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The Waterside Power Facility is based on three GE TM2500 turbine/generator packages. The site equipment is already well mitigated compared to other TM2500 installations. The equipment layout relative to the community shown in Figure 1 takes advantage of the site terrain by placing the turbines in the area that is not only more distant from the residences, but also at a lower elevation. In this way, the berm and screening wall provide substantial shielding of plant sound at the residences. Stack tip silencers and horizontal baffle exhaust silencers provide significant reductions of stack noise. Many sources are enclosed in soft shelters and skirting is installed to reduce the sound that is emitted from the underside of the turbine trailer. With these features, the facility meets the daytime noise requirements of the Stamford regulations.

Waterside Power is proposing some minor site plan modifications. These include (i) expanded coverage of the temporary shelters over sections of the generating packages, and (ii) the fuel system will be revised, replacing the five horizontal liquid fuel storage tanks in the center of the site with two vertical storage tanks in the southwest corner of the site. None of these changes are expected to significantly alter the sound emissions from the facility.

Nevertheless, Waterside has conducted additional analyses of the new site arrangement to confirm sound levels at the most sensitive receptors and evaluate compliance with City of Stamford nighttime noise standards. Since the nighttime requirements only apply to residential receptors, this study addresses the sound at the residences along Amelia Place.

Field Measurements Conducted

Several sets of noise measurements were made of the facility. Interestingly, it was concluded that direct measurement of the plant sound is no longer possible in the community because the plant sound levels are already so low as to be simply among ambient sources of sound. During full operation, the sound from existing ambient

sources can easily be heard over the sound of the facility. Those sources include train passages, airplanes, bus and vehicle traffic on local roads and vehicles in the USPS parking lot to the west. Even the sound of birds can be distinguished in the park during the plant operation. Yet the plant sound can be generally distinguished at Amelia Place receptors. On-site measurements and additional modeling indicated that the turbine and stack body were the dominant remaining source.

As a result, Waterside proposes to further mitigate noise impacts by installing a sound barrier wall system similar to those found on many local highways. To assure the effectiveness of the proposed noise barriers, a test procedure was developed using a temporary version of the proposed permanent barrier wall. Measurements were made by operating the facility with a temporary noise barrier in place for one of the units. Figure 2 shows a concept view of the noise barrier wall. Figure 3 shows the measured levels with all three units operating. Another set of measurements were made while only the treated unit was operating are shown in Figure 4. The results were then scaled to simulate the same feature at all three units.

Conclusions

The results of the study show that with the sound barrier walls in place, the operating sound levels from the Waterside facility will be less than ambient noise levels along Amelia Place. The study also demonstrates that the plant will meet all City of Stamford noise regulations including the nighttime criteria.

ATCO Noise Management

A handwritten signature in black ink that reads "Douglas L. Sheadel". The signature is written in a cursive, flowing style.

Douglas L. Sheadel, CCM
Senior Acoustician

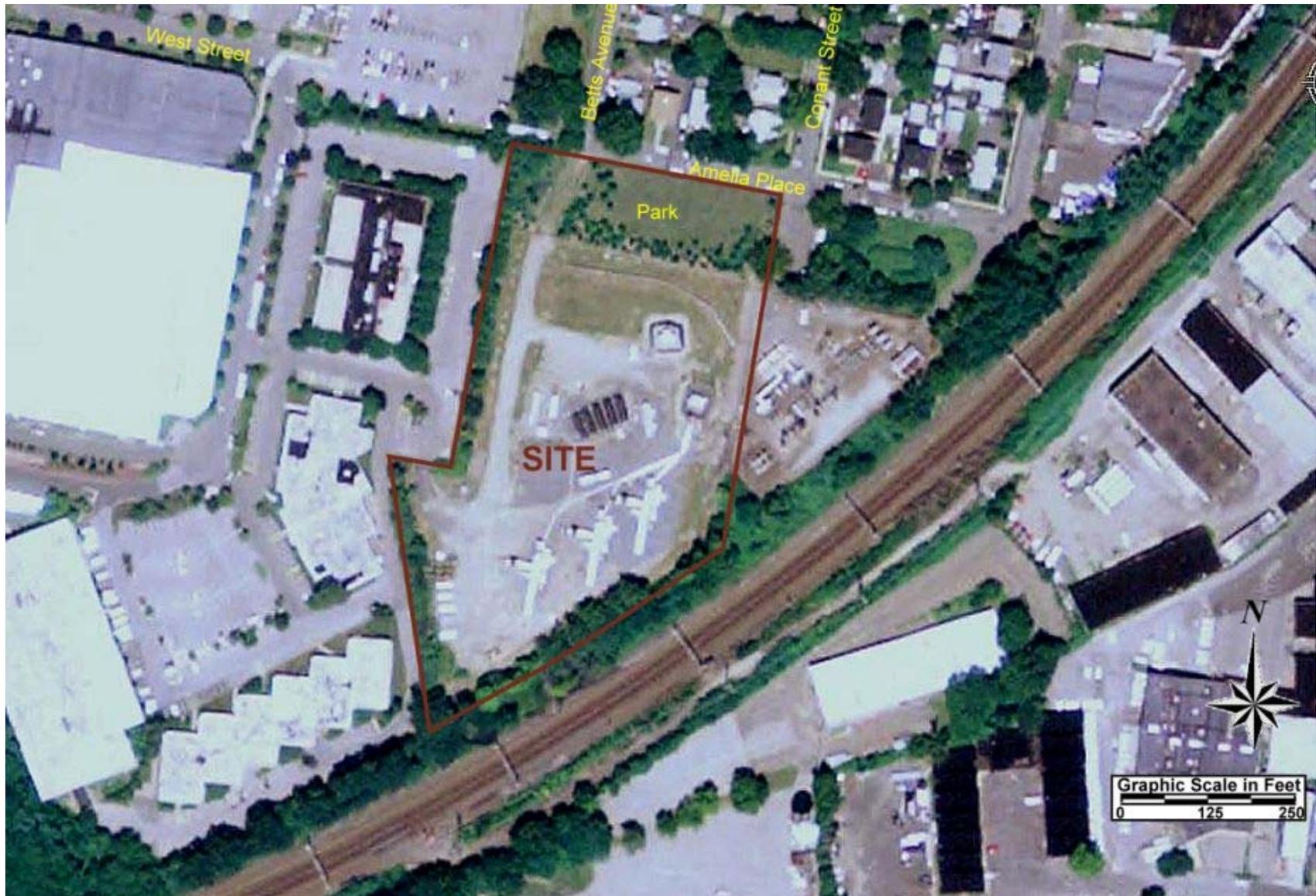


Figure 1: An Aerial Orientation to the Site and Neighboring Community



Figure 2: Annotated Field Image of Unit 1 with the Supplemental Silencer, Soft Enclosures and Noise Wall



Figure 3: Site Plan Showing the Measured Levels with Three Units Operating



Figure 4: Site Plan Showing the Measured Levels with only Unit 1 Operating.