



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

July 24, 2000

MEMORANDUM TO: ACRS Members
Noel Dudley
FROM: Noel Dudley, Senior Staff Engineer

SUBJECT: SUMMARY OF MEETINGS CONCERNING THE STATUS OF
LICENSE RENEWAL ACTIVITIES AND THE STANDARD REVIEW
PLAN CHAPTER REGARDING SCOPING AND SCREENING

I attended the NRC Steering Committee meeting on July 12, 2000. On July 18, 2000, I attended portions of the staff's meeting with Virginia Electric and Power Company (VEPCO) concerning its license renewal application for Surry and North Anna Power Stations and of its meeting with the Nuclear Energy Institute (NEI) concerning the draft Standard Review Plan (SRP), Chapter 2.

Steering Committee Meeting

The NRC License Renewal Steering Committee met on July 12, 2000, to discuss the reviews of the Arkansas Nuclear One (ANO), Unit 1, and Hatch license renewal applications; planning assumptions for future applications; lessons learned from the application reviews; environmental effects on fatigue (GSI-190); and license renewal generic guidance documents. Slides used during the meeting are attached. Information presented included:

- The number of requests for additional information (RAIs) issued for ANO are half the number issued for Oconee.
- The number of RAIs for Hatch are about the same as the number issued for Oconee and Calvert Cliffs (about 500). The number of RAIs is partially due to the structure of the license renewal application in which the description of management aging programs is repeated in several parts of the application.
- NEI is working with future applicants to assure use of the NEI's standard format for license renewal applications.
- The staff has been unable to accurately identify the number of future license renewal applications. Expected number of application to be submitted in 2002 increased from four to six. The staff budget was not significantly effected due to shifts in the schedules for other applications.

Ms. Margaret V. Federline, RES, provided the attached memorandum that identifies potential technical issues where additional RES work could be beneficial. She stated that NRR should work with RES to develop the Users Needs Requests that are necessary for RES to begin work.

Surry and North Anna Power Stations Combined License Renewal Application

Messrs. William Corbin and Michael Henig, VEPCO, presented sample license renewal application sections and discussed the format and content of the VEPCO application. The application will be submitted on a CD Rom disk, which contains hyperlinks. They demonstrated how a reviewer will be able to navigate the CD Rom to review the scoping, aging mechanisms, and aging management programs associated with given structures and components. Mr. Corbin explained that most structures and components at Surry and North Anna are similar. He noted, however, that structures and components unique to a single plant would be identified in the application.

The staff stated that it intended to review the combined application as a single application, but may issue two separate safety evaluation reports for legal and administrative reasons. The staff noted that the application and the draft SRP had the same format, which should make the review more efficient. The meeting handout is available upon request.

Draft Standard Review Plan, Chapter 2: Scoping and Screening

The staff and industry representatives discussed NEI's comments on the draft SRP, Chapter 2: "Structures and Components Subject to Aging Management." Issues discussed included:

- Reviewers should not consider Individual Plant Examinations, probabilistic risk assessments, or emergency operating procedures as part of the scoping process because these documents involve severe accidents, which are not part of the current licensing basis.
- Regulatory Guides and Industry Standards should not be use for scoping since each plant will have committed to a unique set of these documents as part of its current licensing basis.
- Design basis events are plant specific and therefore there is no structured way to review the scoping and screening processes used in an application.
- Licensees should not have to reconstitute their current licensing basis to identify their design basis events.

My impression from the discussions was that reviewers will not have a clearly defined methodology for reviewing the scoping and screening process. Reviewers will probably collect as many relevant documents as possible and rely on functionality evaluations to determine whether structures and components are safety related.

The NEI comments are available upon request.

- Attachments: 1. Slides used at NRC License Renewal Steering Committee Meeting, July 12, 2000.
2. Memorandum dated June 24, 2000, from Michael E. Mayfield, RES, for Margaret V. Federline, RES, Subject: Summary of License Renewal Steering Committee Meeting - Generic Technical Issues.

cc via e-mail w/o atts.:

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

AGENDA

NRC LICENSE RENEWAL STEERING COMMITTEE MEETING
JULY 12, 2000

1. Status of applications
 - a. Arkansas Nuclear One, Unit 1
 - b. Hatch
2. License renewal interest - NRC planning assumptions
3. New lessons learned from application reviews
4. 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
5. License renewal implementation guidance development

