



# **Risk-Informed and Performance-Based Activities at the NRC**

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**Kevin Coyne**

**Chief, Probabilistic Risk Assessment Branch**

**Office of Nuclear Regulatory Research**

**U.S. Nuclear Regulatory Commission**

# **Applications Across NRC**

- **Rulemakings**
- **Regulatory Analyses**
- **Generic Issues Program**
- **Events Assessment**
- **Oversight Processes**
- **License Amendments & Reviews**

# Collaboration

- **Electric Power Research Institute (EPRI) Research Memorandum of Understanding (MOU)**
- **Professional Societies and Academia**
  - **University Cooperative Research**
  - **ANS, ASME**
- **International Activities**
  - **OECD/NEA**
  - **IAEA**
- **US Government Agencies**
  - **National Aeronautics and Space Administration (NASA)**
  - **Department of Energy (DOE)**

# Operating Reactors

- **Near-term Focus Areas**
  - **10 CFR 50.48(c) (fire protection)**
  - **10 CFR 50.36 (technical specifications)**
    - **Flexible Completion times**
    - **Risk-Informed Surveillance Intervals**
  - **10 CFR 50.69 (special treatment requirements)**
- **Longer-term Activities**
  - **10 CFR 50.61(a) (pressurized thermal shock)**
  - **10 CFR 50.46(a) (emergency core cooling acceptance criteria)**
  - **Digital systems**

# **New Reactors**

- **Near-term Focus Areas - Ongoing reviews of applicants' PRAs**
  - **Design Certifications**
  - **Combined License Applications**
- **Longer-term activities**
  - **Risk-managed technical specification applications**
  - **Risk-informed inservice inspection of piping**
  - **10 CFR 50.69 (special treatment requirements)**