



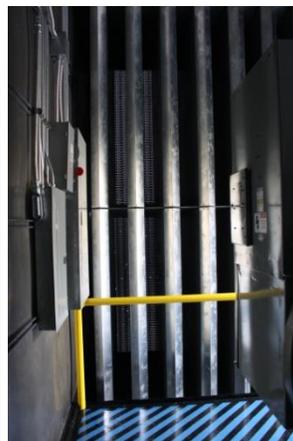
## Design by Initiative LLC, Product News – April 2012

Designbyinitiative.com  
404-996-1282

Well we are in our new facility and building enclosures and performing modifications to “factory” units, as well as some custom fabrication!



In this photo is the first 3000kWe genset to be delivered in the state of Georgia! It is 43' long x 12' wide and nearly 14' tall. Our scope called for an attenuation level of <math><86\text{ dB(A)}</math> at 1 meter. The 8 hour witness test proved we had not only met that, but beat it! With the noisiest side (just under the exhaust side outlet) reading 84 dB(A) at 1m and the side shown reading 73 dB(A) at 1m!



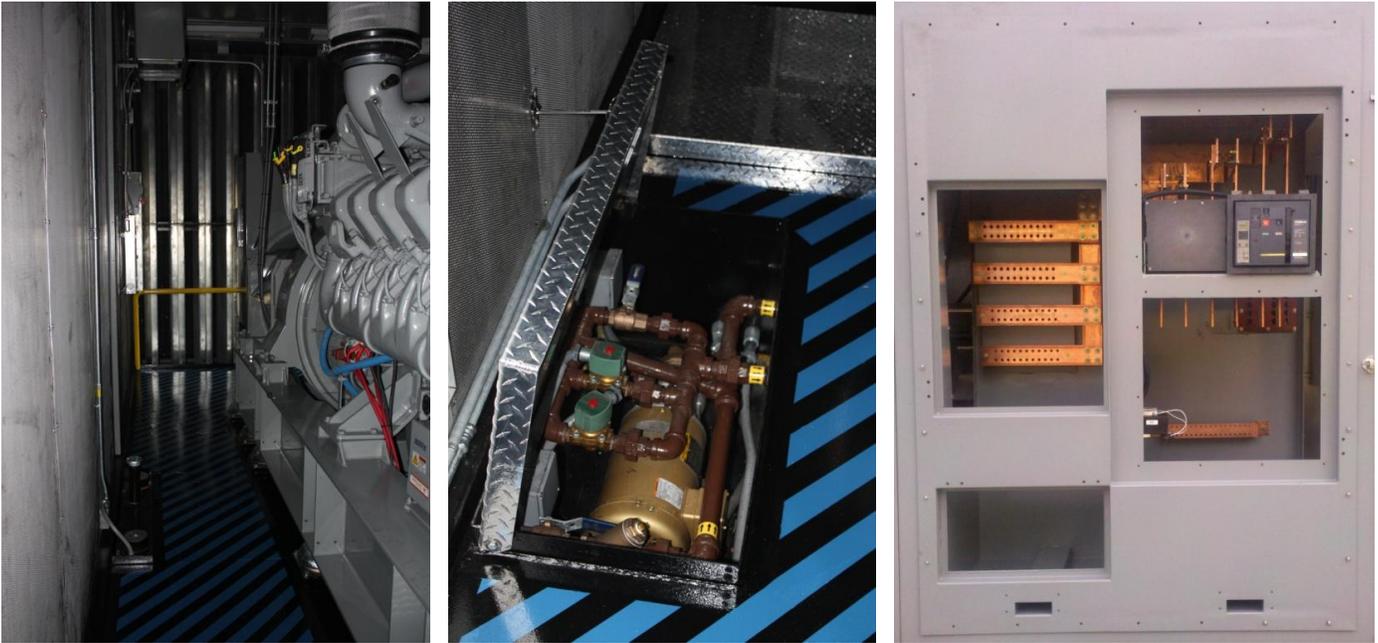
This very unique application also called for a 250 gallon day tank and a 5000A circuit breaker on the system's load side.

The advantages of dB(i)'s Advanced Splitter Technology to meet the critical sound target formed the backbone of this comparatively small footprint / high air volume challenge.

We also applied Fuelogic's state-of-the-art fuel control systems which included a custom built dual supply pump cabinet (remotely located). The Fuelogic control system tied in the supply pumps such that a failure of one supply pump starts the standby pump automatically and controls the return pump (recessed into the skid base) and provides pertinent data to genset controls. The system utilizes adjustable float switches for fine tuning fluid level controls to precise settings and can accommodate an unlimited amount of gen sets to request and receive fuel from the supply pumps which in this case supply a custom 250 gallon UL142 day tank set into the structural skid below decks.

**dB(i)** designed and built a custom cabinet integrated into the side of the enclosure for a 5000A breaker to include all buss for connection of a load bank. In addition this configuration allows the customer to easily connect a temporary generator (and safely work on the installed generator) in the unlikely event one is required. The cabinet incorporates suitable access doors fitted with lock out tag out capable hardware providing for a safe solution. A challenge in this case was to minimize the switch-gear cabinet depth so not to create an obstruction to a very high airflow. The cabinet also included acoustic treatment to maintain noise integrity. Test results including velocity mapping which demonstrated a positive outcome for all considerations, right where we need it to be and you deserve it to be. (Image below shown prior to cabling)

The breaker cabinet bus work is "stadium stepped" to improve cable positioning and improve safety. The cabinet itself includes fork pockets, should it ever need removal.



Other features include elastomeric isolators to provide >95% isolation and a lower profile than that of spring isolators. Personnel areas of the floor include dB(i)'s hall mark of "non-slip" safety striping providing for an appealing highly visible walk area - a permanent and gentle reminder for the occupant that safety needs to be at the forefront of all we do. The recessed return pump and battery boxes include polished aluminum diamond plate covers which are hinged and include hold backs. The fully seal welded floor perimeter and penetrations include "up stands" so that the entire floor act as a fluid retention area. And yes we tested even this capability!

We are also proud of the custom inclusion of the end user's logo and color into the package. **Attention to detail is our mission and your safeguard.**



Please contact us for any further info and to explore ways that we can help you win business!!!