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

**ATTACHMENTS REGARDING FUTURE RENEWAL APPLICATIONS
CONTAIN CONFIDENTIAL BUSINESS INFORMATION
DO NOT RELEASE TO THE PUBLIC**

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 RAIs provided to Entergy 6/05/00
- All Safety Review RAIs 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

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 RAIs to Southern Co.	6/23/00

Next Milestones

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

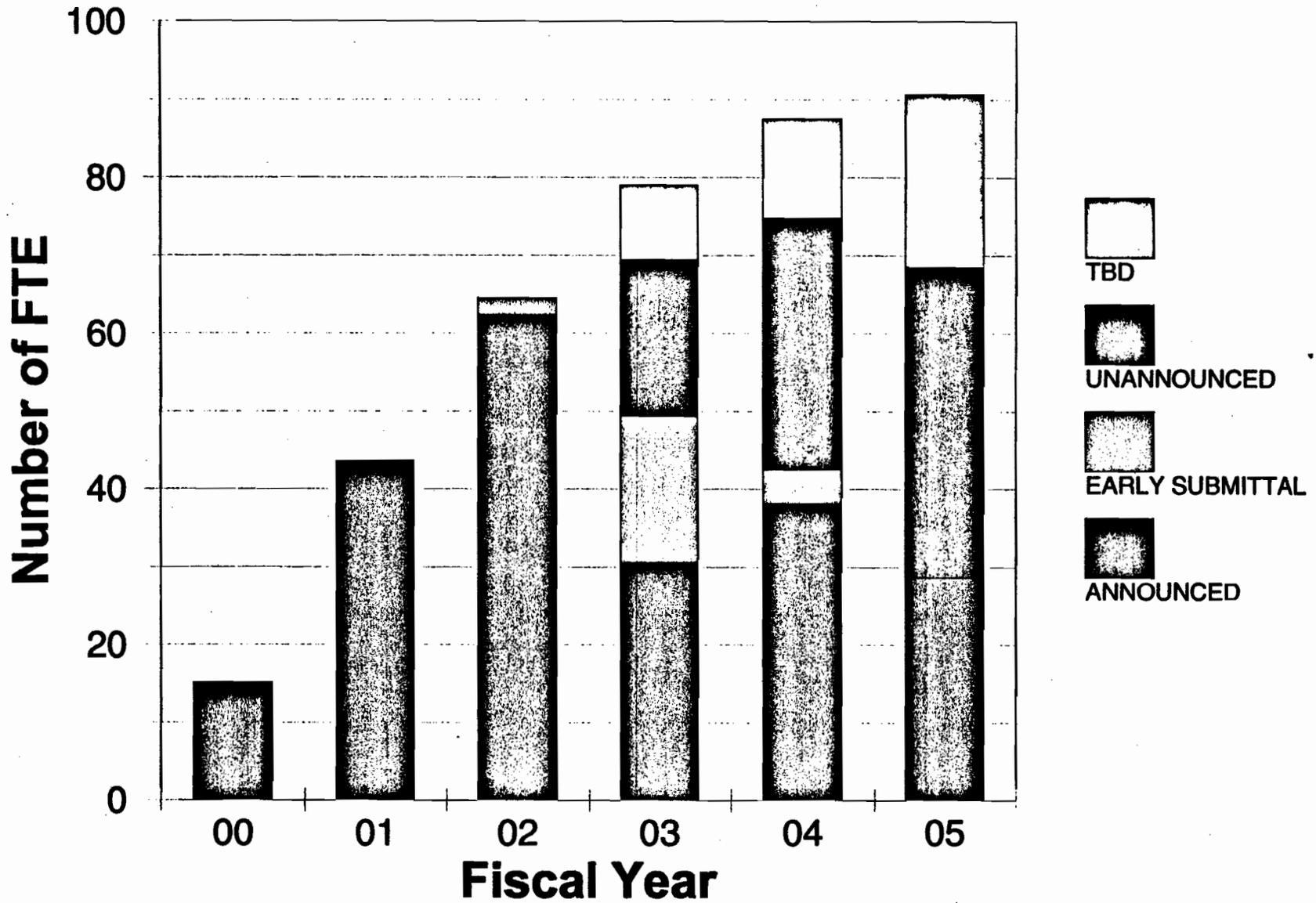
HATCH LICENSE RENEWAL STATUS - Accomplishments

