

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 WBLM, WPOR, and W273AX have outgoing contour overlaps from the proposed translator, so no interference to other stations is anticipated. Incoming overlap is not prohibited.

WBLM and WPOR 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 WBLM at the proposed site is 77.9 dBu. The F(50,50) signal from WPOR at the proposed site is 75.6 dBu. WPOR is the weaker of the two, so the potential of interference to WBLM need not be analyzed. A 40 dB ratio of undesired to desired signal strength gives an allowable interfering F(50,10) field strength of 115.6 dBu. With 19 Watts ERP, the free-space equation gives the distance to this contour as 50.7 meters from the antenna. The antenna is 76 meters from the ground, so the interfering contour never reaches the ground. The area of interference is over 25 meters above the ground. Examination of aerial photos (Google maps is best here) shows that no building (other than the transmitter buildings) is within 300 meters of the tower. Hence §74.1204(d) applies in both the vertical and horizontal planes, and the predicted area of interference is acceptable to the Commission.

W273AX is the current application, and need not be protected.

Maps are attached to demonstrate clearance to W272BV and WQSS.

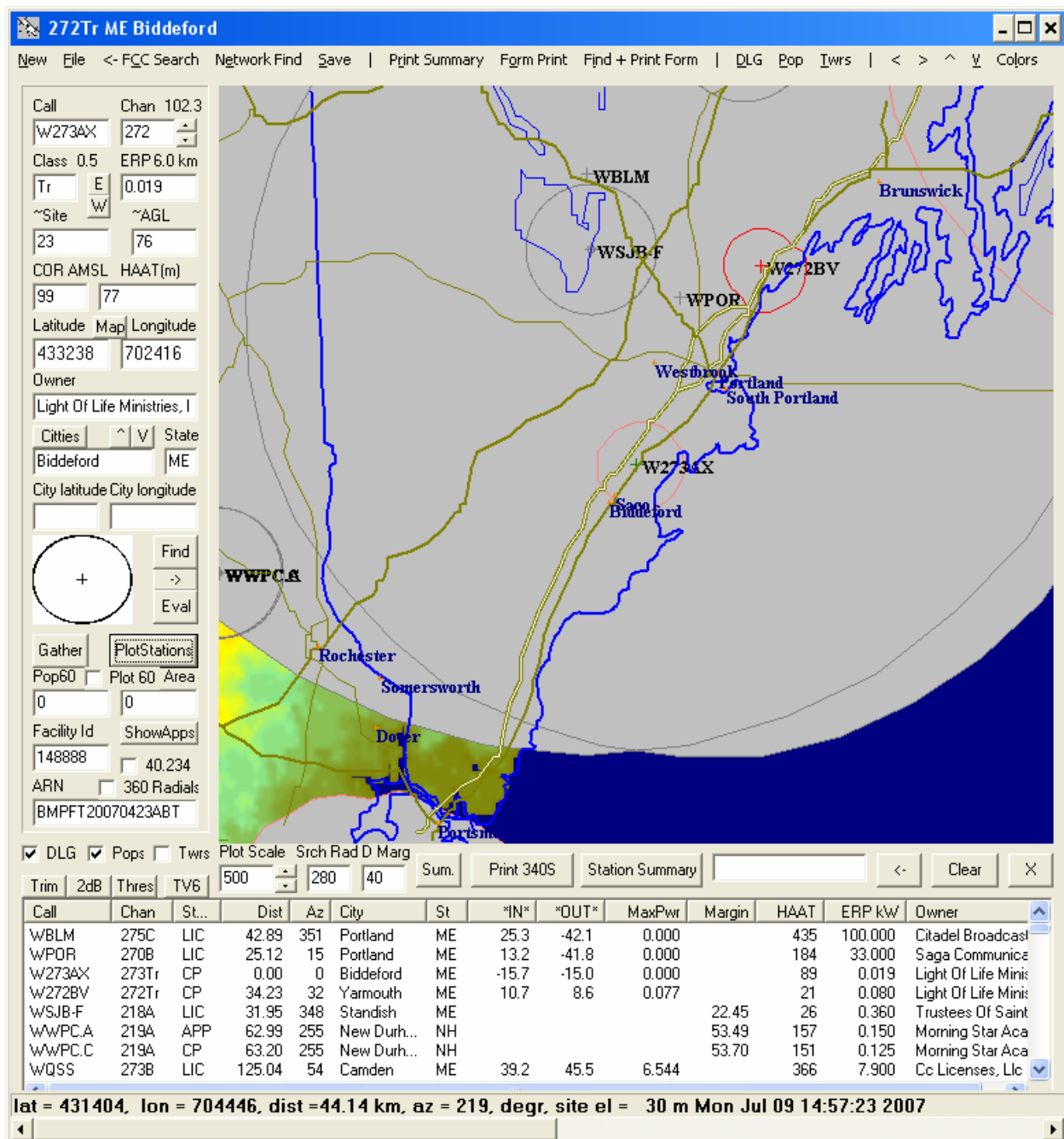
No other entries are sufficiently close to the proposed translator to require analysis.

