

**RIC 2004 – Grid Stability**  
**Session W4 – March 10, 2004**

**Transmission Planning  
& Operations**

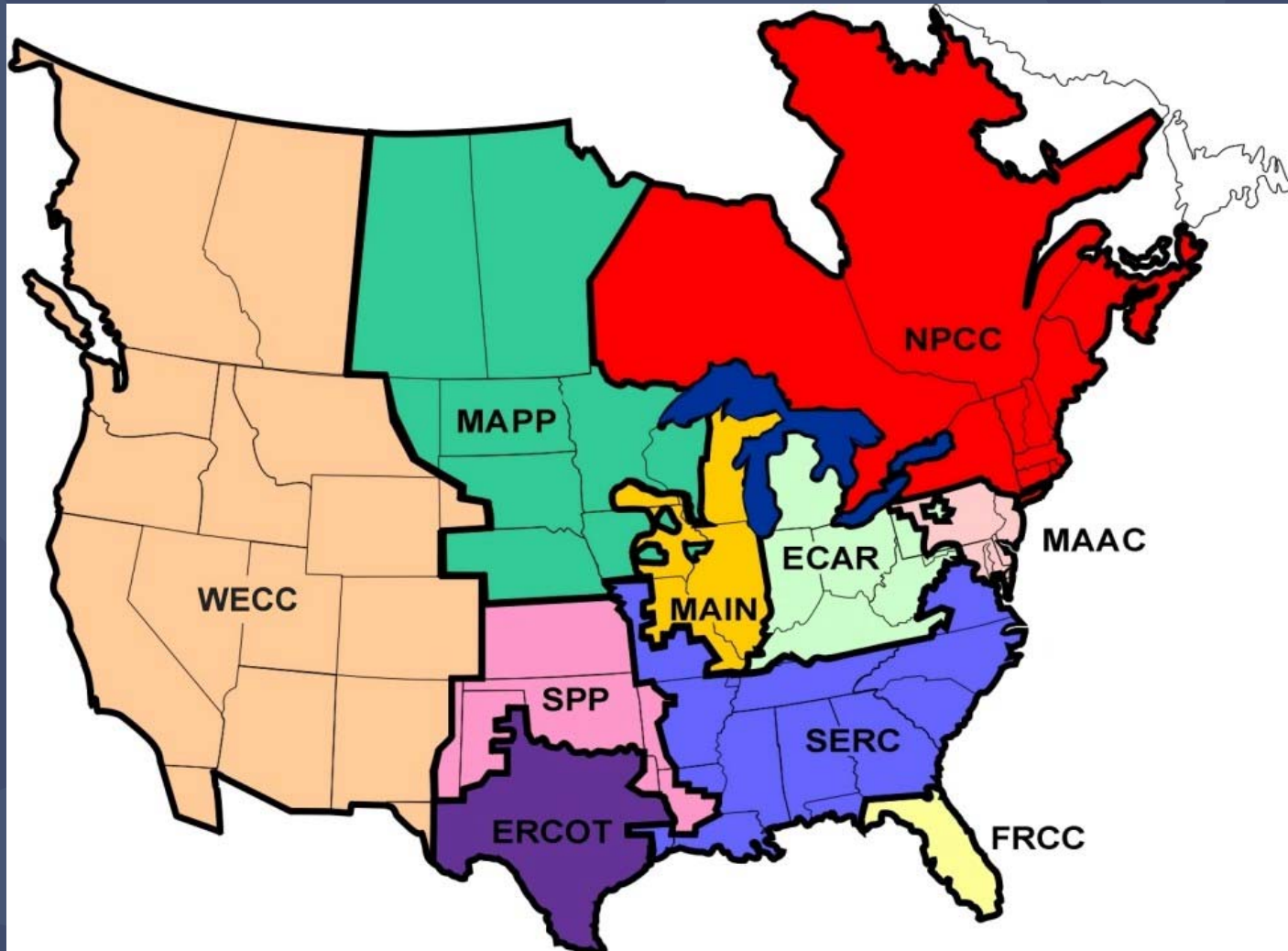
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**Progress Energy**

# NERC Regions



# Seven Key Concepts

## “The What”

- **Balance supply and demand**
- **Balance reactive power supply/demand**
- **Monitor flows to prevent overloads**
- **Keep the system stable**
- **Keep the system reliable, even if a contingency occurs**
- **Plan, design and maintain the system to operate reliably**
- **Prepare for emergencies**

# Six Key Principles

## “The How”

- **Ensure that reliability is the primary objective**
- **Design, operate and maintain the system as intended**
- **Establish and reinforce sound operating practices**
- **Establish clear lines of authority, accountability, and communications**
- **Train system operators to respond properly in normal and emergency conditions**
- **Implement an aggressive evaluation and lessons learned program**

# Thoughts on Future Steps

- Move cautiously through restructuring - using the system in a manner for which it was not designed requires great care
- Establish enforceable high level design and operating standards that accommodate regional differences
- Strengthen audit and compliance programs – make noncompliance apparent
- Move Operator Training Programs to the next level
- Implement a robust operating experience review program – learn from success as well as failure