

November 30, 2000

Mr. James F. Mallay
Director, Nuclear Regulatory Affairs
Siemens Power Corporation
2101 Horn Rapids Road
Richland, WA 99352

SUBJECT: SUPPLEMENT TO SAFETY EVALUATION AND TECHNICAL EVALUATION
REPORT CLARIFICATIONS FOR EMF-CC-074(P), VOLUME 4, REVISION 0,
"BWR STABILITY ANALYSIS ASSESSMENT OF STAIF WITH INPUT FROM
MICROBURN-B2" (TAC NO. MA7221)

Dear Mr. Mallay:

By letter dated November 24, 1999, as supplemented by letter dated May 19, 2000, Siemens Power Corporation (SPC) submitted Topical Report EMF-CC-074(P), Volume 4, Revision 0, "BWR Stability Analysis Assessment of STAIF With Input from MICROBURN-B2," for NRC review and acceptance for referencing. This topical report describes STAIF changes that were made to accept input from the recently improved steady-state core simulator, MICROBURN-B2. In addition to the review of STAIF methodology, by letter dated March 9, 2000, SPC requested a modification to the approved acceptance criteria for stability calculation to validate exclusion regions for the Enhanced-1 (E1A) Stability Long Term Solution.

By letter dated August 16, 2000, the NRC staff concluded that the STAIF refinements in EMF-CC-074(P), Volume 4, Revision 0, do not affect the previous staff conclusion that the STAIF methodology is acceptable for best-estimate decay ratio calculations and also that the proposed modifications to the approved acceptance criteria to validate exclusion regions to the Enhanced-1 (E1A) Stability Long Term Solution are acceptable. The NRC safety evaluation (SE) and the technical evaluation report (TER) from the NRC's consultant, Oak Ridge National Laboratory, were included with the August 16, 2000, letter.

By letter dated August 24, 2000, SPC requested NRC's concurrence with the following clarification in the TER.

In the TER, both the estimated accuracy of the STAIF system for the three types of instability and the approved E1A acceptance criteria presented are applicable to either configuration of the STAIF system (i.e., MICROBURN-B/STAIF or MICROBURN-B2/STAIF) described in EMF-CC-074(P), Volume 4.

The NRC staff has reviewed the request and found it acceptable. The SE is enclosed.

Pursuant to 10 CFR 2.790, we have determined that the enclosed SE does not contain proprietary information. However, we will delay placing the SE in the public document room for a period of ten (10) working days from the date of this letter to provide you with the opportunity to comment on the proprietary aspects only. If you believe that any information in the enclosure

is proprietary, please identify such information line by line and define the basis pursuant to the criteria of 10 CFR 2.790.

The staff will not repeat its review and acceptance of the matters described in the report, when the report appears as a reference in license applications, except to assure that the material presented is applicable to the specific plant involved. Our acceptance applies only to the matters described in the report.

In accordance with the procedures established in NUREG-0390, the NRC requests that SPC publish accepted versions of the report, including the SE, TER, and the SE supplement, in the proprietary and non-proprietary forms within 3 months of receipt of this letter. The accepted versions shall incorporate this letter and the enclosed evaluation, and the August 16, 2000, letter with its enclosed SE and TER, between the title page and the abstract. The accepted versions shall include an "-A" (designating accepted) following the report identification symbol. The accepted versions shall also incorporate all communications between the SPC and the staff during this review.

Should our criteria or regulations change so that our conclusions as to the acceptability of the report are no longer valid, SPC and the licensees referencing the topical report will be expected to revise and resubmit their respective documentation, or to submit justification for the continued effective applicability of the topical report without revision of their respective documentation.

Sincerely,

/RA/

Stuart A. Richards, Director
Project Directorate IV and Decommissioning
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Project No. 702

Enclosure: Safety Evaluation

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In accordance with the procedures established in NUREG-0390, the NRC requests that SPC publish accepted versions of the report, including the SE, TER, and the SE supplement, in the proprietary and non-proprietary forms within 3 months of receipt of this letter. The accepted versions shall incorporate this letter and the enclosed evaluation, and the August 16, 2000, letter with its enclosed SE and TER, between the title page and the abstract. The accepted versions shall include an "-A" (designating accepted) following the report identification symbol. The accepted versions shall also incorporate all communications between the SPC and the staff during this review.

Should our criteria or regulations change so that our conclusions as to the acceptability of the report are no longer valid, SPC and the licensees referencing the topical report will be expected to revise and resubmit their respective documentation, or to submit justification for the continued effective applicability of the topical report without revision of their respective documentation.

Sincerely,
/RA/
Stuart A. Richards, Director
Project Directorate IV and Decommissioning
Division of Licensing Project Management
Office of Nuclear Reactor Regulation

Project No. 702

Enclosure: Safety Evaluation

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SUPPLEMENT TO SAFETY EVALUATION BY THE OFFICE OF
NUCLEAR REACTOR REGULATION
TOPICAL REPORT EMF-CC-074(P), VOLUME 4, REVISION 0,
"BWR STABILITY ANALYSIS: ASSESSMENT OF
STAIF WITH INPUT FROM MICROBURN-B2"
SIEMENS POWER CORPORATION
PROJECT NO. 702

1.0 INTRODUCTION

By letter dated August 24, 2000, Siemens Power Corporation (SPC) requested the NRC's concurrence with the proposed clarification in the NRC consultant's, Oak Ridge National Laboratory, Technical Evaluation Report (TER), that both the estimated accuracy of STAIF system for the three types of instability and the approved E1A acceptance criteria presented are applicable to either configuration of the STAIF system (i.e., MICROBURN-B/STAIF or MICROBURN-B2/STAIF) described in EMF-CC-074(P), Volume 4, Revision 0. The staff has reviewed SPC's request for any discrepancy in the NRC safety evaluation and its attached TER transmitted by letter dated August 16, 2000.

2.0 EVALUATION

The staff has reviewed SPC's request with respect to the conclusion in the TER and concluded that SPC's proposed clarification is consistent with our original intent. Therefore, the staff concludes that the proposed clarification is acceptable.

3.0 CONCLUSION

Based on its review, the staff concurs with SPC's request that in the TER both the estimated accuracy of the STAIF system for the three types of instability and the approved E1A acceptance criteria presented are applicable to either configuration of the STAIF system (i.e., MICROBURN-B/STAIF or MICROBURN-B2/STAIF) described in EMF-CC-074(P), Volume 4, Revision 0.

Principal Contributor: T. L. Huang

Date: November 30, 2000