Florham Park Borough Construction Department
111 Ridgedale Ave.
Florham Park, NJ 07932
Ph. – 973-410-5350

Generator Installation

Dear applicant,

Please note that all permit applications for the installation of generators for existing dwellings and new construction/additions require the following:

Existing 1 and 2 Family Dwellings:

1. Completed Construction Permit Application
2. Completed Zoning Application
3. Copy of to scale survey including title block with the location of the generator indicating the distance to the property line and 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

New Construction and Additions:

1. Items 1-3 above
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

BOROUGH OF FLORHAM PARK ZONING APPLICATION

111 Ridgedale Avenue, Florham Park, NJ 07932E-mail: Zoning@florhamparknj.gov Phone: 973-410-5330

AC or GENERATOR
Fee $75

Work Site Address: _____Block: _____Lot: _____Zone: _____

Property Owner: _____Owner's Email: _____

Owner's Address: _____Phone: _____

Brief Description of Work: _____

_____

Property is a: Corner Lot _____Interior Lot _____

Existing Setbacks:

Front Yard_____Smallest Side Yard_____Rear Yard_____Second Front Yard (corner lot): _____

Proposed Setbacks:

Front Yard_____Smallest Side Yard_____Rear Yard_____Second Front Yard (corner lot): _____

Sq. Ft. of Lot:_____Building Coverage %:_____Improved Lot Coverage %: _____

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 application laws of this jurisdiction

Signature _____Name (Print)_____

** Office use only **

Application: Approved_____Denied_____ Application No_____Permit No_____

Application Fee_____Received Date_____Check #_____Cash_____

Zoning Official Signature: _____Date: _____

Kayla Kaplan-Zoning Official Marjorie Lowe-Assistant to the Zoning Official

ELECTRICAL SUBCODE
TECHNICAL SECTION

NEW JERSEY UNIFORM CONSTRUCTION CODE

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. (_____)_____

Address _____ e-mail _____

_____

Contractor License No. _____ Exp. Date _____

Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____

Federal Emp. ID No. _____ FAX: (_____) _____

B. ELECTRICAL CHARACTERISTICS

Use Group: Present _____ Proposed _____

[ ] Pole/Pad # _____ [ ] Temporary_____ [ ] Other _____

Building Occupied as _____ Utility Co. DR # _____

Est. Cost of Elec. Work $ _____

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[ ] No Plans Required
[ ] Electric Plans Reviewed
Date: _____Reviewed by: _____
Joint Plan Review Required:
[ ] Bldg. [ ] Plumb.. [ ] Fire [ ] Elev.
Date: _____Reviewed by: _____
SUBCODE APPROVAL for PERMIT
Date:_____
Released by: _____
SUBCODE APPROVAL for CERTIFICATE
[ ] CO [ ] CCO [ ] CA
Date: _____
Released by: _____

INSPECTIONS Type:	Dates (Month/Day) Failure	Failure	Approval	Initial
Rough				
Barrier- Free				
Trench				
Generator				
Solar				
TCO				
Other				
Service				
Final				
Bond- Grid				

Cut-in-Card Issue Date (P) _____ (T) _____
Annual Pool Inspection _____
Grounding & Bonding Certification Date _____

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 and Seal here: _____

Print name here: _____

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

DESCRIPTION OF ALL ELECTRICAL WORK:

QTY	SIZE	ITEMS
_____		Devices
_____		Detectors [ ] Smoke *OR* [ ] CO
_____		Light Poles/ Bollards. Height size _____
_____		Emergency & Exit Lights
_____		Alarm Devices/ F.A.C. Panel
_____		SEE ATTACHED LIST
_____	_____	Pool Permit/ with UV Lights
_____	_____	Storable Pool/Spa/ Hot Tub
_____	_____	EV Charger KW
_____	_____	PV Systems KW
_____	_____	Energy Storage KW
_____	_____	KW [ ] Central AC Unit *OR* [ ]Mini Split
_____	_____	HP/KW [ ] Space Heater [ ] Air Handler [ ] Furnace
_____	_____	KW Baseboard
_____	_____	Load Shed KW
_____	_____	KW Transformer/ Generator
_____	_____	AMP Service
_____	_____	Amp Subpanels
_____	_____	AMP Disconnect/ ATS
_____	_____	KW. Elec. Sign/Outline Light
_____	_____	OTHER

FEE (Office Use Only)

$_____

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

U.C.C F120 (rev. 12/25) 1 White= Inspector Copy 2 Canary = Office Copy 3 Pink = Office Copy 4 Gold = Applicant Copy

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. (_____)_____
Address _____ e-mail _____
_____
Contractor License No. _____ Exp. Date_____
Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____
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 _____
Est. Cost of Mechanical Work $_____

JOB SUMMARY (Office Use Only)

PLAN REVIEW
[ ] No Plans Required
[ ] Mechanical Plans Approved
Date: _____Reviewed by: _____
Joint Plan Review Required:
[ ] Bldg. [ ] Elec. [ ] Plumb. [ ] Fire [ ] Elev.
Date: _____Reviewed by: _____
SUBCODE APPROVAL for PERMIT
Date:_____
Released by: _____
SUBCODE APPROVAL for CERTIFICATE
[ ] CO [ ] CCO [ ] CA
Date: _____
Released by: _____

