

CDO BROADCASTING, INC.
New FM Translator
Norwich, NY
CH222FT, 92.3 MHz, 0.25 kW H & V, -96 m AAT

ENGINEERING STATEMENT

This engineering statement, with attached exhibits, was prepared on behalf of CDO Broadcasting, licensee of WCDO (1490 kHz), Sidney, NY (FCC ID #9685; File #BL-19820520AB), in support of an application for an FM translator on channel 222 with power of 0.25 kW from a circularly polarized antenna. The proposed translator, to rebroadcast WCDO, has been assigned file number BNPFT-20170726ABR (ID#200890).

The proposed supporting mast shall be 25m (82') above ground level and the translator antenna radiation centre shall be 23m (77') above ground level.

This translator is a fill-in facility and the 60 dBu contour is well within the 40 km (25 mi) radius from the WCDO tower.

ENVIRONMENTAL CONSIDERATIONS

This was addressed in FCC Docket # 93-62, released August 1, 1996. Table 1(B) on Page 67 of the document depicts the ANSI/IEEE C95.1-1992 (IEEE C95.1-1991) protection requirements. The maximum permissible exposure for uncontrolled environments in the 30 to 300 MHz spectrum is a power density of 0.2 milliwatts per centimeter squared (mw/cm²).

Since the applicant will employ a Shively 6812C-3 three-bay half wave spaced circularly polarized antenna, the vertical elevation pattern of that antenna has been used in determining the effective radiated power below the horizon toward all areas 2 meters above the roof level. For the uncontrolled environment in the commercial FM spectrum 2 meters above the roof level, the power density will be 0.0042 mw/cm², or 2.1 % of the allowed 0.2 mw/cm².

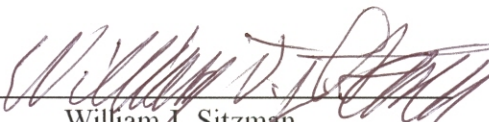
Should any maintenance worker require access to the structure, the applicant will either reduce power or cease operation until workers are no longer on the roof. Appropriate RF warning signs will be in place and it may be assumed that there will be no significant effect on the human environment with regard to exposure of the general public.

ATTACHED EXHIBITS

Figure 1 is an allocation map showing protection to pertinent FM facilities and also shows the proposed 60dBu contour is well within the 40 km (25 mi) radius from the WCDO tower.

Figure 2 is a tabulation of allocation data for the translator and all studied FM facilities.

