NRC/SNC Meeting

August 18, 1998

Plant Hatch
License Renewal Process

Meeting Agenda

☐ **INTRODUCTIONS** *Charles Pierce*

☐ OVERVIEW - HATCH LICENSE RENEWAL PROGRAM *Louis Long/ Ray Baker*

☐ HATCH LICENSE RENEWAL PROCESS DOCUMENT *All*

☐ APPLICATION DOCUMENTS SCHEDULE *Ray Baker*

☐ ELECTRONIC DOCKET *All*

☐ SUMMARY/CONCLUSION *All*

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☐ OVERVIEW — *Louis Long*

- HATCH LICENSE RENEWAL PROGRAM — *Ray Baker*

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Overview

Hatch License Renewal Program

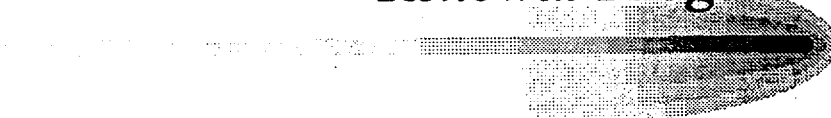*Louis B. Long - Vice President, Technical Services*

Overview

Hatch License Renewal Program

Louis B. Long - Vice President, Technical Services
Ray Baker - Hatch License Renewal Project Manager

Overview - Hatch License Renewal Program

Industry Participation

✓ NEI License Renewal Working Group
✓ NEI License Renewal Implementation Task Force
✓ EPRI Life-Cycle Management Subcommittee
✓ BWR Owners Group License Renewal Committee
✓ BWR VIP
✓ WOG Life-Cycle Management Committee

Overview - Hatch License Renewal Program

✓ Industry Participation

Program Announcement

✔ Announcement Letter - October 27, 1997

Program Announcement

✔ Announcement Letter - October 27, 1997
  ➤ Application Documents Development

Program Announcement

✓ Announcement Letter - October 27, 1997
  ➤ Application Documents Development
  ➤ Participate with NRC and Industry in Issues Resolution

Overview - Hatch License Renewal Program

✓ Industry Participation
✓ Program Announcement

Initiatives

- Hatch License Renewal Process Document
- Collaborative Efforts with PECO Energy and Northern States Power

Overview - Hatch License Renewal Program

✓ Industry Participation
✓ Program Announcement
✓ Initiatives

Program Statistics

- Resources:
  - Budget: $13.2 M over 5 years (development cost, not including NRC fees and hearings)
  - Staffing: More than 20 equivalent full-time personnel
    - Project Team - 18 (16 full-time, 2 half-time)
    - Consultants, Contractors - 3+ (equivalent)
      - Tetra Tech NUS, Georgia Power Company, LCM Engineering, GE Nuclear, T.Heroux Consulting, Winston & Strawn, Balch & Bingham, and others

Program Statistics
(continued)

- Schedule:
  - Application Documents Development: Complete by December 31, 1999
  - Go-ahead Decision: 1st Quarter, 2000

★If authorized by co-owners, submit application 1st Quarter, 2000

Program Statistics
(continued)

- Major Tasks Status:
  - Scoping: **Complete**
  - Establish Eval. Boundaries: **Complete**
  - Screening: **Near Completion**

  - Aging Management Review Prerequisites:
    - Identify Relevant Aging Effects **Started**
    - Identify Aging Mgmt. Activities **Started**
  - Aging Management Reviews **Not Started**

Program Statistics
(continued)

- Major Tasks Status (continued):
  - Identify Time-Limited Aging Analyses: **In Progress**
  - Evaluate Time-Limited Aging Analyses: **In Progress**
  - Identify Exemptions: **Complete**
  - Environmental Activities: **In Progress**
  - Application Development: **Started**
  - FSAR Supplement **Not Started**

Overview - Hatch License Renewal Program

✓ Industry Participation
✓ Program Announcement
✓ Initiatives

★Program Statistics
Program Elements

Program Elements

- **Scoping Results**
  - Functions in scope   **106**
    - Safety-related   79
    - Non-safety related   8
    - ATWS Rule   13
    - Fire Protection Rule   51
    - EQ Rule   26
    - Station Blackout Rule   33
  - Functions not in scope   **169**

Program Elements

- Evaluation Boundaries
  - 142 separate evaluation boundaries produced
  - Mechanical boundaries are being "overlayed" electronically on existing plant P&Ids
  - Mechanical boundaries identify interfaces with structures (both piping support and equipment support interfaces)
  - Electrical components evaluated on a plant "spaces" basis

Program Elements

- Screening
  - Group components into commodities within Evaluation Boundaries
  - Make "active/passive" determination
  - Make "long-lived" determination
  - Identify how component/commodity supports intended functions

Program Elements

- **AMR Prerequisites**
  - Systematically identify relevant aging effects
    - Mechanical: use a standard set of tools to identify aging effects. The tools use commodity materials and environment information, based on an exhaustive review of industry literature, including NRC generic communications.

