



THE CHALLENGE

A household-name company built a new regional call & data center in southeast Florida. As required by FERC, the Customer installed a large bank of emergency power gensets which were routinely run and tested.

Although these natural gas powered generators were contained inside a CUP building, their exterior exhausts emitted noise levels in the 90 dBA range. The local noise ordinances required maximum noise levels 65dBA at the property line.

Their objectives were four-fold:

- I. Install a combination of sound-absorptive products engineered for the extreme wind loads of SE Florida
- II. Install a combination of sound-absorptive products to meet the noise ordinance mandates.
- III. Install a combination of sound-absorptive products with the high acoustic performance necessary to mitigate the target frequencies emanating from their gensets
- IV. Install a combination of sound-absorptive products that would be visually pleasing to the local community.

SonaGuard® Barrier System



RetroSorb® NRC Panel System

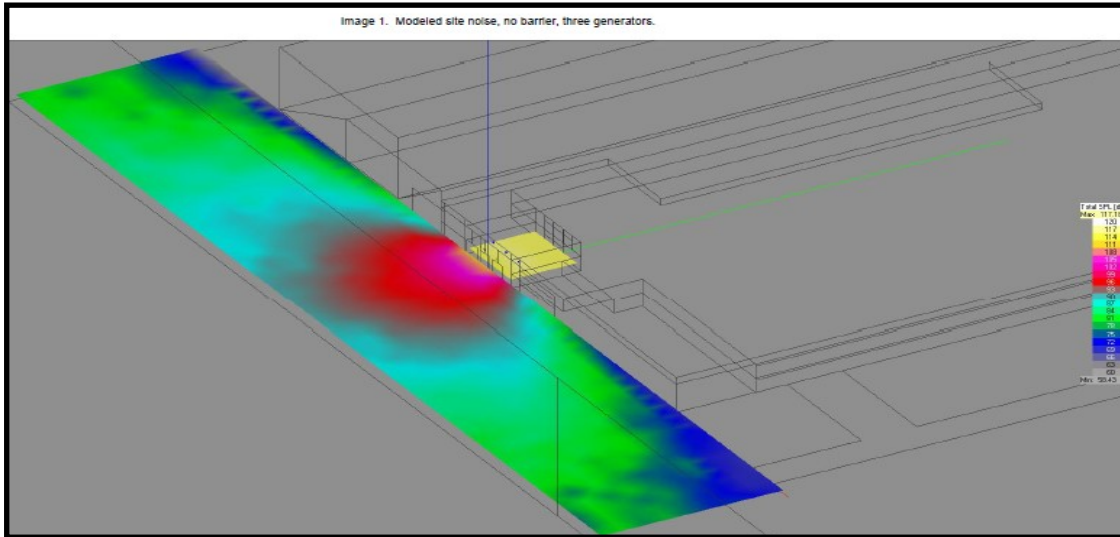


THE SOLUTION

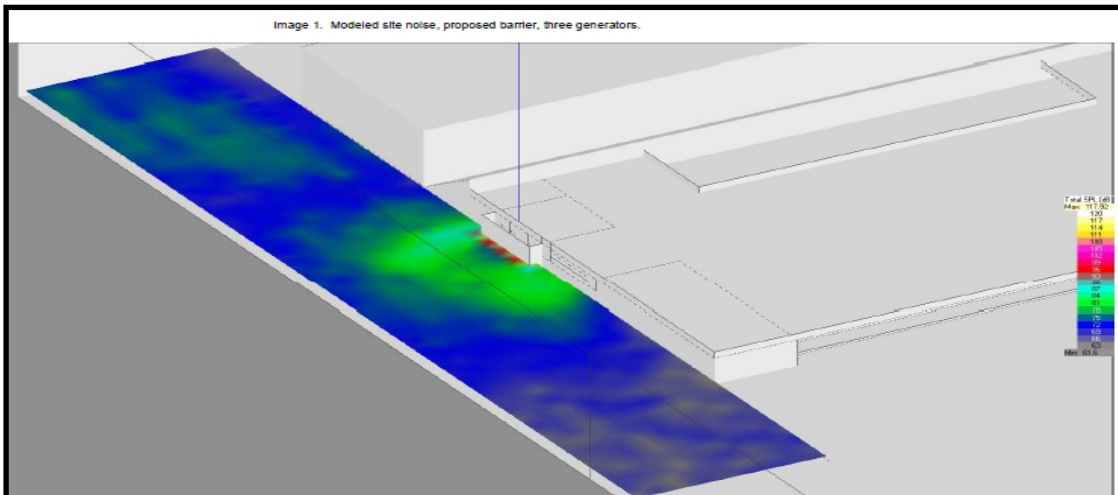
Under the guidance of their Acoustical Engineer, the Customer decided to use a combination of Sound Fighter® Systems' (SFS) [SonaGuard®](#) sound-absorptive noise barrier system and [RetroSorb®](#) sound-absorbing panels. In summary, the maximum noise measured at the property line was 89 dBA. The post-treatment noise reduction is just over 33 dBA, resulting in a predicted noise level of 56 dBA.

In addition to the value-engineered, extreme wind-load acoustical products provided by Sound Fighter® Systems, their team was also instrumental in the use of helical steel piers instead of traditional concrete piers, due to very poor soil conditions at the site.

WITHOUT SFS TREATMENTS



WITH SFS TREATMENTS



OWNER — Fortune 100 Company, Southeast Florida

PRODUCTS — Sound Fighter® Systems' **SonaGuard®** Sound-Absorptive Noise Barrier and **RetroSorb®** Sound-Absorptive Panels

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