



Federal Energy Regulatory Commission

Summer 2004 Reliability Workshop

Thursday, July 15, 2004
9:00 a.m. to 4:30 p.m.

Renaissance Cleveland Hotel
24 Public Square
Cleveland, Ohio

Agenda

9:00 a.m. **Opening Remarks**

Chairman Pat Wood, III, Federal Energy Regulatory Commission
The Honorable Bob Taft, Governor of Ohio
Chairman Alan R. Schriber, Public Utilities Commission of Ohio

9:20 a.m. **Preparations for Summer 2004**

Thomas C. Burgess, Director of Energy Delivery Restructuring,
FirstEnergy Service Company
*Improvements to grid operations and practices; implementation
of NERC recommendations*

Scott P. Moore, Vice President – Transmission Operations,
American Electric Power
Operations and summer preparation

Clair Moeller, Vice President, St. Paul Operations, Midwest ISO
Software, operations, communications

Karl V. Pfirrmann, President of the PJM Western Region,
*Integration of Commonwealth Edison and AEP, the common
market, operations and communication*

Van M. Wardlaw, Vice President of Electric System Operations,
Tennessee Valley Authority
Operations and preparation

Paul F. Barber, Ph.D. Facilitator, NERC Steering Group for the Blackout
Investigation
Blackout mitigation recommendations and implementation

Commissioner Donald L. Mason, Public Utilities Commission of Ohio
Vegetation management findings

Audience Participation

11:20 a.m. **Break**

11:40 a.m. **Midwest Infrastructure Issues (OH, MI, WI, IL, IN, KY, TN, WV)**

Jeff Wright, Chief, Energy Infrastructure Policy Group, Office of Energy
Projects, Federal Energy Regulatory Commission
Update on Midwest electric and gas infrastructure

Jeffrey R. Webb, Director of Planning, Midwest ISO
Midwest transmission planning, issues and prospects

Audience Participation

12:40 p.m. **Lunch Break**

2:00 p.m. **Longer-Term Reliability Issues**

Jimmy Glotfelty, Director, Office of Electric Transmission and Distribution,
Department of Energy

Implementation of blackout recommendations

David Cook, Vice President and General Counsel, North American Electric
Reliability Council

NERC reliability readiness audits

NERC reliability standards

State level actions – participating state regulators

Audience participation

3:00 p.m. **Closing Observations**

Discussion with FERC and State Regulators, DOE and audience

3:30 p.m. **Adjourn**

Speaker Biographies

Dr. Paul F. Barber of Barber Energy provides transmission and engineering expertise and consulting services to the electric power industry in areas of governance, strategic planning, electric grid management, and power system reliability. He is active in NERC activities at both council and regional levels developing structures and practices which strike the best balance between the needs for sound grid reliability and the needs for robust electric power markets. Dr. Barber provided leadership to the NERC August 14, 2003 Blackout Investigation and the NERC steering group for that effort. He currently serves as the Vice Chair (Transmission Customers) of the Northeast Power Coordinating Council (NPCC). In 2004 he completed a three-year term as the Chair of the Market Interface Committee of the North American Electric Reliability Council (NERC).

Nora Mead Brownell became a Commissioner of the Federal Energy Regulatory Commission in May, 2001, to a term that expires June 30, 2006. Prior to joining FERC, Ms. Brownell served as a member of the Pennsylvania Public Utilities Commission (PUC). During her tenure she took an active role in the rollout of electric choice in Pennsylvania. In addition to her work in establishing the framework for one of the most successful retail electric markets in the country, Ms. Brownell was a leader in the administration of Pennsylvania's Electric Choice Consumer Education Program. She has an extensive background in communications, marketing and corporate affairs that enabled her to effectively communicate the benefits of the program to community members. During Ms. Brownell's tenure at the Pennsylvania PUC she was one of the leaders in developing public policy to develop a robust competitive telecommunications market in the Commonwealth. Commissioner Brownell is the former President of the National Association of Regulatory Utility Commissioners (NARUC). She has served on the Boards of Times Publishing Company, Millennium Bank, Foundation of Architecture, Philadelphia Free Library, Need in Deed and the Philadelphia Regional Performing Arts Center.

