

RE1200006



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
WASHINGTON, D.C. 20555-0001

March 20, 2000

MEMORANDUM TO: ACRS Members

FROM:

*Noel Dudley*  
Noel Dudley, Senior Staff Engineer

SUBJECT:

SUMMARY OF THE MARCH 8, 2000 MEETING BETWEEN THE NRC  
STEERING COMMITTEE AND THE NUCLEAR ENERGY INSTITUTE  
LICENSE RENEWAL WORKING GROUP

I attended the following three meeting related to license renewal issues:

- March 8, 2000 meeting between the NRC License Renewal Steering Committee and the Nuclear Energy Institute (NEI), concerning the status of license renewal activities;
- March 8, 2000 meeting between the staff and Duke, concerning the status of the Oconee license renewal application; and
- March 1, 2000 meeting of the NRC Steering Committee, to prepare for the meeting with NEI.

During the March 1 meeting, the staff reviewed the information it planned to present at its meeting with NEI. The staff firmly decided that the resolution of Generic Safety Issue (GSI) 190, "Fatigue Evaluation of Metal Components for 60-Year Plant Life," did not negate the requirement for developing an aging management program for metal fatigue as part of the license renewal application.

During the March 8 meeting with Duke, no significant issues were identified in relationship to the approval of the Oconee license renewal application. Duke stated that it enjoyed the ACRS visit to Oconee and hoped that the ACRS learned more about the Oconee license renewal process. Slides used during the presentations are provided as attachment 1.

During the March 8 meeting with NEI, Mr. Roy Zimmerman, NRR, and Mr. Michael Tuckman, Duke, lead the discussions. Slides used during these discussions are provided as attachment 2. The staff explained the importance of knowing, for budgetary and planning purposes, what which licensees were planning to pursue license renewal and when the applications would be submitted. NEI agreed to encourage licensees to announce their intentions to the NRC.

The staff and NEI discussed the schedule for the development of the license renewal Standard Review Plan (SRP), related GALL Report, and NEI 95-10, which provides guidance for developing license renewal applications. They agreed to eliminate the generic license renewal issues list and either resolve the items or incorporated the items into the SRP or GALL development processes. Note that the ACRS recommendations contained in the Oconee interim letter were reconciled based on including these recommendations in the generic license renewal issues list.

Mr. Tuckman requested a meeting with the NRC to discuss the resolution of GSI-190. He explained that the industry believes that the environmental correction factors used to resolve GSI-190 are over conservative. He stated that licensees were concerned about the cost of unnecessarily replacing major components based on fatigue calculations using the environmental correction factors. The staff agreed to meet with NEI on this issue.

Attachments: 1. Handouts for the March 8, 2000 meeting between the NRC staff and Duke  
2. Handouts for the March 8, 2000, meeting between NRC and NEI

cc via e-mail w/o atts.:

J. Larkin  
H. Larson  
S. Duraiswamy  
ACRS Fellows and Staff

# **Oconee License Renewal Application Status Report to Duke Energy March 8, 2000**

---

David Matthews, Director, Division of Regulatory  
Improvement Programs  
Chris Grimes, Branch Chief, License Renewal  
and Standardization Branch

1

## **Oconee Renewal Status**

---

- Schedule Adherence
- Accomplishments
- Other Items Needed for a Commission Decision

2

## Oconee Renewal Status

---

- **Schedule Adherence**

- ▶ **“End game” schedule**

<u>Item</u>	<u>Date</u>	<u>Actual</u>
Staff Issue Final SEIS	2/12/00	12/9/99
Staff Issue SSER	2/12/00	2/3/00
ACRS Subcommittee Meeting	2/24/00	2/24/00
Final Renewal Inspection	2/28/00	2/28/00
ACRS Full Committee Meeting	3/3/00	3/2/00
Meeting to discuss form and content of the license	3/9/00	
ACRS Letter	3/10/00	
All comments on UFSAR supplement due to Duke	3/17/00	
Issue SER as NUREG 1723	3/24/00	
Regional Administrator's Letter	3/31/00	
last revision to UFSAR supplement	4/1/00	
Commission Paper with Staff Recommendation	4/14/00	
Commission Meeting (if requested)	6/16/00	
Commission Decision	6/26/00	
Renewed License Issued (if approved)	7/3/00	

## Oconee Renewal Status

---

### Accomplishments

- SER issued 2/3/00 ahead of schedule
- Federal agency referral period for final SEIS ended 1/21/00 with no referral
- ACRS Subcommittee and Full committee meetings held on 2/24 and 3/2, respectively
- Final inspection occurred the week of 2/28/00

