Grid Reliability

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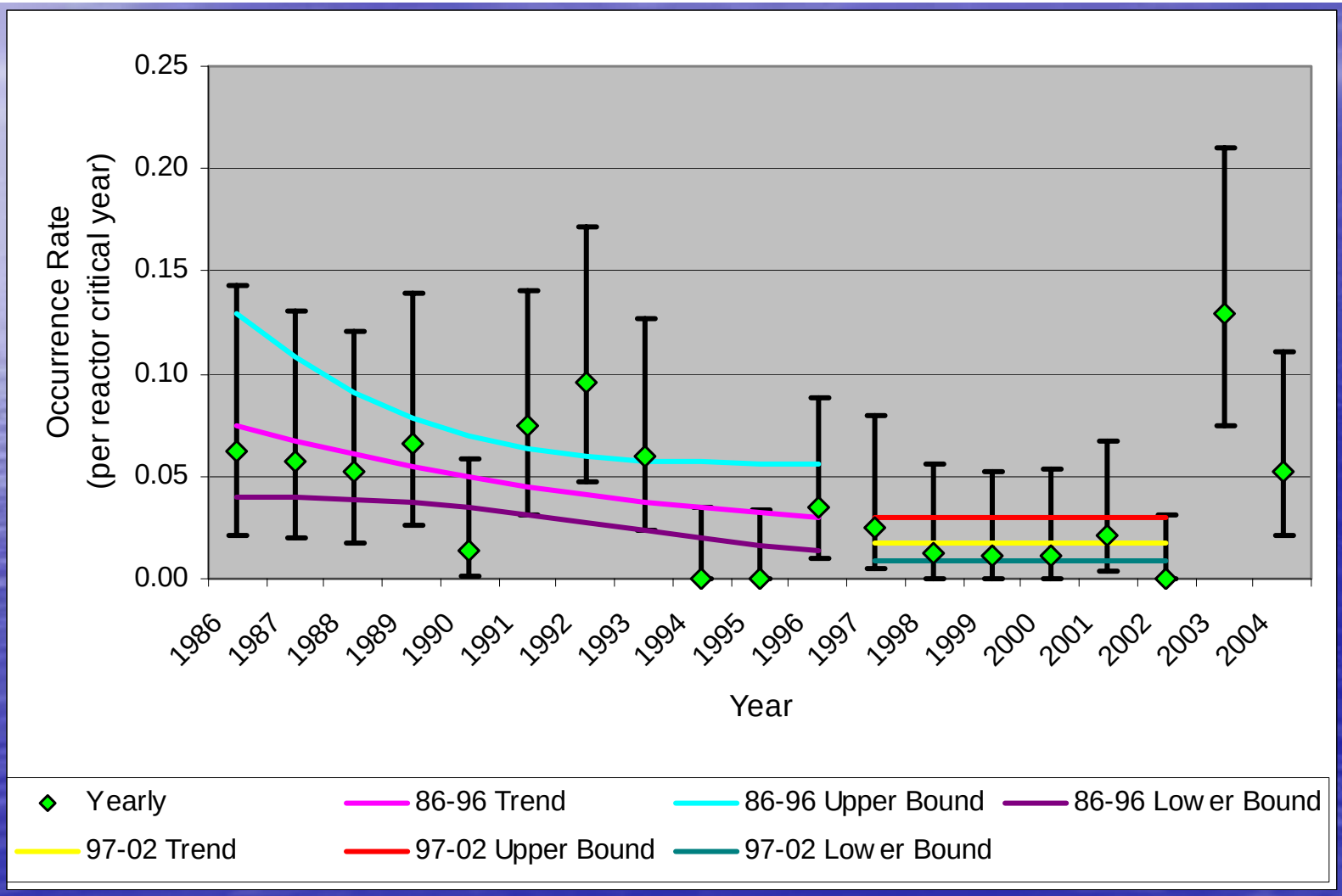
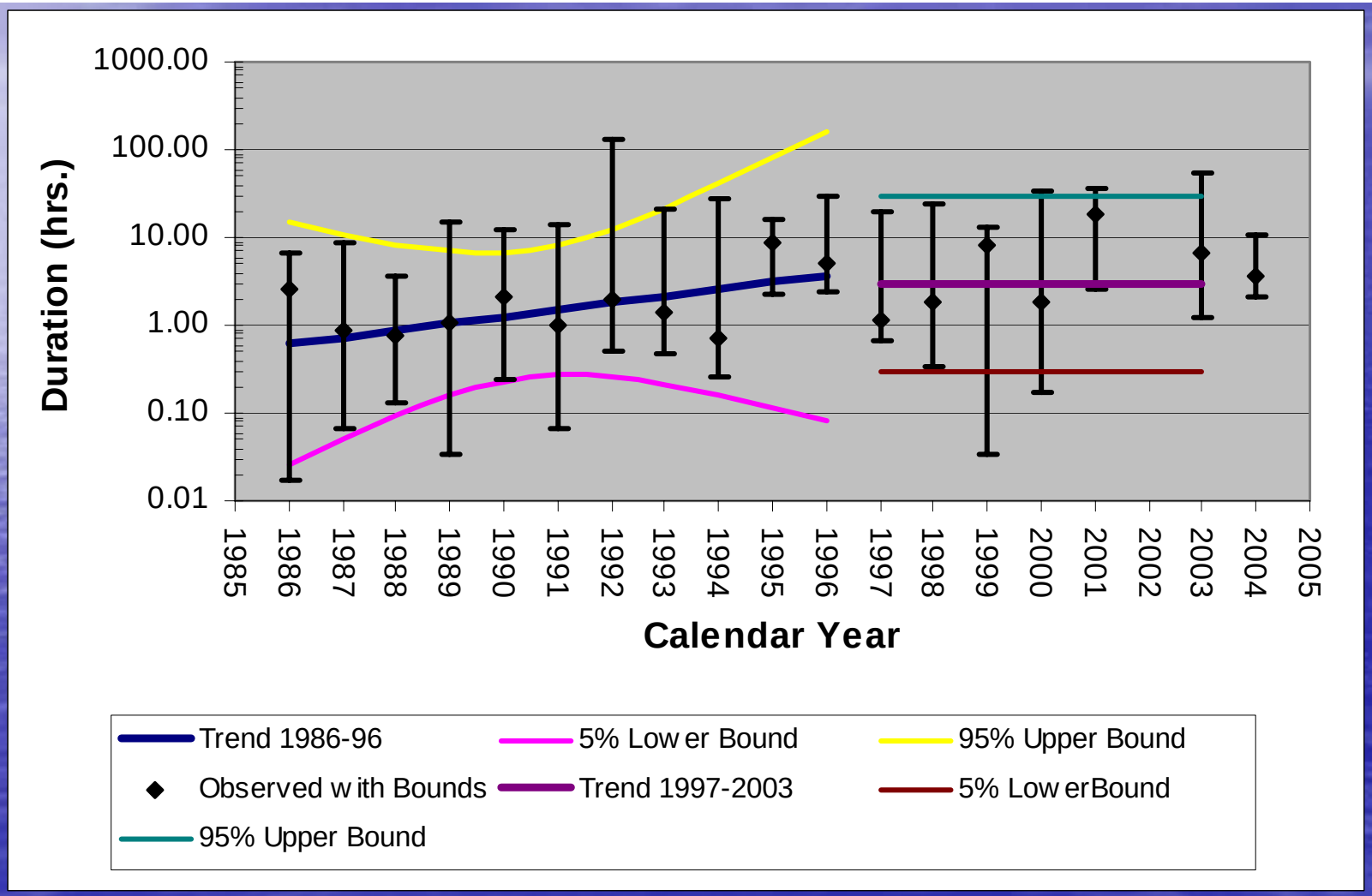
Grid Reliability

