



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

August 3, 2000

ORGANIZATIONS: Nuclear Energy Institute (NEI), Entergy Operations, Inc. (Entergy), and Southern Nuclear Operating Company (SNC)

SUBJECT: SUMMARY OF LICENSE RENEWAL MEETING BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION (NRC) AND THE NEI LICENSE RENEWAL WORKING GROUP; ENTERGY FOR THE ARKANSAS NUCLEAR ONE, UNIT 1 (ANO-1); AND SNC FOR THE HATCH NUCLEAR PLANT, UNITS 1 AND 2 (HNP)

A joint meeting was held on July 20, 2000, to discuss generic renewal activities and the status of license renewal applications under review by the NRC. The meeting began with discussions between the NRC's License Renewal Steering Committee (LRSC) and NEI's License Renewal Working Group on the general status of license renewal applications and generic license renewal activities. The meeting continued with discussions between NRC management and Entergy and SNC regarding the reviews of the ANO-1 and HNP license renewal applications, respectively. Attendees at the meeting are listed in Attachment 1. Following is a summary of the discussions at the meeting:

NRC LRSC - NEI Working Group

The agenda for this portion of the meeting is provided in Attachment 2.

1. Status of applications: ANO-1 and Hatch

Entergy and SNC provided an overview of the status of their renewal application reviews. Communications continue to be good and the reviews of both applications are on or ahead of schedule. The NRC continues to encourage the applicants to identify lessons learned to enable the staff to improve the license renewal process.

2. New lessons learned from application reviews

NEI discussed a proposed activity that may assist in improving the request for additional information (RAI) process. The industry proposed to review a sample of RAIs issued to date for ANO-1 and Hatch as well as the RAIs issued for the Calvert Cliffs and Oconee reviews to categorize them as to the nature of the RAI. The categories are yet to be developed but examples provided included insufficient information in the application, valid technical questions, and RAIs answered in a different section of the application. The results of the review could then be used to better understand the validity and effectiveness of the RAIs developed by the staff and its contractors and better focus the RAI process and achieve efficiencies for the future. It was agreed to pursue this activity and the NRC staff will meet with the NEI License Renewal Task Force to develop a combined list of categories for the industry's RAI review.

3. Results of staff meetings with NEI:

a. May 25: GSI-190 - environmental effects on fatigue

A brief summary was provided of the May 25, 2000, meeting between the NRC staff and NEI to discuss treatment of coolant effects on component fatigue management in license renewal applications as described in GSI-190, "Fatigue Evaluation of Metal Components for 60-Year Plant Life." In the short term, the NRC intends to provide a description of an acceptable aging management program for fatigue environmental effects for use by renewal applicants. Over the long term, the NRC and industry intend to continue efforts to work to a generic solution and pursue changes in the American Society of Mechanical Engineers Code. NEI is establishing a task force for this activity and the industry and staff will meet to develop a proposed plan for pursuing a generic solution. The status of this activity will be periodically reported in future LRSC and NEI Working Group meetings.

b. June 28: New and significant information in environmental reviews

At the June 28, 2000, meeting between the NRC staff and NEI, the staff clarified its expectation regarding the process for addressing new and significant information during the environmental review of a renewal application. The staff intends to provide guidance in its Supplement 1 to Regulatory Guide 4.2, "Preparation of Supplemental Environmental Reports for Applications to Renew Nuclear Power Plant Operating Reactor." NEI indicated that it was satisfied with the outcome of the meeting.

4. License renewal implementation guidance development

Generic Aging Lessons Learned (GALL) Report, standard review plan (SRP-LR), regulatory guide (RG), & industry implementation guideline (NEI 95-10)

The schedule for issuing license renewal implementation guidance is contained in Attachment 3. NEI has provided comments on the early version of the drafts of the SRP-LR and GALL report that were made publicly available. Public meetings have also been held between the staff and NEI to clarify the comments received. Both the staff and industry believe these interactions have been beneficial and will improve the quality of the documents being issued for public comment in August 2000. NEI will provide a revised NEI 95-10 that should be consistent with the draft SRP-LR and GALL report. The documents will be issued for a 45 day comment period which NEI indicated would be sufficient for the industry. The staff is planning a public workshop in September 2000 to discuss the documents and intends to invite other stakeholders to participate.

