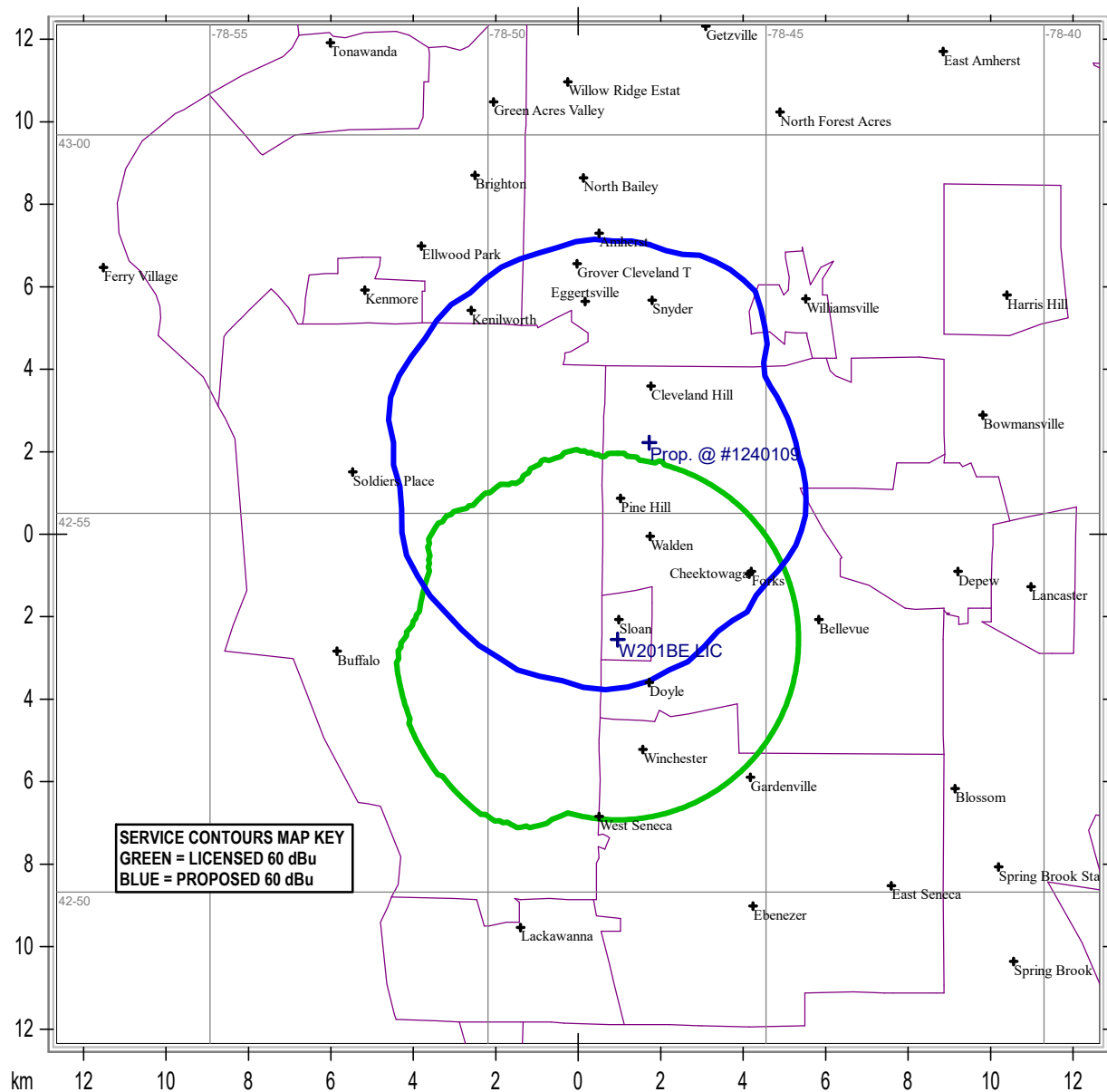


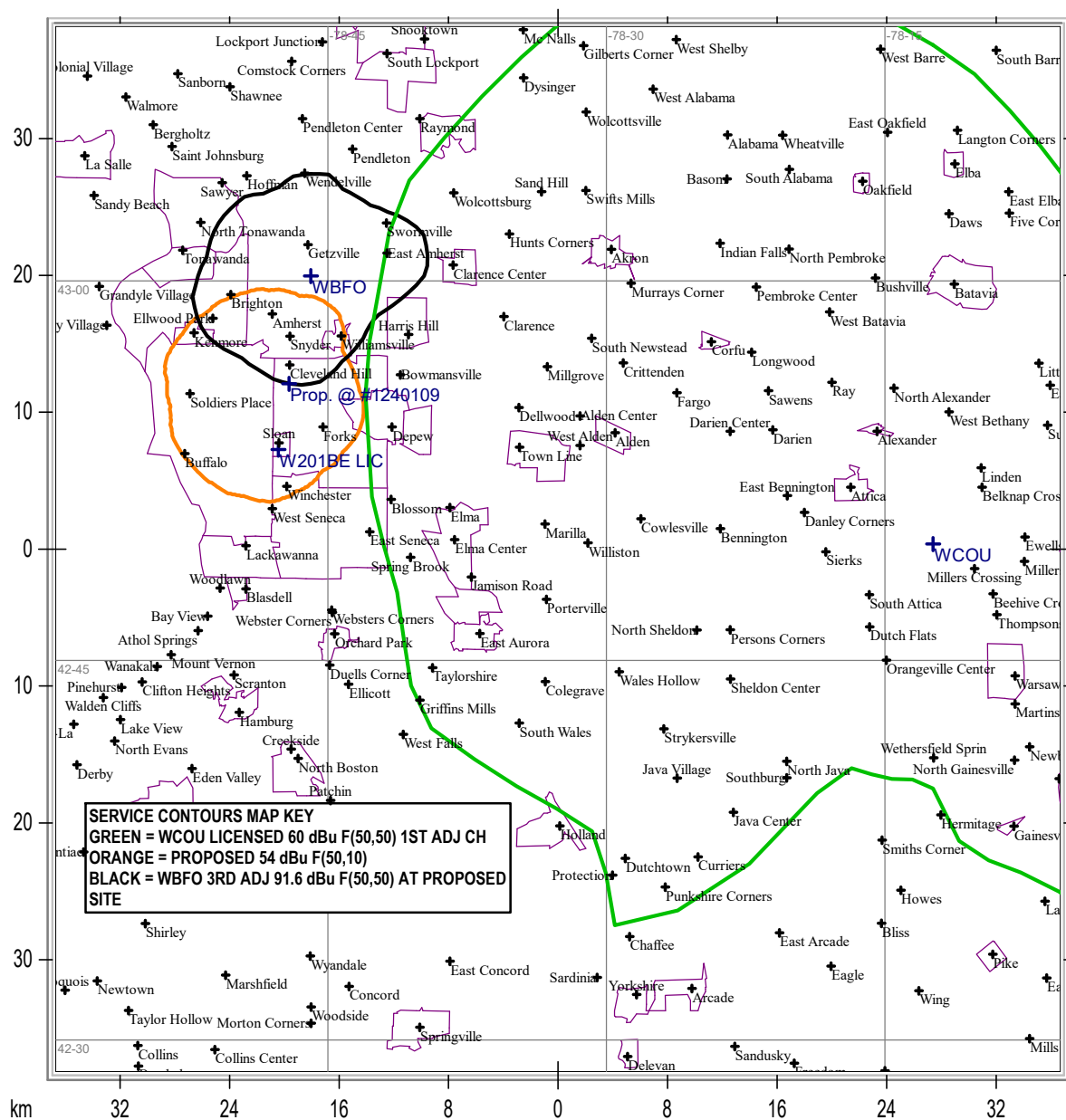
W201BE CH 201 45 W Max DA Prop. CP Mod - Buffalo, NY



Communications Technologies, Inc. Marlton, New Jersey

City Borders Lat/Lon Grid

W201BE CH 201 45 W Max DA Prop. CP Mod - Buffalo, NY



Communications Technologies, Inc. Marlton, New Jersey

FIGURE 3

THIRD ADJACENT CHANNEL FREE SPACE ANALYSIS

THE PROPOSED CH 201 TRANSLATOR IS LOCATED INSIDE THE 60 DBU CONTOUR OF WBFO OPERATING ON CH 204. THE WBFO FACILITY PLACES ITS 91.6 DBU CONTOUR OVER THE PROPOSED TRANSLATOR SITE MAKING THE PROPOSED TRANSLATOR INTERFERING CONTOUR THE 131.6 DBU CONTOUR.