IF Separation

No IF separated facilities were found in the search.

Canadian Consideration

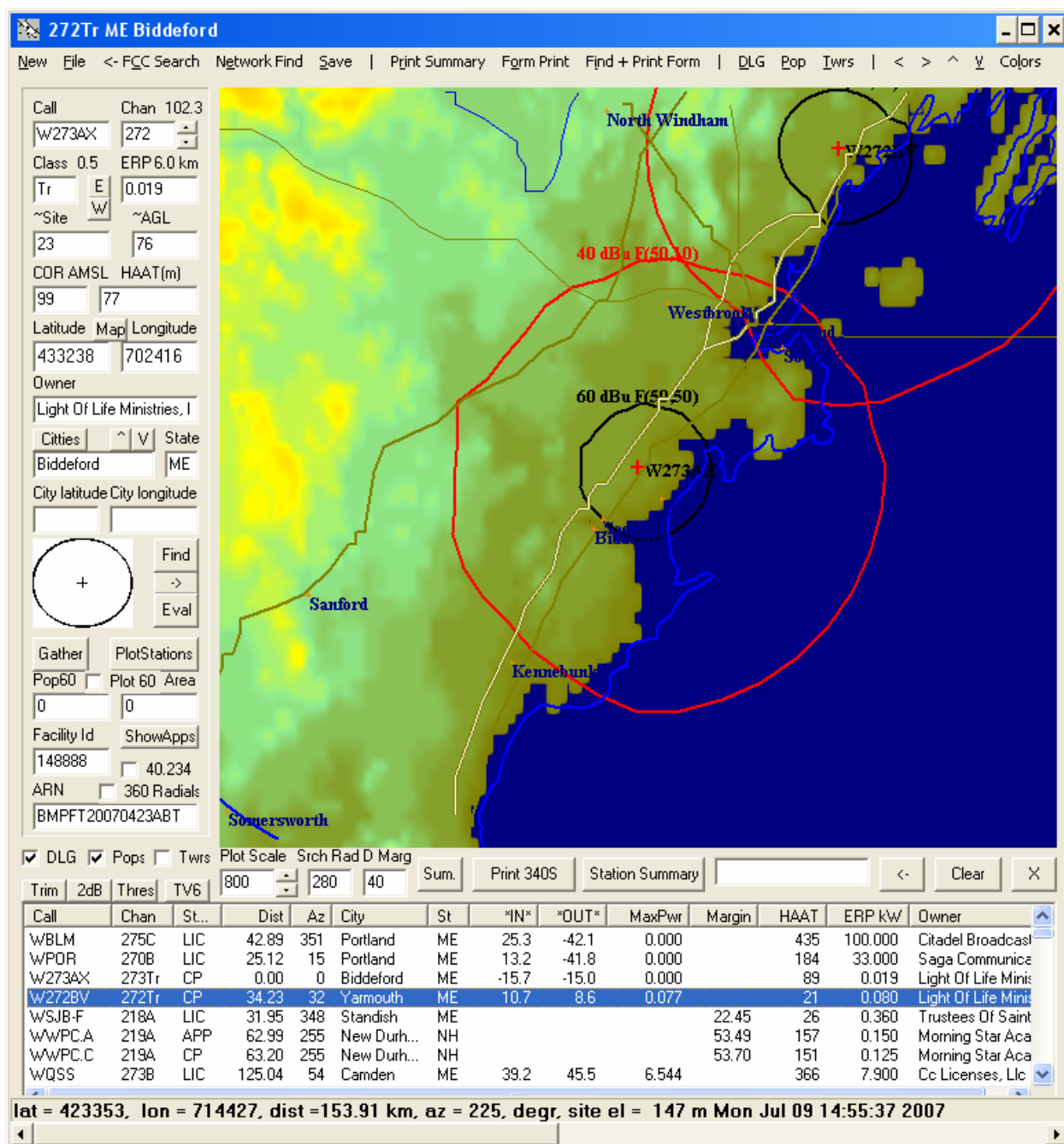
The proposed translator is 185.7212 km from the nearest point in Canada, within the 320 km limit established by treaty. The 0.019 kW ERP does not exceed the maximum 250 Watts, and the maximum 32.1 km F(50,10) 34 dBu contour does not exceed the statutory 60 km. No Canadian stations were found in the above 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 (32.1 km maximum contour distance is less than the 185.7212 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.