5. License renewal interest - NRC planning assumptions

NEI had previously provided the staff with its survey of licensee interest in license renewal at the May 17, 2000 meeting (see the June 12, 2000, summary). NEI's intent was to poll licensee interest and update the report approximately three times per year. The staff indicated that because of the number of resources involved in reviewing an application, knowing the number of applications and the fiscal year quarter in which they are to be submitted is crucial to the NRC's

budgeting and planning process. It is difficult for the NRC to allocate the large number of resources for the number of plants NEI is indicating in its report when the potential applicants and the submittal dates are confidential. For example, the NRC staff can only confirm 3 applicants out of the 8 applications projected to be submitted in FY03 and may have to reassess the number of renewal applications it is budgeting to review in future years. NEI indicated that more interested licensees may inform the NRC of its plans if the NRC had a process for maintaining sensitive business information confidential. The LRSC responded that a process exists for handling business sensitive information and that it will consider issuing a regulatory information summary to notify licensees of the process and the importance of informing the NRC of plans for submitting renewal applications. NEI also indicated that it would do one more industry survey to update its report and would determine whether the information could be provided by fiscal year quarter.

At the end of the discussions, the staff asked NEI for its assessment of the stability and predictability of the license renewal process to date. NEI responded that the results could not be better with all renewal milestones having been met to date. Although a shorter schedule might seem preferable, the current 25 month review schedule (without hearing) is acceptable. The schedule is aggressive, but achievable, and it allows an applicant to maintain its renewal team together to support the NRC review process without lasting so long as to lose continuity. A predictable schedule is an advantage for an applicant's planning. Additionally, no significant regulatory creep, a concern of industry, has been seen. The industry considers license renewal process to be a success to date.

ANO-1 Renewal Application

The NRC staff and Entergy noted the accomplishments for the review of the ANO-1 license renewal application. The staff has met or exceeded all scheduling milestones to date for the review of the application. The staff's presentation materials are contained in Attachment 4 and Entergy's in Attachment 5.

The staff noted that since the last management meeting on May 17, 2000, all staff requests for addition information (RAIs) for the safety and environmental reviews have been forwarded to the applicant. Two milestones will come due prior to the next management meeting, the applicant's responses to the staff environmental RAIs (August 18, 2000) and the applicant's response to the staff safety review RAIs (September 12, 2000). The staff also summarized the environmental qualification meeting that took place on May 23, 2000, the scoping and screening audit completed on May 25, 2000, and the first working-level meeting between the staff and the applicant completed on July 12, 2000. The scoping and screening audit verified that the applicant's methodology met the requirements under 10 CFR 54, and was implemented consistent with Entergy's LRA. The effectiveness of the scoping methodology will be verified during the scoping inspection in December 2000. Finally, the staff noted that the RAI database was in place, and the safety evaluation report (SER) style guide had been developed and was in final review.

Entergy provided a similar summary. Entergy is pleased with the progress being made on the review of the ANO-1 application and the level of communication between the NRC and their staff. Some concern was noted by Entergy regarding the differences between the standard review plan and the table of content for the ANO-1 SER being developed by the staff. Entergy also discussed plans to evaluate the staff's RAIs and their willingness to work with the staff on that effort.

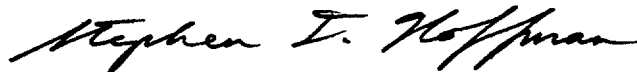
HNP Renewal Application

The NRC staff and SNC noted the accomplishments for the review of the HNP renewal application. The staff has met or exceeded all scheduling milestones to date for the review of the application. The staff's presentation materials are contained in Attachment 6 and SNC's in Attachment 7.

The staff noted that since the last management meeting on May 17, 2000, one milestone had been completed, the environmental RAIs were provided to SNC on June 23, 2000. The upcoming milestones are the staff's issuance of the safety review RAIs (completed on July 28, 2000) and SNC's response to the environmental RAIs (September 18, 2000). The staff also discussed the June 12-15, 2000, scoping and screening audit which was conducted at SNC headquarters in Birmingham, Alabama. The staff's audit did not identify any deficiencies in the methodology and the methodology should be sufficient to identify systems, structures, and components within the scope of the license renewal rule and subject to aging management review. The effectiveness of the scoping methodology will be verified during the scoping inspection in September 2000. Finally, the staff noted that the RAI database and style guide being used for the ANO-1 SER would also be used to prepare the HNP SER.

SNC stated that all work is on or ahead of schedule and that communications between SNC and the staff are good. To date, there have been no inconsistencies with past reviews identified. SNC expressed concern about the criteria for acceptability of revised probabilistic safety assessments in the SAMA analysis.