THE FCC PROPAGATION CURVES TOOL HAS BEEN EMPLOYED TO DETERMINE DISTANCE TO THE 131.6 DBU CONTOUR FOR THE HAAT OF 47 METERS. THE OUTPUT IS PASTED IN BELOW AND THE DISTANCE IS 0.012 KILOMETERS OR 12 METERS (40 FEET). SINCE THE ANTENNA RC IS 37.2 METERS AGL THERE IS NO OPPORTUNITY FOR INTERFERENCE TO WBFO. A WAIVER OF 74.1204 IS RESPECTFULLY REQUESTED IF REQUIRED TO DEMONSTRATE PROTECTION TO WBFO.

Select Contour Type:	<div>F(50,50) Service Contour -- FM and NTSC (analog) TV F(50,10) Interfering Contour F(50,90) Digital TV Service Contour</div>
Select Channel Range: (not TV Virtual Channel)	<div>FM Radio or TV Transmit Channels 2-6 TV Transmit Channels 7-13 TV Transmit Channels 14-69</div>
Find This:	<div>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 Contour]</div>
ERP (kW) 0.045	
HAAT (meters) 47	
FIELD 131.6 dBu	
<div>Clear Form</div>	

Results:

Calculated Distance = **0.012 km**

Free Space equation used to compute distance.

FIGURE 4

CH 6 & CANADIAN PROTECTIONS

SECTION 74.1205 REQUIRES TRANSLATOR APPLICANTS ON CH 201 TO DEMONSTRATE COMPLIANCE TO ALL CH 6 FULL SERVICE STATIONS WITHIN 148 KILOMETERS. THERE ARE NO CH 6 FACILITIES WITHIN 148 KILOMETERS OF THE PROPOSED SITE. THE CLOSEST CH 6 IS WNDR-LP, AUBURN, NY AT A DISTANCE OF 179.5. THE CLOSEST CANADIAN CH 6 IS CJOH-TV DESERONTO, ON AT A DISTANCE OF 192.7 KM DISTANT.

THE CH 6 INTERFERING CONTOUR FOR CH 201 IS THE 54 DBU CONTOUR. INSPECTION OF FIGURE 2 SHOWS THAT THE PROPOSED 54 DBU F(50,10) CONTOUR LIES ENTIRELY WITHIN U.S. LAND AREA AND THUS NO IMPERMISSIBLE INTERFERENCE IN CANADA CAN EXIST.

THE CLOSEST CANADIAN FM STATION PROTECTION IS TO CKLN(FM) IN TORONTO, ON CH 201 93.0 KILOMETERS DISTANT. THE PROPOSED SIGNAL IS 22 DB BELOW THE ALLOWABLE VALUE.

ENVIRONMENTAL ANALYSIS

THE SITE AND INFRASTRUCTURE ARE EXISTING

THE PROPOSED ANTENNA SYSTEM CONSISTS OF A PSI SINGLE BAY, CIRCULARLY POLARIZED FM ANTENNA WITH A RADIATION CENTER 37.2 METERS ABOVE GROUND. UTILIZING FORMULA 10 OF OET BULLETIN NO. 65, EDITION 97-01, A WORST CASE VALUE F OF 1.0 HAS BEEN USED TO CALCULATE THE POWER DENSITY 2 METERS ABOVE GROUND. THE MAXIMUM CALCULATED POWER DENSITY IS 2.4 UW/CM SQUARED FOR AN ERP OF 45 WATTS V. AND 45 WATTS H. POLARIZATION. THIS VALUE IS 1.2 % OF THE ALLOWABLE 200 UW/CM SQUARED POWER DENSITY FOR UNCONTROLLED ENVIRONMENTS. BASED ON THIS ANALYSIS IT IS BELIEVED THAT THE PROPOSED FACILITY IS IN COMPLIANCE WITH OET-65 GUIDELINES.

THE APPLICANT WILL REDUCE POWER, OR CEASE, TRANSMISSION AS REQUIRED TO MEET FCC OET-65 GUIDELINES FOR WORKER EXPOSURE.