

UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Improving Market and Planning Efficiency through
Improved Software

Docket No. AD10-12-000

NOTICE OF AGENDA AND PROCEDURES
FOR STAFF TECHNICAL CONFERENCE

(June 10, 2010)

This notice establishes the agenda and procedures for the staff technical conference to be held on June 23 and June 24, 2010 to discuss issues related to enhanced optimal power flow models and software. The technical conference will be held from 9:00 a.m. to 5:00 p.m. (EDT) on June 23, 2010, and from 9:00 a.m. to 3:30 p.m. (EDT) on June 24, 2010 at the Federal Energy Regulatory Commission, 888 First Street, NE, Washington, DC 20426, in the Commission Meeting Room. All interested persons are invited to attend, and registration is not required.

The agenda for this conference is attached. The presentations will be technical in nature, and the session times shown on the agenda include approximately 10 minutes for questions or discussion after each presentation. Equipment will be available for computer presentations. Presenters who wish to include comments, presentations, or handouts in the record for this proceeding should file their comments with the Commission. Comments may either be filed on paper or electronically via the eFiling link on the Commission's web site at <http://www.ferc.gov>.

A free webcast of this event is available through www.ferc.gov. Anyone with Internet access who desires to view this event can do so by navigating to www.ferc.gov's Calendar of Events and locating this event in the calendar. The event will contain a link to its webcast. The Capitol Connection provides technical support for the free webcasts. It also offers access to this event via television in the DC area and via phone bridge for a fee. If you have any questions, visit www.CapitolConnection.org or call (703) 993-3100.

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For further information about this conference, please contact:

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Kimberly D. Bose,
Secretary.

Agenda for AD10-12 Staff Technical Conference on Enhanced Power Flow Models
Federal Energy Regulatory Commission

Wednesday, June 23, 2010

9:00 AM Welcome and Introduction

Richard O'Neill, FERC

9:20 AM Session A

Rick Gonzales, New York ISO
Voltage and Reactive Management

Slava Maslennikov, ISO New England
Enhancement of Dispatch by Utilization of Adaptive Transmission Rates

10:30 AM Break

10:45 AM Session B

Andy Ott, PJM
Development of Enhanced Generation/Demand Response Control Algorithm

Vladimir Brandwajn and Show Chang, ABB
Optimal Power Flow in Energy Markets: Current Practices and Future
Directions

Noon Lunch

1:15 PM Session C

David Sun, Alstom
Challenges with Practical Usage of Large-Scale Optimal Power Flow

Herminio Pinto, Nexant
AC Optimal Power Flow for Day-Ahead Reactive Planning

2:25 PM Break

2:40 PM Session D

Marija Ilic, Carnegie Mellon University and NETSS, Inc.
Jeffrey Lang, Massachusetts Institute of Technology
NETSSWorks Software: An Extended AC Optimal Power Flow (AC XOPF)
for Managing Available System Resources

3:40 PM Break

3:50 PM Session E

Malcolm Metcalfe, Sempa Power Systems
Low-Cost Fast Regulation with Load-Based Regulation Services Network

Franz Franchetti, Carnegie Mellon University
Trends in High-Performance Computing for Power Grid Applications

5:00 PM Day 1 Conclusion

Richard O'Neill, FERC

Thursday, June 24, 2010

9:00 AM Day 2 Welcome

Richard O'Neill, FERC

9:20 AM Session F

Marija Ilic, Carnegie Mellon University and NETSS, Inc.
AC Optimal Power Flow and Smart Grids

Cong Liu, Argonne National Laboratory
Large-Scale Power Grid Simulation

10:30 AM Break

10:45 AM Session G

Sven Leyffer, Argonne National Laboratory
AC Networks and Mixed-Discrete Global Optimization

Srinivas Musunuri, AREVA T&D
Enhanced LP-Based Optimal Power Flow for Transmission Operations

Noon Lunch

1:15 PM Session H

Ray Zimmerman, Cornell University
SuperOPF Framework

Sandy Aivaliotis, The Valley Group
Dynamic Line Ratings

2:25 PM Break

2:40 PM Session I

Herminio Pinto, Nexant
Security-Constrained Economic Dispatch with Post-Contingency Corrective
Actions

3:15 PM Day 2 Conclusion

Richard O'Neill, FERC