The next combined meeting involving the LRSC, NEI Working Group, NRC staff, and the applicants will be scheduled in September 2000.



Stephen T. Hoffman, Senior Project Manager
License Renewal and Standardization Branch
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Attachments: As stated

cc w/atts: See next page

Project No. 690

Docket Nos. 50-313 (Entergy); 50-321 and 50-366 (SNC)

Entergy provided a similar summary. Entergy is pleased with the progress being made on the review of the ANO-1 application and the level of communication between the NRC and their staff. Some concern was noted by Entergy regarding the differences between the standard review plan and the table of content for the ANO-1 SER being developed by the staff. Entergy also discussed plans to evaluate the staff's RAIs and their willingness to work with the staff on that effort.

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/RA/

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DOCUMENT NAME: G:\RLSB\HOFFMAN\Mtg7-20.wpd *See previous concurrence

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Docket Nos. 50-313 (Entergy); 50-321 and 50-366 (SNC)

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ATTENDANCE LIST
NRC LICENSE RENEWAL STEERING COMMITTEE MEETING
WITH THE NEI LICENSE RENEWAL WORKING GROUP
July 20, 2000

<u>NAME</u>	<u>ORGANIZATION</u>
1. Steve Hoffman	NRC/NRR/DRIP/RLSB
2. Jon Johnson	NRC/NRR/ADIP
3. Chris Grimes	NRC/NRR/DRIP/RLSB
4. Dick Wessman	NRC/NRR/DE
5. Stephen Burns	NRC/OGC
6. Margaret Federline	NRC/RES
7. Doug Walters	NEI
8. E. A. Thompson	Florida Power and Light (FPL)
9. Fred Polaski	PECO Energy
10. Geoff Schwartz	Com Ed
11. David Lewis	Shaw Pittman
12. Natelie Mosher	EOI
13. Garry G. Young	Entergy
14. Charles Willbanks	NUS Info Service
15. Charles Ader	NRC/NRR/DRIP
16. Jit Vora	NRC/RES/DET/MEB
17. Joe Muscara	NRC/RES/DET/MEB
18. Janice Moore	NRC/OGC
19. Pao-Tsin Kuo	NRC/NRR/DRIP/RLSB
20. Goutam Bagchi	NRC/NRR/DE
21. Sam Lee	NRC/NRR/DRIP/RLSB
22. Rani Franovich	NRC/NRR/DRIP/RLSB
23. Kimberley Rico	NRC/NRR/DRIP/RLSB
24. Robin Dyle	SNC
25. Charles Pierce	Southern Nuclear
26. Raymond D. Baker	Southern Nuclear
27. Roger Newton	WEPCO
28. Roger Huston	Licensing Support Services
29. Nancy Chapman	SERCH/Bechtel
30. Barry Zalzman	NRC/NRR/DRIP/RGEB
31. Ronald Clary	SCE & G
32. Steve Byrne	SCE & G
33. Greg Robison	Duke Energy
34. Barth Doroshuk	CNS, Inc.
35. Jim Lang	EPRI
36. Thomas Kenyon	NRC/NRR/DRIP/RGEB
37. Omid Tabatabai-Yazdi	NRC/NRR/DRIP/RLSB

38. Jim Strnisha	NRC/NRR/DRIP/RLSB
39. Stephen Koenick	NRC/NRR/DRIP/RLSB
40. Jim Wilson	NRC/NRR/DRIP/RGEB
41. William Burton	NRC/NRR/DRIP/RLSB
42. Tamara Bloomer	NRC/NRR/DRIP/RLSB
43. Peter J. Kang	NRC/NRR/DRIP/RLSB
44. Kathryn Sutton	Winston & Strawn
45. S. K. Mitra	NRC/NRR/DRIP/RLSB
46. Dwight Chamberlain*	NRC/Region IV
47. Caudle Julian*	NRC/Region II

* By telephone

AGENDA

NRC LICENSE RENEWAL STEERING COMMITTEE MEETING WITH THE NEI LICENSE RENEWAL WORKING GROUP JULY 20, 2000

1. Status of applications
 - a. Arkansas Nuclear One, Unit 1
 - b. Hatch
2. New lessons learned from application reviews
3. Results of staff meetings with NEI:
 - a. May 25: GSI-190 - environmental effects on fatigue
 - b. June 28: New and significant information in environmental reviews
4. License renewal implementation guidance development

