

EXHIBIT E-1

TECHNICAL STATEMENT
W243DC BOSTON, MA
BEANPOT LICENSE CORP.
FCC FORM 349
JANUARY 2023

Fill-In Service

Figure 1 of this Exhibit shows that the 54dBu F(50,50) (0.5 mV/m) contour for the proposed operation of W243DC falls entirely within the 54dBu F(50,50) contour of the licensed operation of WXRV(FM).

Additionally, Figure 1 of this Exhibit shows that the proposed operation of W243DC conforms with the requirements of Section 74.1233(a)(2) of the Commission's rules for a minor modification of facilities, as a portion of the service area within the 60dBu contour for the licensed operation of W243DC would receive a signal of 60dBu or greater from the proposed operation of the translator.

Interference Considerations

The proposed operation of W243DC conforms with the requirements of Section 74.1204 of the Commission's Rules for an FM translator on Channel 243D with respect to overlap of predicted contours with the licensed operation of any FM station, LPFM station or FM translator, and the operation of any such facilities specified in a construction permit or pending application, on the same channel, the first, second, and third adjacent channels, as shown in this Exhibit. The proposed FM translator site is located within the predicted protected contours of one existing FM station on the second adjacent channel. This Exhibit demonstrates that, under Section 74.1204(d) of the Rules, no objectionable interference will be caused to this station.

As the proposed facilities are under 100 watts ERP, the proposal is not subject to intermediate frequency distance separation requirements.

Figure 2 of this Exhibit shows the pertinent predicted contours for the proposed operation of W243DC and co-channel WMLL(FM), Bedford, New Hampshire as well as WTIC-FM, Hartford, Connecticut, translator W243BG New Bedford, Massachusetts and LPFM WIGV-LP Providence, Rhode Island.

The pertinent predicted contours for the proposed operation of W243DC and first-adjacent stations WEII(FM), Dennis, MA, on Channel 242B1 and LPFM WJOP-LP, Newburyport, MA, on Channel 242 are shown in Figure 3 of this Exhibit.

Figure 4 of this Exhibit depicts the location of the proposed W243DC site with respect to the predicted protected contours of station WSRs(FM), Worcester, MA, on Channel 241B and WATD-FM, Marshfield, MA on Channel 240A. It also depicts the transmitter

site location of WBQT(FM) Boston, MA on Channel 245B. As shown in Figure 4, the proposed site is located within approximately 2km of the WBQT site.

With respect to WBQT(FM), the predicted F(50,50) signal of WBQT at the proposed W243DC site is 112 dBu, and interference would occur where the translator signal is greater than 152 dBu. Based on the FCC's "Free Space" equation, the F(50/10) 152 dBu interfering contour extends 2 meters, and therefore will not create any objectionable interference as the mounting height above roofline is 5.5 meters (see Figure 5, FCC Propagation Curves Calculation with regard to WBQT.)

The predicted contours shown in this Exhibit were determined in accordance with the requirements of Section 73.313 of the Commission's Rules, from computerized calculations based on the NGDC 30-second terrain database and Figures 1 and 1a of Section 73.333 of the Rules. Distances to the contours were calculated at azimuthal increments of one degree.

Environmental Statement

The proposed operation of W243DC is exempt from routine evaluation with respect to radiofrequency radiation under Section 1.1307(B) of the Commission's Rules, because the effective radiated power does not exceed 100 watts. The applicant will operate the proposed FM Translator at reduced power, or temporarily cease operation, as may be required to protect all workers from exposure to hazardous levels of radiofrequency radiation.

