

**ENGINEERING EXHIBIT
MINOR CHANGE IN LICENSED FACILITY
FM TRANSLATOR W260CB
HAMTRAMCK, MICHIGAN
FACILITY ID 93456**

Bell Broadcasting Company (BBC), the licensee of FM translator station W260CB, Hamtramck, MI (file number BLFT-20111014AAM) submits this exhibit as part of an application for a minor change in the licensed facility of W260CB. The instant application proposes changing the directional pattern of the station. No change in antenna location coordinates is proposed. No change in antenna height above ground or effective radiated power (ERP) is proposed. The proposed facility is identical to the facility described in a previous construction permit (CP) file number BPFT 20100225ADO that was granted on June 2, 2010.

Proposed Facility:

Frequency: 99.9 MHz

Channel: 260

Station class: D

Antenna type: Directional

Major lobe direction: 320 degrees true, as shown in Figure 7

Antenna location coordinates:

North Latitude: 42 Degrees, 27 Minutes, 13 Seconds

West Longitude: 83 Degrees 09 Minutes 50 Seconds

Effective radiated power in the horizontal plane: 0.25 Kilowatt maximum

Height of radiation center above ground: 244 meters

Height of radiation center above mean sea level: 447 meters

Antenna structure registration number: 1001506

Fill-in translator for WDMK Detroit MI (Facility ID 4597) as shown in Figure 9.

Interference:

The proposed facility is nearly identical to the licensed facility, as shown in Figure 1. The spacing study in Figure 2 shows four stations of concern:

1. WYCD, Detroit MI. WYCD is a Class B station transmitting from the same tower as W260CB, on a second adjacent channel to W260CB. The W260CB antenna is higher above ground than the WYCD antenna, and has a more directional vertical plane radiation pattern than the WYCD antenna. It is not possible for 250 watt W260CB to create interference to 32 Kilowatt WYCD at ground level.
2. WNIC, Dearborn, MI. WNIC operates on a second adjacent channel to W260CB, and WNIC field strength at the W260CB site is 95.75 dBu as shown in Figure 4. W260CB produces a field strength of 113.152 dBu at the base of the tower, assuming full ERP downward, as shown in Figure 3. Because the existing and proposed antenna height is 244 meters above ground level, interference to WNIC (and WYCD) does not occur, as shown in Figure 4.
3. CJFI FM Sarina, ON. The presently licensed 34 dBu contour of W260CB extends into Canada, and the proposed 34 dBu contour does not extend into Canada, as shown in Figure 4. The proposed facility produces less signal into Canada than the presently licensed facility.
4. WKKO, Toledo OH. Figure 5 shows contour protection.

AM station:

The tower supporting the licensed and proposed facility of W260CB is not base insulated, and is grounded. The tower is the nighttime facility of WRDT (AM) Monroe, MI (Facility ID 25083). The instant proposal replaces the licensed antenna with a different antenna at the upper end of the transmission line. The W260CB transmission line is one of many transmission lines already running up the tower. A different W260CB antenna should not have a cognizable impact on the AM station antenna parameters

Environmental:

The proposed facility was previously authorized with a CP. No new factors have emerged that cause environmental concern. The presently licensed facility is a one bay FM antenna side mounted on a tall tower in an urban environment, and the proposed facility is a yagi antenna array mounted at the same height on the tower. The tower is not located in a rural area, and is an established communications site. The overall height of the tower will not be increased, nor will the lighting or painting be changed. Predicted radiofrequency electromagnetic radiation two meters above ground level is less than five percent of the FCC guideline for uncontrolled public exposure, as shown in Figure 8.

Summary:

BBC proposes a minor change in licensed facility of W260CB. The technical change is a return to the previously authorized CP facility. The proposed antenna location is the existing licensed site of W260CB, and no tower construction is required. The overall height and lighting of the tower will not be changed. The proposed physical and electromagnetic facility is not of environmental concern, and is within FCC guidelines for uncontrolled public exposure to radiofrequency electromagnetic radiation.