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

HATCH LICENSE RENEWAL STATUS - Other Activities

- RAI database being developed
- SER style guide being developed

License Renewal FTE per Fiscal Year



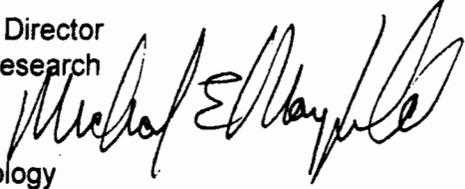


UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

June 26, 2000

MEMORANDUM FOR: Margaret V. Federline, Deputy Director
Office of Nuclear Regulatory Research

FROM: Michael E. Mayfield, Director 
Division of Engineering Technology
Office of Nuclear Regulatory Research

SUBJECT: SUMMARY OF LICENSE RENEWAL STEERING COMMITTEE
MEETING - GENERIC TECHNICAL ISSUES

In Research Action Item (RES # 2000133) dated June 9, 2000, you requested that DET identify those generic license renewal issues where additional RES work is needed to ensure robust support for and documentation of resolution, and include these activities in RES operating plan.

The attachment (items A and B) provides a list of potential generic license renewal technical issues whose resolution will provide added technical bases and acceptance criteria for the GALL report and SRP- LR. This list was developed based on the following attributes:

1. A review of Generic License Renewal Issue List and Standard Format developed by NEI, September 17, 1999.
2. Recategorization of Issues. Technical issues that are considered highly complex and those of medium complexity.
3. A review of Office of Research License Renewal Issues Report, developed by NRR/LRSB September 28, 1999.
4. A review of cross reference from the inventory to where the Generic License Renewal Technical Issues are addressed in the current version of the GALL report and SRP- LR.
5. Discussions with NRR/LRSB staff.
6. A review of letter from Christopher Grimes to Mr. Walters, NEI and Mr. Lochbaum, UCS, "Disposition of License Renewal Issue Inventory," May 4, 2000.
7. A review of Active license Renewal Issues List, October 26, 1999.
8. RES staff input to the development of the GALL report, April 11, 2000.
9. Policy and process issues are not considered.
10. Issues related to SRP format, style and editorial nature are not captured.

Two additional items that are considered relevant to the identification of additional technical issues for RES work are as follows:

A. In the revised user need from Collins to Thadani dated June 16, 2000, it is stated that NRR staff will work with the RES staff to identify those few complex technical license renewal issues, such as environmental effects on fatigue that may warrant a separate RES evaluation for future reference.

B. NRR/LRSB staff is suggesting that most of the license renewal issues are captured in the draft GALL report and they would be addressed by the comment process on the draft GALL report this fall. It is therefore, expected that after the completion of the public workshop in September/October, 2000 and the resolution of public comments additional generic technical issues for license renewal will be identified, and their resolution will require RES staff support.

The five items identified in the "A" category in the attachment have been incorporated in the operating plan. If additional items are identified from the public workshop or the stakeholder comments, they will be incorporated at that time, nominally the first quarter update for FY2001.

Please note that RES has completed the evaluation of five technical issues (item C), and has provided resolution packages to NRR staff for their considerations in the development of the GALL report and the SRP-LR.

Please let me or Jit Vora know if you need any additional information to prepare for your next License Renewal Steering Committee meeting, to be held on July 12, 2000.

Attachment: As stated

cc: A. Thadani
K. Karwoski

Distribution:
E. Hackett
S. Bahadur
J. Vora

A. Potential Generic Technical Issues Identified for Additional RES Work

98-0028, Fatigue of Metal Components

98-0044, Void Swelling of Reactor Internals

98-0049, Aging Management of Inaccessible areas of Containment

XX-XXXX, Aging Management of Cables in Inaccessible Areas

XX-XXXX, Aging Management of Non-ASME Structural Steel Bolted joints

B. Generic Technical Issues the RES staff is Currently Working

98-0029, Environmental Qualification of Low-Voltage I&C Cables
(as a part of GSI-168)

98-0093, IASCC as an Aging Effect for Core Shroud

98-0103, Neutron Embrittlement of RPV Internals

C. Generic Technical Issues Resolved/Completed by the RES Staff

98-0030, Thermal Aging Embrittlement of Cast Austenitic SS Components

98-0031, Irradiated Assisted SCC of Reactor Internal Components

98-0032, Stress Relaxation of PWR Internal Components

98-0083, SCC in Low Alloy Steel

98-0087, Evaluation of Containment Temperature Program