

50-321/366



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

September 24, 1998

LICENSEE: Southern Nuclear Operating Company, Inc. (SNC)
FACILITY: Edwin I. Hatch Nuclear Station (Plant Hatch), Units 1 and 2
SUBJECT: SUMMARY OF MEETING BETWEEN THE U.S. NUCLEAR
REGULATORY COMMISSION (NRC) STAFF AND SNC
REPRESENTATIVES TO DISCUSS THE PLANT HATCH LICENSE
RENEWAL PROCESS

On August 18, 1998, representatives of SNC met with the NRC staff in Rockville, Maryland, to discuss the Plant Hatch license renewal process. The meeting was requested by SNC to provide background information on Plant Hatch license renewal efforts, SNC's intentions with respect to submittal of a license renewal application, and support requested from the NRC staff. A list of meeting attendees is provided in Enclosure 1. A copy of the presentation material discussed at the meeting is provided in Enclosure 2.

The SNC presented an executive overview of the Hatch License Renewal Program. SNC plans to continue to participate in the industry efforts, including those involving the Nuclear Energy Institute (NEI) License Renewal Working Group, the NEI License Renewal Implementation Task Force, the Electric Power Research Institute Life Cycle Management Subcommittee, the Boiling Water Reactor Vessel Internals Projects (BWR VIP) efforts, and the Westinghouse Owners Group Life Cycle Management Committee. SNC emphasized the need for the NRC's review of previously submitted Owners Group documents (BWR VIP reports) as SNC intends to incorporate the reports by reference into its application. In addition, SNC described its collaborate teaming approach with PECO Energy and Northern States Power in preparing license renewal documents for Plant Hatch.

The SNC stated that it is committed to license renewal for Plant Hatch and will continue to pursue it as long as it is economically feasible. The current schedule is to complete an application by December 31, 1999, in preparation for submittal during the first quarter of the year 2000. SNC also discussed the feasibility of submitting Plant Hatch license renewal documents electronically.

The staff encouraged SNC to discuss the outline of the Plant Hatch license renewal application and to request feedback as the staff gains experience from the review of Baltimore Gas and Electric's Calvert Cliffs and Duke Energy's Oconee license renewal applications.

11
DFO

300054

9810020065 980924
PDR ADOCK 05000321
P PDR

NRC FILE CENTER COPY

September 24, 1998

At the conclusion of the meeting, Michael Kohn from the National Whistleblowers Center (NWC), described concerns related to Southern Nuclear and unresolved complaints of one of the NWC's clients. Mr. Kohn provided the NRC staff with related records. Mr. Christopher Grimes, NRC, stated that the concerns did not appear to relate solely to license renewal, and that these concerns should be pursued through the appropriate process to the extent that these concerns apply to the current plant operation.

Original Signed By

Raj K. Anand, Project Manager
License Renewal Project Directorate
Division of Reactor Program Management
Office of Nuclear Reactor Regulation

Docket Nos. 50-321 and 50-366

Enclosures: As stated

cc w/encls: See next page

DISTRIBUTION:

See next page

*See previous concurrence

DOCUMENT NAME G:\WORKING\ANAND\HATCHMEE.WPD

OFFICE	LA	PDLR/DRPM:PM	PM	DRPM
NAME	LBerry	RAnand	LOlshan	JLee
DATE	9/1/98*	9/16/98*	9/18/98*	9/18/98*

OFFICE	OGC	PDLR:D	DRPM:DD	
NAME	RWeisman	CI Grimes <i>CG</i>	DMatthews <i>DM</i>	
DATE	9/18/98*	9/22/98	9/24/98	

OFFICIAL RECORD COPY

Distribution: **HARD COPY**

Docket Files

PUBLIC

PDLR R/F

MEI-Zeftaway-ACRS

OGC

DISTRIBUTION: E-MAIL:

FMiraglia (FJM)

JRoe (JWR)

DMatthews (DBM)

CGrimes (CIG)

TEssig (THE)

GLainas (GCL)

JStrosnider (JRS2)

GHolahan (GMH)

SNewberry (SFN)