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Figure 1

W260CB licensed and proposed 60 dBu F(50,50) contours

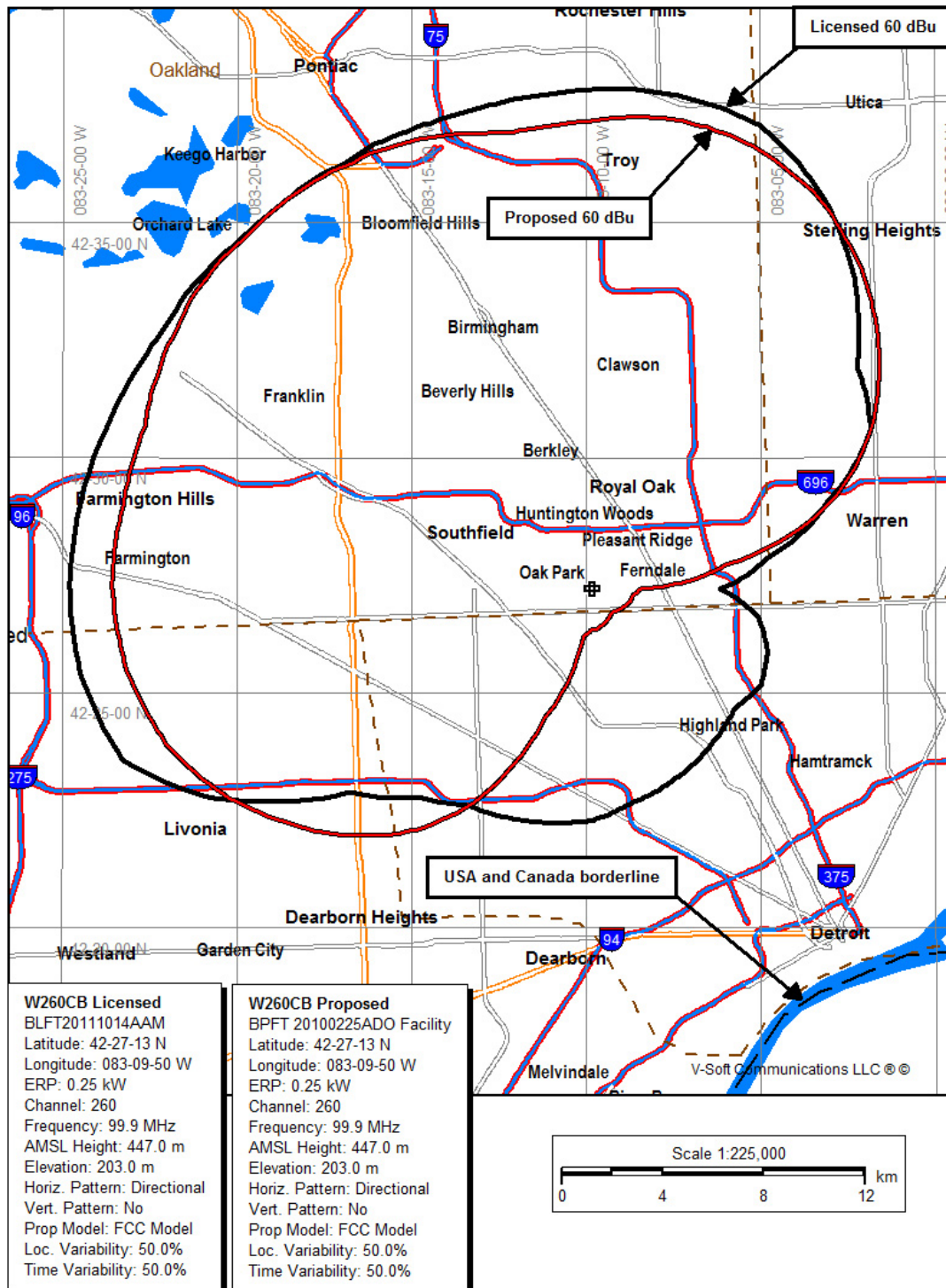


Figure 2 Spacing study

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Spacing Study for W260CB licensed and proposed site
Bell Broadcasting Company

REFERENCE                                     DISPLAY DATES
42 27 13.0 N.                                CLASS = D Int = D    DATA 08-19-13
83 09 50.0 W.                                Current Spacings to 3rd Adj. SEARCH 08-19-13
----- Channel 260 - 99.9 MHz -----

