

Carl Monroe
NERC Resources Subcommittee

Subject: Interconnection Frequency Performance

April 27, 2004



Dear Carl,

As you know, the average frequency error for the Eastern Interconnection increased substantially around the year 2000 and has continued to increase from that time. The table below illustrates the amount of energy a 10,000 MW Control Area was biased to under-generate each year in support of the Interconnection frequency based upon the 1% minimum bias requirement. The MISO Control Area Working Group (CAWG) is concerned of this trend as the MISO moves toward a single reliability-constrained economic dispatch at the end of this year.

2003	2002	2001	2000	1999	1998	1997	1996
-58,903	-40,665	-23,017	-24,639	-2,398	-3,338	-7,337	-6,632

The combined Inadvertent Interchange of the MISO Control Areas for 2003 was roughly -135,000 MWH, reflecting the diversity today of separate Control Area dispatch, frequency support, and repayment at times of Inadvertent Interchange among other factors. Contrasting 1996 to 2003, Control Areas are being required to provide an extraordinary level of frequency support to the Interconnection on an on-going basis, and are being put in the position of having to find the appropriate times to payback the Inadvertent Interchange accumulated or risk degradation of their control performance.

The CAWG asks that the Resources Subcommittee help provide an answer as to why the Interconnection is experiencing the frequency performance seen over the last few years and what solutions are being considered. The CAWG would appreciate if you could discuss the frequency performance at your meeting this week and provide a summary of your discussion back to the CAWG so that it can be reviewed at our next meeting.

Thank you,

Doug Hils

Control Area Working Group