Thomas C. Burgess is Director of Energy Delivery Structuring for FirstEnergy Service Company, a subsidiary of FirstEnergy Corp. He is responsible for overall transmission and industry structuring initiatives at FirstEnergy, including formulation of Company Strategy and policy regarding

transmission aspects of FirstEnergy and the former GPU within their respective transmission organizations. FirstEnergy merged with GPU in 2001. Mr. Burgess joined Ohio Edison—which merged in 1997 with Centerior Energy to form FirstEnergy—in 1974. He has extensive experience in operating, design, and planning electric systems. He serves as Vice Chairman of ECAR's Coordination Review Committee, current Chairman of PJM's Transmission Owner Agreement Administrative Committee, and recently served as the ECAR representative on NERC's Planning Committee. He also is an active participant in the Edison Electric Institute's Reliability Working Group and Transmission Policy Task Force, and other numerous industry groups and coalitions.

David Cook is Vice President and General Counsel for the North American Electric Reliability Council. He is currently working for passage of federal legislation that would make reliability standards mandatory and enforceable for all owners, operators and users of the bulk power system. Prior to joining NERC in 1999, he worked for the Federal Energy Regulatory Commission for 20 years, the last 10 as Deputy General Counsel. Mr. Cook was heavily involved in the Commission's restructuring efforts for both the natural gas and the electric industries.

Ronda Hartman Fergus was appointed Commissioner to the Ohio Public Utilities Commission in 1995, and reappointed by Governor Bob Taft in 2000 for a second five-year term. Ms. Fergus began her career with the PUCO in 1980 as an administrative law judge (ALJ) in the Legal Department. As an ALJ, she presided over quasi-judicial proceedings involving the regulation of telecommunications, water and sewer companies, including both consumer complaints and rulemaking proceedings. In 1985, Ms. Fergus was promoted to chief of the Telecommunications, Water and Sewer Section of the Legal Department. In her capacity as chief, she supervised and trained all the other attorneys in the section and presided over and advised the Commission on the most difficult and complex cases. In 1989, Ms. Fergus took on a new position created to assist and advise the Legal Director and the chairman of the PUCO on special telecommunications projects. In that position she was responsible for coordinating the implementation of alternative regulation legislation in the telecommunications area and for leading the industry-wide negotiations that resulted in the legislation that first provided lifeline telephone assistance for low-income Ohioans.

In 1991, Ms. Fergus was asked to head the PUCO's Telecommunications Division of the Utilities Department. She supervised a technical staff of 21 engineers, accountants and economists, while helping to engineer the massive public policy changes associated with competition in the local and long distance telephone markets.

Jimmy Glotfelty was appointed Director to the Department of Energy's Office of Electric Transmission and Distribution by U.S. Energy Secretary Spencer Abraham in August, 2003. Prior to this appointment, he served as Senior Policy Advisor to Secretary Abraham, providing policy advice concerning all electricity transmission and distribution issues and managing a \$100 million R&D portfolio in the same areas. He also was a senior leader in the implementation of President Bush's National Energy Policy. Mr. Glotfelty works closely with members of Congress, members of the FERC and other senior administration officials to ensure that competitive wholesale electric markets exist to benefit consumers. Prior to joining DOE, he served as Director of Government and Regulatory Affairs for Calpine Corporation's Central Region.

Joseph T. Kelliher became a Commissioner at the Federal Energy Regulatory Commission on November 20, 2003, after serving as Senior Policy Advisor to Secretary of Energy Spencer Abraham. In that capacity, he advised the Secretary on a wide range of energy policy matters. Mr. Kelliher helped develop the National Energy Policy. He had served as Senior Policy Advisor to the Secretary since the inauguration of President George W. Bush. Before joining DOE, Mr. Kelliher served on the Bush/Cheney Presidential Transition Team. Previously, Mr. Kelliher was of Counsel with the law firm of LeBoeuf, Lamb, Greene & MacRae. He served as Majority Counsel to the House Committee on Commerce from 1995 to 2000, where he was responsible for electricity, hydropower, conservation, nuclear waste, and other energy legislation. During 1991 to 1995, Mr. Kelliher represented Public Service Electric and Gas Company before the Congress on a wide range of energy legislation. Mr. Kelliher's term of office at FERC expires on June 30, 2007.