Program Elements

  - Systematically identify relevant aging effects (continued)
    - Structures: use the industry Class I Structures report and other industry reports plus a review of generic communications to identify aging effects.
    - Electrical: use the Cable AMG and other industry reports plus a review of generic communications.
  - Systematically identify plant aging management activities

Program Elements

- Aging Management Reviews
  - Map the aging effects and aging management activities for each commodity
  - Evaluate plant-specific commodity maintenance history
  - Identify the set of activities to credit during period of extended operation to adequately manage aging effects (can be existing activities, enhancements, or new activities, or a combination)

Program Elements

- Identify Time-Limited Aging Analyses
  - Review docket correspondence summaries for keywords that may indicate potential applicability
  - Screen A/E calculations for potential applicability
  - Review A/E calculations that pass first screening criterion for remaining five criteria (two step approach to screening calculations)

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Program Elements

- Evaluate Time-Limited Aging Analyses
  - Identify disposition process for each TLAA
  - Establish disposition/resolution schedule

Program Elements

- Identify Exemptions
  - Review all exemptions specified in Operating Licenses for TLAA relationships

★**No exemptions met criteria**

Program Elements

- Environmental Activities
  - Report Development
    - Report Outline developed
    - Survey Plan developed
    - collecting environmental data
  - Evaluating internal analyses with regard to proposed SAMA requirements in Draft Reg. Guide
  - Seeking input from State environmental agencies for Environmental Report

Hatch License Renewal Program

★Fully Funded
★Fully Staffed
★Full Scope

★Fully Engaged

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Process Document

- *Discuss NRC/NEI issue resolution process and relationship of Hatch Process Document to the industry process*

- *Discuss forum for resolution of specific issues addressed by Process Document in context of NEI database of SRP comments*

- *Discuss desired schedules for resolution of issues not contained in NEI database of SRP comments*

- *Feedback on priorities*

NRC/NEI Generic Issues Resolution Process

- Re-engagement of industry and NRC on issues is viewed as a very positive development
- New structure for issues resolution within NRC is encouraging

★ **Southern Company is strongly commited to making the generic issues resolution process succeed**

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Process Document Issues / NEI
Comments Database Comparison

	Area	NEI SRP Comment	Recommendation
1.	Functional-based approach for scoping	No Comment	Discuss philosophy separately with NRC
2.	Use of intended function at system and component levels	Yes (SRP comment 82)	Follow resolution of issue with NEI and NRC. SNC implementation appears consistent with BG&E and Duke
3.	Practical considerations in limiting plant review	No comment	Discuss philosophy separately with NRC
4.	Screening of structures performed by HNP process	No comment	Discuss philosophy separately with NRC
5.	Commodity groups established during screening	Yes (SRP comments 19, 67, 70)	Follow resolution of issue with NEI and NRC. Need earlier resolution than currently scheduled to minimize rework (late-1998).
6.	Consumables are not in scope of review	Yes (SRP comments 25, 62, 127, 138, 162)	Follow resolution of issue with NEI and NRC. Expect timetable to be sufficient (mid-1999).
7.	Active complex assemblies are dispositioned from AMR	Yes (SRP comment 2)	Follow resolution of issue with NEI and NRC. Expect timetable to be sufficient (mid-1999)
8.	Review process for existing programs	Yes (SRP comments 161, 116, 39, etc.)	Follow resolution of issue with NEI and NRC. Expect timetable to be sufficient (mid-1998).

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                                                    Ray Baker

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Schedules

- Preliminaries
  - – Intake Structure   3rd/4th Qtr
  - – Recirculation System Piping   3rd/4th Qtr
  - – SLC   4th Qtr
  - – Selected BWRVIP Products   4th Qtr/1st Qtr
- Application Documents/Products

                                            1999/2000

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Electronic Docket

- Technical Issues
- Regulatory Issues

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Summary/Conclusion

- Recap - open items
- Final thoughts
- Adjourn