Transformer Noise – Case Study

A power company contacted Unger Technologies regarding noise complaints from a residential area close to the company's transformer station. The customer attempted to erect a "plywood barrier" to help "stop" the noise. This was met with very little success.

Unger Technologies was then hired to conduct a Sound Survey and Acoustic Feasibility Study. Unger performed this study in the field during different operating power loads. We conducting property line readings and compared those readings to any local noise ordinances. Our engineering conclusion and recommendation was for the erection of a modular acoustic steel sound barrier wall. Unger designed the height, width, and position to give the optimum sound reduction. Below is a picture of the transformer before the sound wall:

Transformer station near residential house before

The next picture is a photograph of our recommended acoustic steel sound wall after installation.

Engineered sound control wall installed

Unger Technologies confirmed sound readings after installation of the acoustic steel sound wall that our acoustic goals had been meet. Transformer noise can be low frequency tonal in nature and we do recommend hiring an Acoustic Engineer such as Unger Technologies to assist in the design of your noise abatement.

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