



FLORHAM PARK CONSTRUCTION DEPARTMENT
111 RIDGEDALE AVENUE
FLORHAM PARK, NJ 07932
973-410-5346 (FAX) 973-410-5490

GENERATOR INSTALLATION REQUIREMENTS:

IN EXISTING 1 & 2 FAMILY DWELLINGS:

1. Completed Construction Permit Application
2. Completed Zoning Application
3. Copy of Survey including Title block with the location of the generator indicating the distance to the property line & structure
4. Completed, Signed & sealed, Electrical & Mechanical Subcode Forms (A Building Subcode is also required if pouring a concrete pad)
5. Electric Riser Diagram and Load Calculations
6. Specifications of the equipment
7. Gas riser diagram

FOR ALL NEW CONSTRUCTION and ADDITIONS:

1. Items 1-3 above **and**
2. Completed, Signed & sealed, Electrical, Plumbing and Fire Subcode Forms
3. (A Building Subcode is also required if pouring a concrete pad)
4. Specifications of the equipment



Florham Park Construction Office
Phone 973-410-5346 Fax 973-410-5490

Kevin Guilfoyle, Construction Official
KGuilfoyle@fpboro.net or 973-410-5352
Janet Doherty (JDoherty@fpboro.net) is the Technical Assistant to the Construction Official
and Florham Park Zoning Official (973-410-5346)

Permit applications accepted daily from 9:00 am to 4:00 pm.
Please email all inspection requests to klinden@fpboro.net and jdoherty@fpboro.net
Inspection requests require the following information:

- 1) Permit number
- 2) Type of inspection requested (Building, Electrical, Plumbing, Fire)
- 3) Day of the requested inspection.
- 4) Telephone number for contact purposes if your request cannot be accommodated

Minimum of 24 hour notice for all inspection requests, ALL TIMES ARE APPROXIMATE:

Building inspections are M- Friday 8:00 am to 4 pm

Fire inspections are M-T-W-TH 1pm-4:30pm and Fri- 9am -3 pm

Electrical inspections are Monday thru Friday, 11:00 am to 3 pm.

Plumbing/Mechanical inspections are Monday thru Friday, 11:00 am to 4:00 pm.

Please be aware that due to the volume of Construction jobs, we cannot give exact times for these inspections.

Contractors MUST INSTALL 6 ft. chain link fence, per Ordinance NO. 13-15 around perimeter of excavation site prior to any work. Do NOT remove fence until Construction Official grants approval of removal.

Required inspections pursuant to N.J.A.C. 5:23-2.18 for all *new* buildings, additions, renovation, alterations:

- 1) Footing inspection-bottom of the trench **PRIOR** to pouring of concrete (**MUST** provide soil compaction report at inspection)
- 2) Foundation inspection **PRIOR** to the placement of backfill.
 - 2 a) Foundation Location Survey **REQUIRED** for new construction **PRIOR** to framing
- 3) Slab inspection **PRIOR** to placement of concrete
- 4) Electrical rough wiring
- 5) Plumbing rough installations
- 6) Fire Rough inspection
- 7) Framing inspections **AFTER** rough electric/plumbing/Fire passed-**PRIOR** to insulation
- 8) Insulation inspection **PRIOR** to sheetrock
- 9) Final electric, final plumbing, final fire inspections
- 10) Final building inspections
- 11) No Certificates of Occupancy shall be issued **PRIOR** to submittal & Approval of Final As Built Survey and final surface grading inspection approvals by Borough Engineer M. Sgaramella (973-410-5473 or K. Kaplan x5334) & Morris County Soil District, Sheila Hall (973-285-2953).

Failure to comply with the above required inspections as indicated in N.J.A.C. 5:23-2.18 will result in administrative penalties of not more than \$2000.00 as permitted in N.J.A.C. 5:23-2.3 1b



AC Replacement and Generator Zoning Application

Block _____ Lot _____ Zone _____

Work site Address _____

Property Owner _____

Address of Owner _____

Telephone # _____

Existing Use _____ Proposed Use _____

Brief Description of Work _____

I hereby certify that the proposed work is authorized by the owner of record and that I have been authorized by the Owner to make this application as his/her agent and we agree to conform to all applicable laws of this jurisdiction.

