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Effective 4/21/06

PERMANENT Residential Stand-By Generator Permitting Electrical Checklist

2002 National Electrical Code (NEC) Article 702
2005 National Electrical Code (NEC) Article 702 **Effective 11/01/06**

☐ **Site Drawing:**
Indicate generator and fuel tank locations.
Indicate location of all operable windows and operable doors near generator exhaust (Generator spacing from the building shall meet manufacturer's specifications from all openings and operable doors, including those in the neighbors house). The location of the generator shall conform to local zoning requirements and shall be mounted above the base flood level. elevation

☐ **Slab Drawing:**
Provide applicable structural plans. These plans shall indicate, ***as a minimum:***
A. Provide the size and depth of the slab and type of reinforcement use.
B. Provide generator anchoring details.

☐ **Electrical Riser Diagram:**
Provide electrical riser diagram. These plans shall indicate the service, panel(s), transfer switch(s), main disconnect(s), generator installation, overcurrent protection, grounding, conduit sizes and wire sizes.

☐ **Generator:**
A. Provide information for the generator showing KW rating, ampacity, voltage, phase, fuel source and dimensioning.
B. All loads connected to the generator shall be identified.
C. Provide load calculations for the generator. NEC Article 220 shall be used to calculate existing loads. Where the generator is connected to the load through a cord-and-plug ***(Exposed metal parts shall be non-current carrying.)***, the receptacle shall be sized for the corresponding overcurrent protection at the generator or other overcurrent protection device in front of the receptacle.
D. Generator shall be sized for the load served. NEC Article 220 shall be used to calculate the existing load.
E. Provide dbA sound ratings if required per local ordinance.

☐ **Transfer Switch:** Required for all generators shall be rated for the connected load.

☐ **Manual Transfer Switch:** (Options)
A. Sized for the intended load on the electrical service or
B. Sized for optional standby panel(s) which may be built into the panel(s) and transfer switch(s).

☐ **Automatic Transfer Switch:** (Options)
A. Size to transfer the entire load on the electrical service or
B. Pre-select the loads to be served with an optional standby panel and transfer switch or
C. Automatic load shedding equipment to reduce total load imposed on generator.

☐ **Sign:**
A. A permanent sign shall be placed at the electrical service entrance equipment that indicates the location of on-site optional standby power sources.
B. A permanent sign shall be placed at the transfer switch location indicating the sequence of operation to start the generator and transfer the electrical loads.