



Palisades Nuclear Plant

**Scoping, Screening and Aging Management
License Renewal Inspection
Exit Meeting
December 1, 2005**

Agenda

- ❖ Introductions
- ❖ License Renewal Process
- ❖ NRC Inspection Results
- ❖ Applicant Comments
- ❖ Public Questions

License Renewal Process

- ❖ Federal regulations (10 CFR Part 54) allow for renewal of operating licenses for an additional 20 year period
- ❖ Palisades submitted its application for a renewed license on March 31, 2005

License Renewal Process, cont.

- ❖ Current license granted for 40 year period; it will expire on March 24, 2011
- ❖ Operating license would be extended to 2031
- ❖ Day-to-day operations under 10 CFR Part 50 not changed

License Renewal Process, cont.

License Renewal Process includes

- ❖ Technical Review by Office of Nuclear Reactor Regulation (NRR)
 - ❖ Onsite Scoping Audit
 - ❖ Onsite Aging Management Audit
 - ❖ Culminates in Safety Evaluation Report

License Renewal Process, cont.

- ❖ Environmental review by NRR and outside environmental experts
 - ❖ Onsite audit of environmental issues
 - ❖ Independent assessments by outside agencies
 - ❖ Culminates in supplement to NUREG-1437

License Renewal Process, cont.

- ❖ Opportunity for formal hearing before the Atomic Safety Licensing Board (ASLB)
 - ❖ Invoked for Palisades
 - ❖ Pre-hearing held November 3, 2005
 - ❖ ASLB still considering issues
 - ❖ Results to be announced separately

License Renewal Process, cont

- ❖ Finally, process includes onsite inspection by regional office
 - ❖ Focuses on implementation and commitment management
 - ❖ Emphasizes in-plant walk downs
 - ❖ Culminates in an inspection report

Inspection

- ❖ Onsite inspection performed in accordance with NRC Inspection Procedure 71002
- ❖ Inspected scoping, screening and aging management programs

Inspection, cont.

- ❖ Inspection occurred from October 24 to November 16, 2005
- ❖ Included approximately two weeks onsite
- ❖ Inspection team consisted of five experienced inspectors

Inspection, cont.

- ❖ Team reviewed electrical, mechanical and structural systems, structures and components
- ❖ Normally inaccessible areas inside containment will be examined by routine inspections during next refueling outage

Scoping and Screening

- ❖ Reviewed 11 systems to verify appropriateness of scoping and screening efforts
 - ❖ Supplemented NRR's review
 - ❖ Emphasized physical walk downs of the plant
 - ❖ Concentrated on systems, structures and components not included within the applicant's license renewal scope

Scoping and Screening, cont.

- ❖ Systems reviewed included:
 - ❖ Auxiliary and Main Steam
 - ❖ Chemical Volume & Control
 - ❖ Component Cooling Water
 - ❖ Condensate and Feedwater
 - ❖ Electric Power Distribution
 - ❖ Fire Protection

Scoping and Screening, cont.

❖ Systems, cont.

- ❖ Fuel Oil

- ❖ Heating, Ventilation and Air Conditioning

- ❖ Radioactive Waste

- ❖ Service Water

- ❖ Spent Fuel Pool Cooling

Scoping and Screening, cont.

❖ Conclusion:

- ❖ Systems appeared appropriately scoped and screened
- ❖ Some minor inconsistencies identified
- ❖ Scoping and screening acceptable for license renewal

Aging Management Programs

- ❖ Reviewed 14 aging management programs and 2 time limited aging analyses (TLAA) programs
 - ❖ Followed up on NRR review efforts
 - ❖ Performed plant walk downs
 - ❖ Reviewed existing plant documentation

Aging Management Programs, cont

- ❖ Reviewed operational experience information
- ❖ Reviewed corrective actions to current plant issues and
- ❖ Reviewed proposed enhancements and commitments
- ❖ Verified that TLAAAs were appropriate

Aging Management Programs, cont

- ❖ The programs reviewed included:
 - ❖ Bolting Integrity
 - ❖ Boric Acid Corrosion
 - ❖ Buried Services Corrosion
 - ❖ Closed-Cycle Cooling
 - ❖ Diesel Fuel Monitoring
 - ❖ Fire Protection
 - ❖ Flow-Accelerated Corrosion

Aging Management Programs, cont

- ❖ Programs reviewed, cont.
 - ❖ Non-Environmentally Qualified Electrical Commodities
 - ❖ One-Time Inspection
 - ❖ Open-Cycle Cooling Water
 - ❖ Overhead Load Handling
 - ❖ Structural Monitoring
 - ❖ System Monitoring
 - ❖ Water Chemistry

Aging Management Programs, cont

- ❖ Time Limited Aging Analyses
 - ❖ Environmental Qualification
 - ❖ Fatigue Monitoring

Aging Management Programs, cont

❖ Conclusion

Aging Management Programs should be adequate for period of extended operation when enhanced or implemented in accordance with commitments

Inspection Conclusions

- ❖ Palisades scoping, screening and aging management programs sufficient for extended operation
- ❖ Region III does not see any inspection impediments to renewing the operating license

Future Inspections

- ❖ Normally inaccessible areas inside containment will be inspected through routine inspection activities during the next refueling outage
- ❖ Routine baseline inspections will continue

Future Inspections, cont.

- ❖ If license is renewed, then inspection procedure 71003 will be performed close to the period of extended operation
- ❖ Inspection will verify that commitments, made as part of license application, have been implemented

Current Baseline Inspections

- ❖ On-going now – will continue into renewed license period
- ❖ Consist of onsite resident inspections and offsite (regional) specialty inspections

Current Baseline Inspections, cont.

- ❖ Inspections in areas of operations, maintenance, operator qualifications, engineering, emergency preparedness, radiation protection, and security
- ❖ Inspection results generally publicly available on NRC web site

Current Baseline Inspections, cont.

- ❖ Web site also contains details on revised oversight inspection process, the types of inspections, and overall plant performance. Copies of inspection procedures and reports are also available.

Current Baseline Inspections, cont.

- ❖ For more information visit:
www.NRC.gov (select: Nuclear Reactors > Operating Reactors > Oversight > Reactor Oversight Process)

Contacts

- ❖ Questions regarding hearing petition issues should be directed to petitioner's lawyers

Contacts

- ❖ Questions regarding the license renewal process may be directed to the NRR Project Managers:
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