

BUILDING DEPARTMENT GENERATOR INSTALLATION GUIDE

Planning & Clearances

- ☐ Workers compensation/Insurance or Waiver
- ☐ Valid/Currently licensed contractor/or Owner occupied one or two-family house, per CT State Statute [chapter 393 sec. 20-340]
- ☐ Permit value must account for labor and materials to complete the installation including the cost of the generator. (IRC 108.3)
- ☐ Copy of generator and transfer switch manufacture's manual/installation instructions.
- ☐ Site plan with location of equipment being installed.
- ☐ Load calculation's for sizing of generator, including wire sizes and any associated equipment.
- ☐ The generator must maintain a minimum clearance of 5' from openings in structures. [NFPA 37 4.1.4.1]. The sealing of opening's with plexiglass and/or plywood is not an accepted method of permanently closing/sealing opening's in structures.
- ☐ The generator is required to meet minimum distance to combustibles (house, fence, shed, etc.) as per the manufacture's instillation instructions. In lieu of such directions, a minimum clearance of 5' will be enforced. [NFPA 37 4.1.4.2]
- ☐ The generator must be a minimum of 10' from the fill/vent of any propane tank. [NFPA 58 Table 6.4.4.3]
- ☐ The generator must be 5' from any vent opening of any gas regulator. If the regulator is placed less than 5' from the generator, the vent must be piped to provide the required distance and downturned with a screen at the end of the vent. [NFPA 58 6.10.1]

Required Inspections

- ☐ Pressure test on any new gas line to the generator is required.
- ☐ Underground gas piping or electrical conduits are required to have an inspection prior to backfilling.
- ☐ Final inspection required. Have manufactures written installation instruction available and have the electrician scheduled to be present for final inspection. The building official does not open electrical panels or disconnect.
- ☐ All items listed above will be checked for compliance at time of final inspection.
- ☐ Generators must be run and transfer load at time of inspection or a letter of compliance must be provided.

Installation Requirements

- ☐ LP cylinder must be set upon firm foundation or otherwise be firmly secured, not to be placed on soil. [NFPA 58 6.8.2]
- ☐ Gas piping shall be painted/or coated with corrosion-resistant protection. [IRC 2414.7]
- ☐ Gas line, piping, and regulators must be adequately secured, protected, and supported per [IRC 2415.9] - [IRC Table G2424.1]
- ☐ Underground gas piping shall have a minimum depth of 12" [IRC G2415.12]
- ☐ Plastic underground gas piping must have a tracer wire in trench which terminates above grade at each end. [IRC 2415.17.3]
- ☐ Required appliance flex connector must be per manufactures specifications (straight or nearly straight) [IRC 2406.1]
- ☐ Sediment trap required if not internally designed within the generator. [IRC G2419.4]
- ☐ Generator must be installed on a concrete pad or approved base that is a minimum of 3" above the surrounding grade. [IRC 1305.1.3.1]
- ☐ A sign shall be placed at the service-entrance equipment, at the meter location, and on any equipment up to the service-entrance equipment for all installations that indicates the type and location of on-site optional standby power sources. For one- and two-family dwelling units, a sign shall be placed at the disconnecting means required in 230.85 that indicates the location of each permanently installed on-site optional standby power source disconnect or means to shut down the prime mover as required in 445.18(D). (CT AMENDED NEC 702.7(A))
- ☐ Disconnecting means and emergency shut down shall follow article [NEC 445.18]
- ☐ If a disconnecting means is required to be lockable open elsewhere in this Code, it shall be capable of being locked in the open position. The provisions for locking shall remain in place with or without the lock installed. [NEC110.25]
- ☐ Grouping of conductor's neutrals and ungrounded conductors need separation after the main disconnect/Transfer switch. [NEC 250.32(B)(1)]
- ☐ Conductors sized for overcurrent protection other than flexible cords and fixture wires. [NEC 240.4]
- ☐ Conductors sized accordingly. [NEC Table 310.]

This handout cannot cover all situations, nor is it intended to do so. It is not possible to cover all applications and instillations. The Town of South Windsor assumes no responsibility for any errors

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