

RIC 2001

Steam Generator Issues, TH2



Steam Generator Action Plan
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Historical Overview

- ! 2/15/00 - Indian Point 2 Tube Failure Event
- ! 2/28/00 - NRR request to RES for independent review
- ! 3/16/00 - RES response to NRR
- ! 5/24/00 - Task Group Charter issued
- ! 8/29/00 - Office of the Insp. General (OIG) Report issued
- ! 8/30/00 - Chairman's request for staff review of OIG Report
- ! 10/23/00 - Lessons-Learned Report issued
- ! 11/3/00 - Staff Review of OIG Report issued
- ! 11/16/00 - Steam Generator (SG) Action Plan issued

SG Action Plan

- ! SG Action Plan was issued on 11/16/00. The purpose of the action plan is to:
 - ▶ Direct and monitor the NRC's efforts in the SG tube integrity area
 - ▶ Ensure that the associated issues are appropriately tracked and dispositioned
 - ▶ Ensure the NRC's efforts result in an integrated SG regulatory framework (e.g., licensing, inspection, research) which is effective and efficient

SG Action Plan (cont.)

- ! The action plan consolidates numerous activities related to SGs including:
 - ▶ Evaluation and implementation of recommendations from the IP2 Lessons-Learned report
 - ▶ Evaluation and implementation of recommendations from staff review of OIG report
 - ▶ NRC review of NEI 97-06, “Steam Generator Program Guidelines” - revised and updated regulatory framework in generic change package
 - ▶ Resolution of GSI-163, “Multiple Steam Generator Tube Leakage”
 - ▶ Resolution of SG Differing Professional Opinion

SG Action Plan (cont.)

- ! The action plan also includes non-SG related issues that arose out of recent SG activities (e.g., Emergency Planning issues from OIG report)
- ! The action plan does not address plant-specific reviews or industry proposed modifications to GL 95-05 (voltage-based tube repair criteria)

SG Action Plan Activities

- ! Regulatory Issue Summary - SG Lessons Learned
- ! Staff review of ACRS recommendations on DPO
- ! Determine GSI-163 resolution strategy
- ! Review and develop SE for NEI 97-06
- ! Guidance for NRC inspectors
- ! Formal written guidance for NRC technical reviewers
- ! Guidance for review of licensee SG inspection results, conference calls during outages
- ! SG Workshop with stakeholders
- ! Industry response to IP2 Lessons Learned

SG Action Plan Management

- ! Resolution of issues will be coordinated with internal and external stakeholders
- ! Status of action plan milestones will be updated on quarterly basis and published in the NRR Director's Quarterly Status Report
- ! Completion of each action plan milestone will be documented via memo from lead division to associate directors in NRR

NEI 97-06 Generic License Change Package

- ! Current regulatory framework is outdated and prescriptive and not directly focused on ensuring that tube integrity is maintained throughout the period of operation between inspections
- ! Package represents the culmination of efforts to develop a revised and updated regulatory framework that include the following characteristics:
 - performance based: establishes performance criteria for ensuring tube integrity and limiting operational leakage
 - performance criteria are tolerable
 - flexible: manner of addressing performance criteria are up to the licensee
 - adaptable: written to address various modes of degradation, tube repair techniques and inspection technology
 - risk-informed

NEI 97-06 Generic License Change Package (cont'd)

- ! Provide regulatory framework for licensee management of SG tube integrity
- ! NEI 97-06, proposed Technical Specifications and Technical Requirements Manual in the generic license change package will be reviewed for endorsement; EPRI guidelines will not be specifically endorsed
- ! Outstanding technical issues (e.g., noise, data quality, POD, etc.) will exist regardless of the regulatory framework and do not need to be resolved before generic license change package can be implemented
- ! NRC recommending establishment of a protocol agreement with industry to resolve outstanding technical issues

Features of the New TSs and Technical Requirements Manual

- ! Includes structural and accident-induced leakage performance criteria in administrative TSs
- ! Revises operational leakage LCO to incorporate operational leakage performance criterion
- ! Plant-specific repair criteria (e.g., 40% plugging limit), repair methods (e.g., sleeves) and approved alternate repair criteria from existing TSs will carry forward to the TRM
- ! Prior NRC approval necessary to change performance criteria and associated definitions, repair criteria, repair methods, and alternate repair criteria in TRM
- ! Ability to use generically approved repairs and ARCs, subject to limitations in generic staff approvals

Regulatory Issue Summary

- ! Staff plans to issue the NEI 97-06 SE in a Regulatory Issue Summary (RIS)
- ! Target Date for Completion - 10/31/01
- ! RIS will discuss the basis for approval of the generic change package
- ! RIS will include staff expectation that the licensees will submit plant-specific TS change requests modeled on the template in the generic change package (including commitments)
- ! RIS will include staff expectations that licensees would commit in their amendment transmittal letter to implementing their SG management program consistent with NEI 97-06

Schedule

- ! Recommence work on NEI 97-06 1/31/01
- ! Staff completes review and draft
SE of NEI 97-06 SG generic license
change package 5/31/01
- ! Staff briefs CRGR on NEI 97-06
SG generic license change package 7/31/01
- ! Publish SE on NEI 97-06 SG
generic license change package in
FR for public comment 7/31/01
- ! ACRS review of NEI 97-06 SG
generic license change package 8/31/01
- ! Staff briefs Commission on
endorsing NEI 97-06 SG generic
license change package 10/31/01

Items That Could Potentially Affect Schedule

- ! Resolution of the DPO
- ! Changes made to the generic change package TS and TRM since before the IP2 event that will require resolution