Signature _____ Contact # _____

My lot is on a corner parcel _____ My lot is an interior parcel _____

Existing setbacks: Front yard _____ Smallest Side Yard _____ Rear Yard _____

Second front yard _____ Aggregate of Side Yards _____

Proposed setbacks: Front yard _____ Smallest Side Yard _____ Rear Yard _____

Second front yard _____ Aggregate of Side Yards _____

Ground floor existing _____ sq. ft. proposed _____ sq. ft. total _____ sq. ft.

Sq. ft. of lot _____ % of lot covered by bldg. _____ % of improved lot cover _____

Building height _____

Fencing: Type _____ height _____

This application is approved _____ denied _____

Application fee \$ 25.00 Rec'd Cash/Check Construction Control # _____

Approval Date _____

Janet Doherty
Zoning Official



MECHANICAL INSPECTION TECHNICAL SECTION



Date Received
Control #
Date Issued
Permit #

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION, WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block _____ Lot _____ Qualification Code _____
Work Site Location _____

Owner In Fee: _____

Tel. _____ e-mail _____

Address _____
street municipality zip code

Contractor: _____ Tel. _____ e-mail _____

Address _____ e-mail _____

Contractor License No. _____ Exp. Date _____

Home Improvement Contractor Registration No. or Exemption Reason _____

Federal Emp. ID No. _____ FAX: _____

B. MECHANICAL CHARACTERISTICS

Use Group Present: R-3-or R-5

Heating System work: New OR Modification to Existing OR Conversion OR Replacement

Type: Hydronic Hot Air

Fuel Type: Gas Oil Electric Solar Other _____

Estimated Cost of Mechanical Work \$ _____

JOB SUMMARY (Office Use Only) PLAN REVIEW

No Plans Required

Mechanical Plans Approved

Date: _____ Approved by: _____

Joint Plan Review Required: Bldg. Elec. Plumb. Fire.

Elev.

SUBCODE APPROVAL for PERMIT

Date: _____

Approved by: _____

SUBCODE APPROVAL for CERTIFICATE

Date: CK CCC

Approved by: _____

INSPECTIONS

DATES

Type:	Failure	Failure	Approval	Initial
Water Heater				
Appliances				
Chimney/Vent				
Piping				
Tank				
Cooling/AC				
Generator				
Fireplace				
Chimney Cert.				
Other				
Other				
Final				

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.

Applicant sign/Contractor

sign and seal here: _____

Print name here: _____

Licensed Contractor

Exempt Applicant

D. TECHNICAL SITE DATA

DESCRIPTION OF WORK

NO.

FIXTURE/EQUIPMENT

FEE (Office Use Only)
\$ _____

Water Heater	_____
Fuel Oil Piping Connections	_____
Gas Piping Connections	_____
Steam Boiler	_____
Hot Water Boiler	_____
Hot Air Furnace	_____
Oil Tank	_____
LPG Tank	_____
Fireplace	_____
Generator	_____
Other	_____

Administrative Surcharge \$	_____
Minimum Fee \$	_____
State Permit Surcharge Fee \$	_____
TOTAL FEE \$	_____



FIRE PROTECTION SUBCODE TECHNICAL SECTION



Date Received
Control #
Date Issued
Permit #

A. IDENTIFICATION—APPLICANT: COMPLETE ALL APPLICABLE INFORMATION. WHEN CHANGING CONTRACTORS, NOTIFY THIS OFFICE. CALL UTILITY DIG NO: 1-800-272-1000.

