

# Grid Reliability

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Federal Energy Regulatory Commission  
and Nuclear Regulatory Commission  
January 23, 2007

# Key Initiatives

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

# Transmission Needs

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- 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

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

# Offsite Power Reliability Standards

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- 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

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- 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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