



# VILLAGE OF LINCOLNWOOD

6900 Lincoln Ave. | Lincolnwood, IL 60712 | Phone: 847-673-7402

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## Generator (Residential) Handout

A permit is required to install or replace a generator. The backup electrical generator unit can only be installed in a rear yard and must be a minimum of 10 feet from side property lines and at least 20 feet from an adjoining property owner's window. In no case shall a generator unit be located on any easement. No generator shall be located in any front yard, side yard or corner side yard.

The permit application must include the following information:

- Homeowner's name, address, telephone number and email address
- Name, address, telephone number and email address of the general contractor
- List the type and size of the generator along with the proposal showing the total cost of the job

Provide one (1) copy of the plat of survey (**not** a Google Earth image nor a site plan) showing the proposed location of the generator with dimensions. Indicate on the plat of survey the location of the gas meter. On the plat, draw a line of where the gas line is being installed and indicate the lengths of all piping segments. Indicate all locations for the shut off valves. On the plat of survey, show the existing electric panel location as well as the electric meter location. Include the locations for the transfer switch and all other new electrical panels for the new generator.

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This permit submittal shall include or show on the plat of survey the following information.

- One (1) copy of the contractors proposal
- Gas piping shall not penetrate the building foundation walls at any point below grade.
- All below grade gas lines shall be a minimum of eighteen (18) inches below grade. CSST (Corrugated Stainless Steel Tubing), if buried, shall be labeled and listed for direct burial. Approved natural gas plastic pipe, buried only, shall not be operated at pressures greater than 100 psig. Ensure a yellow trace wire is also installed when gas pipe has been buried. (\* Call for inspection prior to burial of gas piping.)
- Indicate the location of shut-off valve(s). There shall be one at the meter or connection point as well as one at the generator within six (6) feet of the appliance.
- The gas meter shall be sized for maximum cubic feet/hour based on whole house natural gas usage and load calculation for the generator.
- Provide the existing gas meter size and the proposed gas meter size? (\* Upgrading of the existing gas meter may be required.)
- Provide the size of the gas pipe as well as the length from the meter to the appliance. (See table below for pipe sizing)
- Submit a copy of the manufacturer's specification and installation manual. This manual will be returned to you at the time the permit is issued.
- Indicate the location of the generator and 4' concrete pad, unless specific manufacturer requirements allow alternative, and show the required clearances using dimensions to all exterior walls, window wells, windows, doors, vegetation, dryer vents, bathroom exhaust vents or high efficiency furnace vent piping.
- Provide photographs of the desired location. (exterior walls/corner of home)
- Provide the nameplate rating of the generator.
- Provide a one line electrical diagram.

# FUEL PIPE SIZING

Natural Gas (Table values are maximum pipe run in feet.)

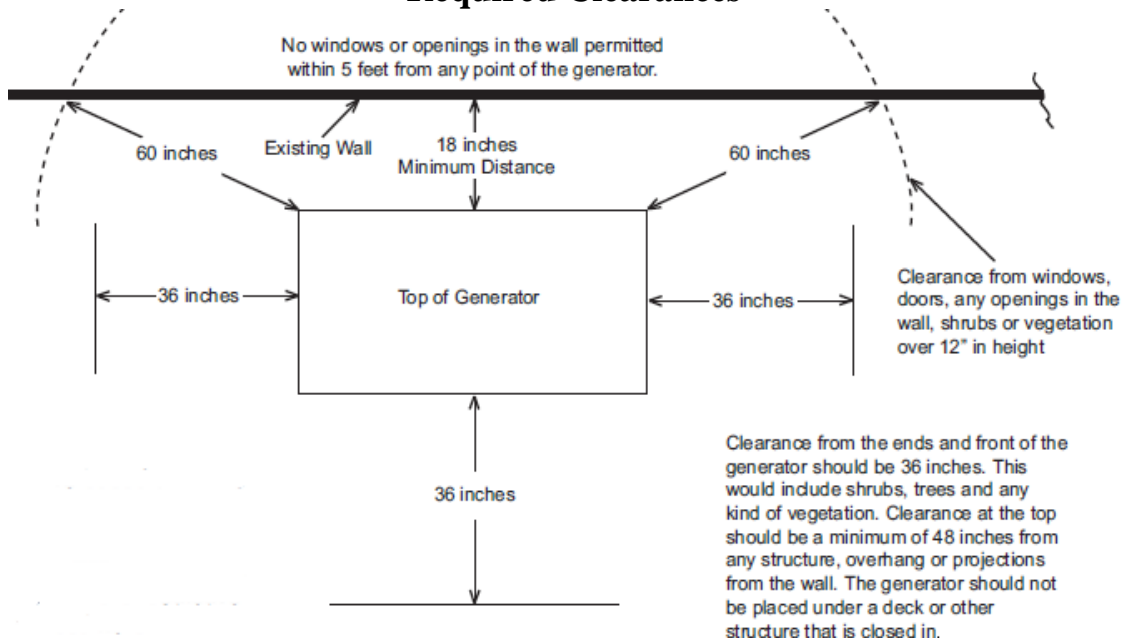
kW	Pipe Size (in)						
	0.75"	1"	1.25"	1.5"	2"	2.5"	3"
7-8	55	200	820				
10	20	85	370	800			
13-14	10	50	245	545			
16-17		40	190	425			
20		20	130	305	945		
22		15	115	260	799		
25		10	95	220	739		
27			85	203	552		
30			60	147	565		
35-36			35	95	370	915	
40			25	75	315	790	
45			15	60	260	650	
48				50	230	585	
50				50	220	560	
60				25	145	390	1185
70				5	75	225	710
80					65	195	630
100					40	140	460
130						50	215
150						30	150

**LP**  
 LPG: 8.55 ft<sup>3</sup>/lb., 4.24 lbs./gal., 2500 btu/ft<sup>3</sup>  
 LPG: 36.3 ft<sup>3</sup> = 1 gal.

**Natural Gas**  
 1 cubic foot = 1,000 BTU  
 1 therm = 100,000 BTU  
 Gas consumption = 13,000-16,000 BTU per kW/hr

**Pressure**  
 1 inch mercury = 13.61 inches water column  
 1 inch Water Column = 0.036 psi  
 5-14 inches water column = 0.18 psi to 0.50 psi

## Required Clearances



Per Village of Lincolnwood ordinance for Site Management chapter 14.15.10(M) Permissible hours of construction:  
 Monday through Friday: 7:00 am to 6:00 pm  
 Saturday: 7:00 am to Noon  
 Sunday: Construction prohibited

For all direct burial excavations, call J.U.L.I.E at either 811 or 1-800-892-0123 forty-eight (48) hours before you dig per Illinois State law. This is to verify the location of underground utilities in the area. The service is provided to you at no charge.