Figure 1
Translator Fill-In Service

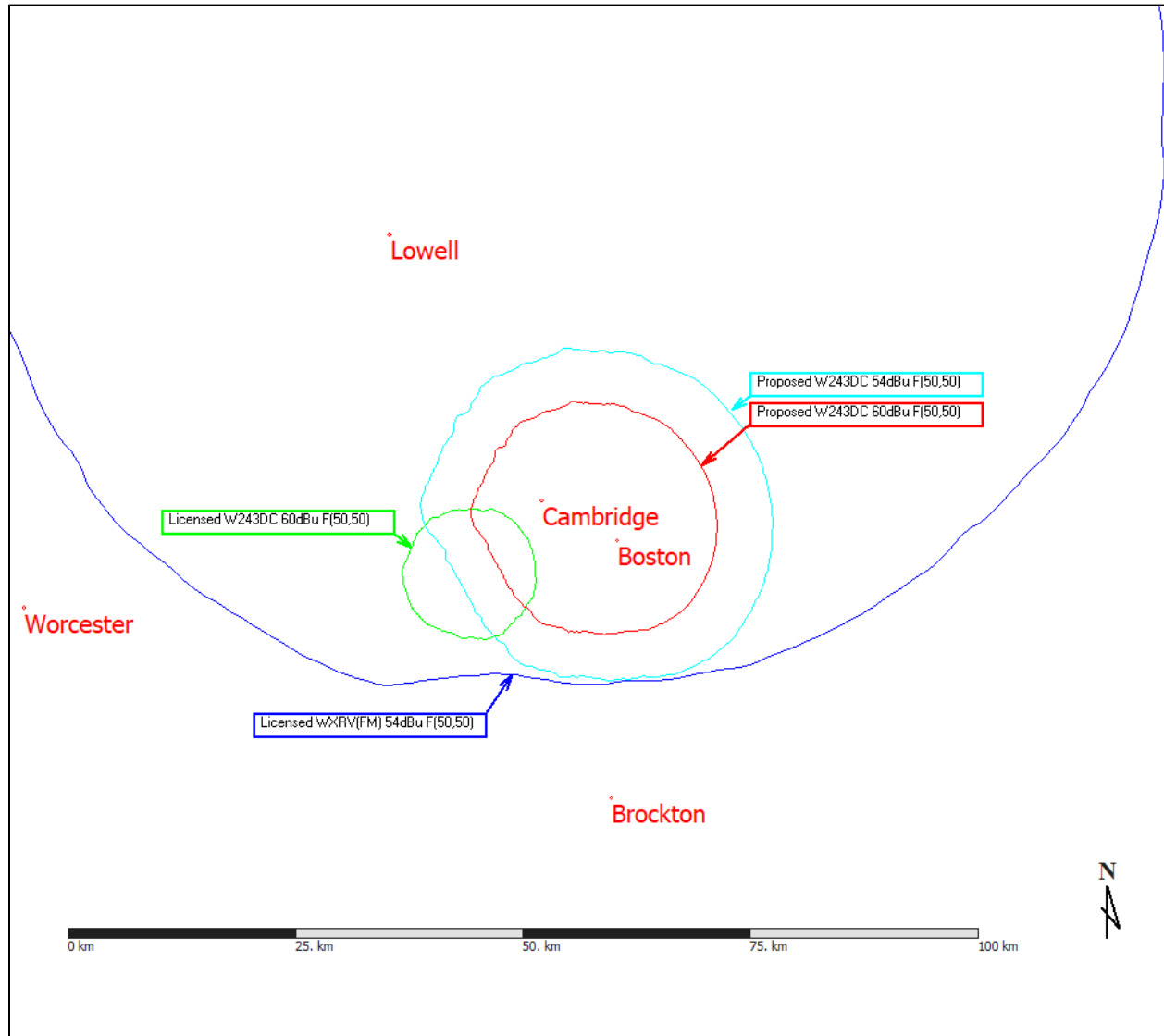


Figure 2
Co-Channel Interference Considerations

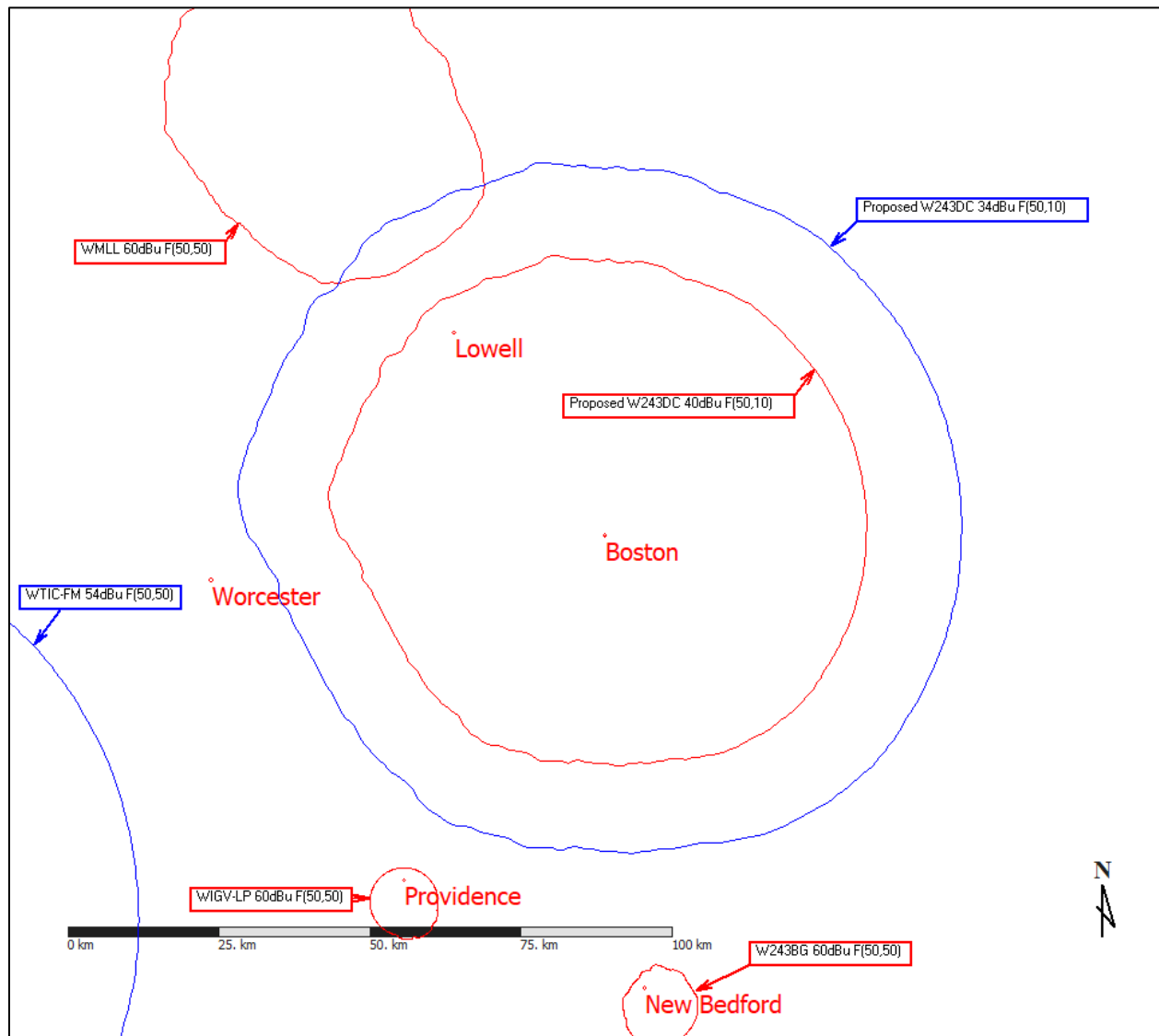


Figure 3
1st Adjacent Interference Considerations

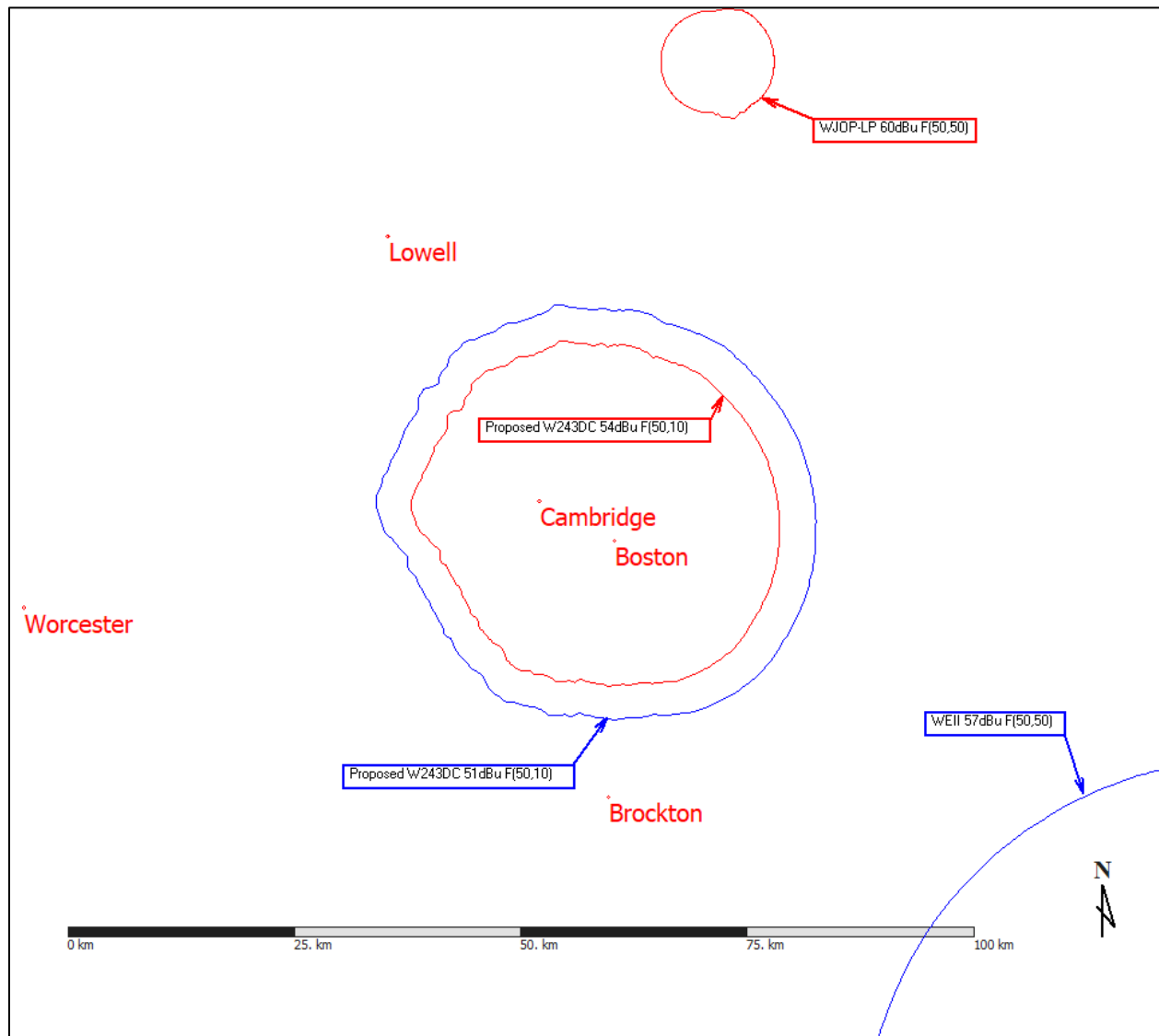


