

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/>)

Task Force on 'SE Concepts and Terminologies'

**Objective of the Task Force**

Prepare a report which reviews the definitions and terminology used in the formulation of the state estimation problem and provided as part of commercially available state estimation software. Provide a recommended set of metrics with their detailed explanations that can be computed and made available by commercial software.

**Motivation**

Since its introduction in the 70s, power system static state estimation has received numerous technical contributions and has undergone substantial improvements. Various terms were coined by different contributors sometimes referring to similar concepts. Though most of the terms are well understood, there are some whose definition may not be agreed upon or clear, leading to misunderstanding of the concepts being conveyed by them. During the 2008 IEEE PES General Meeting held at Pittsburgh, the Working Group on State Estimation Algorithms decided to form a task force on 'SE Concepts and Terminologies' with an objective to create a consistent reference document that includes the set of definitions of various terms/concepts that are often used in the context of State Estimation. During the 2009 IEEE PES General Meeting held at Calgary, the working group discussed this and decided to move further in starting the activities for this task force.

**Organization of the task force:**

Chairman:	Dr. Ali Abur Northeastern University
Vice-Chairman:	Dr. Sarma (NDR) Nuthalapati ERCOT
Secretary:	To be decided
Members:	To be decided (To be pooled from experts from Vendors, Utilities, ISOs and Academics)

**Schedule:**

Constitution of the task force: January 2010

Preparation of the first draft of the report: July 2010.

- Circulation of 1<sup>st</sup> set of terms by April 2010
- The draft to be discussed during the Working Group meeting to be held at the 2010 IEEE PES General Meeting at Minneapolis, July 2010.

Preparation of Final report: July, 2011

- Circulation of final definitions of terms/concepts
- Report to be presented at the Working Group meeting to be held at the 2011 IEEE PES General Meeting at Detroit, July 2011.