

Brett Buggeln  
Tarpon Towers II, LLC  
1001 3rd Ave west, Suite #420  
Bradenton, FL 34205

March 3, 2020

**RE: NOISE LETTER  
TARPON TOWERS AND VERIZON WIRELESS PROPOSED TELECOMMUNICATION FACILITY  
SITE ID: NY1136 – CASTLE POINT  
110 CHELSEA ROAD, WAPPINGER, NY 12590  
TECTONIC W.O.: 9684.06**

Dear Mr. Buggeln:

Tectonic Engineering was asked to provide a noise analysis/comparison letter for the proposed Verizon Wireless emergency backup power generator that is part of the above referenced project. We obtained noise specifications from the manufacturer Kohler for their proposed standard 30kW outdoor propane fueled AC generator including a sound-attenuating enclosure. The average sound pressure level for the generator is 57.0 dBA at a reference distance of 23.0 feet.

We understand that consistent with normal Verizon Wireless procedure, absent exigent circumstances, the generator is expected to run once a week during daytime hours for approximately 45 minutes for routine testing purposes.

Sound attenuation for a point source (stationary source) equals a sound level reduction of 6 dBA per doubling of distance between a noise source and a receptor when there are no obstructions present between the two elements. Using this information we can deduce the following noise levels that one would anticipate when the equipment is in use:

- The nearest property line to the generator is located approximately 510-feet away to the west; the anticipated noise level at this point would be approximately 31.0 dBA.
- The nearest residence to the generator is located approximately 550-feet away to the west; the anticipated noise level at this point would be approximately 30.4 dBA.

For comparison purposes, approximate decibel levels for normal conversation equal 60 dBA, for vehicular traffic equal 85 dBA, and for a running lawnmower equal 107 dBA. Based on the calculated values for the equipment, the anticipated noise levels will be much lower than that experienced for normal conversation.

### Project Contact Info

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However, the calculated values above are for circumstances where there are no obstructions between the noise source and a receptor. The existing conditions at this site feature a wooded area for the entire distance between the equipment and the nearest property line and residence. This vegetation will further reduce the sounds levels, making the equipment nearly inaudible at the nearest receptors.

Should you have any questions, please do not hesitate to contact the undersigned at (518) 783-1630.

Sincerely,

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.



Steven M. Matthews, PE  
Manager of Engineering