

## Principles of Paralleling Switchgear

With the commercial availability of standby diesel generator sets rated up to 3,000 kW or more, it is common for many facilities to install a single large generator set to supply all the necessary power in the event of a utility outage. However, in a number of standby and emergency power applications, there are benefits to sharing the total load among multiple smaller generator sets, connected in parallel to maximize system reliability, availability, fuel economy and operational flexibility. Provided that the multiple generator sets are designed and installed properly, with special consideration given to adequate fault protection, smaller paralleled generator sets offer a number of operational and practical advantages over a single large generator set. In addition, the availability of easy-to-operate human-machine interfaces (HMI) and digital paralleling systems have eliminated most of the operational complexities of older analog systems. This presentation will explore the benefits of multi-generator power systems that are primarily designed for standby and emergency power applications.



Directions:

Physical Address: 4750 New Broad Street, Orlando FL, 32814

Parking: There is a big parking lot at the back of the building. You can enter the parking lot from "Chatfield PL". If you are coming from "New Broad St", do the following:

1. Make a right at the stop sign at the intersection of "Chatfield PL" and "New Broad St".
2. Take an immediate left to enter the parking lot.

The entrance of the building is off of "New Broad St" right across from Sun Trust bank.