56.0	305	403	Cc Licenses, LIc		
229L1 Tisbury	WVYV-LP	CP	---	118.9	82.19	41 26 53.0	0.093	20.8	6.2	52.26	
		MA		299.5	BMPL20060222AAM	70 36 39.0	31	40	The Drum Workshop, Inc.		

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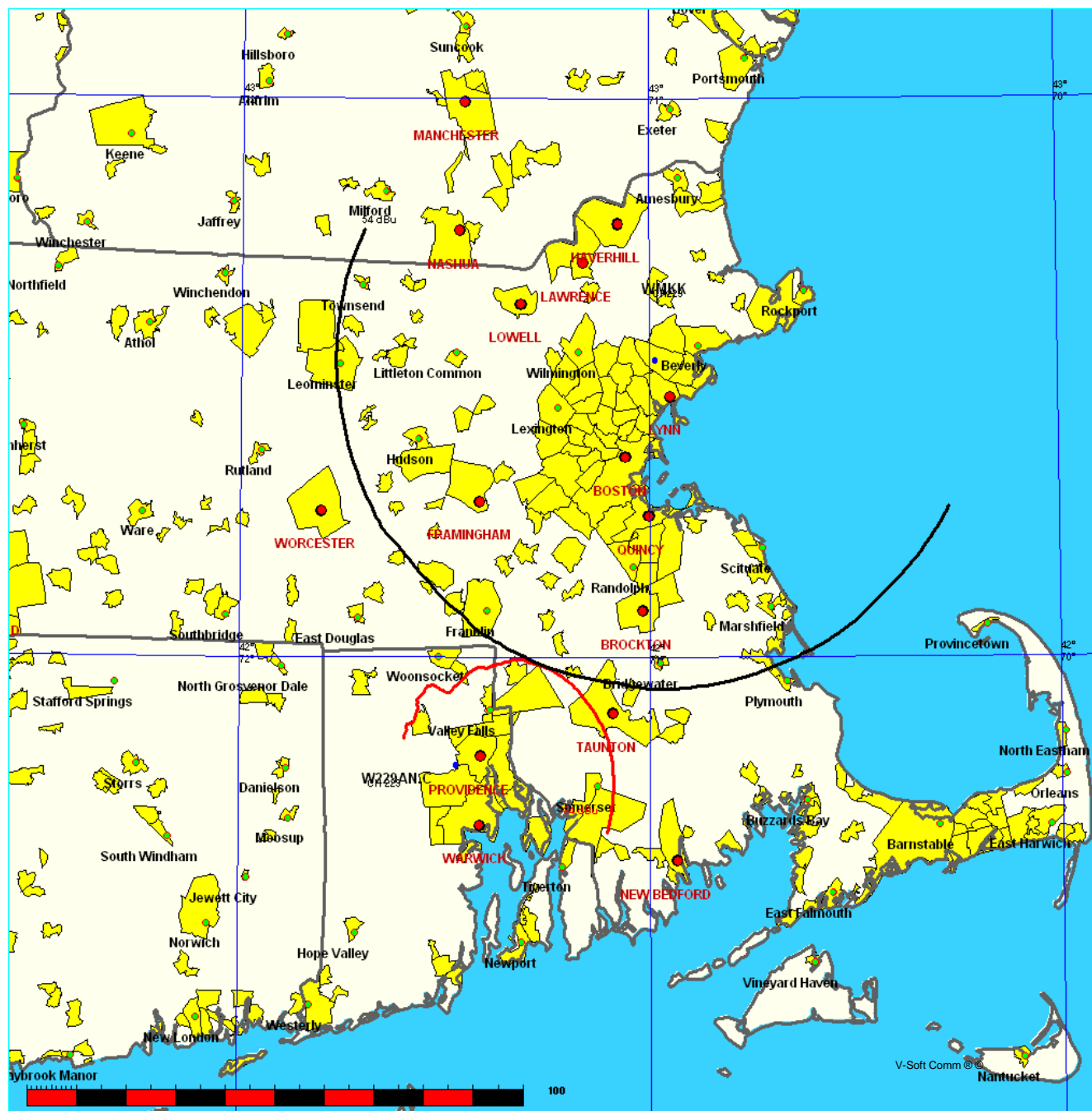
Terrain database is NGDC 30 SEC

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

Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

Incoming contour overlap is ignored.

\*\*\*affixed to 'IN' or 'OUT' values = site inside protected contour. "<" = Contour Overlap



FMCommander Single Allocation Study  
05-25-2007

W229AN.C CH 229 D  
0.013 kW 137 M COR DA  
Prot. = 60 dBu  
Intef. = 34 dBu

WMKK CH 229 B BLH19960215KC  
34.0 kW, 201 M COR  
Prot. = 54 dBu  
Intef. = 40 dBu

Scale = 1:500,000

