

2008 Summer Electric Reliability Meeting

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Topics

- NERC Emergency Alerts
- PJM Emergency Procedures
- NERC 2008 Summer Reliability Assessment

NERC Energy Emergency Alerts (EEA's)

- Reliability Standard EOP-002-02 under Emergency Preparedness and Operations
- Issued by the Security Coordinator for capacity and energy shortages
- Three levels:
 - common terminology for Security Coordinators
 - levels declared in necessary order, need not proceed sequentially

NERC EEA Level 1 – All available resources in use

- Issued when a Control Area “foresees or is experiencing conditions where all available resources are committed to meet firm load, firm transactions, and reserve commitments, and is concerned about sustaining its required Operating Reserves, and non firm wholesale energy sales have been curtailed”
- Example: PJM issues an EEA Level 1 at Max Emergency Generation Alert (6/8/08 for 6/9/08)

NERC EEA Level 2 – Load management procedures in effect

- Issued when a Control Area “foresees or has implemented procedures up to, but excluding, interruption of firm load commitments”
- Procedures may include, but are not limited to:
 - public appeals to reduce demand,
 - voltage reduction,
 - interruption of non-firm end use loads,
 - demand-side management

NERC EEA Level 3 – Firm load interruption imminent or in progress

- Issued when a Control Area “foresees or has implemented firm load obligation interruption”
- Prior to declaring:
 - all generation on-line, regardless of cost,
 - all purchases made, regardless of cost,
 - all non-firm sales recalled,
 - all contractually interruptible load recalled

PJM Emergency Procedures

- Alerts (Capacity Shortage)
 - Maximum Emergency Generation Alert
 - Primary Reserve Alert
 - Voltage Reduction Alert
 - Voluntary Customer Load Curtailment Alert

PJM Emergency Procedures

- Warnings (Capacity Shortage)
 - Primary Reserve Warning
 - Voltage Reduction Warning
 - Manual Load Dump Warning

PJM Emergency Procedures

- Actions (Capacity Shortage)
 - Maximum Emergency Generation
 - Load Reduction Program (PJM)
 - Load Management (Companies)
 - Voltage Reduction / Curtailment of Non- Essential Load
 - Voluntary Customer Load Curtailment
 - Manual Load Dump

PJM Public / Media Notification Messages (Hot Weather)

- Pre-H1: "It's going to be hot"
- H1: advisory and conservation tips
- H2: warning and conservation tips
- H3: warning prior to voltage reduction
- H4: emergency message before controlled interruptions

NERC 2008 Summer Reliability Assessment

- Key Findings:
 - Capacity
 - Fuel
 - Demand Response
 - Wind Resources
- Long term 10 year assessment to be released in October

Conclusion

Sign at the electric company:

"We will be delighted if you send in your bill. However, if you don't, you will be."