



Village of Tinley Park - Building Department  
Standby Generator  
Permit Requirements

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The following items are necessary to process your application. If anything is missing, your application will be considered incomplete and will not be processed.

- Date of application
- Name, phone number, and email address of property owner
- Project address
- Description of project
- Cost of project
- Plat of survey that includes the following:
  - Indicate location and necessary trenching for installation.
- Copy of Manufacturer Specifications for Generator and Transfer Switch
- Information requested in “**Guideline for Standby Generator Requirements**”
- “**2. Submittal Requirements**”
- “**A one-line drawing must be submitted to include**” – (7 - requested items)
- Provide verification that gas meter is of a sufficient size to meet added gas demand.
- Sign permit application

## **Guideline for Standby Generator Requirements**

### **1. See Village Zoning Code: SECTION III GENERAL PROVISIONS:**

#### ***H. PERMITTED ENCROACHMENTS IN REQUIRED YARDS (Residential)***

- An emergency generator shall be placed as close as possible to the principal structure and in no case shall be placed within 5' of any property line.

### **2. Submittal Requirements:**

- 1 Copies of Plat of Survey (Must show proposed location of generator and setback measurements.)
- 1 Copies of Generator and Transfer switch Specifications
- 1 Copies of Electrical one-line drawing (Must show locations of equipment, conduit, and wire sizes, and grounding/bonding.)
- 1 Copies of gas line size, material, shut-offs and sediment trap.

#### **A one-line drawing must be submitted to include:**

- The Electric Meter
- Transfer Switch
- Main Electrical Panel
- Conductor Sizing
- Generator
- Bonding and Grounding Locations
- Type of Base for Generator

#### **Additional Requirements:**

- CL2 (Class 2) wiring, low voltage of 30 volts or less with low current, is only allowed in conduit with power wiring where part of an approved Nationally Recognized Testing Laboratory (NRTL) listed assembly provided by the Original Equipment Manufacturer (OEM) and unmodified by the installer.
- Field installed and installer modified or provided CL2 wiring shall be installed in a separate conduit with no power or CL1 wiring installed therein.
- NOTE: All exterior iron/steel gas pipe and fittings shall be covered with a rust inhibiting paint or coating where exposed on the exterior of a building.
- All generators and transfer switches shall be Nationally Recognized Testing Agency (NRTL) listed and labeled and installed per listing and manufacturer's

installation instructions.

- No windows or openings in the wall permitted within 5 feet from any point of the generator. Clearance from windows, doors, any openings in the wall, shrubs, or vegetation over 12" in height per manufacturer's requirements.
- Clearance from the ends and front of the generator should be 36 inches. This would include shrubs, trees, and any kind of vegetation. Clearance at the top should be a minimum of 48 inches from any structure, overhang, or projections from the wall. The generator should not be placed under a deck or other structure that is closed in and would limit or restrict air flow.
- These guidelines are based upon fire testing of the generator enclosure and the manufacturer's requirement for air flow for proper operation.

### **3. Requirements of National Fire Protection Agency (NFPA) 37:**

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

- a. The adjacent wall of the structure has a fire resistance rating of at least 1 hour.
- b. 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. *Minimum separation shall be as specified in manufacturer's installation instructions.*

### **4. 2017 NEC Requirements Shall be followed Including:**

#### **445.18 Disconnecting Means and Shutdown of Prime Mover.**

**(A) Disconnecting Means.** Generators other than cord-and-plug- connected portable shall have one or more disconnecting means. Each disconnecting means shall simultaneously open all associated ungrounded conductors. Each disconnecting means shall be lockable in the open position in accordance with 110.25.