GBagchi (GXB1)

JBrammer (HLB)

CGratton (CXG1)

JMoore (JEM)

MZobler (MLZ)

RWeisman (/RMW)

SBajwa, (SSB1)

LOlshan (LNO)

RTrojanowski (RET)

BBores (RJB)

SDroggitis (SCD)

RArchitzel (REA)

CCraig (CMC1)

LSpessard (RLS)

RCorreia (RPC)

RLatta (RML1)

THiltz (TGH)

DMartin (DAM3)

WMcDowell (WDM)

PSkinner (PHS)

PDLR Staff

CJulian (CAJ)

Souther Nuclear Operating Company
Edwin I. Hatch Nuclear Plant Units 1 and 2

Docket Nos.: 50-321, 50-366

cc:

Mr. D. M. Crowe
Manager, Licensing
Souther Nuclear Operating Company Inc.
P.O. Box 1295
Birmingham, Alabama 35201-1295

Resident Inspector
Plant Hatch
11030 Hatch Parkway N.
Baxley, Georgia 31531

Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, Georgia 30303

Mr. Charles H. Badger
Office of Planning and Budget
Room 610
270 Washington Street, SW
Atlanta, Georgia 30334

Harold Reheis, Director
Department of Natural Resources
205 Butler Street, S.E., Suite 1252
Atlanta, Georgia 30334

Steven M. Jackson
Senior Engineer-Power Supply
Municipal Electric Authority of Georgia
1470 Riveredge Parkway, N.E.
Atlanta, Georgia 30328-4684

Mr. Douglas J. Walter
Nuclear Energy Institute
1776 I Street NW, Suite 400
Washington, DC 20006

Mr. H. L. Summer, Jr.
Southern Nuclear Operating Co.
P. O. Box 1295
Birmingham, Alabama 35201-1295

Chairman
Appling County Commissioners
County Courthouse
Baxley, Georgia 31531

Mr. J. D. Woodard
Executive Vice President
Southern Nuclear Operating Company, Inc.
P. O. Box 1295
Birmingham, Alabama 35201-1295

Mr. P. W. Wells
General Manager, Edwin I. Hatch Nuclear
Plant
Southern Nuclear Operating Company, Inc.
U.S. Highway 1 North
P.O. Box 2010
Baxley, Georgia 31515

Mr. R. D. Barker
Program Manager
Fossil & Nuclear Operations
Oglethorpe Power Corporation
2100 East Exchange Place
P.O. Box 1349
Tucker, Georgia 30085-1349

Charles A. Patrizia, Esq.
Paul, Hastings, Janofsky & Walker
10th Floor
1299 Pennsylvania Ave
Washington, DC 20004-9500

Mr. Ray Baker
Manager, License Renewal Services
Southern Nuclear Operating Company, Inc.
P.O. Box 1295
Birmingham, Alabama 35201-1295

Mr. Ernest L. Blake, Jr.
Shaw, Pittman, Potts and Trowbridge
2300 N Street, NW.
Washington, DC 20037

Mr. Michael D. Kohn, Esq.
Kohn, Kohn, Colapinto, P.C.
3233 P. Street, N.W.
Washington, DC 20007-2756

ATTENDANCE LIST
AUGUST 18, 1998
NRC MEETING WITH SUTHERN NUCLEAR OPERATING COMPANY (SNC)
PLANT HATCH, UNITS 1 AND 2

(10CFR PART 54)

	<u>NAME</u>	<u>ORGANIZATION</u>
1.	Raj Anand	NRC/NRR/DRPM/PDLR
2.	Christ Grimes	NRC/NRR/DRPM/PDLR
3.	Bob Prato	NRC/NRR/DRPM/PDLR
4.	Paul Shemanski	NRC/NRR/DE/EELB
5.	Mike Schoppman	FP&L
6.	Nancy Chapman	SERCH/Bechtel
7.	Wang C. Liu	NRC/NRR/DRPM/PDLR
8.	Deborah K. Staudinger	Winston & Strawn
9.	Ray Baker	Southern Company
10.	Charlie R. Pierce	Southern Company
11.	Louis Long	Southern Company
12.	Steve Hoffman	NRC/NRR/DRPM/PDLR
13.	Lynn Conner	Doc. Serach Associate
14.	Mary Jane Wilmoth	National Whistleblower Center
15.	Michael D. Kohn	National Whistleblower Center
16.	Sandra Cooke	NRC/NRR/DRPM/PDLR
17.	Marian Zabler	NRC/OGC
18.	Doug Walters	NEI
19.	Wayne Barber	McGraw Hill

