PJM Event Investigation Process (EIP) & NERC EAWG

TOA-AC Meeting
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Overview

• Background
• 2010 EIP Events
• NERC EAWG Process
• PJM Manual 13 EIP proposals
• PJM Low Frequency Event – March 18, 2010
• PJM EMS Failure – May 28, 2010
• PJM / AEP – Kenzie Creek – June 23, 2010
• PJM / DOM – Spin Event – November 8, 2010
• NERC Staff identifies need to evaluate (FERC influenced) Bulk Electric System “events of interest”
• NERC Operating and Planning Committees identify need to document and share lessons learned
• NERC Event Analysis Working Group is formed
• ERO Event Analysis Process is introduced
• Trial Period Commenced on October 25, 2010
• Appendix A of the "Electric Reliability Organization Event Analysis Process-October 1, 2010" Defines the Event Categories
• Appendix B of the “Electric Reliability Organization Event Analysis Process-October 1, 2010” Provides a Downloadable Reporting Form
• Need to Address Potential Compliance Implications

• Registered Entities Will Be Encouraged to Establish a “liaison” Between the Event Analysis and Compliance Functions Internal to the Registered Entity

• Perform a Sufficiency Review of the Reliability Standards Deemed Applicable to the Event
  – Appendix G of the “Electric Reliability Organization Event Analysis Process-October 1, 2010” Suggests a Template

• Controversial part of the program
NERC EAWG – Goals of Event Analysis Program

• Promote BPS Reliability
  – Emphasis directed toward proactive improvement of bulk power system reliability

• Enhance Culture of Reliability Excellence
  – Promotes and rewards aggressive self-critical review

• Fosters Collaboration within the Industry
  – Registered entities, Regional Entities (RE), and NERC work together

• Fosters a Learning Organization
  – Providing insight and guidance by identifying and disseminating valuable information to owners, operators, and users of the bulk power system that enable improved, enhanced, and more reliable operation
✓ Identify what transpired – facts, sequence of events;

✓ Understand the causes of events;

✓ Identify and ensure timely implementation of corrective actions;

✓ Develop and disseminate recommendations and valuable lessons learned

✓ Feed forward results to other NERC programs (reliability initiatives, metrics development, standards development, compliance)

✓ Identify and analyze trends
NERC EAWG – Who does what?

Registered Entities
- Report Events To Regional Entities
- Analyze Events
- Develop Lessons Learned
- Conduct Compliance Self-Assessment

Regional Entity
- Review Reports
- Provide feedback and guidance
- Interact with NERC and other REs to maintain consistency

NERC
- Track events and timelines
- Provide insight and oversight
- Disseminate final lessons learned
• Began on October 25
• Thru November 30
  – 5 of 8 regions have had events
  – 17 events in total
    • 4 – Category 1
    • 6 – Category 2
    • 2 – Category 3
    • 2 – yet to be Categorized
    • 3 – Category 0
• January 2011 – Adjust Process
• November 2011 – Incorporate into NERC Rules of Procedure
• PJM M13 predates NERC Standards and EAWG
• Reportable categories:
  – EAWG
  – EOP-004
• Some level of overlap in categories of reporting & analysis
• Open sharing environment likely needs “adjusting”
• Proposing updating M13 process once NERC EA process is added to NERC rules of Procedures at the end of the year.