

## **2008 NEC Study Guide For “Grounding Separately Derived Systems”**

*(This Study Guide was prepared by Gaylord Poe)*

### **What is a “Separately Derived System”?**

NEC Art. 100 defines a Separately Derived System as “A premises wiring system whose power is derived from a source of electric energy or equipment other than a service. Such systems have no direct electrical connection, including a solidly connected grounded circuit conductor, to supply conductors originating in another system.”

### **Are all Generator & Transformer Installations Separately Derived Systems?**

- For **generator** installations, the connections in the transfer switch determine if a generator is a separately derived system. *(If the neutrals from the “normal” and the “emergency” and the “load” all tie together in the transfer switch the generator is not a separately derived system.)*
- For **transformer** installations, most premises wiring transformers that you encounter will be separately derived systems. *(The exception being a “Y-Y” transformer where the primary and secondary neutral conductors are tied together.)*

Determining whether or not an installation is a “separately derived system” is extremely important so that proper and safe system grounding can be achieved. For example, if a system is not separately derived, a downstream connection of a circuit conductor to a grounding electrode system will have disastrous results. Separately derived systems require a separate grounding electrode conductor and non-separately derived systems (generators and transformers with a direct neutral-to-neutral connection with the service) do not require a separate grounding electrode conductor because the neutrals **are already connected to a grounding electrode system** through the common neutral connection.

### **Grounding Separately Derived Systems –**

The rules for establishing the grounding electrode system for a separately derived system are very similar to the rules for the grounding of services. Some of the applicable code sections are listed at the end of this section.

Some of the similarities are: If there is a neutral\* (a grounded system) it must be bonded and grounded. It must be connected to a grounding electrode system via a grounding electrode conductor. This connection can be upstream but not downstream of the system overcurrent device. A system having no neutral (an ungrounded system), must also be connected to a grounding electrode system in like manner. The grounding electrode

# 2008 Nec Study Guide

**Brooke Stauffer, Paul Rosenberg**



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