



# RIC 2010

## NRC Approval of Licensing Actions

Michael T. Markley

NRC/NRR/DORL

March 11, 2010



# Background

- Coordinated Advisory Committee on Reactor Safeguards (ACRS) Subcommittee on Reliability and Probabilistic Risk Assessment (RPRA).
- Participated in early discussions on developing Regulatory Guides (RGs) and Standard Review Plan (SRP) chapters for risk-informed changes to the licensing basis.
- Observed early PRA peer review.
- Worked on activities to risk inform materials programs.



## Overview

- Pilot plants added a lot of value.
- Pursued a variety of risk-informed initiatives
  - Technical Specifications (TS)
  - Inservice inspection
  - Inservice testing
  - Graded quality assurance



## Discussion

- Returned to Office of Nuclear Reactor Regulation (NRR) in Division of Operating Reactor Licensing (DORL).
  - Surprised by limited number of ongoing reviews of risk-informed submittals
  - Mostly risk-informed TS and inservice inspection.
  - RG 1.200 on technical adequacy of PRA playing a key role



## Discussion

- Key Region IV reviews approved:
  - Initiative 5B regarding TS Surveillance Frequency Control Program.
  - Alternative to use risk-informed safety classification and treatment for repair/replacement of Class 2 and 3 moderate and high energy systems.



## Conclusions

- Holding pre-licensing meetings provides a valuable opportunity to bring key NRC technical reviewers into the process early and surface issues prior to the submittal.
- Risk-informed TS have been among the most successful and broadly adopted initiatives.
- Focus of this session is mostly risk-informed TS.