Block _____ Lot _____ Qualification Code _____
Work Site Location _____

Owner in Fee: _____

Tel: _____ e-mail _____

Address _____ street _____ municipality _____ Tel. _____ zip code _____
Contractor: _____ Tel. _____

Address _____ e-mail _____

Fire Protection Equipment, NJ Div of Fire Safety Permit No. _____
Fire Protection Equipment, NJ Div of Fire Safety Installer No. _____ Exp. Date _____
Fire Alarm Contractor No. _____
Home Improvement Contractor Registration No. or Exemption Reason _____ FAX: _____
Federal Emp. ID No. _____

B. FIRE PROTECTION CHARACTERISTICS

Use Group: Present _____ Proposed _____ Fuel Storage Tank: _____
Constr. Class: Present _____ Proposed _____ Fuel Type: [] Flammable or [] Combustible Capacity _____
Heating System: [] New or [] Modification to Existing Fire Alarm System: [] New or [] Existing
OR [] Conversion OR [] Replacement Location of Panel: _____
Fire Suppression/Standpipe System: [] New or [] Existing

Fuel Type: [] Gas [] Oil [] Electric [] Solar Location of Main Control Valve: _____
[] Other _____

Total Cost of Fire Protection Work \$ _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW	INSPECTIONS	Dates (Month/Day)	Initial
[] No Plans Required	Type: Alarm System	Failure	Approval
[] Partial - Under-slab Utilities Approved	Suppression Sys.		
Date: _____ Approved by: _____	Standpipe		
[] Fire Protection Plans Approved	Fire Pump		
Date: _____ Approved by: _____	Pre-Eng. System		
Joint Plan Review Required: [] Bldg. [] Elec. [] Plumb. [] Elev. Mechanical	Smoke Control		
SUBCODE APPROVAL for PERMIT	TCO		
Date: _____ Approved by: _____	Flam/Combust Tanks		
SUBCODE APPROVAL for CERTIFICATE	Fireplace Venting		
[] CO [] CCO [] CA	Final		
Date: _____ Approved by: _____	Other		

C. CERTIFICATION IN LIEU OF OATH

I hereby certify that I am the (agent of) owner of record and am authorized to make this application.
Applicant/Contractor sign here: _____

Print name here: _____

D. TECHNICAL SITE DATA [] Certified Contractor [] Exempt Applicant

DESCRIPTION OF WORK:
Water Supply Source _____
Method of Alarm/Suppression System Supervision _____

Flammable/Combustible Tanks _____ NUMBER _____
Alarm Systems [] System _____ FEE (Office Use Only) \$ _____
[] 110v Interconnected _____
[] CO Detectors/110v _____
Alarm Devices (i.e., smoke, heat, pulls, water/flow) _____
Supervisory Devices (i.e., tampers, low/high air) _____
Signaling Devices (i.e., horn/strobes, bells) _____
Other Devices _____

TOTAL _____
Suppression Systems _____
Fire Pump _____ GPM Type _____
Dry Pipe/Alarm Valves _____
Pre-action Valves _____
Sprinkler Heads (Dry and Wet) _____
Standpipes _____
Pre-engineered Systems _____
Wet Chemical _____
Dry Chemical _____
CO₂ Suppression _____
Foam Suppression _____
FM200 Suppression _____
Other _____

Other Systems _____
Kitchen Hood Exhaust System _____
Smoke Control System _____
Fuel-Fired Appliances [] Gas [] Oil [] Solid _____
Fireplace Venting/Metal Chimney _____
Other _____

Administrative Surcharge \$ _____
Minimum Fee \$ _____
State Permit Surcharge Fee \$ _____
TOTAL FEE \$ _____

Placement of Standby Generator to REDUCE THE RISK OF FIRE

The National Fire Protection Association (NFPA) standard NFPA 37 establishes criteria for minimizing the hazard of fire during the installation and operation of stationary combustion engines. NFPA 37 limits the spacing of an enclosed generator from openings in walls, structures and combustible materials outside the enclosure.

