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Noise Evaluation Report

Verizon Wireless
Bridgeport SW CRAN CT
623 Pine Street
Bridgeport, CT

October 17, 2017

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Introduction

Verizon is planning to install an 80 kw emergency back-up generator (in an acoustical enclosure), and four (4) HVAC units at 623 Pine Street, Bridgeport, CT. The generator and the HVAC units will be located on the roof of the subject building.

The Noise Zone Emitter and the Noise Zone Receptors located in the surrounding parcels are all zoned Industrial. The surrounding streets are Pine Street (North); Andover Street (South); Peerless Place (East); and Fairfield Avenue (W). The CT Tpke is nearby to the North.

On August 19, 2017, I visited the area in order to perform an acoustical evaluation. The average background noise level was 55-60 dBA. The major source of noise was vehicular traffic. This report and the State of CT Noise Regulations utilize a dBA scale. This scale is used because it closely approximates the response characteristic of the human ear to loudness, and is the scale most commonly used in the measurement of community noise. The purpose of this evaluation is to determine whether the generator and HVAC units will comply with the noise regulations.

It is important to note that the emergency generator operates for approximately 15-20 minutes every other week for testing. All testing is done during the daytime hours. Other than these testing periods, the generator runs only in times of emergency, when commercial power to the facility is interrupted.

Noise Regulations

The State of CT has enacted regulations which limit the amount of noise which may be transferred from one property to another. In pertinent part, the Regulations provide as follows:

Daytime hours - The hours between 7 a.m. and 10 p.m., local time

Nighttime hours - The hours between 10 p.m. and 7 a.m., local time.

(Sec. 22a-69-1.1(h&n)).

Exemptions -

“Noise created as a result of, or relating to, an emergency.”

(Sec. 22a-69-1.8(f)).

Noise Zone Standards -

No person in a Class “C” Noise Zone (Industrial) shall emit noise exceeding the levels stated herein and applicable to adjacent Noise Zones. The allowable noise level from a Class “C” Noise Zone Emitter to a Class “C” Noise Zone Receptor is 70 dBA.

(Sec. 22a-d69-3.5(a)).

The noise level from the proposed generator and 4 HVAC units operating simultaneously, and projected to the nearest abutter premises are shown in TABLE 1.

TABLE 1

The Calculated dBA Noise Levels From The Proposed Generator
And 4 HVAC Units Operating Simultaneously Have Been
Projected To The Nearest Noise Receptor Abutters

Abutter	Industrial
North	57
South	65
East	66
West	62

Noise Evaluation Results

The dBA scale takes into account the effect of acoustical shielding provided by other structures on the premises. The calculated noise data demonstrates that the noise levels, from the proposed emergency generator and the HVAC units running simultaneously, meet the conditions for compliance as set forth in the noise regulations when projected to the Industrial Noise Zone Abutters.