Suedeem G. Kelly is a Commissioner at the Federal Energy Regulatory Commission, holding a term that expires June 30, 2004. Previously she was a Professor of Law at the University of New Mexico School of Law, where she taught energy law, public utility regulation, administrative law and legislative process. She also worked with the law firm of Modrall,

Sperling, Roehl, Harris & Sisk in Albuquerque from 2000 through 2003. In 2000, Ms. Kelly served as counsel to the California Independent System Operator. In 1999, she worked as a Legislative Aide to U.S. Senator Jeff Bingaman. Prior to joining the faculty of the Law School, Ms. Kelly served as Chair of the New Mexico Public Service Commission, which regulated New Mexico's electric, gas and water utilities. She had been in a lawyer in the Office of the New Mexico Attorney General and with the New Mexico firm of Leubben, Hughes & Kelly.

Donald L. Mason was appointed Commissioner to The Public Utilities Commission of Ohio in February of 1998 and reappointed in March of 2003. Mr. Mason was appointed by U.S. Secretary of Energy Spencer Abraham to serve on the National Petroleum Council. He serves on the State of Ohio Security Task Force and was the coordinator of Ohio utility Y2K reliability efforts. Mr. Mason is vice-chairman of the National Association of Regulatory Utility Commissioners (NARUC) Gas committee and serves on the NARUC Ad Hoc Committee on Electric Restructuring and the Ad Hoc Committee on Critical Infrastructure. He also serves on the Gas Technology Institute's Public Interest Advisory Council. Prior to joining the Commission, Mr. Mason worked at the Ohio Department of Natural resources, where he was chief of the Division of Oil and Gas. In that capacity, he supervised the regulatory agency and developed environmental programs for the safe and healthy extraction of oil and gas resources, as well as the disposal activity of oil and gas by-products. He also served on the Hazardous Waste Facilities Board, which is affiliated with the Ohio Environmental Protection Agency in reviewing permits for hazardous waste storage sites in Ohio.

Clair Moeller, as Vice President of Midwest ISO's St. Paul Operations, is responsible for Midwest ISO's northwestern operations. He is a well-respected industry expert with more than 25 years of experience in the operation of power systems in the Midwest, particularly in the Upper Midwest. Prior to joining Midwest ISO on Jan. 5, 2004, Mr. Moeller was Director of Transmission System Operations at Xcel Energy.

Scott P. Moore has served as vice president – transmission operations for American Electric Power (AEP) since June 2000. Transmission operations is responsible for the safe, reliable, cost-effective and profitable operational management of AEP's transmission assets. Moore directs the development of policy, processes, procedures and systems to aid in

ensuring that AEP's transmission assets are operated in compliance with all applicable safety and reliability standards, contractual and tariff obligations, and all federal, state and local regulations and laws. His responsibilities include the development and implementation of normal and emergency operating procedures to maintain interconnected system security and integrity. He also provides input, direction and leadership on transmission operations matters for the transmission organization and others in AEP and in pertinent forums outside AEP, and acts as primary AEP transmission operations interface with regional transmission organizations, independent system operators, reliability organizations and customers.

Karl V. Pfirrmann, president of the PJM Western Region, has more than 32 years of experience in the electric utility industry. He develops, communicates and implements strategies that support the states and stakeholders in the western region and focuses on new members to PJM's existing service area. His knowledge of the power system and the region to PJM's west are instrumental in identifying and meeting the needs of western regional customers. Mr. Pfirrmann came to PJM in 2003 from Allegheny Power, where he was vice president of energy supply. His other leadership positions at Allegheny have been in transmission planning, system operations and energy procurement. He managed the integration of Allegheny's transmission system into PJM in 2002 and has worked closely with PJM management to develop PJM growth in Maryland, Virginia, West Virginia and Ohio.

Dr. Alan R. Schriber is Chairman of The Public Utilities Commission of Ohio. He was appointed Chairman by Governor Bob Taft in April 1999 and reappointed in March 2004. He also served as a PUCO Commissioner from 1983-89. As Chairman, Dr. Schriber heads a 400-person agency and, along with four other commissioners, oversees the regulation of electric, natural gas, telecommunications, commercial transportation, and water utilities in the state of Ohio. Dr. Schriber is also Chairman of Ohio's 11-member Power Siting Board and chairs the Ohio Federal Energy Policy Group. He also serves on the United States-Canada Power Outage Task Force charged with investigating the causes behind the August 2003 blackout that affected parts of Ohio and the northeastern United States. Dr. Schriber was appointed to the National Association of Regulatory Utility Commissioners (NARUC) Telecommunications Committee and asked to serve on the National Governor's Association

Electricity Task Force. He was also appointed to the State of Ohio Security Task Force by Governor Taft in September 2001.