- Why is a reliable offsite power supply important for nuclear power plants?
  - Protective devices will sense grid disturbances and, if necessary, isolate the nuclear power plant from the grid
  - Potential impact on core cooling
  - Preferred power supply for safety-related components

Annual Loss of Offsite Power Frequency (Power Operation)



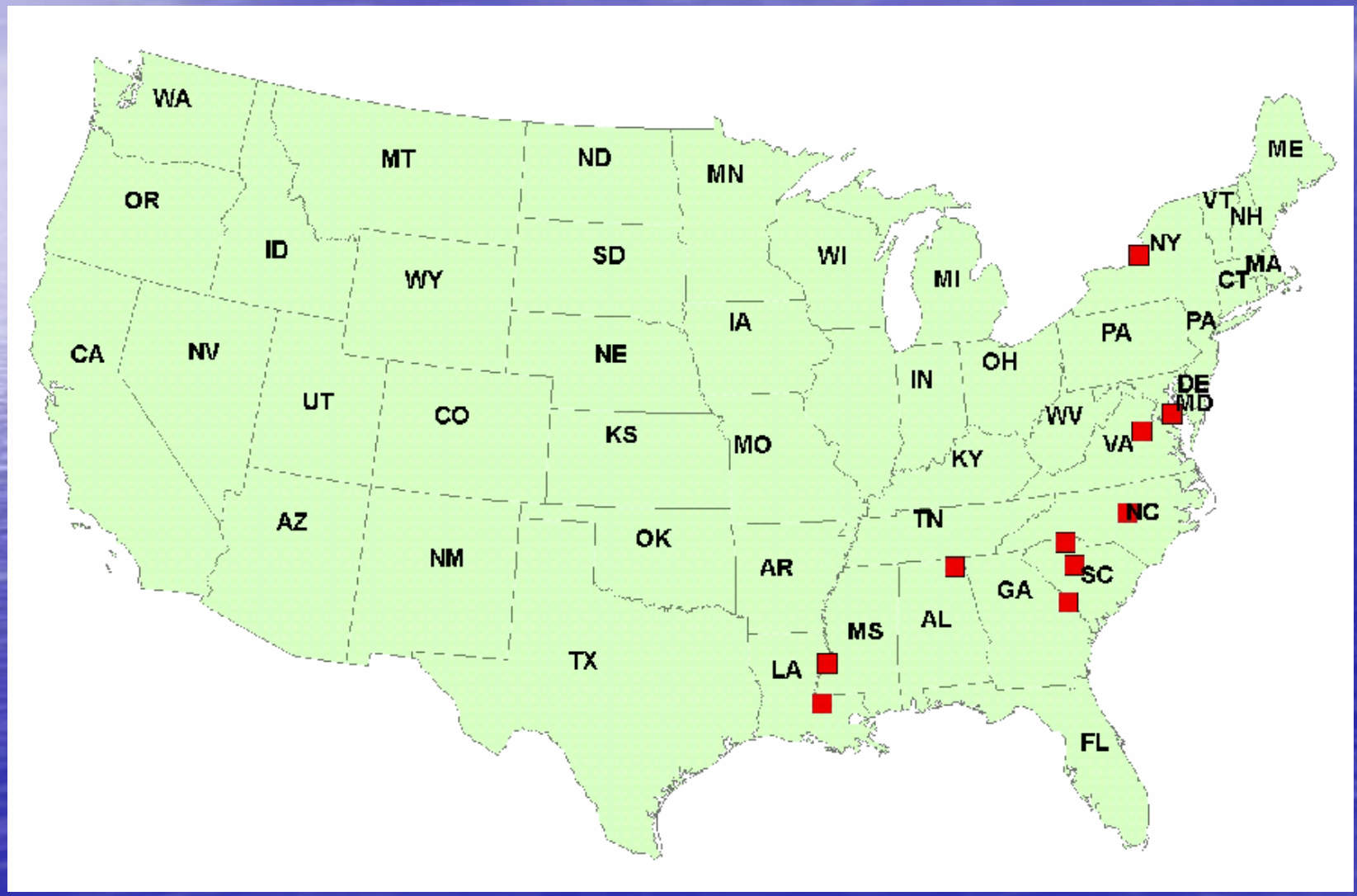
Annual Loss of Offsite Power Duration



New Reactors

- Majority of new reactor locations planned for south-eastern U.S.
- Industry estimates that construction will be completed between 2015 and 2018
- Industry anticipates the addition of about 20,000 to 25,000 Megawatts of electricity to grid

Anticipated New Reactor Locations



Summary

- Nuclear power plants rely on a reliable offsite power supply

- NRC is continuing to:
  - Monitor grid reliability
  - Work with Federal Energy Regulatory Commission (FERC) and the North American Electric Reliability Council (NERC)
  - Work with Licensees