

SIEMENS

February 3, 2000
NRC:00:009

Document Control Desk
ATTN: Chief, Planning, Program and Management Support Branch
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

NRC Review of Siemens Power Corporation Topical Reports

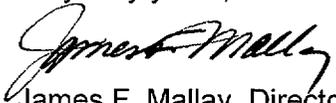
Ref.: 1. References are listed on page 2.

Siemens Power Corporation submitted two topical reports for NRC review and approval in References 1 and 2. The methodologies described in the topical reports provided in these two references utilize the code S-RELAP5 to perform transient and safety analyses for PWRs. In support of these two submittals, SPC is providing copies of the S-RELAP5 theory manual (Reference 3), programmer's manual (Reference 4), and user's manual (Reference 5). Eight copies of References 3, 4, and 5 have been provided directly to the NRC project manager for SPC, Mr. N. Kalyanam. SPC is also providing with this letter a CD containing the code S-RELAP5 and specific test cases. The CD also contains codes and files necessary to execute the test cases. The Attachment to this letter provides a description of the contents of the CD and how to extract the information from the CD. The CD has been provided directly to N. Kalyanam.

The version of S-RELAP5 described in References 3, 4, and 5, and contained on the CD, is that used for the analyses presented in the report transmitted by Reference 2 (PWR SBLOCA Methodology). The code version used for the analyses in the report accompanying Reference 1 (PWR Non-LOCA Methodology) was different in one respect. The difference between the two S-RELAP5 versions is in the implementation of the RODEX2 models. Since the RODEX2 model is not utilized for the PWR Non-LOCA methodology, the results are not affected by the difference.

Siemens Power Corporation considers the attachment and the enclosure to this letter to be proprietary. As required by 10 CFR 2.790(b), an affidavit is enclosed to support the withholding of this information from public disclosure.

Very truly yours,


James F. Mallay, Director
Regulatory Affairs

Enclosure/Attachment

cc: R. Caruso
N. Kalyanam (w/Enclosures)

R. R. Landry
Project No. 702

Siemens Power Corporation

2101 Horn Rapids Road
Richland, WA 99352

Tel: (509) 375-8100
Fax: (509) 375-8402

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- Ref.: 1. Letter, J. F. Mallay (SPC) to Document Control Desk (NRC), "Request for Review of EMF-2310(P) Revision 0, *SRP Chapter 15 Non-LOCA Methodology for Pressurized Water Reactors*," NRC:99:048, November 22, 1999.
- Ref.: 2. Letter, J. F. Mallay (SPC) to Document Control Desk (NRC), "Request for Review of EMF-2328(P) Revision 0, *PWR Small Break LOCA Evaluation Model, S-RELAP5 Based*," NRC:00:002, January 10, 2000.
- Ref.: 3. EMF-2100(P) Revision 2, *S-RELAP5 Models and Correlations Code Manual*, Siemens Power Corporation, January 2000.
- Ref.: 4. EMF-2101(P) Revision 1, *S-RELAP5 Programmers Guide*, Siemens Power Corporation, December 1999.
- Ref.: 5. EMF-CC-097(P) Revision 4, *S-RELAP5 Input Data Requirements*, Siemens Power Corporation, December 1999.