Call      Channel  Location      Azi      Dist      FCC      Margin
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W260CB    LIC-D  260D    Hamtramck    MI        0.0        0.00      65.0     -65.0
WYCD      LIC    258B    Detroit      MI        0.0        0.00      54.0     -54.0
WNIC      LIC    262B    Dearborn     MI       169.7        7.24      54.0     -46.8
CJFFFM    PRO    260B    Sarnia       ON        46.4       85.87     112.0     -26.1
WKKO      LIC-Z  260B    Toledo       OH       195.4       90.47     112.0     -21.5
W260BX    LIC-D  260D    Lansing      MI       285.3     117.46      65.0      52.5
R12507    VAC    260A    London       ON        68.7     167.77     112.0      55.8
WUGN      LIC    259C    Midland      MI       316.9     163.18     104.0      59.2
R14902    DEL    259C    Midland      MI       316.9     163.22     104.0      59.2
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Figure 3

Field strength at base of tower, assuming maximum ERP

113.152 dBu

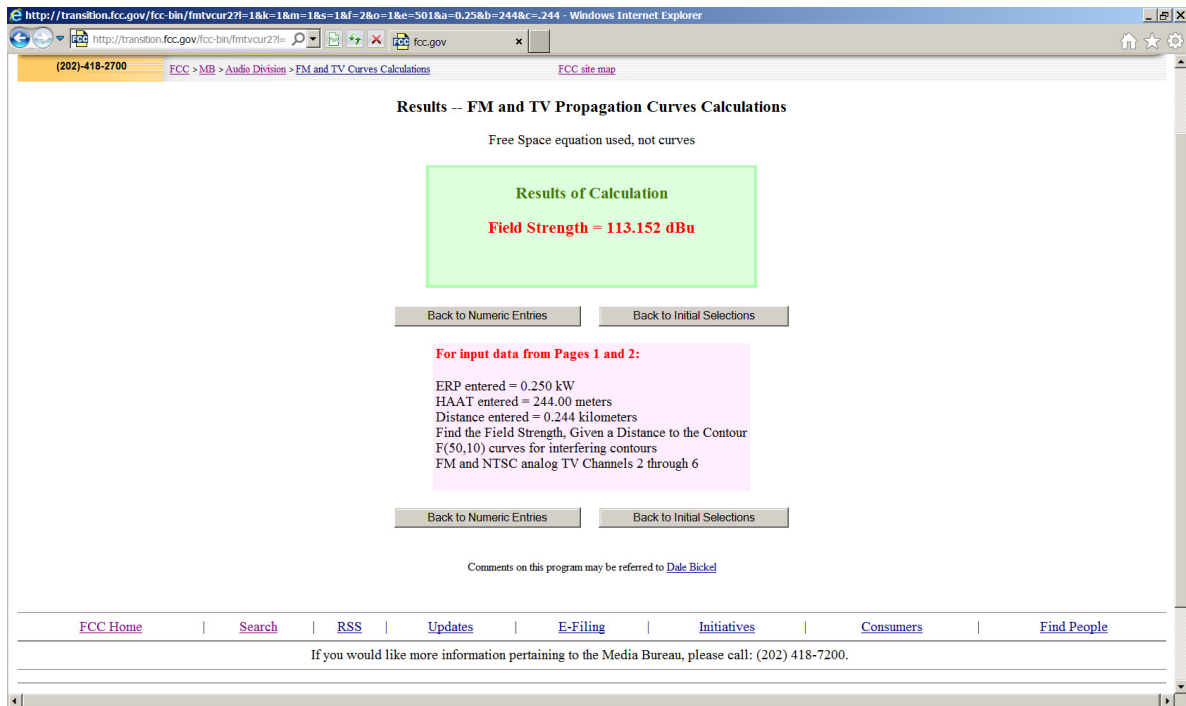


Figure 4

W260CB contour protection to WNIC

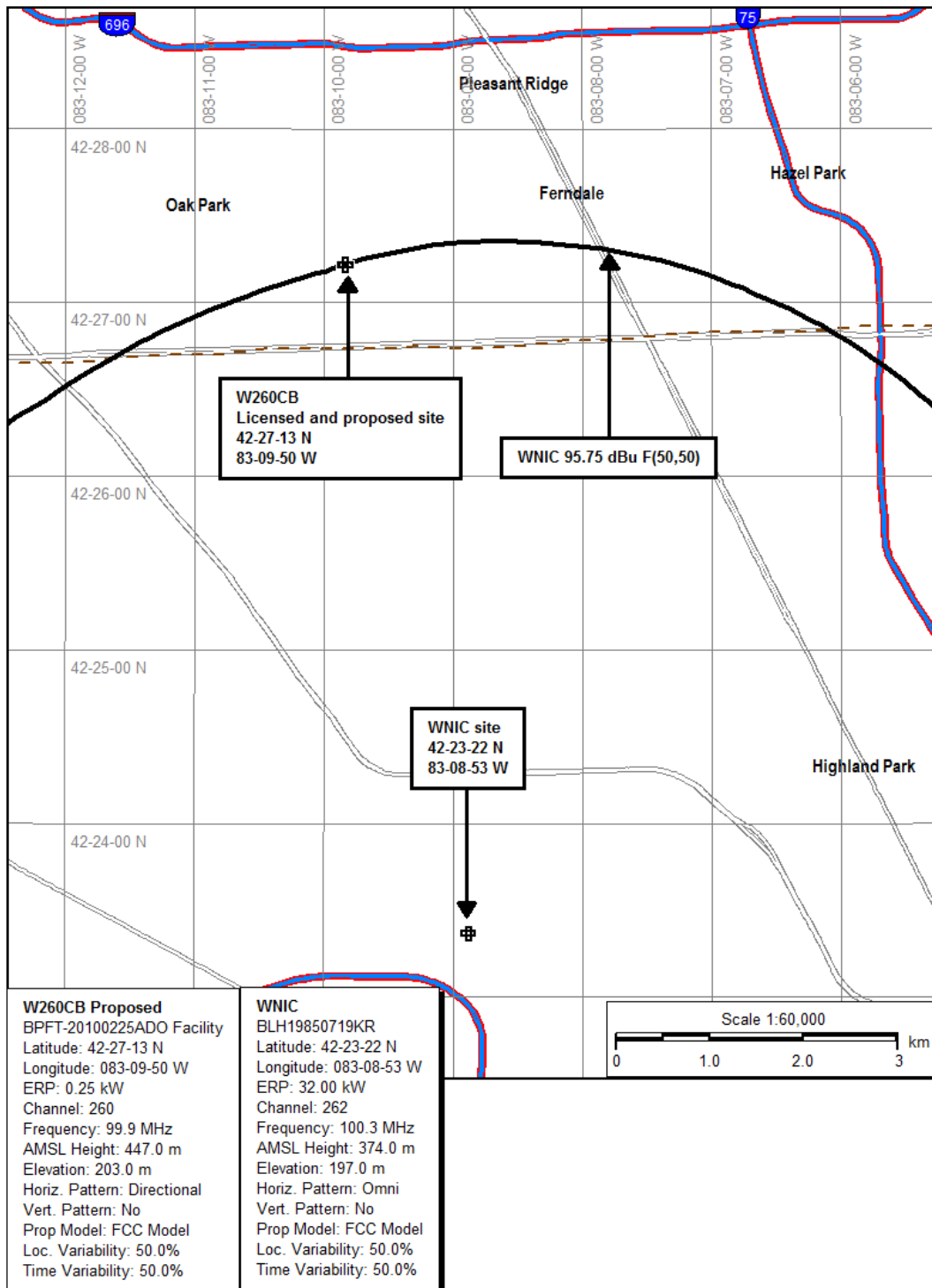


Figure 5

W260CB licensed and proposed 34 dBu F (50,10) contours

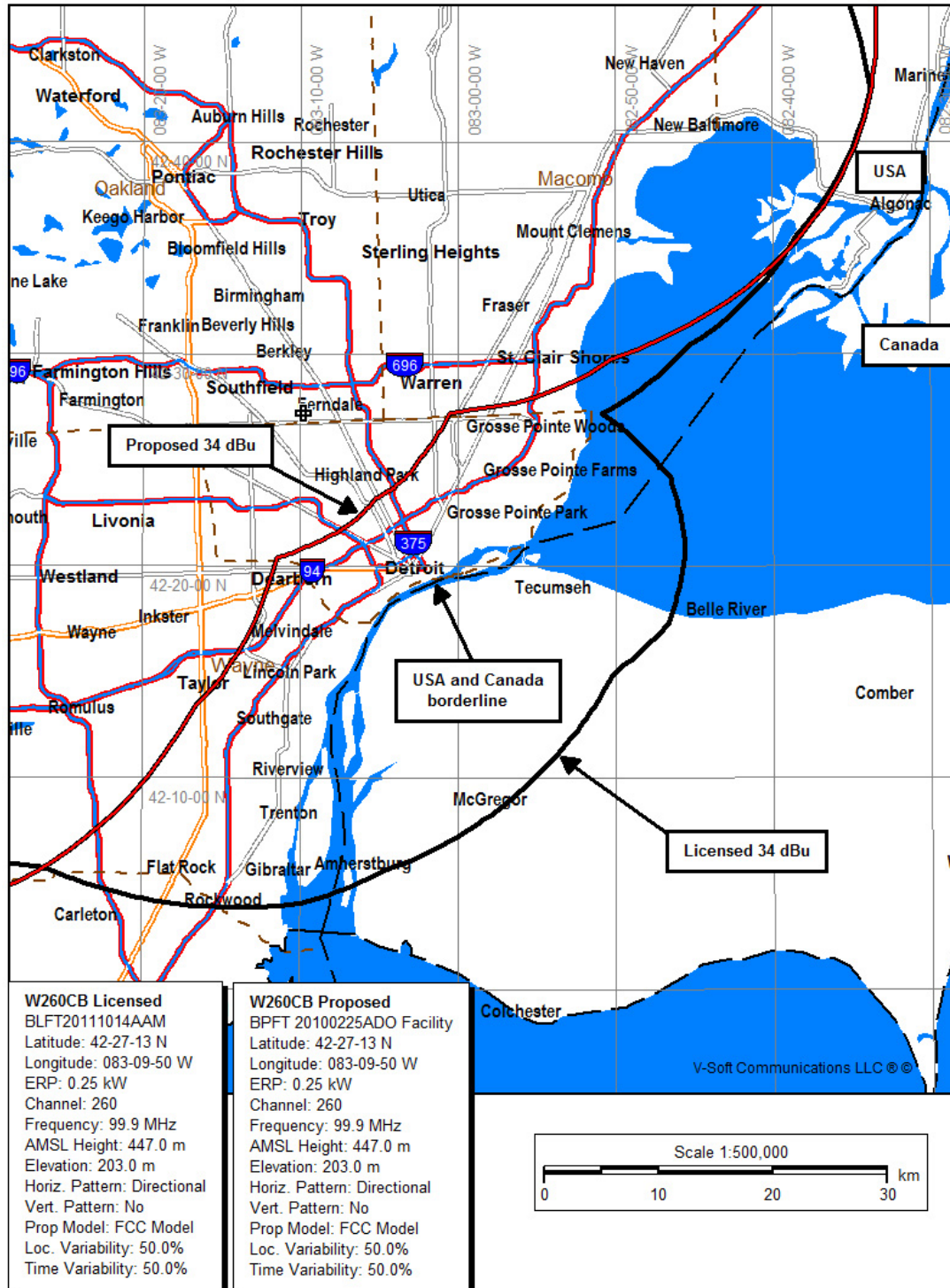


Figure 6

W260CB contour protection to WKKO

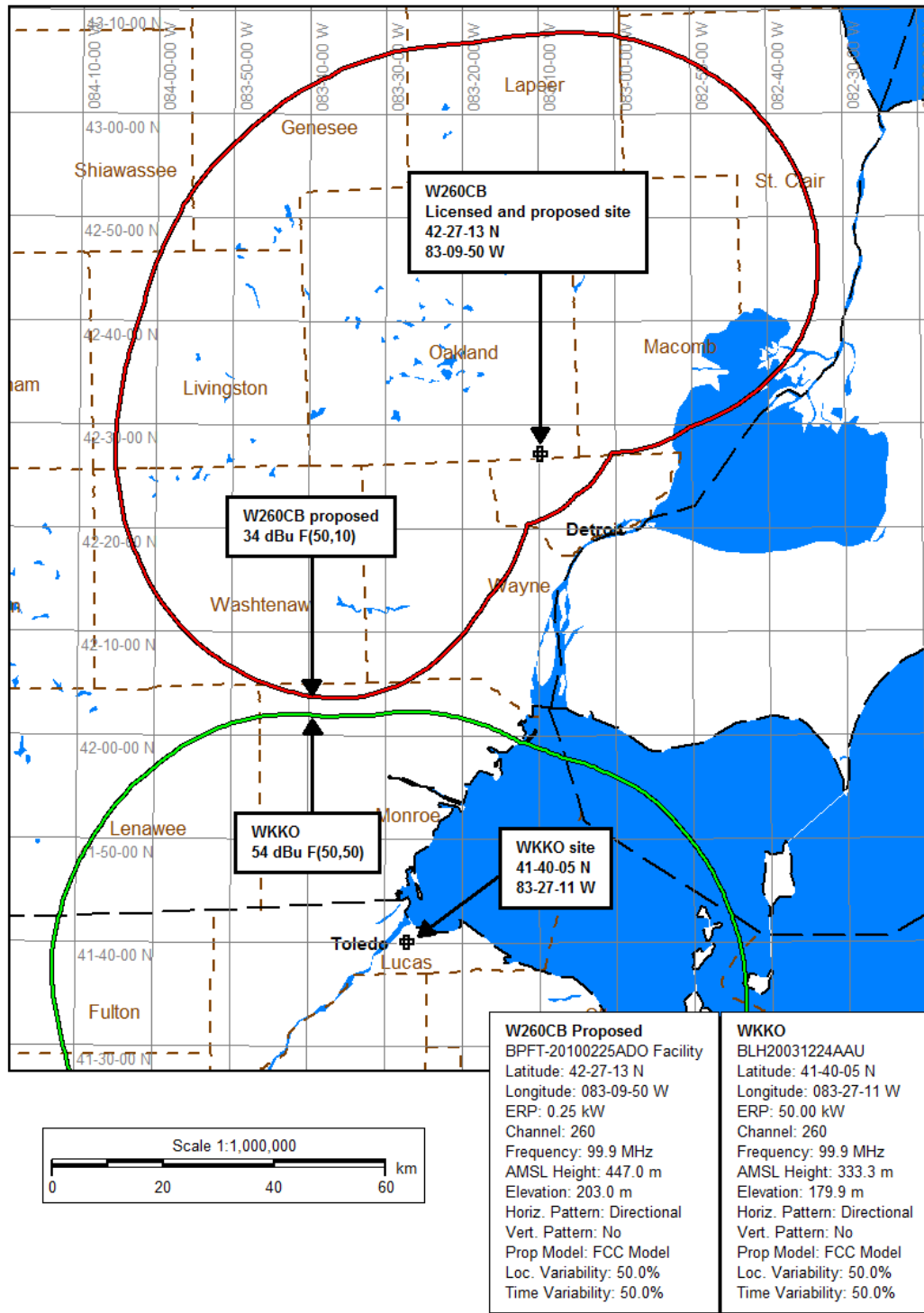


Figure 7

Tabulated antenna directional pattern of proposed facility

Major lobe direction: 320 degrees true

Antenna Pattern

Pre-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	0.845
10.0	0.843
20.0	0.806
30.0	0.735
40.0	0.63
50.0	0.506
60.0	0.371
70.0	0.226
80.0	0.077
90.0	0.019
100.0	0.016
110.0	0.014
120.0	0.013
130.0	0.012
140.0	0.011
150.0	0.012
160.0	0.013
170.0	0.014
180.0	0.016
190.0	0.019
200.0	0.077
210.0	0.226
220.0	0.371
230.0	0.506
240.0	0.63
250.0	0.735
260.0	0.806
270.0	0.843
280.0	0.845
290.0	0.868
300.0	0.948
310.0	0.989
320.0	1.0
330.0	0.989
340.0	0.948
350.0	0.868

