



*At the Heart of Community*

# Generators

## What to Submit

- \*Completed application.
- \*2 copies of a Certified Plat of Survey with the proposed location of the generator drawn to scale with dimensions. Indicate side and rear setbacks.
- \*1 copy of spec sheet of the specific generator model being installed, the load calculation sheet, and a panel schedule.

## Rules & Restrictions

- \*All work shall include all items required by the codes and ordinances adopted by Lake Zurich and meet all manufacturers' specifications.
- \*Generator shall be installed on a level surface with a 2" framed pad of compacted crushed stone, patio blocks or concrete.
- \*Optional standby generator system is not a separately derived system.
- \*The grounding electrode conductor shall be installed at the first means of disconnect and terminated at the water service entrance within 5' after it enters the building before the water meter. A jumper cable terminated on each side of the water meter must either already exist or be installed according to NEC Article 250.66.
- \*All service raceways shall be installed as per NEC Article 250.92(2)(3) using approved metal grounding bushings with an equipment grounding conductor sized according to NEC Article 250.122.
- \*Generator wiring shall be permitted to occupy the same raceways, cables, boxes, and cabinets with other general wiring as per NEC Article 702.9.
- \*Install a sign at the service entrance on the equipment indicating the type and location of the on-site standby power source as per NEC Article 702.8.
- \*Duct seal shall be installed in all service entrance conduits and any others penetrating the exterior of the building that have been installed with this installation.



## Locations

- \*Generator shall not be located in a front yard.
- \*Generators cannot be located within an easement.
- \* A 36" deep by 30" wide working space shall be maintained in front of all electrical equipment control panels.
- \*Generator shall be installed no closer than 5' from any window.
- \*Call J.U.L.I.E. (800-892-0123) before digging.

## Materials

- \*All conductors shall be copper type THHN and sized according to NEC Article 310.15(6).
- \*Natural gas piping: Exposed black iron piping and fittings shall be painted black to prevent corrosion. Underground piping shall be approved plastic pipe and installed at a minimum of 18" below final grade with a yellow tracer wire attached to the outside of the buried pipe. Transition from plastic to steel shall use 'normac' riser assembly.
- \*RMC shall be used for all exterior or buried raceways. EMT is to be used for interior raceways and sized according to NEC 900 tables.
- \*Gas shut off valve to be installed within 6' of the generator. A listed flexible pipe shall also be installed before attaching to the generator.
- \*Gas supply line shall be sized according to IFGC 402.

## Costs

- \$44.00 Plan Review Fee
- \$75.00 Permit Fee
- \$105.00 Building Deposit
  - refunded in accordance with Municipal Code Title 8, Chapters 2-6, Sections A-E. Allow 4-6 weeks for refund after final inspection has taken place.
- \*If a final inspection is not scheduled and approved prior to the expiration date on permit, the building deposit will be forfeited to the Village.

## Inspections

- \*Inspections are scheduled for A.M. or P.M. Monday through Friday with 48 hours advance notice. Call 847-540-1696 before 1:00 P.M. two days before you want your inspection. Same day re-inspections are not available.
- \*Base inspection
- \*Gas piping pressure test
- \*Final inspection

## Note:

- \*If an inspector needs to return more than once for the same phase of any required inspection, an \$85.00 re-inspection fee will be required to be paid before the re-inspection takes place.

**I have read and reviewed these requirements.**

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Date