



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

December 1, 2005

Palisades Nuclear Plant
Scoping, Screening & Aging Management
Inspection Exit Meeting

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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 TLAs 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

Current Baseline Inspections, cont.

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