

IEEE Working Group on State Estimation Algorithms (<http://www.ece.neu.edu/~abur/ieee/wg.html>)  
Power System Operations Subcommittee (<http://ewh.ieee.org/cmte/psoc/>)  
Meeting at the 2010 IEEE PES General Meeting

Venue: MCC- L100I, Minneapolis Convention Center, Minneapolis

Time: 08:00 – 09:00 hrs

Tuesday July 27, 2010

### Minutes

1. Opening remarks by Lamine Mili.
2. All the attendees introduced themselves. (25 attendees)
3. Patrick Panciatici presented a white paper on State Estimator.
4. Discussions
  1. Measurement correlation. Is measurement covariance matrix really diagonal?
  2. Combined use of state estimation and power flow (Djordje). Djordje mentioned that they use the results of the state estimator as initial condition for power flow.
  3. A discussion on why in ideal situation (error-free measurements) the results of power flow and state estimator should be same. Babic claimed that the state estimator is purely statistical while the power flow is defined by the Kirchhoff's Laws. Clemens and Stott replied to this allegation and reminded Babic that the measurement function in state estimator is also defined by Kirchhoff's Laws.
  4. Heated discussion on the performance and convergence of state estimators from different vendors.
  5. Discussion on whether there is a state estimator which deals with the equality and inequality constraints (Jacques). Stott replied that Vempati's software is an example.
  6. NDR gave an update about the Meeting of the Task Force on 'SE concepts and Terminology' on Wednesday and invited every one attend and participate.
  7. NDR reminded everyone about the panel on 'Experiences of using SE to identify parameter/model errors in control centers' on Thursday
  8. NDR proposed to organize a panel on 'Experiences of using pseudo measurements in SE in Control Centers' at the 2011 PES GM.
  9. The white paper will be updated and circulated by Dr. Mili

### Attendee List

	Name	Affiliation	E-mail
1	Lamine Mili	Virginia Tech	lmili@vt.edu
2	Sarma (NDR) Nuthalapati	ERCOT	ndrsarma@ieee.org
3	Narasimham Vempati	Nexant, Inc.	nvempati@nexant.com

4	Patrick Panciatici	??	??
5	Jacques Prevost	Hydro Quebec	prevost.jacques@ireq.ca
6	Djordje Atanackovic	BC Hydro	djordje.atanackovic@bchydro.com
7	Kevin Clements	Consultant	clements@wpi.edu
8	Brian Stott	Stott, Inc.	brianstott@ieee.org
9	Cansin Yaman Evrenosoğlu	University of Nevada Reno	cevrenosoğlu@unr.edu
10	Borivoje Babic	GRE	bbabic@greenergy.com
11	Bretas, N.G.	University of Sao Paulo	ngbretas@sc.usp.br
12	Joao Bosco A. London Jr.	University of Sao Paulo	jbalj@sc.usp.br
13	Raju Vinnakota	BC Hydro	veera.raju.vinnakota@bchydro.com
14	Davis Hwang	Alstom Grid	davis.huang@areva-td.com
15	Greg Dwernychuk	BC Hydro	greg.dwernychuk@bchydro.com
16	Kai Strunz	TU Berlin	kai.strunz@tu-berlin.de
17	Xiaodong Liu	NSTAR Electric & Gas	Xiaodong.liu@nstar.com
18	Karim Karoui	Tractebel Engineering	karim.karoui@gdfsuez.com
19	Jing Liu	PJM	liuj@pjm.com
20	Dan French	Siemens EA	dan.french@siemens.com
21	Robson C. Pines	Federal University of Itajuba	robson@unifei.edu.br
22	Madeleine Hedrano	University of Sao Paolo	Mcastelo29@usp.br
23	Saikat Chakrabarti	IIT Kaupur	saikatc@iitk.ac.in
24	Xiaoming Feng	ABB	Xiaoming.feng@us.abb.com
25	Sarika Khushalani-Solanki	West Virginia University	Sarika.khushalani- solanki@mail.wvu.edu