INSPECTIONS Type:	Failure	Failure	Dates (Month/Day) Approval	Initial
Water Heater				
Appliance				
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/Contractor
Sign here: _____
Print name here: _____

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

DESCRIPTION OF WORK:

NO.	FIXTURE/EQUIPMENT
_____	Water Heater
_____	Fuel Oil Piping Connections
_____	Gas Piping Connections
_____	Steam Boiler
_____	Hot Water Boiler
_____	Hot Air Furnace
_____	Oil Tank
_____	LPG Tank
_____	Fireplace
_____	Generator
_____	Other

FEE (Office Use Only)

$ _____

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

PLUMBING 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 zip code
Contractor: _____ Tel. (_____)_____
Address _____ e-mail _____
_____
Contractor License No. _____ Exp. Date_____
Home Improvement Contractor Registration No. or Exemption Reason (if applicable): _____
Federal Emp. ID No. _____ FAX: (_____) _____

B.PLUMBING CHARACTERISTICS

Use Group Present _____ Proposed _____
Building Sewer Size_____ Public Sewer_____ Private Septic _____
Water Service Size_____ Public Water_____ Private Well _____
Est. Cost of Plumbing Work $_____

JOB SUMMARY (Office Use Only)

PLAN REVIEW Date Initial
[ ] No Plans Required _____ _____
[ ] All _____ _____
[ ] Plumbing Plans Approved
Date: _____Reviewed by: _____
Joint Plan Review Required:
[ ] Bldg. [ ] Elec. [ ] Fire [ ] Elev.
Date: _____Reviewed by: _____
SUBCODE APPROVAL for PERMIT
Date:_____
Released by: _____
SUBCODE APPROVAL for CERTIFICATE
[ ] CO [ ] CCO [ ] CA
Date: _____
Released by: _____

INSPECTIONS	Dates (Month/Day)			
Type:	Failure	Failure	Approval	Initial
Slab				
Rough				
Water				
Sewer				
Fixtures				
Gas Equipment				
Gas Piping				
LP Gas Tank				
Fuel Oil Piping				
Solar_____				
TCO				
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/Contractor
Sign here: _____
Print name here: _____

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

DESCRIPTION OF WORK:

QTY.	FIXTURE/EQUIPMENT	FEE (Office Use Only)
_____	Water Closet	$_____
_____	Urinal/Bidet	
_____	Bath Tub	
_____	Lavatory	
_____	Shower	
_____	Floor Drain	
_____	Sink	
_____	Dishwasher	
_____	Drinking Fountain	
_____	Washing Machine	
_____	Hose Bibb	
_____	Water Heater	
_____	Fuel Oil Piping	
_____	Gas Piping	
_____	LP Gas Tank	
_____	Steam Boiler	
_____	Hot Water Boiler	
_____	Sewer Pump	
_____	Interceptor/Separator	
_____	Backflow Preventer	
_____	Grease trap	
_____	Sewer Connection	
_____	Water Service Connection	
_____	Stacks _____	
_____	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.

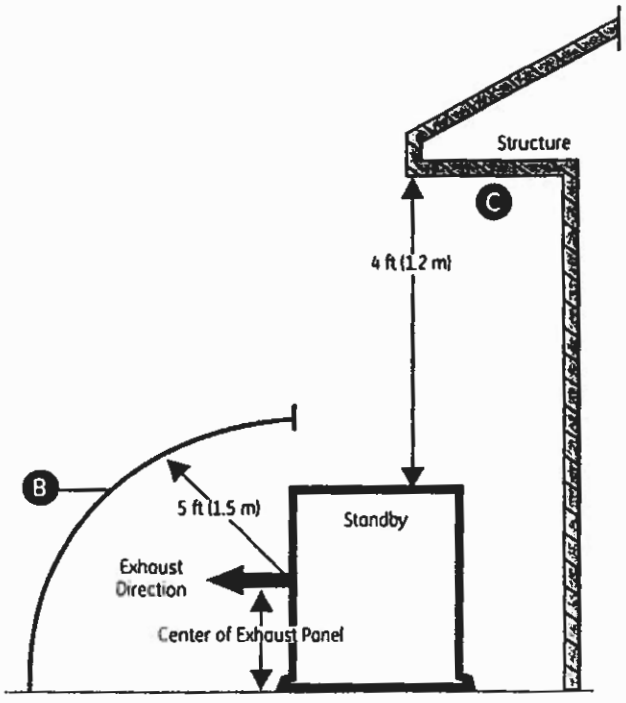
Examples of standby generator locations to reduce the risk of fire:

Legend for Generator Locations to reduce the risk of fire.