The placement requirements provided are based on compliance to NFPA 37 2010 section 4.1.4 and a full-scale demonstration fire test. Details of compliance testing can be found in section **National Fire Protection Association (NFPA) standard NFPA 37 requirements and testing.**

▲ WARNING Exhaust heat/gases could ignite combustibles or structures resulting in death, serious injury and/or property damage.

- DO NOT place weatherproof enclosure opposite exhaust side closer than 18 inches (0.5 m) from any structure.
- Exhaust outlet side of weatherproof enclosure must have at least 5 ft (1.5 m) minimum clearance from any structure, shrubs, trees or any kind of vegetation.
- Standby generator weatherproof enclosure must be at least 5 ft (1.5 m) from windows, doors, any wall opening, shrubs or vegetation over 12 inches (30.5 cm) in height.
- Standby generator weatherproof enclosure must have a minimum of 4 feet (1.2 m) overhead clearance from any structure, overhang or trees.
- DO NOT place weatherproof enclosure under a deck or other type of structure that may confine airflow.
- USE ONLY flexible steel fuel line provided. Connect provided fuel line to generator, DO NOT use with or substitute any other flexible fuel line.
- Smoke detector(s) MUST be installed and maintained indoors according to the manufacturer's instructions/ recommendations. Carbon monoxide alarms cannot detect smoke.
- DO NOT place weatherproof enclosure in manner other than shown in illustrations.

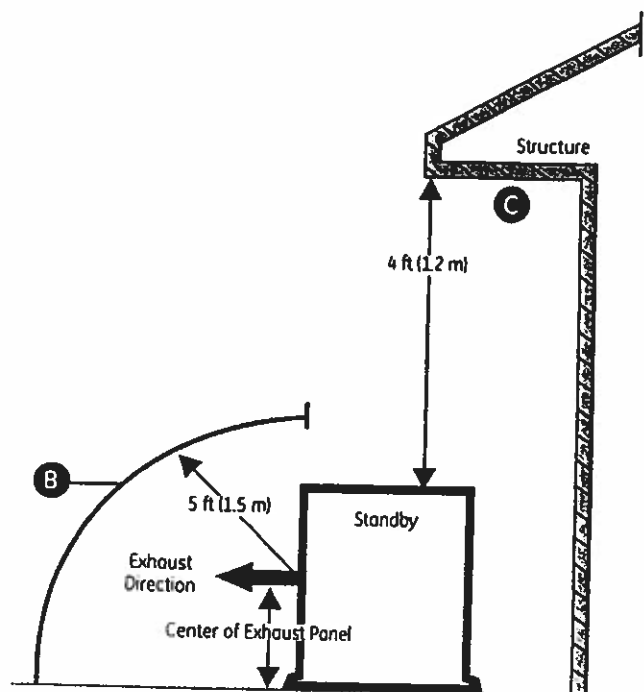
Examples of standby generator locations to reduce the risk of fire:

Legend for Generator Locations to reduce the risk of fire.

