

Grid Reliability

Federal Energy Regulatory Commission
and Nuclear Regulatory Commission

January 23, 2007

NERC
NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Key Initiatives

- Transmission needs for new nuclear units
- Implementing blackout recommendations
- Off-site power reliability standard
- Coordination with NRC

Transmission Needs

- Need thorough studies - Can't just "plug and play"
- Transmission lagging demand and capacity growth
- Increased congestion effects
 - Supply adequacy
 - Energy security
 - Economy
- Transmission planning horizon 5 years or less, but takes longer to permit
- Big question is "who pays?"

Implementing Blackout Recommendations

- New standards
- Vegetation outage reporting
- Compliance enforcement
- Readiness evaluations
- Operator training
- Protective relay reviews
- System modeling

Offsite Power Reliability Standards

- Coordination between nuclear plant and transmission operators
- Ensure safe operation and shutdown
- Ballot in April
- Board approval in May
- Implementation 18 months after FERC approval

Coordination with NRC

- NRC-NERC MOA
- Basic agreement signed August 2004
- Coordination plans signed in May 2005
 - Communication during emergencies
 - Event analyses
 - Exchange of operational experience
 - Participation in NERC committees

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