ENCLOSURE 3

ACTION - Beckjord, RES/
Murley, NRR
Cys: Taylor
Sniezek
Thompson
Blaha
Murley

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

OFFICE OF THE
SECRETARY

August 12, 1993

IN RESPONSE, PLEASE
REFER TO: M930803A

MEMORANDUM TO: James M. Taylor
Executive Director for Operations

FROM: Samuel J. Chilk, Secretary

SUBJECT: STAFF REQUIREMENTS - BRIEFING ON STATUS OF PART 100 RULE CHANGE AND PROPOSED UPDATE ON SOURCE TERM AND RELATED ISSUES, 10:00 A.M., TUESDAY, AUGUST 3, 1993, COMMISSIONERS' CONFERENCE ROOM, ONE WHITE FLINT NORTH, ROCKVILLE, MARYLAND (OPEN TO PUBLIC ATTENDANCE)

The Commission was briefed by the NRC staff on the status of the rule change to 10 CFR Part 100, the proposed update to the accident source term, and some related issues. The Commission raised several concerns regarding the prescriptive aspects of the proposed revisions to Part 100 as well as the form and content of the proposed rule issued for comment. In order to address these concerns, the Commission requested that further staff considerations for proposed revisions to Part 100 and the proposed update of the source term specifically address the following issues:

1. the extent to which the source term can be decoupled from the siting criteria in view of technological advancements,

2. the technical and safety-related basis for siting criteria as opposed to what the U.S. can accommodate,

3. the extent to which proposed reactor site criteria reflect concerns of potential users in other countries,

4. the pros and cons of less prescriptive revisions to Part 100 than those issued for public comment,

5. the extent to which the reactor siting criteria conform to stated risk objectives, such as the Safety Goal, and the extent to which emphasis should be given to less quantifiable objectives such as defense-in-depth or prudence,

6. the appropriate balance between deterministic and probabilistic seismic evaluations,

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7. the extent to which timing of proposed revisions are being driven by the prospects of an early site permit,

8. the extent to which proposed revisions support the Commission policy of consistent and predictable practice (e.g., the issue of assurance versus flexibility afforded by the proposed revisions),

9. plans to ensure that there is feedback between the source term development effort and the severe accident rulemaking process.

(BBB) RES/NRR (SECY Suspense: 11/19/93) 9000200

The idea of an international workshop or other appropriate forum for international interaction on these issues may also be worthy of consideration.

cc: The Chairman
Commissioner Rogers
Commissioner Remick
Commissioner de Planque
OGC
OCA
OIG
Office Directors, Regions, ACRS, ACNW, ASLBP (via E-Mail)
PDR - Advance
DCS - P1-24

ENCLOSURE 4

EXCERPTS
FROM FEDERAL REGISTER NOTICE OF LICENSE RENEWAL WORKSHOP
OF 9/30/93 (58 FR 42987-90, 8/12/93)

1. EXCERPT FROM "SUMMARY"

In 1989, the Commission published an advanced notice of proposed rulemaking for license renewal and, in mid-1990,-published the proposed rule that established the procedures, criteria, and standards governing nuclear power plant license renewal. The final license renewal rule, 10 CFR Part 54, included some changes from the proposed version and was published in December 1991. The rule became effective in January 1992.

Since publishing the final rule, the staff of the U.S. Nuclear Regulatory Commission (NRC) has been conducting various activities related to implementing the license renewal rule. These actions have included developing a regulatory guide and a standard review plan for license renewal, interacting with lead plant licensees, and reviewing generic industry technical reports sponsored by the Nuclear Management and Resources Council.

In late 1992, and partly in response to the identification of several license renewal implementation issues by the nuclear industry, the staff conducted a senior management review and interacted in several public meetings with the Commission, industry groups, and individual licensees to discuss key license renewal issues. The staff discussed its recommendations regarding these key license renewal issues in two recent Commission policy papers (SECY-93-049, "Implementation of 10 CFR Part 54, 'Requirements for Renewal of Operating Licenses for Nuclear Power Plants,'" and SECY-93-113, "Additional Implementation Information for 10 CFR Part 54, 'Requirements for Renewal of Operating Licenses for Nuclear Power Plants'").