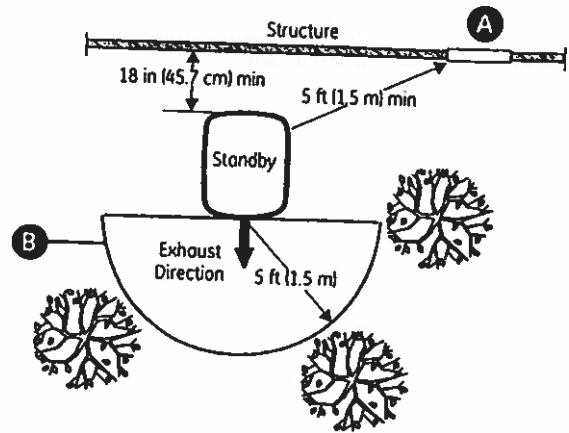
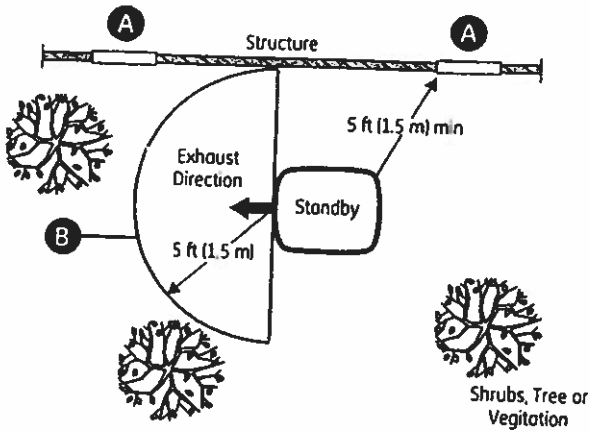
- A** Standby weatherproof enclosure must be at least 5 ft (1.5 m) from windows, doors, any wall opening, shrubs or vegetation over 12 inches (30.5 cm) in height.
- B** Exhaust outlet side of weatherproof enclosure must have at least 5 ft (1.5 m) minimum clearance from any structure, shrubs, trees or any kind of vegetation.
- C** Standby weatherproof enclosure must have a minimum of 4 feet (1.2 m) overhead clearance from any structure, overhang or trees.

NOTICE DO NOT place weatherproof enclosure under a deck or other type of covered structure that may confine airflow.

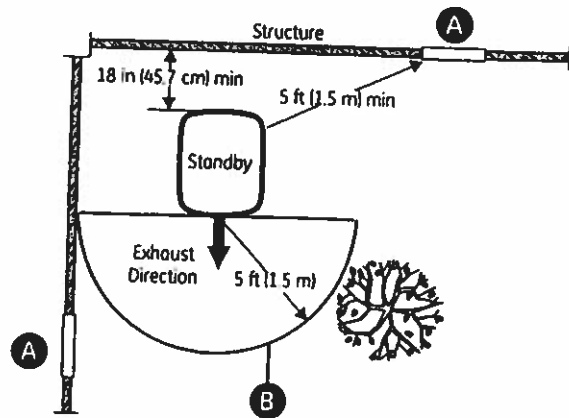
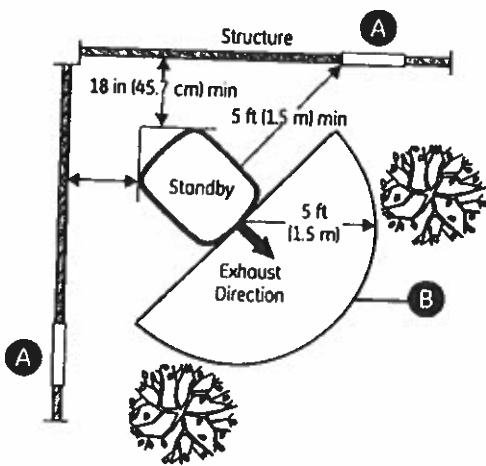
Vertical Clearances



