



PJM Event Investigation Process (EIP) & NERC EAWG

TOA-AC Meeting
February 24, 2011
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- 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

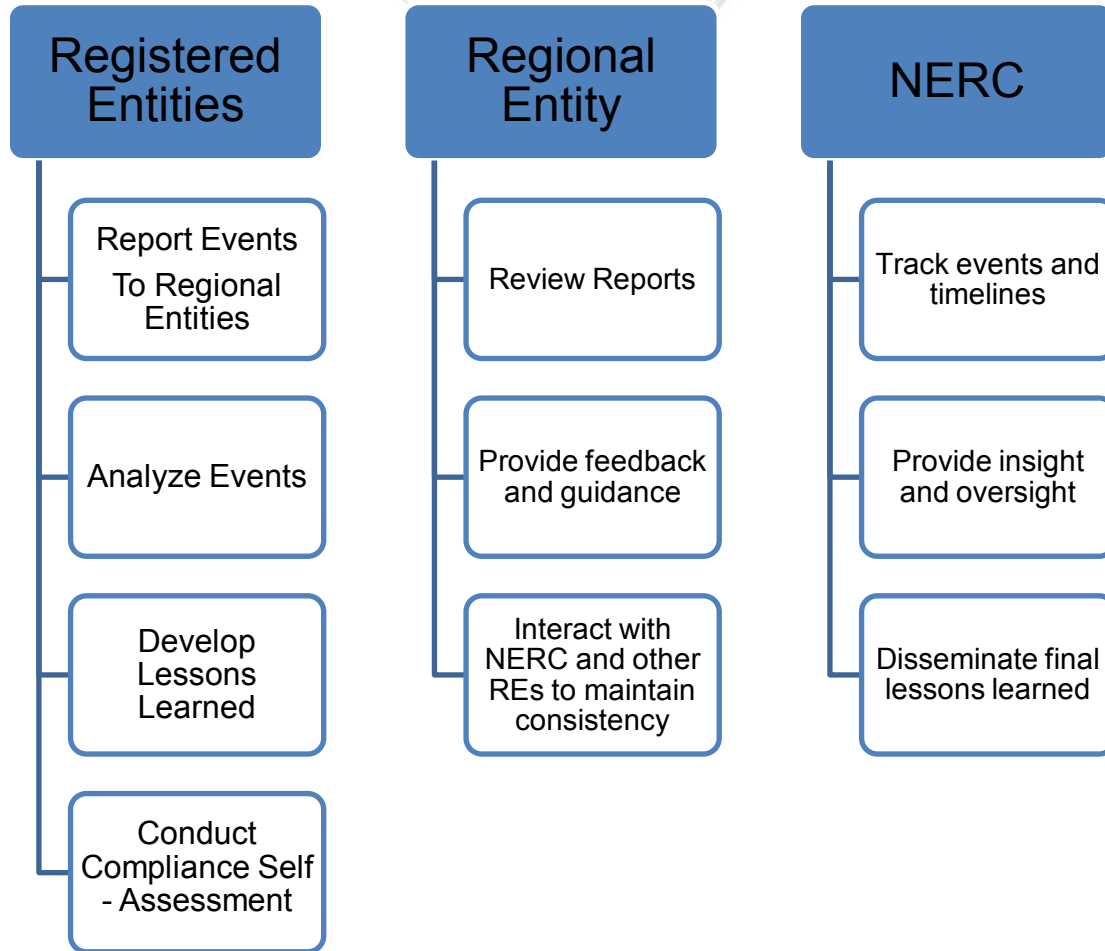
- NERC Staff identifies need to evaluate (FERC influenced) Bulk Electric System “events of interest”
- NERC Operating and Planning Committees identify need to document and share lessons learned
- NERC Event Analysis Working Group is formed
- ERO Event Analysis Process is introduced

- 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
- <http://www.nerc.com/filez/eawg.html>

- 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

- **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



- 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.