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Dear Osama:

**LIAISON REPORT FROM THE IEEE POWER SYSTEM RELAY
COMMITTEE TO THE ELECTRIC MACHINERY COMMITTEE**

The IEEE Power System Relay Committee (PSRC) convened three meetings in 2004 at locations away from the IEEE Annual Meeting. These meetings were convened in Tampa, FL (January 12-15, 2004), St. Louis, MO (May 17-20, 2004) and Portland, OR (September 13-16, 2004). The PSRC also met in San Diego, CA, from January 10-13, 2005. In accordance with my assignment as the liaison with the PSRC, I have prepared a report for presentation at the Electric Machinery Committee Meeting at the 2005 Annual Power Meeting in San Francisco, California. A copy is attached.

Upcoming meetings of the PSRC are as follows:

<u>Date</u>	<u>Location</u>
May 23-25, 2005	Columbus, OH
September 11-14, 2005	Calgary, Alberta, Canada
January 9-12, 2006	New Orleans, LA
May 2006	Albany, NY

Should you have any questions, do not hesitate to call me at (330) 482-9781 or e-mail me at nilsson@cboss.com

cc: W. Johnson (LASC Chair)
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Liaison-Power System Relay Committee

2004 LIAISON REPORT FROM
THE POWER SYSTEM RELAYING COMMITTEE TO
THE ELECTRIC MACHINERY COMMITTEE

The IEEE Power System Relay Committee (PSRC) convened meetings in January, May and September of 2004. The following items of interest to the Electric Machinery Committee (EMC) were noted and will update the EMC members on the activities of the PSRC.

- Subcommittee J, the Rotating Machinery Protection Subcommittee (RMPS) is chaired by S. P. Conrad and vice-chaired by W. G. Hartman.
- M. Yalla is chairing Working Group J4 of the RMPS which is revising C37.102, AC Generator Protection Guide. Draft 5 was circulated at the September 2004 meeting for comments. Major issues include the following:
 1. acceptable time delays and insulation coordination for overvoltage relaying
 2. explanation of the biased ground differential scheme
 3. use of reverse power relays on cross-compound units
- C. Mozina is chairing Working Group J5 of the RMPS which is preparing a paper on generator protection setting criteria. Draft 5 was reviewed at the WG meeting.
- Working Group J6 of the RMPS is also preparing a paper. This paper addresses generator protection during system disturbances. The paper has been accepted. NERC representatives at the WG meeting discussed the August 14, 2003, blackout and specifically noted the exception to NERC Rule 8a as it pertains to distance relaying on lines out of power plants based on generation limits rather than line thermal limits.
- Working Group J7 of the RMPS has been charged with revising C37.101, Generator Ground Protection Guide. The chair, Joe Uchiyama, is in Kabul, Afghanistan, and so the vice chair, Ratan Das, is working on reasons for a PAR extension. A number of topics are being reviewed, including high resistance grounding.
- J. Gardell is heading up a Task Force on Protection of variable frequency drive (VFD) motors. One of the topics under consideration is imbedded protection as compared to external protection added to the VFD power circuits. Some of the VFD manufacturers are objecting to additional external protection. Ed Owen of GE will be asked to participate in the work of this Task Force.

Respectfully submitted:

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Liaison from the Power System Relay Committee
May 22, 2005