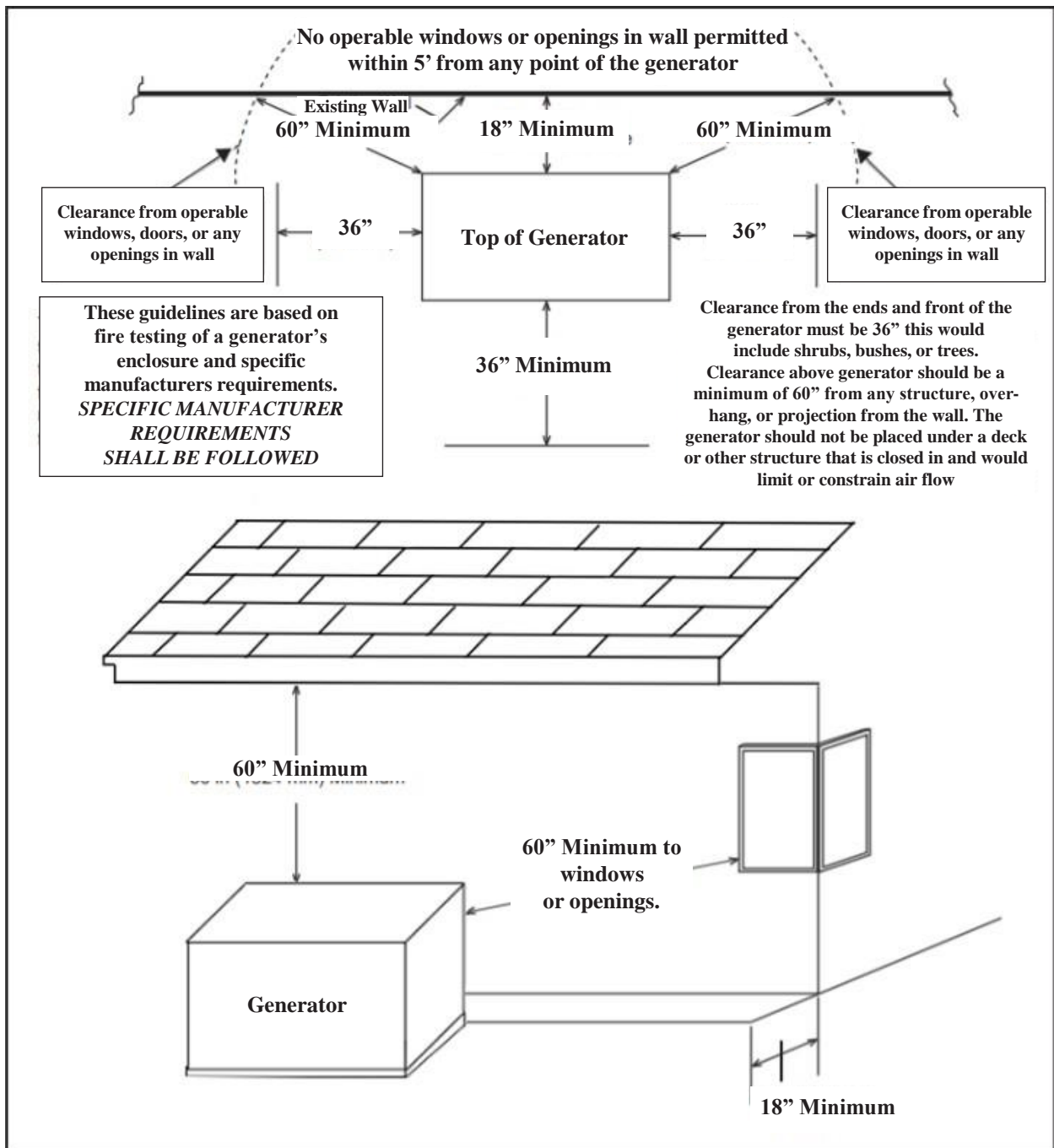
**(B) Shutdown of Prime Mover.** Generators shall have provisions to shut down the prime mover. The means of shutdown shall comply with all of the following:

- (1) Be equipped with provisions to disable all prime mover start control circuits to render the prime mover incapable of starting
- (2) Initiate a shutdown mechanism that requires a mechanical reset

The provisions to shut down the prime mover shall be permitted to satisfy the requirements of 445.18(A) where it is capable of being locked in the open position in accordance with 110.25.

Generators with greater than 15 kW rating shall be provided with an additional requirement to shut down the prime mover. This additional shutdown means shall be located outside the equipment room or generator enclosure and shall also meet the requirements of 445.18(B)(1) and (B)(2).

Typical clearance requirements are outlined below,  
 - **Specific Manufacturer Installation Requirements Shall be followed-**



**ONE LINE DRAWING EXAMPLE**

**Please Submit Your Specific Installation - One Line Drawing**

