RIC 2002
Session W4
Power Uprates

NRC Power Uprate Program
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Power Uprates

High Priority

Among Most Significant Licensing Actions

Complex Reviews / Involve Most Technical Disciplines

Realistic Schedules

- 6 Months for Measurement Uncertainty Recapture Power Uprates
- 9 Months for Stretch Power Uprates
- 12 Months for Extended Power Uprates

No Unnecessary Delays in Completing Reviews

Order of Priority

Plant-Specific Applications

Generic Topical Reports

Process Improvements

Review of Power Uprates

Complex Reviews / Involve Most Technical Disciplines

–Reactor Core/Fuel Performance
–Reactor Coolant System
–Containment Performance
–ECCS/LOCA
–Special Events/Limiting Operational Transients
–Radiological Consequences
–System/Component Capabilities
–Instrumentation & Controls
–Electrical Power & Environmental Qualification
–Human Performance/Operator Response

NRC Efforts & Challenges

Application and Review Process Improvements

- Issued Regulatory Issue Summary for Measurement Uncertainty Recapture Power Uprates (RIS 2002-03)
- Planning March 19, 2002, Public Workshop on Extended Power Uprates
- Developing Plan for Improving Effectiveness and Efficiency of Power Uprate Processes

Documentation of Staff Reviews

Standard Review Plan for Power Uprates

Current Status

72 Plant-Specific Applications Approved (22 in 2001)

- 13 Measurement Uncertainty; 51 Stretch; 8 Extended
- Approximately 9800 MWt (3300 MWt in 2001)

12 Plant-Specific Applications Under Review

- 7 Measurement Uncertainty; 1 Stretch; 4 Extended

39 Plant-Specific Applications Expected

- 24 Measurement Uncertainty; 14 Extended; 1 Unknown Magnitude
- Approximately 4700 MWt

2 Generic Topical Reports Under Review