

STANDBY GENERATORS



DOCUMENT SUBMITTAL LIST

- Completed *Application for Construction or Use*. Application must include authorized signature by the property owner if not owner occupied.
- Completed *Required Submittal Information* sheet (page 5) for electrical, gas, equipment, and zoning information.
- Manufacturer's specification sheets/installation instructions.
- Three copies of Plat of Survey with detailed site plan of all setbacks, easements, window or vent openings, exhaust flow direction, and gas pipe layout indicated.
- Electrical line diagram (include connections, materials, and sizing).

Failure to provide any of the above documents may result in processing delays.

GENERAL INFORMATION AND FEES

1. A permit is required for all permanently installed standby generator systems. This document is intended only for residential optional standby systems, as defined in Article 702 of the *National Electrical Code*.
2. The application review period averages two weeks. The applicant will be contacted when the permit is ready for issuance and payment.
3. If work commences prior to permit issuance, the permit fee shall be doubled.
4. Approved construction documents shall be available on site at all times.
5. Alterations to the approved plans must be resubmitted to the Building Department in writing for review and approval prior to construction.
6. A list of required inspections is provided on the reverse side of the permit. Inspections must be scheduled at least one day prior to the desired inspection date by calling the Warrenville Community Development Department (630-393-9050).
7. It is the responsibility of the applicant to either have the installing electrician or a person trained in operating the system on site for the final inspection. Access to the service panel is also required at such time.
8. A permit may become invalid if work does not begin within 180 days of issuance, or if construction has been halted and not resumed for a period of 60 consecutive days.
9. Homeowners Association (HOA) approval may be required before commencing work. The issuance of a permit does not exempt HOA rules and regulations.
10. It is the homeowner/contractor's responsibility to have underground utilities located no less than 48 hours prior to digging by calling J.U.L.I.E (811).
11. The permit for a backup generator does not include service upgrades. Indicate on permit application if electrical service is to be upgraded as part of the generator installation.

Fees:	Plan review fee	\$30.00
	Electrical permit fee	\$44.00
	Plumbing(gas) permit	\$27.50

Bond: A \$100.00 building bond is required at the time of building permit issuance, and will be refunded upon completion and approval of the project in accordance with all applicable City Ordinances in the manner in which it was initially submitted.

ZONING REQUIREMENTS

A standby electrical generator may be located in any portion of the yard except within required yard setbacks, as indicated in the table below:

	R-1	R-1A	R-2	R-3	R-4	R-5	R-6
Front or corner side yard	40'	40'	40'	35'	35'	30' *	30' *
Interior side yard	20'	20'	12.5'	10'	7.5'	5'	*
Rear yard	60'	60'	60'	40'	35'	30'	30'

** see Zoning Ordinance for specific requirements*

When determining a location for the generator, consider the impact of the engine noise to neighboring properties. Noise levels of the generator should not exceed 60db at the property lines. Generators on commercial lots require screening around generators located outdoors.

ELECTRICAL REQUIREMENTS

1. Construction shall comply with the *2014 National Electric Code (NEC)* and *2015 International Residential Code (IRC)*.
2. Equipment shall be installed per manufacturer’s installation instructions. All standby generators shall be listed in accordance with *UL 2200. (IFC 604.1.1)*
3. No less than 36 inches of clear access and working space in front of any electrical access panels must be provided.
4. The generator shall be capable of supplying the full load transferred by the automatic transfer switch. If the output capacity of the generator is less than the rated ampacity of the main breaker of the panel served, a load shedding system is required.
5. The applicant is required to contact ComEd to reseal meter fitting. ComEd does not permit access to line side of meter. All connections are to be on load side only. Contact ComEd for details.
6. A permanent plaque shall be installed at each service disconnection and at the meter socket denoting the presence of a generator and its location. *(NEC 230.2(E) 702.7)*
7. All conductors shall be copper; cables shall be color coded for phasing and bonding.
8. All equipment shall be bonded and grounded per *NEC* and manufacturer’s requirements.

FUEL AND VENTILATION REQUIREMENTS

1. Consult Nicor Gas to assure the service and meter will be of adequate size for the demand.
2. Individual gas supply pipe shall be sized per the manufacturer's required pipe or per the table below if not specified by the manufacturer. See *Table G2413.4 (1)* of the 2015 *International Residential Code®* or *Table 402.4* of the 2015 *International Fuel Gas Code®* for pipe lengths greater than shown, or larger required gas demands.

Length (feet)	Required Branch Pipe Size for Generator (in inches)						
	½	¾	1	1 ¼	1 ½	2	2 ½
Capacity in Cubic Feet of Natural Gas per Hour							
10	172	360	678	1390	2090	4020	6400
20	118	247	466	957	1430	2760	4400
30	95	199	374	768	1150	2220	3530
40	81	170	320	657	985	1900	3020
50	72	151	284	583	873	1680	2680

