



**U.S.NRC**

UNITED STATES NUCLEAR REGULATORY COMMISSION

*Protecting People and the Environment*

**RIC 2010**  
**Current Topics in**  
**Probabilistic Analysis**

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EPRI

Wednesday 2:00 – 4:00 pm

# A Research Perspective . . .

**A goal is a vision with a scope,  
schedule and budget.**

- Goal: All modes all hazards
- Approach: Strategic versus tactical
  - Research
  - Methods
  - Pilots
  - Standards

# Current Tactical Issues

- **Fire PRA Methods Development**
  - Methods developed in advance of some research
  - Methods deployed prior to adequate pilots
- **Elements of Seismic PRA Methods**
  - Late start in research and methods development

# Strategic Issues

- **Seismic PRA Methods Development**
  - Pilots and lessons learned
  - Research: Fundamental and Methodological
  - Implementation
- **Low Power and Shutdown**
  - Methods and research
  - Pilots and gap assessments
  - Standard

# Strategic Issues

- Other Hazard Analysis
  - Necessary research and development
- Advanced Tools
  - PRA DocAssist
    - Advanced documentation capability
  - Phoenix
    - All modes all hazards
    - Advanced modeling, computational and visualization