

TECHNICAL TOUR

Tuesday Evening

March 18, 2008

Sponsored by:
Dave Wallach
Power Delivery Engineering
Duke Energy

Cowan's Ford Hydro Generation Facility

- **Cost: \$15 (for round-trip bus transportation), non-refundable. Advanced Registration is necessary.**
- **Limited Attendance.** The tour will be limited to the first 50 people to add the event to their on-line registration. On-line meeting registration, or changes to an existing meeting registration, can be made at www.transformerscommittee.org (go to "Next Meeting" page). Once successfully registered, you will receive email confirmation.
- **Spouses/Companions are welcome.** (Must indicate desire to attend using on-line registration)
- **Tickets will not be provided for this event. Admittance will be verified at the door of the bus.**
- **No cameras are allowed. No open-toed shoes. Wear comfortable shoes for walking on concrete or using stairs. No large bags/luggage are allowed. Ladies handbags are O.K.**
- **Participants should eat their evening meal before leaving Charlotte for this Technical Tour.**



Cowan's Ford Hydro Station, located near (and named for) a historic crossing (ford) of the Catawba River approximately 20 miles north of Charlotte, is the largest conventional hydro-electric facility on the Duke Energy – Carolinas system. When the Cowan's Ford dam was completed in 1963, it created Lake Norman, the largest man-made body of water in the Carolinas. The lake also serves the hydro-station's neighbor, McGuire Nuclear Station, and Duke Energy's Marshall Steam Station (at the upper end of the lake). Cowan's Ford Hydro-electric Station has served the Duke Energy system for more than 45 years, providing peaking power for hot summer days and cold winter mornings, as well as lake-level management and Catawba River flood control. The station is composed of four, 87.5 megawatts each, generating units and two, three-winding generator, step-up transformers (on the deck) which are connected to Duke's 230kV system.

(Please note that the installed security systems for this remotely-controlled hydro station will not allow viewing of the control room by the tour groups.)