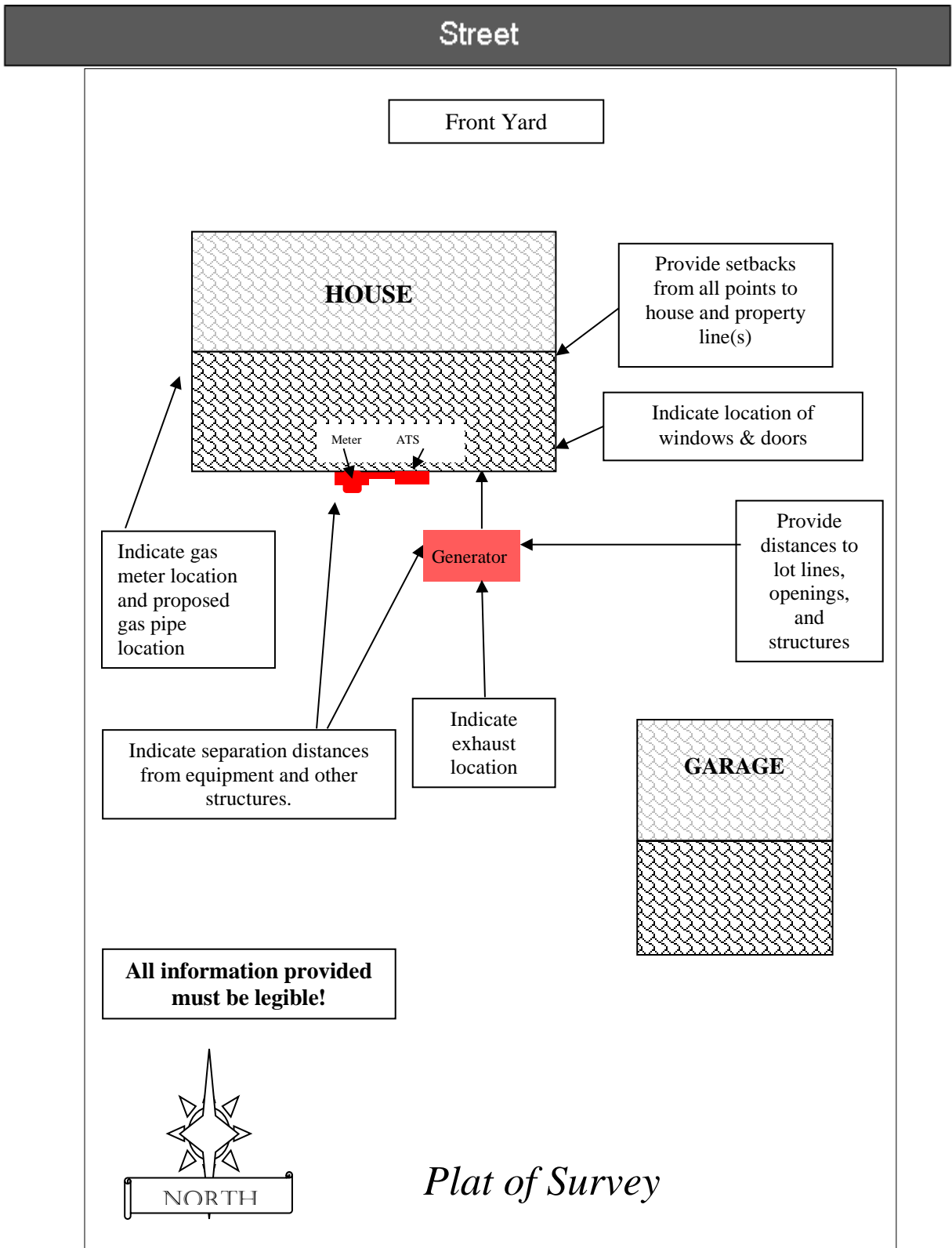
3. Gas lines shall be in black rigid metallic gas pipe installed not less than 3-1/2 inches above ground. Pipe shall be supported every six feet. Non-metallic pipe may only be installed underground, not less than 12 inches below grade, and must have a tracer wire affixed to the pipe.
4. A sediment trap and shutoff valve are required at the generator. (*IRC 2419 & 2420*)
5. The exhaust vent of the generator shall not be within five feet of any openable window, door, or other air intake opening.
6. Generator shall be installed not less than five feet from any building, exit, opening in wall, and structures having combustible walls. (*NFPA 37;4.1.4*) Exception: If weatherproof enclosure is constructed of noncombustible materials and manufacturer's installation guide permits a clear space of less than five feet.

Approved construction documents shall be available on site at all times.

Alterations to the approved plans must be resubmitted to the Building Department in writing for review and approval prior to construction.

Where conflicts between this guide and the code arise, the most restrictive code, or manufacturer's installation instructions shall prevail.

SAMPLE OF RECOMMENDED SITE PLAN (PLAT OF SURVEY)
SUBMITTAL FOR A GENERATOR APPLICATION



REQUIRED SUBMITTAL INFORMATION

This sheet must be completed and included with the permit application. Information required on this page may be obtained from the manufacturer's installation guide or installing contractor; zoning information will be completed by the Zoning Administrator.

Project Site Address _____

Electrical Information

Generator kilowatt (KW) size	Amp rating of generator main	Feeder conductor size	Equipment grounding conductor size	House main disconnect rating (Amps)	Transfer switch location
					<input type="checkbox"/> Interior <input type="checkbox"/> Exterior

Gas Piping Information

Total gas pipe distance from meter supply to generator	Gas pipe size (diameter in inches)	Nicor Gas consulted for gas supply and meter capacity (REQUIRED FOR PROCESSING PERMIT)
		<input type="checkbox"/> Yes, service/equipment approved by Nicor <input type="checkbox"/> Yes, Nicor will upgrade service/equipment

Other Information

Cabinet dimensions	Distance to nearest window	Distance to electrical meter
W _____ D _____ H _____		

Zoning Information (for office use only)

Zoning District i.e., R-1, R-2, etc.	Front yard setback	Right side yard setback	Left yard set back	Rear yard set back