AEP Submission of OGRR Titled CREZ Facility Protection and Control Requirements

AEP will submit an OGRR titled "CREZ Facility Protection and Control Requirements" to ERCOT. The draft is also being submitted to the SPWG for review prior to the meeting on the 19th and 20th of November.

The fundamental reason for this OGRR is to document the schemes and philosophy needed to adequately protect transmission systems with a high penetration of wind generators and series compensated lines.

The CREZ projects represent the largest single effort to date to create a dedicated transmission path for renewable sources. The fate of the future viability of wind generation on a grand scale could conceivably rest on the successful implementation of these projects.

These proposed changes must also be analyzed in light of the present operational environment. On 10/22/09 AEP experienced a single line to ground fault on the 345kV system that caused wind generation to be momentarily connected radially to a series compensated line. While attempting to ride through the fault many wind turbines sustained damage to their crowbar circuits. This scenario could easily be an example of what could occur on a CREZ line.

There is urgency to the adoption of the changes suggested in the OGRR since the initial CREZ projects are already in the design process.