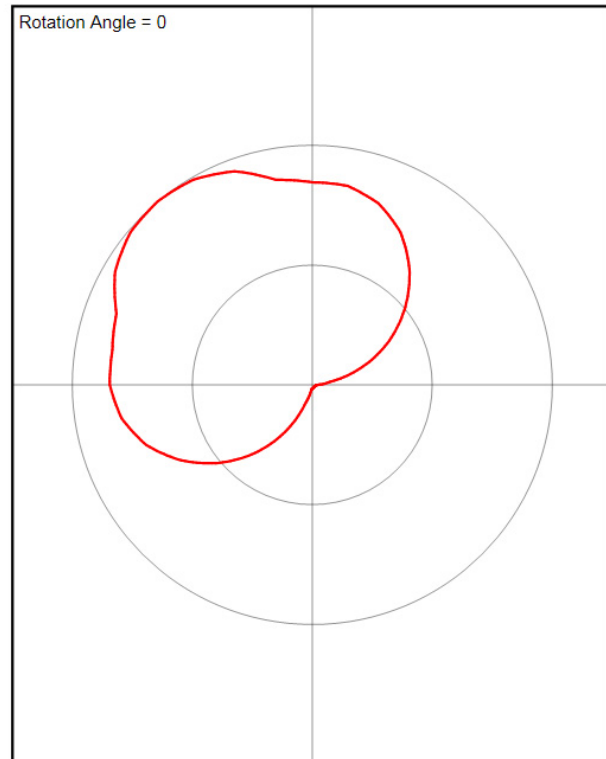


Figure 8
FM Model RFR of proposed facility

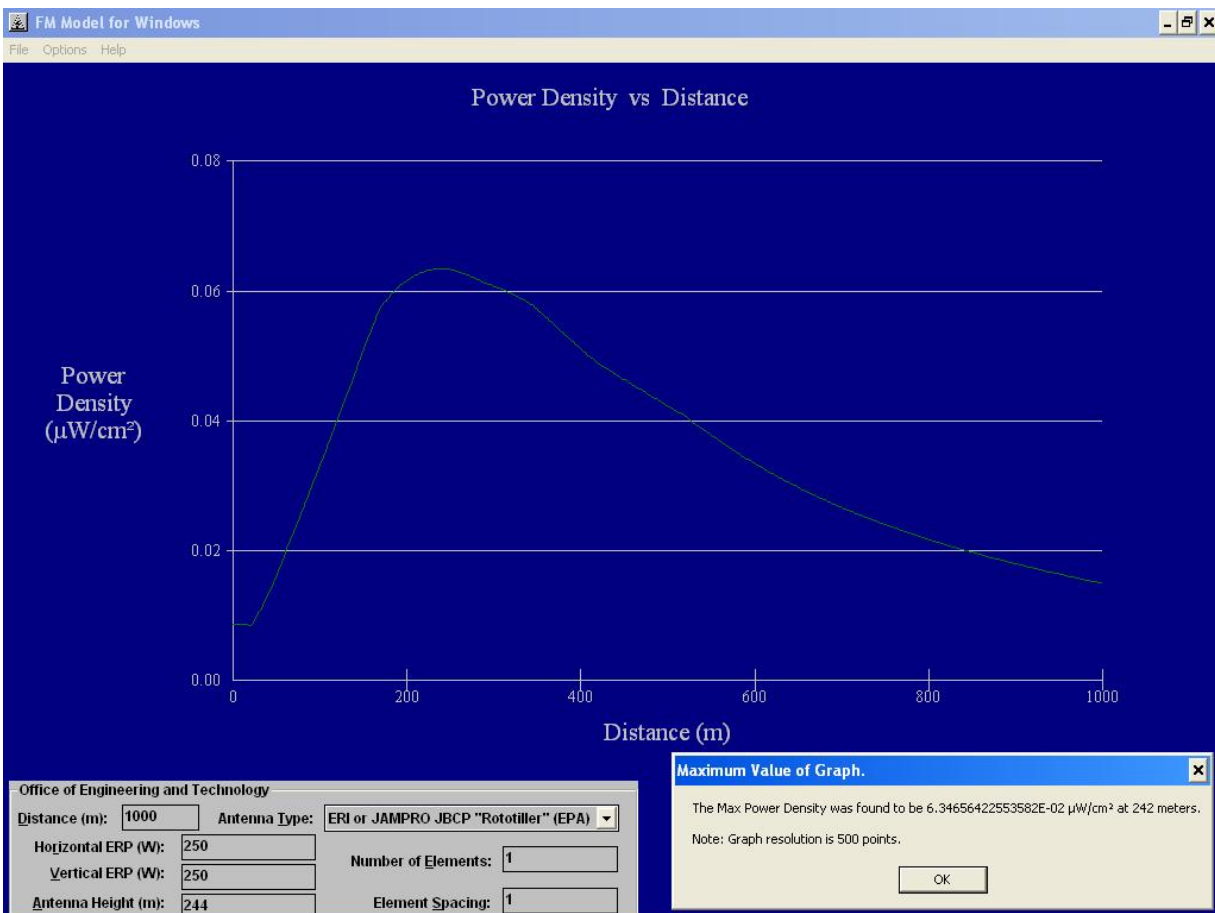


Figure 9

W260CB fill-in translator for co-owned WDMK (FM)