Bob Taft is Governor of the state Ohio. Since being sworn in as Ohio's 67th Governor on January 11, 1999, Mr. Taft has focused on attracting new, high-paying jobs to the state, positioning Ohio as a leader in the knowledge economy, rebuilding Ohio's schools, enabling children to succeed, improving services for seniors, and restoring cities and rural communities. He was elected to his second term as Governor in November 2002. The *Third Frontier Project* is Governor Taft's job creation program to expand Ohio's high-tech research capabilities and promote start-up companies to create high-paying jobs for generations to come. Governor Taft began his career in public service as a volunteer for the Peace Corps in East Africa. He has served Ohioans as a member of the Ohio House of Representatives, as a Hamilton County Commissioner and as Ohio's Secretary of State – the chief elections office.

Van M. Wardlaw is Vice President of Electric System Operations for the Tennessee Valley Authority (TVA). In this role he is responsible for real-time operation of TVA's generating units and transmission system. Based in TVA's System Operations Center in downtown Chattanooga, his job simply stated is to "keep the lights on." Mr. Wardlaw has 20 years' experience in the electric utility industry, and has worked in all aspects of transmission as well as power supply and customer service.

Jeffrey R. Webb is Director of Planning for the Midwest Independent System Operator. Before joining MISO he held various planning positions, including Manager of Transmission Planning, with Commonwealth Edison, between 1976 and 2000. He is a long-time member of the NERC Planning Standards Subcommittee, and is a present member of the NERC Planning Committee, representing the RTO sector. Mr. Webb joined MISO in 2000, and is responsible for the RTO planning function that includes evaluations of requests for long-term transmission delivery service, requests for generation interconnection service, and development of regional expansion plans.

Patrick Henry Wood, III, is Chairman of the Federal Energy Regulatory Commission, the independent regulator of the nation's wholesale electric power industry, natural gas, oil and refined products pipelines and its hydroelectric facilities. Mr. Wood is the longest-serving appointee

of George W. Bush, having been named by him to the Public Utility Commission of Texas in February 1995 to regulate the state's telecommunications and power industries. Mr. Wood served as Chairman of that Commission until joining the FERC in June 2001. A native of Port Arthur, Texas, Mr. Wood received a B.S. in Civil Engineering from Texas A&M University and a J.D. from Harvard Law School. He has worked as an engineer with Arco Indonesia and as an attorney with the Baker & Botts law firm in Washington, DC. He also served as legal advisor to Federal Energy Regulatory Commissioner Jerry Langdon and as legal counsel to Texas Railroad Commissioner Barry Williamson.

Jeff Wright is Chief, Energy Infrastructure Policy Group, Office of Energy Projects at the Federal Energy Regulatory Commission (FERC). During his 25-year tenure at FERC, Mr. Wright has served as project manager on many construction projects involving new pipelines and the expansion of existing pipelines, primarily in the Northeast and Midwest. He has served on the faculty of the NARUC Annual Regulatory Studies Programs since 1998. Mr. Wright has also spoken on infrastructure topics at conferences in the U.S., Mexico and Canada. He has organized and participated in FERC's regional energy infrastructure conferences in the Northeast, Southeast, Midwest and West.

Anticipated Attendees:

