



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

January 11, 1991

MEMORANDUM FOR: David Ward, Chairman
Advisory Committee on Reactor Safeguards

FROM: James M. Taylor
Executive Director for Operations

SUBJECT: ADVISORY COMMITTEE ON REACTOR SAFEGUARDS LETTER, NOVEMBER 14,
1990, REGARDING SECY-90-353, "LICENSING REVIEW BASIS DOCUMENT
FOR COMBUSTION ENGINEERING, INC., SYSTEM 80+ EVOLUTIONARY LIGHT
WATER REACTOR"

In SECY-90-353 the staff provided the Commission with comments and recommendations on the licensing review basis (LRB) document for System 80+ proposed by Combustion Engineering, Inc. (CE). Subsequently, in SECY-90-362 the staff provided the Commission with recommendations concerning; (1) the need to develop an LRB for the advanced passive light water reactor designs and for future advanced designs, and (2) the advisability of completing the CE System 80+ LRB. The staff recommended completing the System 80+ LRB because; (1) the effort was nearly complete, (2) the LRB would document the substantial effort by both the staff and CE, and (3) the LRB could be issued relatively soon after Commission guidance on SECY-90-353.

In the subject letter, the Advisory Committee on Reactor Safeguards (ACRS) recommended that no further effort be devoted to the proposed LRB document. The staff, for the reasons summarized above, continues to recommend LRB issuance. However, if the Commission decides not to issue the LRB, the staff recommends that a letter be issued enclosing (1) the proposed LRB forwarded by CE letter of January 22, 1990, (2) the changes to the proposed LRB forwarded by CE letter of August 28, 1990, (3) SECY-90-353, and (4) the ensuing staff requirements memorandum from the Secretary's office. At the ACRS subcommittee meeting on November 1, 1990, and at the full ACRS committee meeting on November 9, 1990, CE stated that there were no substantial differences between the staff and CE on the issues presented at those meetings. By issuing the above listed enclosures, the issues and the Commission directives regarding those issues will be documented with minimal expenditure of resources. The cover letter issuing these enclosures will characterize those issues where final agreement on wording has not been attained, as "to be resolved in the review process for final design approval." As noted in the ACRS meetings, two of the issues, source term and treatment of external events, are continuing for resolution

CONTACT:
T. Wambach, NRR
49-21103

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A PDR

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ACRS
X Proj #680

with the Electric Power Research Institute. This proposed letter would record the results of the efforts over the last two years in coming to an agreement on many issues and would identify the few remaining issues to be resolved.

Original Signed By
James M. Taylor

James M. Taylor
Executive Director
for Operations

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- cc: Chairman Carr
- Commissioner Rogers
- Commissioner Curtiss
- Commissioner Remick
- SECY

*SEE PREVIOUS CONCURRENCE

PDST:LA* <i>1/2/91</i>	PDST:PM* <i>2/2/91</i>	D:PDST*	TECH ED*	DD:DARSP*
PShea <i>1/2/91</i>	TWambach: cw <i>01/03/90</i>	CMiller		WTravers
11/26/90	11/26/90	11/28/90	11/26/90	11/28/90
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DCrutchfield	JPartlow	TMurley	JTaylor	
12/26/90	1/3/91	1/4/91	1/12/91	
DOCUMENT NAME: GT 5999				



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

ACTION

EDO Principal Correspondence Control

FROM:

DUE: 12/10/90
01/11/91

EDO CONTROL: 0005999
DOC DT: 11/14/90
FINAL REPLY:

Carlyle Michelson
ACRS

TO:

Chairman Carr

FOR SIGNATURE OF:

** GRN **

CRC NO: 90-1182

Executive Director

DESC:

SECY-90-353, LICENSING REVIEW BASIS DOCUMENT FOR
THE COMBUSTION ENGINEERING, INC. SYSTEM 80+
EVOLUTIONARY LIGHT WATER REACTOR

ROUTING:

Taylor
Sniezek
Thompson
Blaha
Beckjord, RES
Bernero, NMSS
Jordan, AEDO
Scinto, OGC
Central Files

DATE: 11/19/90

ASSIGNED TO:

CONTACT:

NRR

Murley

SPECIAL INSTRUCTIONS OR REMARKS:
PREPARE RESPONSE TO ACRS FOR EDO SIGNATURE.
PUT COMMISSIONERS AND SECY ON CC (SHOWN ON
ORIGINAL) FOR REPLY.

