



a clear direction for the future



case study

## Cat Cay Power Plant Cat Cay, Bimini Islands, Bahamas

### Overview

Cat Cay is a private Island in the Bimini chain of the Bahamas, known for its spectacular deep-sea fishing. Although it is a small private island, Cat Cay has an airstrip, 82-slip marina, 9-hole golf course, a small store with diesel and gas available, and other commercial and residential entities. Cat Cay's power plant is a critical component of its success and livelihood. Nevertheless, peace and quiet also play a significant role for the small island getaway.

### Challenge

With the facility generating a great deal of power in such a small area, the Cat Cay power plant required a tremendously effective sound attenuation solution. The existing silencers—products of GT's competitors—provided sub par sound attenuation, and there was no way to “upgrade” them to meet satisfactory sound requirements.

Furthermore, the plant's close proximity to the ocean created potential problems for corrosion and other salt-related issues. So, not only did a solution need to vastly reduce sound from the plant's engines, but the situation also required products with considerable durability.

### Solution

GT Exhaust worked with its local channel partner, Dennis Nesloney of PowerTherm Company, to find a solution that would exceed the expectations of Cat Cay and its residents. The existing silencers were replaced with three Super Critical Grade silencers from GT Exhaust. Two 201-6112-2 silencers were used for Caterpillar 3508 engines. An additional silencer, the 201-6114-2 model, was fitted for a Caterpillar 3512 engine. All three silencers were flame-sprayed with a special aluminum coating to withstand the salt-laden atmosphere.



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