Generic Aging Lessons Learned Report, standard review plan, regulatory guide, & industry implementation guideline (NEI 95-10)
5. License renewal interest - NRC planning assumptions

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**

ANO-1 RENEWAL STATUS- Schedule

Milestones Completed

- | | | |
|--|---------|----------|
| • Received LRA | 2/1/00 | Complete |
| • Acceptance review complete, LRA docketed | 3/1/00 | Complete |
| • All Environmental RAIs provided to Entergy | 6/26/00 | Complete |
| • All Safety Review RAIs provided to Entergy | 6/29/00 | Complete |

Next Milestones

- | | | |
|---|---------|---------|
| • Entergy responses to Environmental RAIs | 8/18/00 | Working |
| • Entergy response to Safety Review RAIs | 9/12/00 | Working |

ANO-1 RENEWAL STATUS - Accomplishments

- Received LRA 2/1/00
- Acceptance review complete, LRA docketed 2/28/00
- No filing for hearing or petition for intervention 3/31/00
- EQ meeting 5/23/00
- Scoping Audit 5/25/00
- All Environmental RAs provided to Entergy 6/05/00
- All Safety Review RAs provided to Entergy 6/21/00
- Working level meeting 7/12/00

ANO-1 RENEWAL STATUS - Other Activities

- RAI database has been developed
- SER style guide has been update
- Pre-draft SER has been put together
- First set of RAI responses recieved

ANO-1 License Renewal

Entergy and NRC Management Meeting

July 20, 2000



Entergy

ANO-1 License Renewal Status

Environmental Report (ER) Review Status

- *April 12, 2000 - NRC request for additional information on SAMA portion of ER (12 RAIs)*
- *June 5, 2000 - NRC request for additional information on hydrology (1 RAI)*
- *June 26, 2000 - Entergy responses to SAMA and hydrology questions (13 RAIs)*
- *Both the NRC and Entergy completed these milestone actions ahead of schedule*



ANO-1 License Renewal Status

LRA Review Status

- *Seven NRC Letters contained a total of 262 RAIs*
 - *April 17, 2000 - 20 RAIs on scoping, AMRs, and EQ*
 - *April 25, 2000 - 31 RAIs on RV, OTSG, TLAA, and EQ*
 - *May 2, 2000 - 29 RAIs on mech. & structural scoping*
 - *May 5, 2000 - 53 RAIs on scoping, AMRs, TLAA, prog.*
 - *June 1, 2000 - 60 RAIs on RCS, ESF, and structures*
 - *June 9, 2000 - 61 RAIs on aux. sys. and programs*
 - *June 23, 2000 - 8 RAIs on programs*



ANO-1 License Renewal Status

LRA Review Status *(cont.)*

- *Response Efforts for RAIs has included:*
 - *May 23, 2000 meeting in Rockville on EQ RAIs*
 - *May 23-25, 2000 meeting at ANO on scoping*
 - *May 25, 2000 Entergy letter on RAI response schedule*
 - *July 13, 2000 meeting at ANO on several RAIs*
 - *During May, June, and July several conference calls on RAIs*
 - *July 6, 2000 Entergy response letter on EQ RAIs*

ANO-1 License Renewal Status

LRA Review Status *(cont.)*

- *The NRC completed the RAI milestone ahead of the June 29, 2000 schedule*
- *Entergy is well on the way to completing the RAI responses no later than the September 12, 2000 milestone schedule*



Entergy

ANO-1 License Renewal Status

Plans for Feedback on RAIs

- *Entergy is developing a set of RAI categories that will be utilized during the RAI response preparation process*
- *Upon completion of the draft RAI responses, a report on our findings will be developed*
- *The report findings are expected to be available to share with the NRC during the September management meeting*



ANO-1 License Renewal Status

Plans for Feedback on RAIs (cont.)

