



D&B ENGINEERS AND ARCHITECTS, P.C.

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Emergency and Standby Generator Systems

SERVICES INCLUDE:

Diesel, Natural Gas and Propane Generator Sets

Portable Trailer-Mounted Generator Sets

*Indoor, Outdoor Skin-Tight Enclosures,
Outdoor Walk-In Enclosures*

Sound Attenuation

Fuel Storage and Transfer Systems

Automatic Transfer Switches and Switchgear

Load Shedding

Concrete Foundations and Site work

Fire Marshal Compliance, Submission and Permitting



Superstorm Sandy reinforced the critical nature of the supply of power to facilities. Important entities, such as municipal offices, gas stations, supermarkets, water supply and sewage treatment facilities rely on power to be functional. The loss of utility power without a reliable backup generator system can cause normally available services to be taken for granted and be lost for long periods of time.

D&B Engineers and Architects (D&B) has extensive experience in design and construction management for emergency and standby generator systems. D&B has designed numerous generator systems ranging from 15kw to 1.5MW. In addition to a staff of electrical engineers, D&B has mechanical, structural and civil engineers experienced with fuel storage and pumping systems, concrete foundations, and site work. D&B also routinely prepares generator set submittal drawings for Fire Marshal review and approval.

In Superstorm Sandy's aftermath, D&B provided emergency assistance to clients for restoring power to their facilities. Our effort included field coordination of delivery and connection of portable generator sets, work orders for the repair of existing generator sets, procurement specifications for the purchase of new generator sets, and coordination of diesel fuel deliveries.

D&B understands that each generator set installation is unique and evaluates each of the following for a generator set installation:

- Generator set kW capacity and alternator requirements

- Generator set location, which includes facilitating installation with respect to integration with electrical system
- Generator set elevation with respect to flooding.
- Fuel type – diesel, natural gas, liquid propane, dual fuel
- Fuel tank alternatives for diesel generators – above grade, below grade or sub-base
- Fuel tank capacity for diesel generator to provide continuous operation
- Outdoor generators – enclosure type, including sound attenuation

During the design phase, D&B also provides the following services:

- Natural gas generators – utility coordination for gas service, including pressure requirements
- Diesel generators – fuel leak and level monitoring system
- Automatic transfer switch and electrical distribution design to integrate the generator into the electrical system
- Permitting
- Preparation of Fire Marshal submittal drawings
- Construction cost estimates

Construction management services provided by D&B for generator set installations include:

- Review of shop drawing submittals
- Construction inspection
- Shop witness testing of generator sets
- On-site load bank testing
- O&M manual review
- Automatic transfer switch setup

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