In its staff requirements memorandum of June 28, 1993, the Commission indicated that it is essential that there be a predictable and stable regulatory process that defines the Commission's expectations in a clear and unequivocal way, so that licensees can make decisions about license renewal without those decisions being influenced as a result of a regulatory process that is perceived to be uncertain, unstable, or not clearly defined. The Commission directed the staff to convene a public workshop to evaluate alternative approaches for license renewal that best take advantage of existing licensee activities and programs as a basis for concluding that aging will be addressed in an acceptable manner during the extended period of operation. In particular, the Commission directed the staff to examine the extent to which greater

reliance can be placed on the maintenance rule (10 CFR 50.65) as a basis for concluding that the effects of aging will be effectively managed during the license renewal term.

As directed by the Commission, the staff is holding a public workshop to receive comments on how best to take advantage of existing programs as a basis for concluding that the effects of aging will be managed in an acceptable manner during the extended period of operation. As directed by the Commission, the workshop will not be limited to a discussion of approaches that could only be pursued under the language of the current license renewal rule and may include discussions concerning the potential need for additional rulemaking on 10 CFR Part 54. Subsequent to the workshop, the NRC staff will submit a summary of workshop results and recommendations for further license renewal activities, possibly including rulemaking, to the Commission for its consideration. Written comments on the issues to be covered in the workshop, as described in the questions and the alternative license renewal approaches presented later in this notice, will be accepted before, during, and after the workshop.

2. EXCERPT FROM INTRODUCTION TO "SUPPLEMENTARY INFORMATION"

The workshop has been arranged for the purpose of eliciting information and views on how best to take advantage of existing licensee programs as a basis for concluding that the effects of aging will be managed in an acceptable manner during the extended period of operation.
Specifically, the workshop will include discussion on the extent to which greater reliance can be placed on the maintenance rule as a bases for concluding that the effects of aging will be effectively managed during the license renewal term.

Enclosure 5

ACCIDENT MANAGEMENT VIEWGRAPHS

from

NSRRC SEVERE ACCIDENT SUBCOMMITTEE MEETING
OF AUGUST 2, 1993

ACCIDENT MANAGEMENT

- Around 1988, it became obvious that an important outcome of the IPEs would be identification of actions that could be taken by operators to prevent or mitigate certain severe accident scenarios.
- One of the key elements of the Severe Accident Closure Plan was for each utility to develop a framework for an accident management program which could accept new information on strategies as they became available either from IPEs or ongoing and future research.
- In conjunction with NRR, RES initiated an Accident Management Research Program to look at selected strategies and to define the key elements of an effective Accident Management Program
- This program met all of its objectives and was closed out in an orderly fashion in FY92.
  - Strategy assessments have been completed, documented, and provided to NRR

- 5 KEY ELEMENTS OF AN ACCIDENT MANAGEMENT PROGRAM WERE IDENTIFIED AND DEVELOPED AND FORWARDED TO NRR
- INDUSTRY HAS ADOPTED THE 5 ELEMENTS IDENTIFIED BY RES AND HAS "PICKED UP THE BALL" IN DEVELOPING AM PROGRAMS

- MANY OF THE INDUSTRY ACCIDENT MANAGEMENT STRATEGIES UTILIZED INFORMATION DEVELOPED BY THE RESEARCH PROGRAM (E.G., BWR VENTING)

- ALTHOUGH OUR FORMAL AM PROGRAM IS COMPLETED, WE ARE CONTINUING TO LOOK AT SELECTED AM STRATEGIES ASSOCIATED WITH SEVERE ACCIDENTS
  - DEPRESSURIZATION TO MITIGATE DCH (RPSB)
  - DEBRIS COOLABILITY (AEB)
  - CAVITY FLOODING (AEB)
  - QUENCHING OF A DEGRADED CORE (AEB)