

RIC 2006
Session W4D: Risk-Informed
Activities

Regulatory Structure of Draft Rule

Risk-Informed 10 CFR 50.46

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Draft Rule Structure

- Existing § 50.46 essentially unchanged
- Voluntary alternative rule added (§ 50.46a)
- Conforming changes in GDCs
- § 50.46a addresses LOCA redefinition only; not LOCA/LOOP
- Published for Comment, November 7, 2005
- Comments due by March 8, 2006

Draft Rule Structure (§ 50.46a)

- LOCA break spectrum divided into 2 regions by “transition” break size (TBS)
 - based upon frequency and other considerations
- Breaks in smaller break region must meet current § 50.46 analysis/acceptance criteria
- Breaks in larger break region to meet less stringent analysis criteria and assumptions, but mitigation capability must be demonstrated up to full DEGB
- After new ECCS analysis, some plant designs not limited by DEGB

Design Change Licensing Process

- Adoption of 50.46a (via request under 50.90) will transition the plant into a fully risk-informed change control regime
- All proposed changes evaluated using a Risk-Informed Integrated Safety Performance (RISP) assessment process
- After adoption
 - Changes requested under 50.90 will address RG 1.174 guidelines
 - Changes implemented under 50.59 will require minimal risk increase determination
- NRC evaluates possible security impacts during amendment review process

Industry and Public Comments

- Character
- Category
- Overall Status

Next Steps and Future Challenges

- Next Steps
 - Reg Guide
 - TBD
- Future Challenges
 - TBD