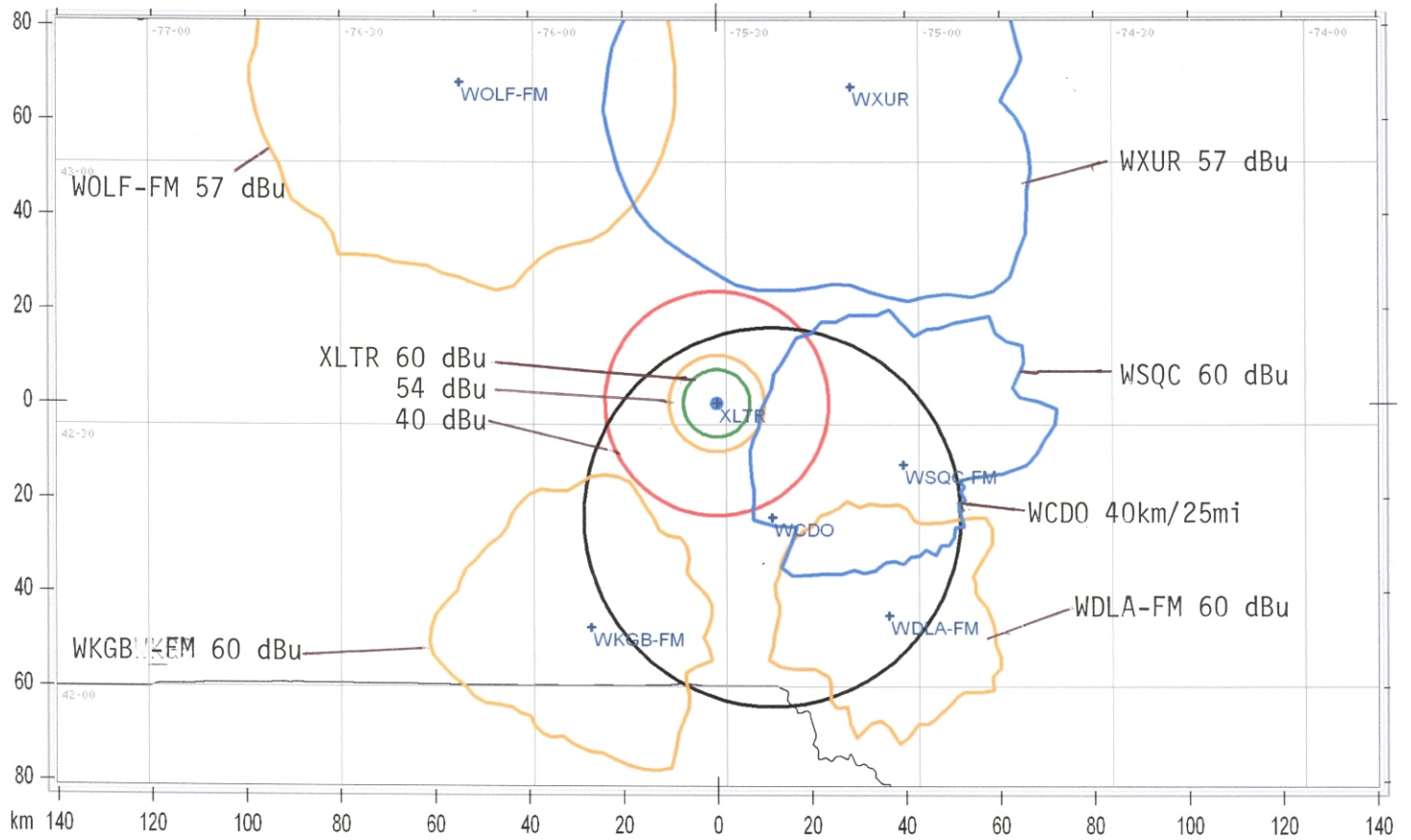
November 21, 2017



William J. Sitzman
Consulting Radio Engineer

FIGURE 1

WCDO Translator CH222FT Allocation Map



WCDO Translator Allocation Data

Callsign : XLTR
 Coordinates : 42-32-28.0 N, 75-31-33.0 W
 Frequency (MHz): 92.30000
 HAAT (m): -96.39 AMSL (m): 349.00
 Elevation (m): 324.00 Tower AGL (m): 25.00
 ERP (w): 250
 TX power (w): 0 Gain (dB): 0.00
 City/State : NORWICH, NY
 ARN :
 Distance (km): 0
 Licensee :

Callsign : WDLA-FM
 Coordinates : 42-08-10.0 N, 75-04-48.0 W
 Comments : Accepted by Canada on 931004; Date Imported: 2017-07-12
 Frequency (MHz): 92.10000
 HAAT (m): 136.77 AMSL (m): 754.00
 Elevation (m): 699.00 Tower AGL (m): 55.00
 ERP (w): 690
 TX power (w): 1 Gain (dB): 0.00
 City/State : WALTON, NY
 ARN :
 Distance (km): 58
 Licensee : TOWNSQUARE MEDIA ONEONTA LICENSE, LLC

Callsign : WKGB-FM
 Coordinates : 42-06-48.0 N, 75-51-09.0 W
 Comments : Date Imported: 2017-07-12
 Frequency (MHz): 92.50000
 HAAT (m): 140.23 AMSL (m): 586.00
 Elevation (m): 436.00 Tower AGL (m): 150.00
 ERP (w): 1450
 TX power (w): 1 Gain (dB): 0.00
 City/State : CONKLIN, NY
 ARN :
 Distance (km): 54
 Licensee : CC LICENSES, LLC

Callsign : WOLF-FM
 Coordinates : 43-09-10.0 N, 76-11-35.0 W
 Comments : *73.215* ; Date Imported: 2017-07-12
 Frequency (MHz): 92.10000
 HAAT (m): 84.06 AMSL (m): 227.00
 Elevation (m): 114.00 Tower AGL (m): 113.00
 ERP (w): 25000
 TX power (w): 25 Gain (dB): 0.00
 City/State : BALDWINVILLE, NY
 ARN :
 Distance (km): 87
 Licensee : FAMILY LIFE MINISTRIES, INC.

Callsign : WSQC-FM
 Coordinates : 42-25-27.0 N, 75-02-33.0 W
 Comments : Accepted by Canada as B1 900821; Date Imported: 2017-07-12
 Frequency (MHz): 91.70000
 HAAT (m): 120.39 AMSL (m): 661.00
 Elevation (m): 613.00 Tower AGL (m): 48.00
 ERP (w): 2300
 TX power (w): 2 Gain (dB): 0.00
 City/State : ONEONTA, NY
 ARN :
 Distance (km): 41
 Licensee : WSKG PUBLIC TELECOMMUNICATIONS COUNCIL

Callsign : WXUR
 Coordinates : 43-08-38.0 N, 75-10-40.0 W
 Comments : Date Imported: 2017-07-12
 Frequency (MHz): 92.70000
 HAAT (m): 150.57 AMSL (m): 446.00
 Elevation (m): 368.00 Tower AGL (m): 78.00
 ERP (w): 6400
 TX power (w): 6 Gain (dB): 0.00
 City/State : HERKIMER, NY
 ARN :
 Distance (km): 72
 Licensee : ARJUNA BROADCASTING CORPORATION.