Single Structure Installations



Two Structure Installations

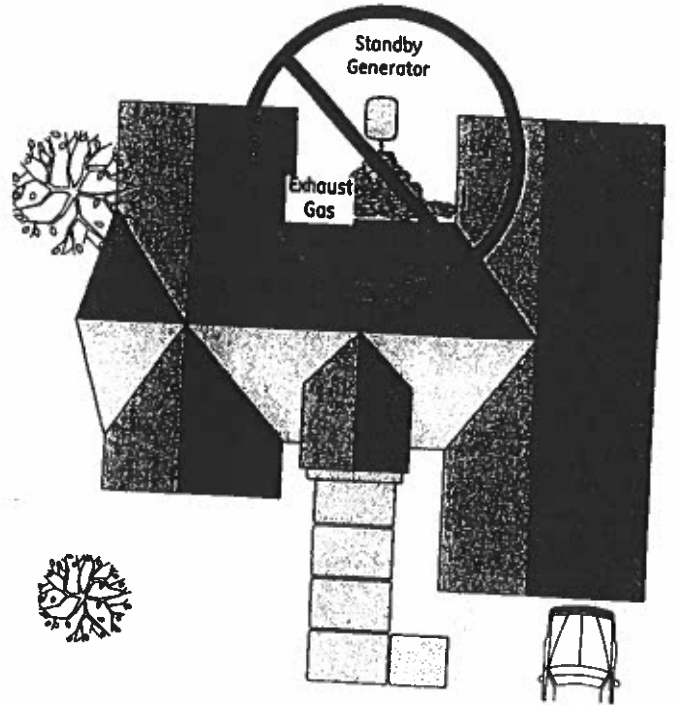


Legend for Generator Locations to reduce the risk of fire.

- A** Standby weatherproof enclosure must be at least 5 ft (1.5 m) from windows, doors, any wall opening, shrubs or vegetation over 12 inches (30.5 cm) in height.
- B** Exhaust outlet side of weatherproof enclosure must have at least 5 ft (1.5 m) minimum clearance from any structure, shrubs, trees or any kind of vegetation.
- C** Standby weatherproof enclosure must have a minimum of 4 feet (1.2 m) overhead clearance from any structure, overhang or trees.

NOTICE DO NOT place weatherproof enclosure under a deck or other type of covered structure that may confine airflow.

- Direct the standby generator exhaust away from or parallel to the building or structure. DO NOT direct the generator exhaust towards a potentially occupied building, structure, windows, doors, ventilation intakes, soffit vents, crawl spaces, open garage doors or other openings where exhaust gas could accumulate and enter inside or be drawn into a potentially occupied building or structure.



- DO NOT place standby generator in any area where leaves or debris normally accumulates. Position standby generator in an area where winds will carry the exhaust gas away from any potentially occupied building or structure.

Other General Location Guidelines

- Place the standby generator in a prepared location that is flat and has provisions for water drainage.
- Install the standby generator in a location where sump pump discharge, rain gutter down spouts, roof run-off, landscape irrigation, or water sprinklers will not flood the unit or spray the enclosure and enter any air inlet or outlet openings.
- Install the standby generator where it will not affect or obstruct any services (including covered, concealed and underground), such as telephone, electric, fuel (natural gas / LPG vapor), irrigation, air conditioning, cable, septic, sewer, well and so forth.
- Install the standby generator where leaves, grass, snow, etc will not obstruct air inlet and outlet openings. If prevailing winds will cause blowing or drifting, you may need to construct a windbreak to protect the unit.

National Fire Protection Association (NFPA) Standard NFPA 37 Requirements and Testing

Requirements:

NFPA 37 2010, section 4.1.4, Engines Located Outdoors. Engines, and their weatherproof housings if provided, that are installed outdoors shall be located at least 1.5m (5 ft) from openings in walls and at least 1.5 m (5 ft) from structures having combustible walls. A minimum separation shall not be required where either of the following conditions exist:

1. The adjacent wall of the structure has a fire resistance rating of at least 1 hour.
2. The weatherproof enclosure is constructed of noncombustible materials and it has been demonstrated that a fire within the enclosure will not ignite combustible materials outside the enclosure. *

* Annex A Explanatory Material

A.4.1.4 (2) Means of demonstrating compliance are by means of full-scale fire tests or by calculation procedures, such as those given in NFPA 555, *Guide on Methods for Evaluating Potential for Room Flashover*.

To comply with condition 2 above the weatherproof enclosure has been constructed completely of non-combustible materials and full-scale fire tests have been conducted to demonstrate that a fire within the enclosure will not ignite combustible materials outside the enclosure.

A U.S. Department of Labor Occupational Safety & Health Administration (OSHA) Nationally Recognized Testing Laboratory (NRTL) performed full scale fire demonstration testing. This 3rd party independent NRTL evaluated many worst-case ignition scenarios. The results of the demonstration testing concluded that a fire within the enclosure would not ignite combustible materials outside the enclosure.