- *The current set of RAI categories include:*
 - *Omissions or errors in the LRA*
 - *Appropriate technical questions*
 - *Prove the negative*
 - *RAIs that are answered in the LRA*
 - *RAIs that address aging mechanism vs. aging effect*
 - *RAIs that question the adequacy of the CLB*

ANO-1 License Renewal Status

Feedback on Standard Format Usage

- *ANO-1 utilized the NRC recommended standard format for an application*
- *Expected RAIs to be based on the same format; however, Sect. 3 RAIs did not utilize the standard format and this has been discussed with NRC*
- *We believe that this difference in format should be addressed such that the LRA, SER, SRP, and NEI 95-10 are based on this standard format*



Summary

- *All ANO-1 license renewal activities are currently on or ahead of schedule*
- *Communications continue to be frequent and effective*
- *Significant activities currently underway to discuss and address RAIs including visits to ANO by our NRC Project Manager*
- *No significant problems identified with the review process at this time*



HATCH LICENSE RENEWAL STATUS - SCHEDULE

Milestones Completed

Received LRA	3/1/00
Acceptance Review Complete, LRA Docketed	4/3/00
Environmental Scoping Meeting	5/10/00
Environmental RAls to Southern Co.	6/23/00

Next Milestones

Safety Review RAls to Southern Co.	7/28/00
Southern Co. Responds to Environmental RAls	9/18/00
Southern Co. Responds to Safety Review RAls	10/11/00

HATCH LICENSE RENEWAL STATUS - Accomplishments

Received LRA	3/1/00
Acceptance Review Complete, LRA Docketed	3/24/00
No Filing for Hearing or Petition to Intervene	5/3/00
Environmental Scoping Meeting	5/10/00
Scoping and Screening Audit	6/15/00
All Environmental RAIs to Southern Co.	6/23/00

License Renewal Status Report

Louis Long - Vice President, Technical Services
Chuck Pierce - License Renewal Manager
Ray Baker - Hatch Project Manager

July 20, 2000



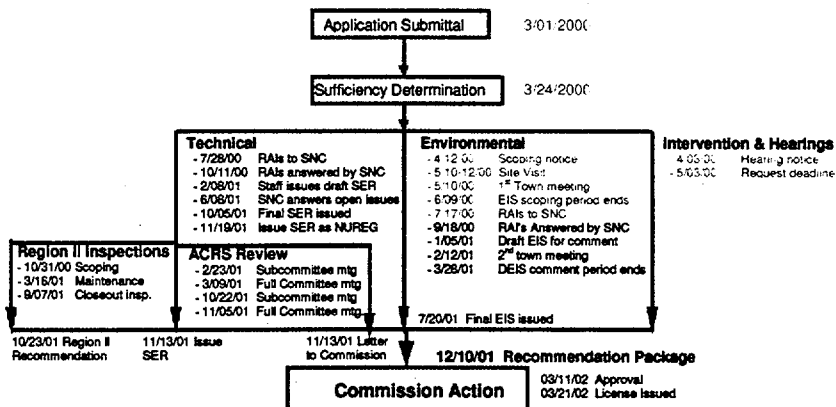
Objectives

- ◆ Brief NRC management on progress of license renewal application review.
- ◆ Establish performance standards for next two months.

July 2000 Report

- ◆ **Schedule Adherence**
 - Environmental - ahead of schedule
 - Technical - on schedule
- ◆ **Communications**
 - Open and clear w/daily communication
- ◆ **Consistency**
 - No significant inconsistencies with past reviews noted
- ◆ **Concerns**
 - Criteria for acceptability of revised PSAs in SAMA analysis.
- ◆ **Major Accomplishments**
 - First set of environmental RAIs sent (5/30)
 - Environmental scoping comment period ended (6/09)
 - NRC's Scoping/Screening methodology review (6/15)
 - » Conclusion - Methodology comprehensive and acceptable
 - Region II proposed inspection schedule issued (6/20)
 - All environmental RAIs transmitted (6/23)
 - Schedule shortened to 25 months (6/27)
 - First set of technical RAIs sent (7/14)
- ◆ **Other Notable Issues**
 - Numerous environmental scoping comments

License Renewal Schedule



Performance Expectations to July 17th

- ◆ SNC to provide its GEIS Category 1 conclusions - May 22th
 - SNC provided information on May 22th
- ◆ SNC to provide reformatted scoping data - May 24th
 - SNC provided information on May 24th
- ◆ SNC to provide reformatted program information - May 31th (Some programs may be provided earlier)
 - At NRC request, information will be provided with RAI responses
- ◆ All Environmental RAIs to SNC - July 17th
 - All environmental RAIs received by June 23th
- ◆ Technical RAIs to start (all RAIs due by July 28th)
 - Started receiving RAIs on July 14th. To date, SNC has received 118 RAIs

Performance Expectations to September 20th

- ◆ All technical RAIs issued - July 28th
- ◆ Environmental SAMA RAIs answered - July 29th
- ◆ All environmental RAIs answered by SNC - August 15th
- ◆ Region II scoping inspection underway - September 15th