Channel 272Tr Analysis

W273AX Biddeford, ME
 N Lat 433238 W Lon 702416
 Site 20m
 COR AMSL 99m AGL 79.0m
 HAAT 77.3 M98.6m ERP 0.019 kW

ChanCl	Call	Signal dBu	*Out* km	Az degr
270B	WPOR	75.6	-41.8	15
272Tr	W272BV	27.1	8.6	32
275C	WBLM	77.9	-42.0	351



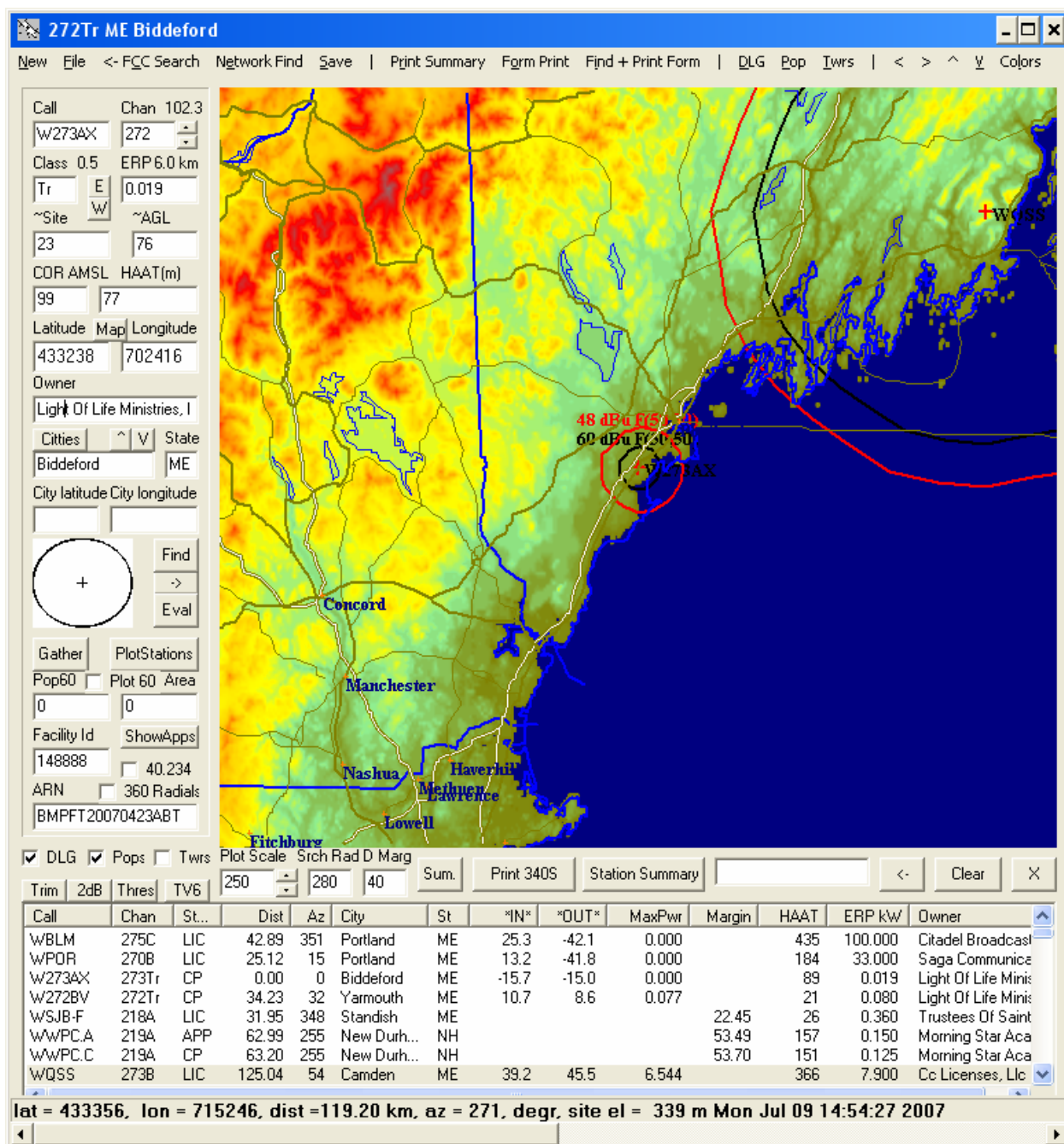


Exhibit A
Terrain and Contour Data
ME Biddeford W273AX
Canadian Showing

ERP 0.019 kW
N. Lat. 43 32 38
W. Lon. 70 24 16
Center of Radiation 99.00 m AMSL

Az. Deg T.	Avg Elev 3-16 km Meters AMSL	Effective Antenna Ht Meters AAT	ERP Kilowatts	Distance to Contour (km)	
				60.0 dBu F(50,50)	34.0 dBu F(50,10)
0	30.3	68.7	0.0190	5.6	26.4
30	21.9	77.1	0.0190	6.0	28.0
60	13.7	85.3	0.0190	6.3	29.5
90	1.3	97.7	0.0190	6.8	31.9
120	0.4	98.6	0.0190	6.8	32.1<--
150	0.5	98.5	0.0190	6.8	32.1<--
180	2.2	96.8	0.0190	6.7	31.7
210	25.5	73.5	0.0190	5.8	27.3
240	32.5	66.5	0.0190	5.6	26.0
270	43.1	55.9	0.0190	5.1	24.0
300	47.4	51.6	0.0190	4.9	23.0
330	41.4	57.6	0.0190	5.2	24.4
Average	21.683	77.317	<--HAAT m		
Area (sq. km.)				113.24	2502.41
2000 Grouped Population				20,640	242,620