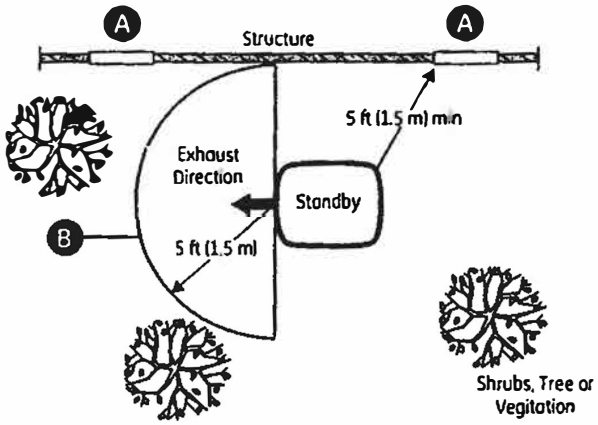
- (A) Standby weatherproof enclosure must be at least 5 ft (1.5 m) from windows, doors, any wall opening, shrubs or vegetation over 12 inches (30.5 cm) in height.
- (B) Exhaust outlet side of weatherproof enclosure must have at least 5 ft (1.5 m) minimum clearance from any structure, shrubs, trees or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

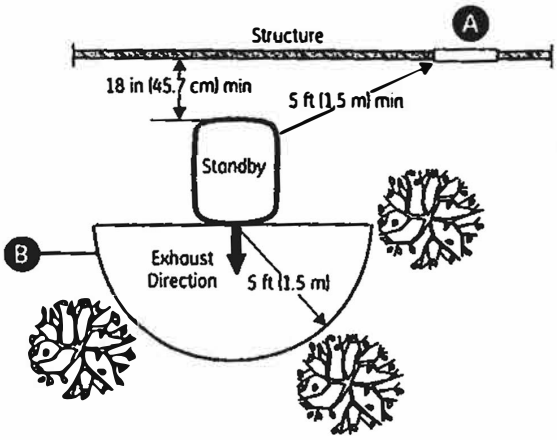
NOTICE DO NOT place weatherproof enclosure under a deck or other type of covered structure that may confine airflow.

Vertical Clearances

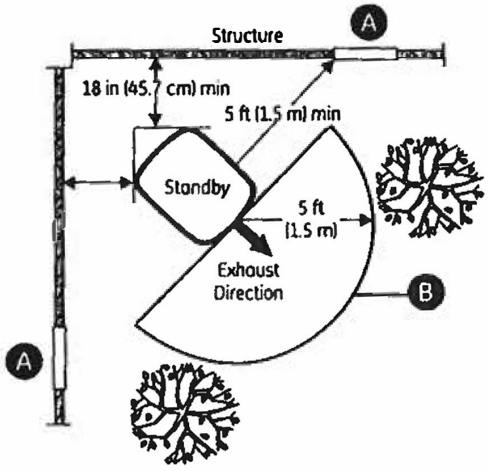


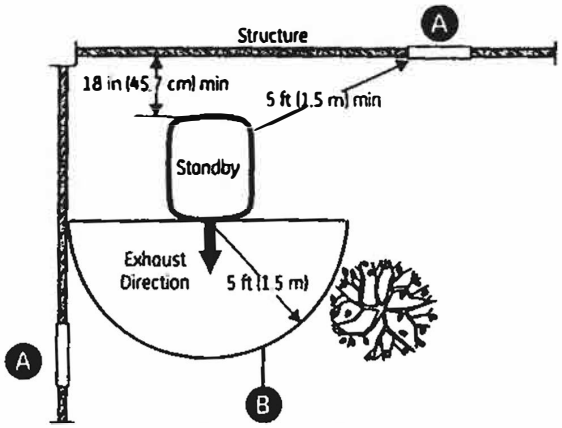
Single Structure Installations





Two Structure Installations



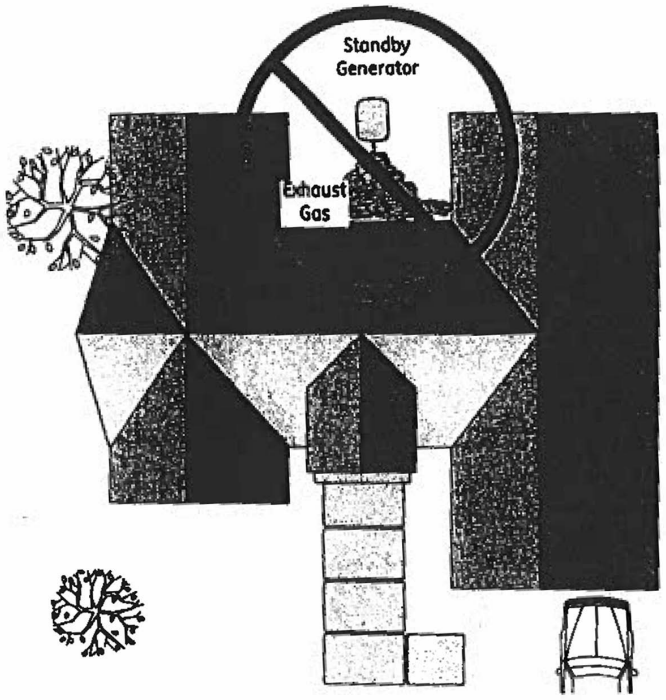


Legend for Generator Locations to reduce the risk of fire.

- **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. *

* Ann ex 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.