**Winter Power Meeting Minutes – P1564**
**Riverial Hotel & Casino –1/28/03 – Royale Skybox 207, 10 - 12**

Dan Sabin, session chair for Mike & Math (could not attend)
Russ Ehrlich, Secretary

33 individuals in attendance

Past minutes on web site
Last draft of P1564 document updated Nov 2001

Dave Vannoy suggested using ieee.org to e-mail to keep in contact (go to ieee web site to register)

New committee structure shown all working groups under the new IEEE Power Quality Subcommittee

- Tom Gentile is the chair of the PQ Subcommittee. The vice chair is Mark Halpin. Dan Sabin is the secretary and webmaster. Its web site is http://grouper.ieee.org/groups/td/pq/.
- The PQ Subcommittee includes the following working groups
  - Working Group on Harmonics (IEEE Std 519)
  - Working Group on Voltage Quality (IEEE Std 1250)
  - Working Group on Monitoring Electric Power Quality (IEEE Std 1159)
  - Working Group on Recommended Practice for Evaluating Electric Power System Compatibility with Electronic Process Equipment (IEEE Std 1346)
  - Working Group on International Conference on Harmonics and Quality of Power (ICHQP)

We need to check on PAR expiration date of IEEE P1564 as it may need to get an extension soon.

New Co-Chair Discussions

- Distribution systems as well as end user type systems need to be represented(Co-Chairs)
- Marek Waclawiak, who is the new chair of the Working Group on Voltage Quality, suggested that we wait until P1250 could approve Dan Sabin as acting Co-Chair for P1564.
  - P1564 had no objections in task force to Dan Sabin being co-chair
  - P1250 Voltage Working group unanimously approved Dan Sabin as co-chair.
- Math will continue as IAS co-chair

Rao Thallam gave an update on Salt River Project's power quality monitoring program – Will provide an electronic copy so it can be posted.

- 4 years of data
- Monitors installed at substation location (dedicated/residential/commercial/industrial)
  - Wanted to get good cross section
  - Most at 12 kV substations
- Went through presentation
- What should be the voltage level(s) picked for a voltage event 90% matches IEC – Larry Conrad mention under IEC 61000-4 some acceptable voltage levels can go to 85%. Customers have the ability to have a continuous sag…
- Aggregation – each monitor has it's own data-aggregation only for each monitor taking
  - EPRI 1/5/10 min aggregation – 1 min presented w/DPQ results
  - Based on PML voltage sag/swell module
  - Most severe event criteria – how do you pick
- Used presently for performance of system
  - How do you explain to customers
  - Impact to customer = best correlation is SEI (Sag Energy Index)

- Is data used for company expenditures?  Presently results sent to other departments within the company for their review and dollar.

Discussion of Math's documents

- Weighting factors (Section 4.2)
- 30-40 Projects completed
- BGE & DPQ project were weighted
- 1564 should have weighting variables
  - Importance – Strata Variables
  - Comprehensive list should be developed
- 1250 weighted more towards customers (SAFI/CADI)

Breaking into Chapter groups postponed

Discussions on the Public Commissions was held

- Larry Morgan - SC will not put the additional cost of PQ monitoring into the rate base
- Marke W. – uses PQ data with internal departments & helps educate industrial customers.
- Andy Detloff – No economic incentives as customer go to choice. Will continue to monitor.

Document discussions

- Aggregation
- What's defined as a single event
- Many ways to come up w/attributes of an event
- Good agreement was reached on how to count events.

Cigre/Cired use SARFI method with lowest event.

- Be consistend so data can be compared

Needs

- A uniform set of rules
  - NEMA ½ cycle @ 50 or 60 HZ
- Recommendations for:
  - System Performance
  - How to handle customer problems

1159.1 Overlap – Reference & move data to 1564

**Action Items:**

- Dan volunteered to move document to the next step/level.
- Russ will update web site
- Need to check PAR expiration date
- Next meeting we will go through the document.

Adjourn