RECEIVED NRR: NOVEMBER 19, 1990
ACTION: DRSP: CRUTCHFIELD/MILLER

NRR ROUTING: MURLEY
MIRAGLIA
PARTLOW
RUSSELL
GILLESPIE
TANA

ACTION
DUE TO NRR DIRECTOR'S OFFICE
BY 12/5/90
01/07/91

OFFICE OF THE SECRETARY
CORRESPONDENCE CONTROL TICKET

PAPER NUMBER: CRC-90-1182 LOGGING DATE: Nov 16 90
ACTION OFFICE: EDO
AUTHOR: Carlyle Michelson
AFFILIATION: ACRS (ADVISORY COMMITTEE ON REACTOR SAFEGUARDS)
LETTER DATE: Nov 14 90 FILE CODE: O&M-7 ACRS
SUBJECT: SECY 90-353, licensing review basis document for
the CE, Inc. system 80+ evolutionary LWR
ACTION: Appropriate
DISTRIBUTION: Chrm, Comrs, OGC, RF
SPECIAL HANDLING: None
NOTES:
DATE DUE:
SIGNATURE: . DATE SIGNED:
AFFILIATION:

Rec'd Off. EDO
Date 11-19-90
Time 8:00

EDO --- 005999
90-12856-4 01

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

November 14, 1990

The Honorable Kenneth M. Carr
Chairman
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Chairman Carr:

SUBJECT: SECY-90-353, LICENSING REVIEW BASIS DOCUMENT FOR THE
COMBUSTION ENGINEERING, INC. SYSTEM 80+ EVOLUTIONARY
LIGHT WATER REACTOR

During the 367th meeting of the Advisory Committee on Reactor Safeguards, November 8-10, 1990, we reviewed the staff's SECY-90-353, "Licensing Review Basis Document for the Combustion Engineering, Inc. System 80+ Evolutionary Light Water Reactor," dated October 12, 1990. Our Subcommittee on Advanced Pressurized Water Reactors also considered this matter during a subcommittee meeting on November 1, 1990. During this review, we had the benefit of discussions with representatives of the NRC staff and of Asea Brown Boveri Combustion Engineering. We also had the benefit of the documents referenced.

The staff has recommended that the Licensing Review Basis (LRB) effort for the Combustion Engineering (CE) System 80+ design, which is well advanced, be continued to completion. There does not appear to be any substantive disagreement between the staff and CE on issues addressed in the LRB document.

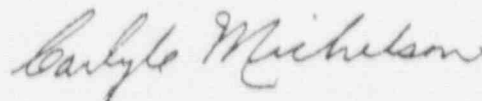
The only approved LRB document was proposed by the General Electric Company (GE) as a way of obtaining early agreement with the staff on major process and technical issues for the review of its advanced boiling water reactor design certification application. It was approved by the Director of NRR in a letter to Mr. R. Artigas, GE, on August 7, 1987. This letter contains the qualification that the LRB represented the approach in "certain key areas" that GE was committed to follow ". . . until final Commission positions and staff requirements are defined and implemented." At that time, neither 10 CFR Part 52 nor Commission-approved staff positions relating to the certification of advanced light water reactors such as SECY-90-016 (referenced) were available. We note that 10 CFR Part 52 does not discuss the use of LRB documents as a part of the final design approval or certification process. These regulatory requirements and others under development have preempted the need for and diminished the usefulness of an LRB document for the CE System 80+ design. We recommend that no further effort be devoted to the proposed LRB document for the CE System 80+ design.

9011200207

November 14, 1990

Additional comments by ACRS members Ivan Catton, Paul G. Shewmon, and J. Ernest Wilkins, Jr., are presented below.

Sincerely,



Carlyle Michelson
Chairman

Additional Comments by ACRS Members Ivan Catton, Paul G. Shewmon, and J. Ernest Wilkins, Jr.

We understand that this LRB document can be completed and issued with relatively little additional effort. If so, we would prefer to see an orderly disposition of this LRB document in accordance with the staff recommendation in SECY-90-362 (referenced). We would agree with our colleagues that the CE System 80+ LRB effort be terminated now if the Commission, the staff, and the ACRS need to invest any significant additional effort.

References:

1. SECY-90-353, "Licensing Review Basis Document for the Combustion Engineering, Inc. System 80+ Evolutionary Light Water Reactor," dated October 12, 1990.
2. SECY-90-362, "Staff Comments on the Continuing Need for a License Review Basis Document for Each Passive Design," dated October 24, 1990.
3. SECY-90-016, "Evolutionary Light Water Reactor (LWR) Certification Issues and their Relationship to Current Regulatory Requirements," dated January 12, 1990.
4. Letter LD-90-005 dated January 22, 1990 from A. E. Scherer, Combustion Engineering, to R. Singh, Subject: System 80+ Licensing Review Basis Document.
5. Letter LD-90-060 dated August 28, 1990, from E. H. Kennedy, Combustion Engineering, to Thomas V. Wambach, NRC, Subject: Licensing Review Basis for the System 80+ Standard Design.