



Building Inspections Department
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Standby Generator Permit Information Guide

**One permit to be applied for with the Plumber and Electrician listed on the permit.*

Current Adopted Codes:

- 2018 International Building Code (with regional amendments)
- 2018 International Fire Code (with regional amendments)
- 2018 International Residential Code (with regional amendments)
- 2023 National Electrical Code

Permit Application:

- Complete Building Permit Application.
- Electrical and plumbing contractors must register with the City and be listed on the permit application.

Plan Review/Permit Submittal:

Upload the completed Building Permit Application and items 1-3 into MyGov.

Residential- Use Project Template: Standby Generator/Battery Energy Storage System Permit (R)

Commercial- Use Project Template: Standby Generator/Battery Energy Storage System Permit (C)

1. **Site plan** - indicating the following information:
 - a. **Location on Property** – Where the generator will be located on the property.
 - b. **Location of Electrical Meter** – The location of the existing electrical meter and the main electrical panel.
 - c. **Location of Gas Meter** – (Natural Gas fuel-fired generator) the location of the gas meter must be shown.
2. **Gas Calculations** –fuel-fired generators may comply with the **Example** on page 2 **OR** provide complete gas calculations that include an isometric drawing.
3. **Generator Manufacturer’s specifications and Installation Manual**

NOTE: Use of propane tanks is not allowed where gas service is available to the lot. Where gas service is not available and a propane tank is utilized, a separate permit is required from the Royse City Fire Marshal’s Office.

Inspection Requirements

The following inspections are required for every generator project in the City of Royse City.

1. **Gas Test** – Where a fuel-fired generator is installed, all gas piping must be inspected before being covered. A pressure test is required on the entire gas system. Pressure tests shall comply with the following:
 - a. Where working pressure is greater than ½ p.s.i., an air test of at least 10 p.s.i. on a diaphragm gauge that has a set hand and has a maximum range of 20 p.s.i.
 - b. Where working pressure is less than ½ p.s.i. (required for CSST), an air test of at least 3 p.s.i. is required. The test must be performed on a diaphragm gauge that has a set hand and has a maximum range of 6 p.s.i.
2. **Electrical Underground** – (if applicable) all underground electrical shall be inspected prior to covering
3. **Electrical Final** - This inspection is required after all work is completed and prior to putting the generator into operation.

Acceptable Gas Piping Modifications for Existing Gas Services

Method proposed below in lieu of providing gas calculations

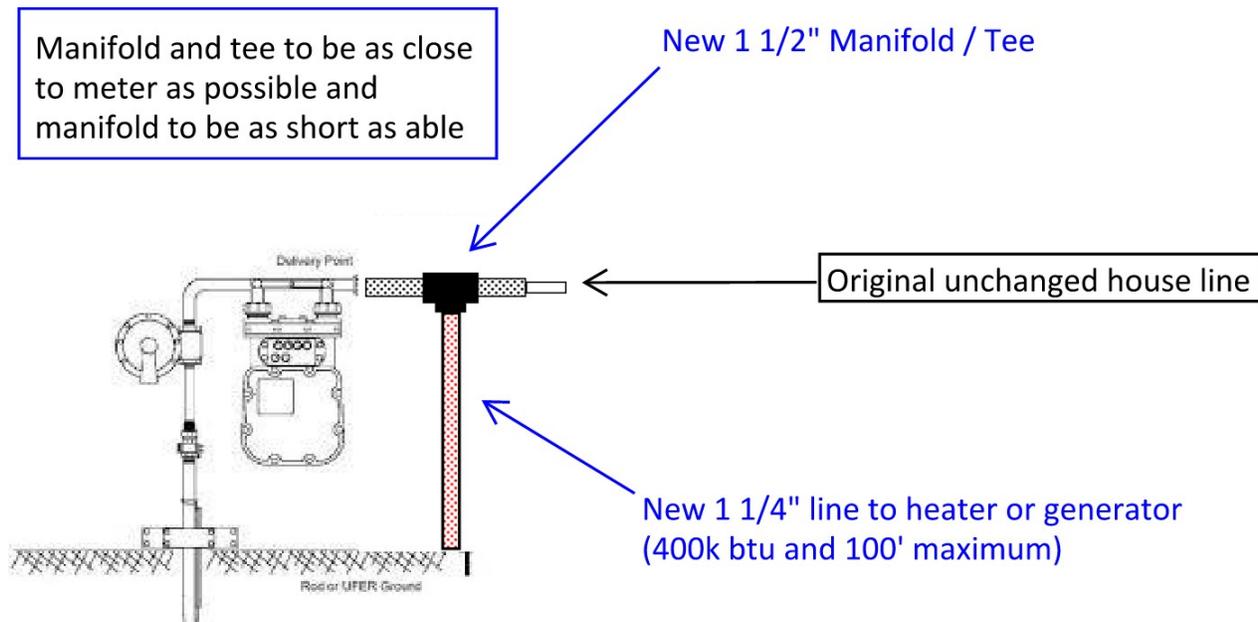
Intended application:

1. Addition of pool heater or standby generator up to 400k BTU, with an unchanged gas supply system within the existing home. Manifold system may serve only one additional 400k BTU load.
2. Method applies to Residential only—Commercial projects require full gas calculations

Conditions:

1. All piping required to be on test and inspected prior to placing system in service
2. Gas provider must be contacted and informed of total new gas demand to ensure appropriate cfm meter is present
3. Single additional load (Pool Heater OR Generator)
4. Maximum btu load -- 400k btu
5. Maximum Distance from meter 100 ft (measured piping)
6. Installation to comply with graphic example provided below (1.25" line to new load, 1.5" manifold/tee)
7. This is only one option. Multiple options exist to accomplish satisfactory code approved goals. If other options are utilized, (such as a pressure increase and regulators) or if these parameters can not be met (distance or btu limits), full gas calculations shall be provided for both the existing demand as well as the proposed demand.

Example:



Applicable Codes: 2018 IRC / 2018 IPC