



**Willistown Township  
688 Sugartown Road  
Malvern, PA 19355  
RESIDENTIAL STAND-BY FIXED GENERATOR  
SUBMITTAL GUIDE**

Pennsylvania Uniform Construction Code (UCC) referencing the International Residential Code & the 2014 National Electrical Code as adopted by Willistown Township Ordinance

**ELECTRICAL PERMIT REQUIREMENTS** An electrical permit is required for fixed generators as set forth in Section 403.1 of the PA Uniform Construction Code as adopted per Willistown Township Ordinance.

Submit the following items for review and approval:

● **ELECTRICAL/PLUMBING PERMIT APPLICATION**

Complete the Application for Electrical/Plumbing Permit Application. It is necessary to fill out all applicable areas of the permit application including the signature (s) on the permit applicant. Plumbing permit is only required when the generator's fuel source is gas-natural or propane.

● **PLAN REQUIREMENTS**

● **Two (2) copies of the generator installation instructions/specifications.** Specify the fuel source (LP, natural gas or other fuel source) and size of the proposed generator - kw rating.

● **Two (2) copies of instructions/specifications on the proposed automatic transfer switch or manual transfer switch,** if installed.

● **Two (2) copies of a simple wiring diagram** illustrating the location of the generator, automatic or manual transfer switch and the proposed wiring methods between all of the proposed components. The diagram shall include the conduit (type and size) or cable type and wire size/type and number of conductors between all components. All exterior conduit installations require wet rated wire installations.

● A fully compliant grounding system is to be present or added as part of the generator installation. Water pipe grounding (if present) and supplemental grounding – two ground rods spaced 6 feet apart are to be installed per NEC 250. Make note of the existing or upgraded grounding on the electrical wiring diagram.

● Include generator fuel source piping type, size and length of run. Gas piping is to be installed and detailed per given environment. Exterior gas piping types (above or below ground) are to be specified and burial depth noted (if applicable).

● **Two (2) copies of a simple floor plan layout** (interior and/or exterior) showing the proposed locations of the generator in relation to doors, windows and other openings into the building, location and clearances for transfer switches and other components related to the generator installation. Generator clearances required per the manufacturer are to be maintained. Clearances at transfer

switches and other electrical components are to be noted and maintained per the National Electrical Code.

- **Two (2) copies of a site plan** of the property with the location of the generator, size of the generator and pad (square footage) and the distance from the generator to the property lines.

### **PERMIT CONSIDERATIONS AND REQUIREMENTS**

- If gas piping is installed as part of the generator installation, a Gas Piping Certification Testing Certification is to be completed and submitted by the installer after gas piping is installed/tested.
- Electrical work shall be installed per the IRC/NEC. All new electrical work associated with the pool and pool equipment is subject to field inspection and approval.

### **INSPECTION REQUIREMENTS**

- Generators shall not be used until a Willistown Township authorized electrical inspector approves the Final Electrical and Final Inspection. Willistown Township will issue a Certificate of Use and Occupancy upon approval of all required inspections.

- **RESIDENTIAL STAND-BY GENERATOR INSPECTIONS:**

1. Underground conduit and wiring proper to backfill. (if applicable)
  2. Gas piping visual inspection if gas is installed as part of the generator installation, a Gas a Piping Certification Testing Certification is to be completed and submitted.
  3. Final Electric/ Final Building Inspection
- Verification of electrical connections of generator and transfer switch. Wiring sizes and wiring type to be verified. (wet rated wiring needed for exterior applications)
  - A fully compliant grounding system is to be present or added as part of the generator installation. Water pipe grounding (is present) and supplemental grounding – two ground rods spaced 6 feet apart are to be installed per NEC 250 and IRC E3608.
  - Test of generator – contractor representative to be on site to perform a test of the generator and transfer switch to verify operation of all components.
  - If you should have any questions regarding the placement of the generator on the property or the site plan requirements, contact Ed Tiernan, BCO @ 610-647-5300 ext. 239 email [etiernan@willistown.pa.us](mailto:etiernan@willistown.pa.us)

**NOTE: All building permits in Willistown require a zoning application to be submitted and approved prior to the electrical/plumbing permits being approved.**

Zoning Note: the generator must be located inside the building setbacks.