

# **RIC 2005 – Session G4: Risk Informed**

## ***RISK ANALYST TRAINING: The Growing Need for Trained PRA Practitioners***



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# ***PRA Technology: where are we today...***

- *Accepted as an approach for developing insights for technical decision making involving complex technology*
- *Successfully being applied in a number of regulatory and non-regulatory decisions*
- *Usage continues to expand into new areas... complexity of analysis needed to support decisions is growing*
- *Challenges to meet the demands of new applications for current and new reactor designs*
  - *Technical adequacy*
  - *Independence of review*

# ***PRA Challenges...***

- ***Technical adequacy addressed by***
  - *Development and application of consensus standards that include peer reviews and self-assessments as well as periodic updates and upgrades*
  - *Development of external events and shutdown PRAs*
- ***Independence of reviews***
  - *What is needed for independent peer reviews and is this consistently understood / applied?*
  - *Do we need to more clearly define independence?*
- ***Confidence in licensees' demonstration of technical adequacy provides the basis for a more focused NRC staff review of the specific application!***

# ANALYSTS AND REVIEWERS

- *As risk-informed applications and decision-making increase, there is a corresponding increased demand for*
  - *Development of new PRA elements*
  - *Performance of peer reviews, updates, upgrades*
  - *Translates into increased need for PRA practitioners*
- *Where do we get the PRA practitioners needed to meet these future demands?*
  - *Limited pool of trained analysts and reviewers?*
  - *Need to recruit and train new analysts and reviewers?*
  - *Limited staffing on each site, limited existing infrastructure to support the need*

# TRAINING

- *In the future when we recruit and train new analysts and reviewers*
  - *Do we need to define what constitutes adequate risk training?*
  - *What organizations should be involved in development and delivery of this training?*
  - *Do resource limitations dictate a collaborative effort?*
  - *Are there benefits of joint industry/ NRC training?*
  - *What are the issues that need to be overcome concerning organizational boundaries?*

# ***TRAINING – cont.***

- ***Avenues for cooperation and collaboration***
  - *Role of ANS / ASME Committees*
  - *Role of Industry Groups (NEI, INPO, EPRI)*
  - *Role of Academia*
  - *Should there be International collaboration*