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Guidelines for Proper Installation and Inspection for Residential Generators

The following are helpful guidelines for a proper generator installation in Hinds County. Compliance with these guidelines should help with the inspection process. PLEASE NOTE: This is not intended to be an all-inclusive installation/inspection document, referring to the National Electrical Code (NEC) for additional requirements. **For ALL generator permits in Hinds County the Mechanical/Gas must be completed prior to the electrical inspection.**

General Requirements:

Permits: A recorded deed, current utility bill, both the electrical and mechanical (gas) cost analysis of the job must be on the permit request prior to permit issuance.

Inspections: The inspections required are **1st Mechanical/Gas, 2nd Electrical Final** in that order. It is the responsibility of EACH contractor listed on the permit to call and schedule these inspections when each phase of the work is completed and ready for inspection. Submittal of required documentation does not constitute a request for inspection.

Final Generator Inspection

This final inspection will not be scheduled until the generator installation is complete, this includes both electrical and gas work.

Gas Piping: If gas line is to be tested as authorized by GS 143-139.3- *Installation of liquified petroleum gas piping systems for residential structures*, the field technician's report which includes the technicians' name, license number, temporary approval tag number on the field report must be submitted to the Permit Department prior to requesting an inspection. A test must be placed on the system for confirmation by the Inspector.

Natural Gas: Prior to requesting an inspection, a test must be placed on the system which will include technicians' name, start and end time of the test for confirmation.

Electrical/Final Inspection: An inspection of the meter base and transfer switch is conducted to ensure that the work was performed according to the scope of work submitted with the initial application.

The items below will be inspected as part of the generator inspection. Please have both the gas piping & electrical work ready for inspection on the day you have scheduled. This inspection will not be scheduled until all the following are completed and ready for inspection:

- Clearances to Combustibles: Generators are required to follow G2455.1 (NCFG 616.1) NFPA 37 and the manufacturer's installation instructions.
- Clearances from Openings: Generators are required to be placed in compliance with G2455.1 (NCFG 616.1) NFPA 37 and the manufacturer's installation instructions. Openings are defined as windows, doors, foundation vents and vents such as dryer, bathroom, kitchen hood exhaust. PLEASE NOTE: Clearance to combustibles distance does not supersede clearance to openings.
- Electrical underground shall comply with NEC T300.5
- Gas pipe underground shall comply with G2415.12 (NCFG 404.12), (NCFG 404.17)
- Gas pipe pressure shall be tested in accordance with G2417.4 (NCFG 406.4)
- Signage shall comply with NEC 702.7
- Gas piping bonding shall comply with NEC 250.104(3) (B)
- Sediment trap shall comply with G2419.4 (NCFG 408.4)
- Raceway subject to damage shall comply with NEC 300.5 (D)(4)
- Disconnecting means shall comply with NEC 702.12
- Automatic transfer equipment used as service equipment shall comply with NEC 702.5
- Insulated fittings shall comply with NEC 300.4 (G)
- Raceway securing and supporting shall comply with NEC 300.11
- Grouping of disconnects shall comply with NEC 230.72
- Sealing of raceways shall comply with NEC 300.7
- Grounds and neutrals shall comply with NEC 250.30 (B)(1)
- Generator equipment ground shall comply with NEC 250.66 or NEC 250.122 depending on installation.
- Generator installations using automatic transfer equipment as service equipment must comply with NEC 250.50
- Generator frame bonding shall comply with NEC 250.4 (A) (3)

**If you have any questions, please contact the Hinds County Permit Department
@ 601-355-5424**