

# **RIC 2004**

## **Fire Protection, Session T14**

---

### **Coordinating the** **ANS Fire PRA Standard Development**

**Dennis W. Henneke**  
**Chairman, ANS Fire PRA Committee**  
**Senior PRA Engineer**  
**Duke Power Company**

**March 11, 2004**

# Coordinating the ANS Fire PRA Standard Development

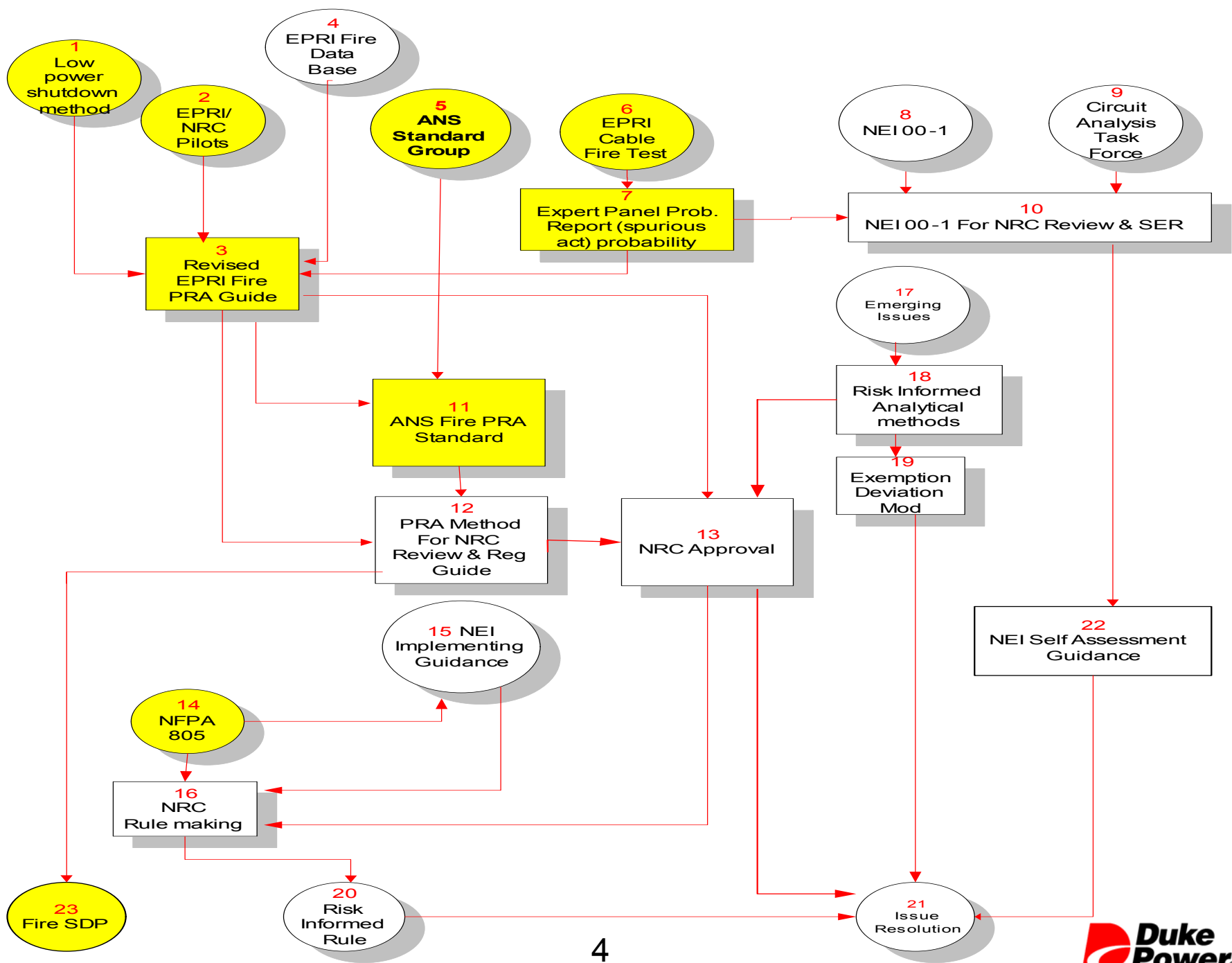
---

- Why is the Fire PRA Standard Important?
- Other Inputs to the Fire PRA Standard
- Short Status
  - EPRI/NRC Fire Requantification
- ANS Fire PRA Writing Group Participants

# Why is the Fire PRA Standard Important

---

- Fire Risk represents around 30% of the Core Damage Risk for an average plant.
  - Many plants report Fire Risk greater than the total for other internal events risk.
- Most Plants have a limited analysis of fire risk in response to the IPEEE process.
- Future Risk Applications and Issue Resolution will most likely require detailed Fire PRA.
  - Plant specific issue resolution for associated circuits/multiple hot shorts for issues not screened in Fire SDP or using NEI-00-01
  - Risk Applications affected by Fire PRA results
  - Plant-Specific Fire Issues, Phase III Fire Significance Determination Process



# Other Inputs to the Fire PRA Standard

---

- Previous Fire PRA Methods:
  - FIVE/EPRI Fire PRA Methods
- EPRI Fire Testing and NEI-00-01: Probability for Spurious Operation.
  - This is included in the Requantification Project.
- EPRI and NRC Fire Modeling Projects

# Status of ANS Fire PRA Standard

---

- Writing Team Selected
- Initial/Generic Standard Sections written
  - Similar to ANS External Events Standard
- Writing of Detailed Sections has begun, awaiting Fire PRA Requantification project

# Fire PRA Standard Team - Representation

---

- Writing Group (6)
  - NRC Research and Contractors (Sandia)
  - EPRI Contractor
  - Utility (2)
  - Independent Contractor
- Review Group (6):
  - Vender (GE)
  - NEI
  - NRC/NRR
  - Independent Contractors (2)
  - International (Mitsubishi)

# EPRI/NRC Fire PRA Requantification

---

- ANS Fire PRA Standard will generally refer to the revised Fire PRA methods as “State of the Art”
- ANS Fire Standard outline will mimic the requantification steps, where possible.
- Fire PRA Requantification Project is still in process, and many of the procedures are still being review and revised.
- Many of the ANS Fire Standard Members are also involved with the requantification project.
- Publication scheduled - Fall 2004.