

STEAM GENERATOR ISSUES

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Division of Engineering
November 13, 2000

STEAM GENERATOR ISSUES UNDER THE REACTOR OVERSIGHT PROCESS

- NRC is developing an action plan to address steam generator issues
 - OIG and IP2 lessons learned task group findings
 - NEI 97-06

- Development of initial version of action plan scheduled for completion in November 2000

- NRC will solicit stakeholder input in resolving various issues contained within the action plan

- NRC will be evaluating changes to the steam generator tube integrity portion of the inspection program as a result of recent industry experience (e.g., IP2, ANO-2)
 - Regulatory Issue Summary 2000-22, November 3, 2000 — *get copy*
 - Indian Point 2 Technical Evaluation Report, October 11, 2000

REGULATORY ISSUE SUMMARY

- Consider relevant operating experience and take appropriate action including assessing root cause of all degradation mechanisms
- Data quality
- Robustness of qualification program including site specific qualification
- Consider flaw size measurement error when selecting in-situ pressure test candidates
- Termination of in-situ tests due to leakage and rate of pressurization issue
- Benchmarking operational assessments and fractional flaw method

STEAM GENERATOR BASELINE INSPECTION

- IP 71111.08, “Inservice Inspection Activities,” addresses baseline inspection

- Focus of IP71111.08
 - Addresses ISI of steam generator tubes and ISI of other reactor coolant pressure boundary components
 - Samples the effectiveness of licensee’s program at meeting ASME Code requirements
 - Assesses whether indications/defects are appropriately dispositioned

- Inspection effort budgeted biennially - 32 person hours per site

- No specific inspection devoted to steam generator tube eddy current testing

STEAM GENERATOR SUPPLEMENTAL INSPECTION

- IP 50002, “Steam Generators”

- More detailed assessment of steam generators
 - Fabrication of steam generator and tube materials
 - Qualification of eddy current personnel
 - Water chemistry
 - Primary-to-Secondary leakage

- Expected to take 175 person hours per site

FUTURE ACTIVITIES

- As a result of steam generator (SG) operating experience, NRC is evaluating need to change inspection guidance
 - More hours for SG inspections???
 - More detailed guidance in both the baseline and supplemental inspections???
- NRC will be evaluating need for performance indicators related to SG tube structural and leakage integrity
- Opportunity for stakeholder involvement in any potential modifications to the inspection program will be through our normal process
 - Will seek stakeholder involvement in SG action plan (e.g., NEI 97-06)
- Milestones
 - SG Workshop with stakeholders by mid 2001
 - Working on endorsement of NEI 97-06