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

Meeting Agenda

☐ INTRODUCTIONS

Charles Pierce

☐ **OVERVIEW**

Louis Long

☐ **HATCH LICENSE RENEWAL PROGRAM**

Ray Baker

☐ HATCH LICENSE RENEWAL PROCESS DOCUMENT

All

☐ APPLICATION DOCUMENTS SCHEDULE

Ray Baker

☐ ELECTRONIC DOCKET

All

☐ SUMMARY/CONCLUSION

All

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)

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

Meeting Agenda

- | | |
|--|-----------------------------|
| <input type="checkbox"/> INTRODUCTIONS | <i>Charles Pierce</i> |
| <input type="checkbox"/> OVERVIEW - HATCH LICENSE RENEWAL PROGRAM | <i>Louis Long/Ray Baker</i> |
| <input type="checkbox"/> HATCH LICENSE RENEWAL PROCESS
DOCUMENT | <i>All</i> |
| <input type="checkbox"/> APPLICATION DOCUMENTS SCHEDULE | <i>Ray Baker</i> |
| <input type="checkbox"/> ELECTRONIC DOCKET | <i>All</i> |
| <input type="checkbox"/> SUMMARY/CONCLUSION | <i>All</i> |

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 committed to making the generic issues resolution process succeed**

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*

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. SRC 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).

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*

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*

Meeting Agenda

- | | |
|---|----------------------|
| <input type="checkbox"/> INTRODUCTIONS | Charles Pierce |
| <input type="checkbox"/> OVERVIEW - HATCH LICENSE RENEWAL PROGRAM | Louis Long/Ray Baker |
| <input type="checkbox"/> HATCH LICENSE RENEWAL PROCESS DOCUMENT | All |
| <input type="checkbox"/> APPLICATION DOCUMENTS SCHEDULE | Ray Baker |
| <input type="checkbox"/> ELECTRONIC DOCKET | All |
| <input type="checkbox"/> SUMMARY/CONCLUSION | All |

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

Meeting Agenda

- | | |
|---|-----------------------------|
| <input type="checkbox"/> INTRODUCTIONS | <i>Charles Pierce</i> |
| <input type="checkbox"/> OVERVIEW - HATCH LICENSE RENEWAL PROGRAM | <i>Louis Long/Ray Baker</i> |
| <input type="checkbox"/> HATCH LICENSE RENEWAL PROCESS DOCUMENT | <i>All</i> |
| <input type="checkbox"/> APPLICATION DOCUMENTS SCHEDULE | <i>Ray Baker</i> |
| <input type="checkbox"/> ELECTRONIC DOCUMENT | <i>All</i> |
| <input type="checkbox"/> SUMMARY/CONCLUSION | <i>All</i> |

Electronic Docket

- Technical Issues
- Regulatory Issues

Meeting Agenda

- | | |
|---|-----------------------------|
| <input type="checkbox"/> INTRODUCTIONS | <i>Charles Pierce</i> |
| <input type="checkbox"/> OVERVIEW - HATCH LICENSE RENEWAL PROGRAM | <i>Louis Long/Ray Baker</i> |
| <input type="checkbox"/> HATCH LICENSE RENEWAL PROCESS DOCUMENT | <i>All</i> |
| <input type="checkbox"/> APPLICATION DOCUMENTS SCHEDULE | <i>Ray Baker</i> |
| <input type="checkbox"/> ELECTRONIC DOCKET | <i>All</i> |
| <input type="checkbox"/> SUMMARY/CONCLUSION | <i>All</i> |

Summary/Conclusion

- Recap - open items
- Final thoughts
- Adjourn