

Wisconsin System Operators (WSO) Spring Program—2006

DATES

Session 1—May 1-4, 2006

Session 2—May 15-18, 2006

Session 3—May 22-25, 2006

LOCATION

Park Plaza

One North Main Street

Oshkosh

CONTINUING EDUCATION HOURS

The American Transmission Company is an approved provider of North American Electric Reliability Council (NERC) Continuing Education Hours (CEHs). CEHs will be awarded to those who attain a minimum of 70 percent on the course examinations as well as meet the course attendance requirements, including daily sign in. The course is expected to provide approximately 20 hours of CEHs and 19 emergency training hours.

AGENDA

Day 1

(0930—Registration)

1000—Welcome/Standards of Conduct and Anti-Trust Guidelines

Pat McMahan, Training and Compliance Project Manager, American Transmission Company

1020—Midwest ISO—Focus on Reliability

David Zwergel, Director, Regional Operations, Midwest ISO (Sessions 1 and 2)

Kevin Sherd, Technical Lead-Reliability Coordination, Midwest ISO (Session 3)

This session will provide a high-level overview of the MISO organization, including the roles and responsibilities of MISO staff; its operating plan; how MISO interacts/coordinates with local distribution companies (LDCs) and other energy entities; how MISO Operations relates to the Open Energy Markets; and how MISO defines and implements normal, abnormal and emergency operating procedures.

1200—Lunch

1300—(continue MISO discussion)

1415—Break

1430—Understanding the Regulatory Environment

Jim Maenner, Manager-Energy Delivery Operations, Wisconsin Public Service Corporation

This session will provide a historical and current overview of the events, legislation and regulations shaping today's transmission utility industry. The session will focus on the NERC reliability standards and describe the relationship among the Midwest Reliability Organization (MRO), Reliability First Council (RFC), and Wisconsin electric utilities.

1630—Test

1700—End to first day

Day 2

0800—Welcome and Open Forum

Pat McMahan, American Transmission Company

0815—“Keeping the Wheels on the Bus”—Managing Wisconsin’s Bulk Power System

Dale Zahn, Project Manager-Electric System Operations, We Energies
Mike Zahorik, Manager-System Operations, American Transmission Company

This presentation will provide a review of some past real and potential transmission events, including how these events were detected and/or

predicted. The presenters will discuss in general terms the process and plans used to resolve these types of events; they will also discuss the roles and relationships during the events among the MISO, ATC, Balancing Authorities, marketers, generator Operators, power plant Operators, customers, state commissions, federal agencies (DOE, NERC, FERC, NRC), local media, etc.

1000—Break

1015—“Putting the Wheels Back on the Bus”—Managing Wisconsin’s Bulk Power System During Abnormal/Emergency Situations

Francis Esselman, Transmission Reliability Project Manager, American Transmission Company

Neil Hermus, Superintendent-Distribution Operations Center, Wisconsin Public Service Corporation

Plus others

This session, to last the balance of the day, will focus on the Operator’s response and analysis of degrading system conditions. Using predetermined scenarios and working in teams, the participants will respond to and evaluate a string of worsening events. The exercises will incorporate accountability (roles and functions of the various energy entities), technical issues (such as ratings and voltage limits), proper communication protocols (both internal and external) and procedural issues.

1700—End to second day

Day 3

0800—Welcome and Open Forum

Pat McMahan, American Transmission Company

0815—“Finding the Wheels to the Bus”—Recreating a Blackstart Island

Francis Esselman, American Transmission Company

Neil Hermus, Wisconsin Public Service Corporation

Using simulator technology, this session will provide a basic demonstration of the process WPS, ATC, and others would use to create a Blackstart island in the event of a total power blackout.

1000--Break

1015—Voltage Collapse

Edina Bajrektarevic, Operations Engineer, American Transmission Company

Voltage instability and collapse are due to a variety of causes but mainly to small, gradual changes (such as a natural increase in system load), or large, sudden disturbances (such as loss of a generating unit or a heavily loaded line), resulting in the system's inability to meet its reactive power requirements. This session will look at the various mechanisms involved and the tools used to provide for an adequate analysis of the reactive compensation system.

1200--Lunch

1300—Emergency Operations Simulation Exercises

Tim Walkowski, Dispatch Training Simulator (DTS) Instructor, American Transmission Company

Using selected EPRI Operator Training Simulator (OTS) modules, participants will have the opportunity through hands-on participation to learn more about voltage collapse issues and emergency operations for MVA overloads (load shedding/voltage issues).

1430—Break

1445—(continue EPRI OTS exercises)

1630—Test

1700—End of day

Day 4

0800—Welcome and Open Forum

Pat McMahan, American Transmission Company

0815—Update on NERC CEH Program

Bobbi Welch, Manager-Operations Support, American Transmission Company (Session 1)

Robert Pettijohn, System Control Operator, American Transmission Company (Sessions 2 and 3)

This segment of the program will provide an update to NERC's CEH program, including background and mechanics to the program, transition plans, etc.

0915—Break

0930—“Making a Better Wheel”—Lessons Learned

Rick Stegehuis, Power System Supervisor, We Energies (Sessions 1 and 2)

Darrel Yohnk, Assistant Manager-Pewaukee Control Center, American Transmission Company (Sessions 1, 2, and 3)

Bill Hoesly, Assistant Manager-Cottage Grove Control Center, American Transmission Company (Sessions 2 and 3)

This session will profile major events to the transmission system and the actions taken to resolve them. Some of the events will include a discussion of the Silver Lake dam break that occurred in the Spring of 2003 in the UP, tower collapse near Mitchell Airport, etc.

1130—Test

1200—End of session

(Desktop/WSO Spring Session-2006-Agenda.doc)