## **Oconee Renewal Status**

---

Other Items Needed for a Commission Decision

- **Renewed License**
  - ▶ License amendment requested 1/27/00
  - ▶ Staff issued draft licenses for comment on 2/17/00
  - ▶ Meeting scheduled for 3/9/00 to discuss draft licenses
- **UFSAR**
  - ▶ Duke provided UFSAR supplement on 2/14/00
  - ▶ Staff to provide comments by 3/17/00
  - ▶ Final revision due by 4/1/00

5

## **Oconee Renewal Status**

---

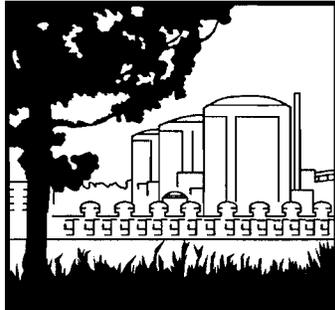
Other Items Needed for a Commission Decision (cont)

- **Region II recommendation letter**
- **ACRS recommendation letter**
  - ▶ 2/24/00 subcommittee meeting at Clemson
  - ▶ 3/2/00 full committee meeting at Rockville

6



## **Oconee License Renewal Project**



### **Duke/NRC Management Meeting**

**March 8, 2000**



## **Agenda**

- Specific Commission Package Topics
- Duke Areas of Focus
- Expectations
- Meeting Plans

March 8, 2000

Oconee License Renewal Project

2



## Commission Package

- As described to Duke the following are part of the Commission Package of information.
  - ◆ Facility Operating License ✓
  - ◆ Technical Specification Changes (none identified)
  - ◆ Final Safety Evaluation Report ✓
  - ◆ UFSAR Supplement ✓
  - ◆ Region II Recommendation Letter ✓
  - ◆ Final Supplemental Environmental Impact Statement
  - ◆ ACRS Recommendation Letter ✓
  - ◆ Amendment to the Indemnity Agreement (none identified)

✓ indicates discussion item later in this presentation

March 8, 2000

Oconee License Renewal Project

3



## Commission Package

- Facility Operating License
  - ◆ Meeting to review draft FOL is scheduled for March 9, 2000
  
- Region II Recommendation Letter
  - ◆ A successful third inspection was completed the week of February 28, 2000

March 8, 2000

Oconee License Renewal Project

4



## Commission Package

### ■ ACRS Recommendation Letter

- ◆ A successful site visit and public meeting by the ACRS License Renewal Subcommittee was held at Oconee on February 23-24, 2000
- ◆ A successful meeting with the ACRS Full Committee was held March 2, 2000

March 8, 2000

Oconee License Renewal Project

5



## Commission Package

### ■ Final Safety Evaluation Report

- ◆ The NRC issued the Final SER on February 3, 2000, completing - ahead of schedule - a major milestone in this effort
- ◆ Duke recognizes that the issuance of the SER was a result of significant NRC staff effort and due, in part, to strong communications between Duke and the staff

March 8, 2000

Oconee License Renewal Project

6



## **Commission Package**

---

- UFSAR Supplement (updated version)
  - ◆ Draft supplement was submitted for NRC staff review on February 14, 2000
  - ◆ Duke expects staff feedback by mid-March
  - ◆ Duke plans to submit updated UFSAR Supplement to NRC by 4/1/2000

March 8, 2000

Oconee License Renewal Project

7



## **Duke Areas of Focus**

---

- Implement turnover plans
- Implement requirements of §54.37(b)
- Continue efforts to understand how the new §50.59 process applies to aging management programs and time-limited aging analyses

March 8, 2000

Oconee License Renewal Project

8

## *Expectations*

---

- Expectations to be accomplished by next NRC/Duke Management Meeting
  - ◆ NRC staff provide feedback on the draft UFSAR supplement by mid-March
  - ◆ Duke submit revised UFSAR Supplement by April 1, 2000

## *Meeting Plans*

---

- Schedule for next NRC/Duke management meetings:
  - ◆ April, 2000 (if necessary)
  - ◆ May 17, 2000 (if necessary)

