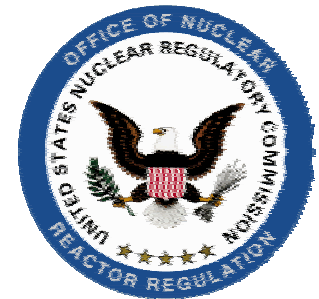


RIC 2001 License Renewal, Session #W7



Christopher Grimes, Chair
Office of Nuclear Reactor Regulation

Michael Mayfield, Co-Chair
Office of Nuclear Regulatory Research
March 14, 2001





License Renewal

- Future Aging Research
- Status of Renewal Applications
- Generic Aging Lessons Learned
- Improved Renewal Guidance

RIC 2001 License Renewal, Session #W7

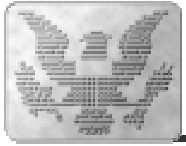


Aging Research

Jim Lang

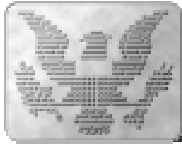
Electric Power Research Institute

March 14, 2001



Aging Begins At Birth

- Materials aren't perfect
- Engineering accounts for imperfection
 - Design
 - Operation & Maintenance
 - Inspections & Repair
 - Replacement



Plant O&M Manages Aging

- Operation
 - Stay within an envelope
 - Control the environment
- Maintenance
 - Maintain the function
 - Ensure reliability
- Supporting research has both short and long term objectives



Life After 40 Is More Of The Same

- License Renewal confirms that view
 - Virtually the same aging mechanisms
 - Managed principally with existing programs
- EPRI is disaggregating aging research
- We know we don't know it all
 - Experience feedback is essential
 - As we grow older we can grow wiser

RIC 2001 License Renewal, Session #W7



License Renewal Lessons

Dave Lochbaum

Union of Concerned Scientists

March 14, 2001

RIC 2001 License Renewal, Session #W7



Aging Research & Public Confidence

Dr. Edwin Lyman

Nuclear Control Institute

March 14, 2001

RIC 2001 License Renewal, Session #W7



License Renewal Projects

Garry G. Young, P.E.

Arkansas Nuclear One

Manager, Business Development

Entergy Services, Inc.

March 14, 2001





Future License Renewal Projects – Effectiveness & Efficiency

- Build on the experiences and lessons learned from previous applicants
- Utilize the NRC standard format, standard review plan, and GALL report
- Utilize the industry guidance documents such as NEI 95-10



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Expectations for GALL & SRP

- Complete comment resolution and issue documents as final in April 2001
 - Address public comments through March
 - Publish final documents for use
- Utilities develop subsequent applications based on thorough review of GALL
 - Develop “templates” or further guidance
 - Continue to provide feedback to NRC



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Expectations for GALL & SRP (cont)

- NRC implement review process based on crediting previously approved “programs”
 - Establish internal guidance for use of GALL
 - Support continuous improvement of GALL via feedback from NRC reviewers, National Lab reviewers, and licensees



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Performance Measures

- Trend in Requests for Additional Information (RAIs)
- Trend in Safety Evaluation Report (SER) Open Items
- Trend in NRC Review Fees
- Trend in Review Schedule Duration



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Conclusions

- License renewal projects are benefiting from the experiences of past applicants
- Guidance documents (both NRC and industry) are becoming more detailed and of greater value
- NRC efforts such as GALL are headed in the right direction to make the process more stable and predictable



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