Ghassan Ali	Cleveland Water Department
Gerald Arnason	Manitoba Hydro
Al Anthony	Cleveland Public Power
Paul F. Barber	Barber Energy/NERC
Kim Bojko	Office of the Ohio Consumers Counsel
William Bokram	Michigan Public Service Commission
Chris Booth	Experienced Consultants, LLC
Steve Brennen	Public Utilities Commission of Ohio
Nora Brownell, Commissioner	Federal Energy Regulatory Commission
Jennifer Budd	Northeast Power Coordinating Council
Thomas C. Burgess	FirstEnergy Service Company
Arla Cahill	Public Utilities Commission of Ohio
Peggy Claytor	The Timken Company
Bart Connolly	Ohio Governor Bob Taft's Office
Ellen Cavanaugh	Exelon Energy Delivery
Patrick Clarey	Federal Energy Regulatory Commission
David Cook	North American Electric Reliability Council
Randall Corbin	Office of the Ohio Consumers Counsel
Jason Cross	Public Utilities Commission of Ohio
Carol Dacoros	FirstEnergy
J. Robert "Bob" Dalrymple	Tennessee Valley Authority
Joel deJesus	National Grid USA
Les Dillahunty	Southwest Power Pool
Jim Downie	Xcel Energy
George Dunn	New York Power Authority
David Dworzak	Edison Electric Institute
Sherman Elliott	Midwest ISO
Saeed Farokhpay	Federal Energy Regulatory Commission
Ronda Hartman Fergus, Comm.	Public Utilities Commission of Ohio
Pat Frazier	American Municipal Power – Ohio, Inc.
Jim Gallagher	New York State Public Service Commission
Jimmy Glotfelty	Department of Energy
Deborah Gnann	Public Utilities Commission of Ohio
Mark David Goss, Chairman	Kentucky Public Service Commission
Gregory Harman	Public Utilities Commission of Ohio
Bruce Hayes	Office of the Ohio Consumers Counsel
Fred Heizer	Public Utilities Commission of Ohio
Kevin Holtsberry	Public Utilities Commission of Ohio

Michael Iswalt	Public Utilities Commission of Ohio
Susan Ivey	Exelon Corporation
Ronald "Ron" Jackups	Cinergy
Lawrence Jones	AREVA T&D
Joseph Kelliher, Commissioner	Federal Energy Regulatory Commission
Suedeem Kelly, Commissioner	Federal Energy Regulatory Commission
Majid Khan	Public Utilities Commission of Ohio
Mansoor Khan	Integrated System Planning Associates
Jill Kocher	Public Utilities Commission of Ohio
Taku Kopp	Procter & Gamble
Michael Kovach	Linde Gas LLC
Arthur Kremer	Long Island Power Authority
Baldwin Lam	Shaw Power Technologies, Inc.
Daniel Larcamp	Federal Energy Regulatory Commission
Bryan Lee	Federal Energy Regulatory Commission
James Majer	Cleveland Public Power
Alex Margevicius	Cleveland Water Department
Donald L. Mason, Commissioner	Public Utilities Commission of Ohio
Doris McCarter	Public Utilities Commission of Ohio
Sarah McKinley	Federal Energy Regulatory Commission
Michael McLaughlin	Federal Energy Regulatory Commission
Janine Migden-Ostrander	Office of the Ohio Consumers Counsel
Maureen Miller	Office of the Ohio Consumers Counsel
LeeAnne Mizer	Ohio Governor Bob Taft's Office
Clair Moeller	Midwest ISO
Scott P. Moore	American Electric Power
Donald Morrow	American Transmission Co. (ATC)
Timothy Mosher	Kentucky Power
John Neforos	Cleveland Public Power
Susan Norton	City of Cleveland Law Department
Patrick O'Connor	Tennessee Valley Authority
Mary O'Driscoll	Greenwire
James Pederson	Federal Energy Regulatory Commission
Tony Petrella	Ontario Power Generation
Karl V. Pfirmann	PJM Interconnection, Western Region
Elaine Ragazzo	Mercer Consulting
Clarence Rogers	Public Utilities Commission of Ohio
Jim Samuel	Ohio Governor Bob Taft's Office
Shaahid Sarwar	Cleveland Water Department
Carol Scandridge	The Timken Company
Christine Schmidt	Federal Energy Regulatory Commission

Alan R. Schriber, Chairman
Richard Schultz
Eric Sedina
Charles Sheppard
Alison Silverstein
Tom Smith
Ronald "Ron" Snead
Andrew Stanbury
Dennis Stapleton
John Stough
Kerry Stroup
Bob Taft, Governor
Gregory Troxell
Thomas VanGalio
Frank Venhuizen
Richard Verret
David Wang
Van W. Wardlaw
Donald Watkins
Jeffrey R. Webb
Charles Wells
David Whiteley
John Williams
John Winter
Kim Wissman
Pat Wood, Chairman
Jeff Wright
Guorui Zhang
William Zigli

Public Utilities Commission of Ohio
International Transmission Co.
KEMA
Exelon
Federal Energy Regulatory Commission
Cleveland Public Power
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Midwest ISO
OSIsoft
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