Figure 4

2nd and 3rd Adjacent Interference Considerations

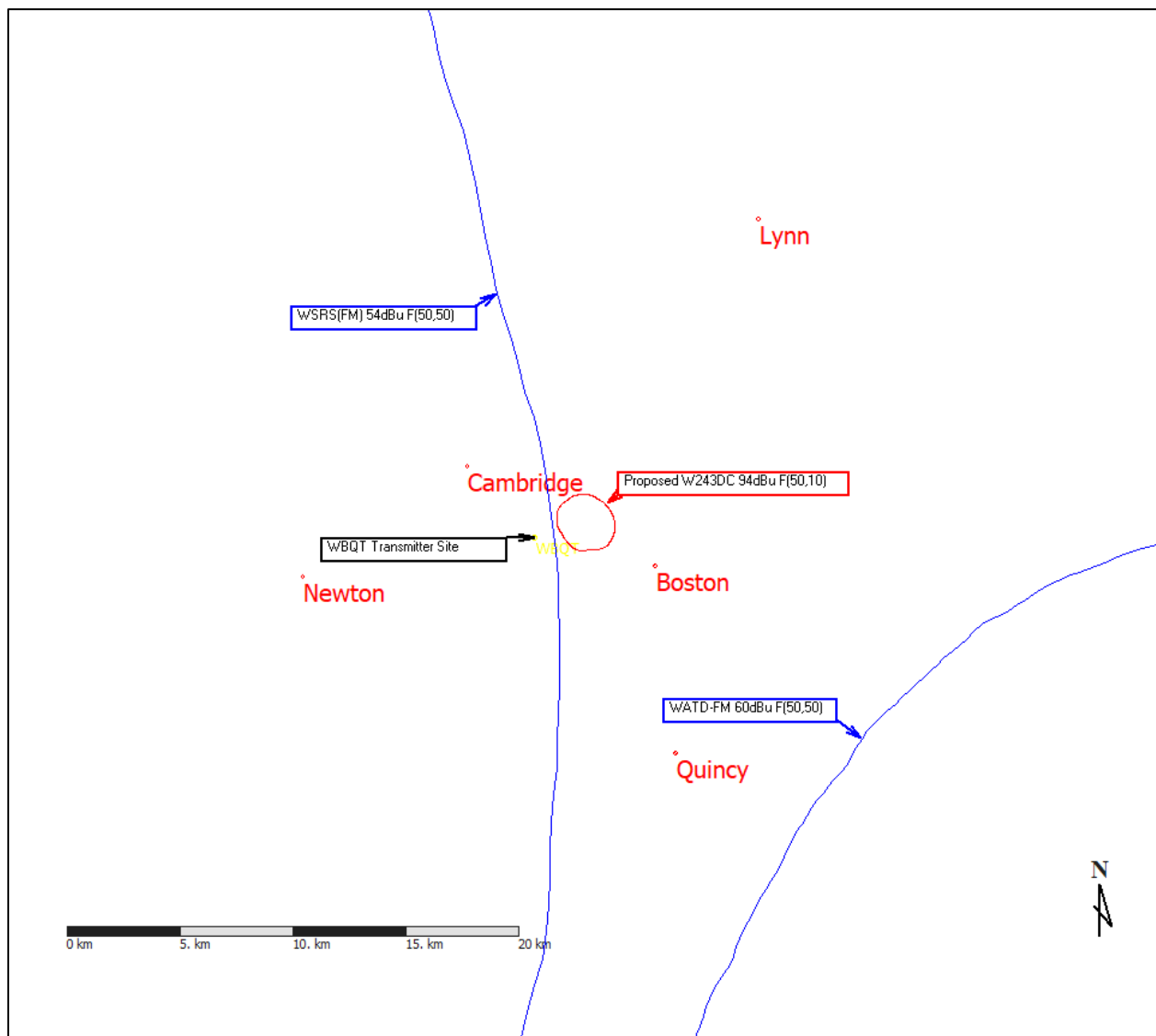


Figure 5

FCC Propagation Curves Calculation

Select Contour Type:

F(50,50) Service Contour -- FM and NTSC (analog) ^

F(50,10) Interfering Contour

F(50,90) Digital TV Service Contour v

Select Channel Range:
(not TV Virtual Channel)

FM Radio or TV Transmit Channels 2 ^

TV Transmit Channels 7-13

TV Transmit Channels 14-69 v

Find This:

Field Strength, given a Distance (in km) ^

Distance, Given a Field Strength (in dBu)

FM ERP, given Distance and Field Strength [F(50,50) Service Contou v

.099

ERP (kW)

Distance (km)

100

HAAT (meters)

152

Field (dBu)

Find Result

Clear Form

Results:

Calculated Distance = **0.002 km**

Free Space equation used to compute distance.