

ENGINEERING STATEMENT
WOLF Radio, Inc.
September, 2013

WWLF-FM, Ch. 244A, is licensed to Oswego, NY and its tower was destroyed in a windstorm in January, 2012. It was determined that rebuilding a self-supporting structure within its 25 ft. x 40 ft. parcel was not in the best interest of future safety to surrounding buildings and areas of access by neighboring property owners. A new parcel of land was purchased approximately 800 feet to the South which would allow for installation of a guyed tower within the boundaries of the new parcel.

Due to the close proximity to Lake Ontario, two of the eight radials at the proposed site are truncated to a distance shorter than 16 kilometers which is the same as with the licensed site.

Figure 1 shows the 50 uv/m (34dBu) (50,10) proposed contour whereby both the 270 and 315 Degree radials extend over a large body of water toward foreign territory. Therefore as per Section 73.313(d)(2) of the Commission's Rules, these radials only include elevation points to the point where the U.S. land mass meets Lake Ontario.

Figure 2 is an expanded view to the northwest showing that the 34 dBu contour would not extend beyond that of the licensed 34 dBu contour so as to avoid Canadian referral or concurrence.

Figures 3 and 4 are profile graphs to provide an accurate distance to Lake Ontario for the endpoints of the 270 and 315 Degree True radials.

Figure 5 lists the elevation points using the NGDC 30 second database from 3.0 km to the endpoint to determine the average terrain of each truncated radial.

The average terrain for the proposed site is as follows:

Azimuth (degrees True)	Average Elevation (m.)	End Distance of Radial (km.)	HAAT (m.)
0	74.2	16.0	104.6
45	75.5	16.0	95.7
90	111.5	16.0	76.3
135	129.4	16.0	58.4
180	129.1	16.0	58.7
225	118.5	16.0	69.3
270*	90.8	7.7	97.0
315*	84.1	4.7	103.7

Average of Radials: 101.7 m. Average HAAT: 86.2 m.

*truncated radials from 3.0 km to specified end (all others 3.0 – 16.0 km.)

Figure 6 shows the relationship between the licensed and proposed sites and also shows the base elevation at the site which is 430 ft. (131.1 m.) above sea level.

It has been determined that at the proposed height above average terrain of 83 m., and as a short-spaced station under Section 73.213(c), WWLF-FM would be permitted a maximum ERP of 3.4 kW so as to comply with the spacing requirements as well as complying with the maximum ERP for its given HAAT.

Figure 7 depicts the proposed 70 and 60 dBu (50,50) contours and shows that the 70 dBu contour encompasses Oswego, NY, the community of license.

Figure 8 demonstrates that the proposed site meets the minimum spacing requirements under 73.213(c) with respect to first adjacent stations: WCMF-FM, ch. 243B, Rochester, NY and WOUR, ch. 245B, Utica, NY. No other FM channels or spacing requirements are pertinent for the proposed minimal relocation of the site.