**AGENDA**

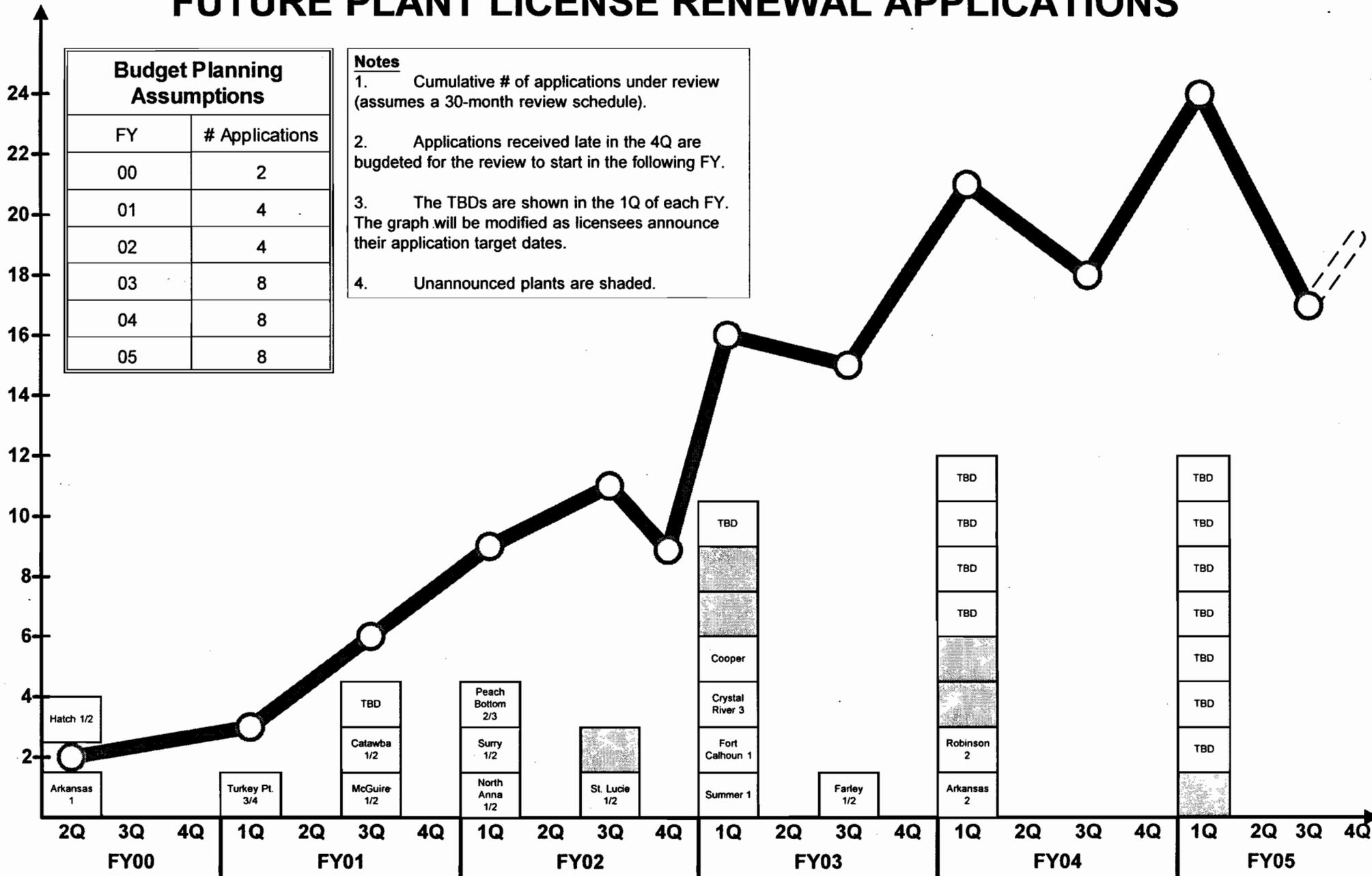
**NRC LICENSE RENEWAL STEERING COMMITTEE MEETING  
WITH THE NEI LICENSE RENEWAL WORKING GROUP  
MARCH 8, 2000**

1. Status of applications
  - a. Calvert Cliffs
  - b. Oconee
  - c. Arkansas Nuclear One, Unit 1
  - d. Hatch
2. License renewal interest
3. Active license renewal issues status
4. License renewal implementation guidance development
  - Generic Aging Lessons Learned Report, standard review plan, regulatory guide, & industry implementation guideline (NEI 95-10)
5. Status of Environmental Activities
  - a. Rulemaking petition regarding severe accident mitigation alternatives
  - b. License renewal supplements to the standard review plan and regulatory guide

# FUTURE PLANT LICENSE RENEWAL APPLICATIONS

Budget Planning Assumptions	
FY	# Applications
00	2
01	4
02	4
03	8
04	8
05	8

- Notes**
1. Cumulative # of applications under review (assumes a 30-month review schedule).
  2. Applications received late in the 4Q are budgeted for the review to start in the following FY.
  3. The TBDs are shown in the 1Q of each FY. The graph will be modified as licensees announce their application target dates.
  4. Unannounced plants are shaded.



