SUMMARY VITA- Gary L. Kobet, P.E.
Adjunct Faculty of Electrical Engineering

Education

Mississippi State University, Starkville	Electrical Engineering	M.S 1996
University of Alabama in Huntsville	Electrical Engineering	B.S. 1989:

Work Experience

Engineering Specialist February 2006 - Present
Transmission Reliability Engineering- TVA - Chattanooga, TN

- Analyze disturbances & prepare internal/external reports on TVA bulk transmission system, including post-fault and oscillation analysis, using fault recorder, relay target/event, and PMU data
- Develop operating guides for protection outages, advise system operators on protection schemes, review switching procedures to ensure adequate protection
- Perform generator and voltage stability studies of TVA and other utilities

Project Specialist July 1999 – January 2006:
System Protection - TVA - Chattanooga, TN

- Calculate/review relay setpoints for transmission line, power transformer, generator relay
- Recommended generator protection upgrade to modern microprocessor technology
- Support day-to-day power system operation by providing post-fault analysis

Power Quality Specialist January 1999 - July 1999
Quality - TVA - Chattanooga, TN

- Analyzed power quality events at two large steel mills (one for flicker, one transformer failure)
- Oversight of power quality monitoring program at TVA direct-served and non-TVA served customer stations

Transmission Maintenance Coordinator August 1997 - December 1998
TVA - Huntsville, AL

- Planning and scheduling the work of electrician, line, and technician crews for Transmission Service Center
- Planning and supervising the creation of a temporary three-terminal line during replacement of two 500-kV line breakers
- Planning and supervising the bypassing of a 230/161-kV switchyard for construction
- Performed ferroresonance study on a 13-kV ungrounded delta bus using EMTP

Engineering Unit Supervisor March 1995 - July 1997
TVA - Widows Creek Engineering Unit

- Responsible for assigning and reviewing the work of five engineers/technicians
- Ensure reliable transmission switchyard relaying operations, troubleshooting of generator protection/excitation systems
- Performed TRV studies of a major 500-kV switchyard using EMTP

Electrical Engineer December 1994 - February 1995
TVA - Protection & Analysis Section

- Calculated relay settings and performed system studies
- Performed EMTP studies on breaker TRV project

- Planned and supervised installation of ADCC/EMS remote terminal unit at as part of AGC project

Awards/Recognition

- 2004 Transmission/Power Supply Engineer-of-the-Year (internal TVA award, TPS level)
- 2004 TVA Engineer-of-the-Year
- Tau Beta Pi, Eta Kappa Nu, Phi Kappa Phi, 1988 Von Braun Scholarship, UAH

Professional Involvement

- Registered Professional Engineer in State of Alabama
- Senior Member, IEEE, Power Engineering Society (PES) (since August 2004)
- Member, IEEE-PES-Power System Relaying Committee (PSRC), including System Protection Subcommittee C, Rotating Machinery Subcommittee J, Line Protection Subcommittee D
- Member, NERC System Protection & Control Task Force (SPCTF), created after 8/14/2003 Blackout (June 2004-December 2006)

Technical Papers

1. "Improving Breaker TRV with EMTP Studies", with Hong-Ming Shuh, presented to 1996 Georgia Tech Protective Relaying Conference
2. "An Investigation of Ferroresonance on Transformer 13kV Ungrounded Tertiaries using the Electromagnetic Transients Program", presented to 1999 Georgia Tech Protective Relaying Conference, also to 2001 TVPPA Engineering & Operations Conference
3. "A Consideration of Inrush Restraint Methods in Transformer Differential Relays", with Russell Patterson and Walter McCannon, presented to 2000 Georgia Tech Protective Relaying Conference
4. "Visualizing Relay Loadability in the P-Q Plane", presented to 2001 Georgia Tech Protective Relaying Conference
5. "Analysis of Undervoltage Load Shedding Event at Philadelphia, Mississippi", with Meyer Kao, presented to 2004 Georgia Tech Fault & Disturbance Analysis Conference
6. "Relay Misoperation of Six 161kV Transmission Lines as Result of 8-25-2001 Johnsonville Bus Fault", submitted for consideration for 2005 Georgia Tech Protective Relaying Conference
7. "Widows Creek Disturbance - June 22, 2002 - Relaying Problems and Near-Misses", submitted for consideration for 2005 Georgia Tech Fault & Disturbance Analysis Conference