



# REQUIRED GENERATOR DOCUMENTATION

**ZONING REQUIREMENTS:** Please check with Development Services' staff for setback requirements.

**GENERATOR:** Provide generator's model number with Kw rating and indicate type of fuel source (natural gas, propane, diesel, etc.).

Indicate if generator is portable or fixed. Portable generators require a listed cord and plug connection to building. Where the generator is connected to the load through a cord-and-plug, the receptacle shall be sized for the generator's overcurrent protection.

**LOAD CALCULATION:**

Provide a load calculation and size generator based upon the 2014 NEC. Feeder and service loads connected to generator shall be calculated in conformance with the generator manufacturer's specifications, Article 220 (standard or optional calculations), and Article 702.4 of the National Electrical Code.

When using automatic transfer switches and generator's output capacity is less than the electrical panel's main breaker's rated ampacity, a **load management system shall be required per Article 702.4(B)(2) NEC.**

**RISER DIAGRAM:** Provide an electrical riser diagram showing meter, electrical panel(s), transfer switch(s), main disconnect(s) and generator. Riser diagram shall indicate the following information:

- Conductor sizes, conductor material (copper or aluminum), and insulation type (THHN, THWN, direct burial cable, etc.)
- Conduit sizes and material (i.e., PVC, EMT, etc.) PVC conduit installed above ground shall be Schedule 80.
- Overcurrent device ratings

**TRANSFER SWITCHES:** Provide transfer switch's model number. Transfer Switches are required for all generators per NEC 702.5 and shall be rated for the connected load. If transfer switch is used as service equipment, then the manufacturer's specifications shall indicate this information.

Automatic Transfer Switches shall be sized based upon Article 702.4(B)(2) NEC.

Manual Transfer Switches shall be sized based upon Article 702.4(B)(1) NEC.

**SITE PLAN:** Site plan shall show the location of all equipment (electric meter, main service disconnection means, all panels, generator, transfer switch(s), air conditioning condensing units, etc.)

**Required signage:** Site plan shall indicate a sign or placard shall be placed at the service-entrance equipment showing location and type of generator per 2014 NEC Articles 230.2(E), 700.7, 701.7, and 702.7. This will be checked at inspection.

Site plan shall indicate all equipment shall be installed per manufactures' installation instructions and shall indicate these instructions shall be provided to the inspector for inspection.