Application Submittals as Budgeted

Last Updated: March 6, 2000

## STATUS OF GENERIC LICENSE RENEWAL ISSUES

<b>Total License Renewal Issues</b>	Total	106
	Issues Deleted	5
	<b>Issues Resolved</b>	<b>11</b>
	Open Issues	90
<b>Open Issues</b>	Total	90
	<b>Issues Addressed by GALL and SRP</b>	<b>37</b>
	<b>Issues Addressed by SRP</b>	<b>12</b>
	Issues Addressed by NEI	25
	Other Issues	16

# LICENSE RENEWAL ISSUES

<i>Issue #</i>	<i>Title</i>	<i>Category</i>	<i>NEI Input</i>	<i>NRC Action</i>	<i>NEI Response</i>	<i>Resolution</i>
98-0005	APPLICABLE AGING EFFECTS	3				
98-0007	RISK-INFORMED LICENSE RENEWAL	3				
98-0008	COMPONENT LISTS	3				
98-0009	FSAR CONTENT	2		12/31/1999 M	01/31/2000	02/29/2000 M
98-0028	FATIGUE OF METAL COMPONENTS	2		08/06/1999 C	11/01/1999 M 11/30/1999 M	12/31/1999 M
98-0049	AGING MANAGEMENT OF INACCESSIBLE AREAS OF CONTAINMENT	3	11/04/1998 C	01/31/2000 M	02/29/2000	03/31/2000 T
98-0057	CREDITING MAINTENANCE RULE PROGRAM FOR MONITORING STRUCTURAL AGING.	3	03/26/1999 C	11/05/1999 M 02/29/2000 M	03/31/2000	04/30/2000 T
98-0070	HANDLING OF TASKS AND ASSOCIATED SCHEDULES	3				
98-0079	ABNORMAL EVENTS CONTRIBUTION TO AGING EFFECTS.	3				
98-0080	LEAKAGE FROM BOLTED CONNECTION, AN ABNORMAL EVENTS / ARDM FOR AGING.	3				
98-0082	HYPOTHETICAL FAILURES/CASCADING SUPPORT SYSTEMS IN SCOPING	2		08/05/1999 C 02/29/2000 M	03/31/2000	04/30/2000 T
98-0087	EVALUATION OF CONTAINMENT TEMPERATURE PROGRAM	3	10/13/1999 C	04/30/2000 T	05/31/2000 T	06/30/2000 T
98-0088	GENERAL INSPECTION REQUIREMENTS FOR LICENSE RENEWAL.	3				

<i>Issue #</i>	<i>Title</i>	<i>Category</i>	<i>NEI Input</i>	<i>NRC Action</i>	<i>NEI Response</i>	<i>Resolution</i>
98-0094	TECHNICAL SPECIFICATION INFORMATION	3				
98-0103	NEUTRON EMBRITTLEMENT OF REACTOR VESSEL INTERNALS	2		10/22/1999 M 12/31/1999 M	01/31/2000	02/29/2000 M
99-0105	HEAT EXCHANGERS HEAT TRANSFER FUNCTION	3		10/01/1999 C 11/19/1999 C	12/31/1999 M	01/31/2000 M

*Issues with scheduled action dates were on the Active Issues list. While subject matter of these issues may be addressed in the GALL Report and SRP, specific resolutions have yet to be determined.*

*C = Complete  
T = Target  
M = Missed*

## SCHEDULE

- 10/99 ✓ Meeting with NEI to plan initial workshop
- 12/99 ✓ Workshop on GALL and SRP outline
- 3/00 NEI provide aging/program information input to GALL
- 6/00 NEI provide revised NEI 95-10
- 8/00 Issue draft GALL, SRP, and RG/NEI 95-10 for public comment
- 9/00 Public meeting and workshop to gather public comments
- 10/00 NEI revise NEI 95-10
- 11/00 Commission briefing on public comments on draft GALL, SRP, and RG/NEI 95-10
- 2/01 ACRS meeting on GALL, SRP, and RG/NEI 95-10
- 3/01 Commission approval of GALL and SRP
- 4/01 NEI comments on need for rulemaking
- 5/01 Public meeting to discuss need for rulemaking
- 7/01 Staff recommendation to Commission on rulemaking