

# SIEMENS

PROJ 702

March 13, 2000  
NRC:00:015

U.S. Nuclear Regulatory Commission  
ATTN: Mr. J. S. Wermiel, Chief  
Reactor Systems Branch  
Mail Stop 10 B3  
Washington, D.C. 20555-0001

Dear Mr. Wermiel:

This letter provides projections for the submittal of topical reports by Siemens Power Corporation. These projections are summarized in Table 1, which also includes a brief description of each report. In addition, a summary of our understanding of the status of the topical reports currently being reviewed by the NRC is contained in Table 2.

SPC has submitted numerous topical reports to the NRC since these two tables were last updated in May 1999. The number of future submittals is more limited, but these reports are equally important to SPC because they address large break LOCA analyses and future fuel designs for both BWR- and PWR-type units.

SPC plans to submit two additional topical reports not shown on Table 1. Definitive completion dates have not been established for these reports because they will not be ready for review until after July 1, 2001. One report describes the SIERRA code and its application to the mechanistic analysis of fuel rod behavior. SIERRA is a best estimate code based on statistical methodologies and will replace RODEX2, which is conservatively biased and is used for bounding analyses. This report is planned for completion in mid-2001.

The second report (not included in Table 1) describes the application of three codes that are combined to analyze events with asymmetric power distributions that experience significant changes during the event, such as a control rod ejection accident. The three codes are S-RELAP5 for systems analysis, PANBOX for 3D kinetics analysis, and COBRA for thermal-hydraulics analysis. This report may not be completed until 2002.

Two NRC-initiated practices that have been recently instituted provide substantial benefits to the exchange of information and to the understanding of the expectations of both the NRC and SPC. One practice is the opportunity for SPC to present a description of each topical report to the NRC soon after its submittal. The second is the opportunity for the NRC to visit SPC to discuss open issues with the personnel who developed the report and the associated computer codes, and to execute sample problems on these codes. SPC anticipates that valuable results will flow from a continuation of these two practices.

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Mr. J. S. Wermiel  
March 13, 2000

NRC:00:015  
Page 2

SPC appreciates your continued attention to the timely review of these topical reports and for allocating an appropriate level of personnel.

Very truly yours,



*J.F.M.*  
James F. Mallay, Director  
Regulatory Affairs

/arn

Attachments - 2

cc: N. Kalyanam  
Project No. 702

**Table 1. Planned Topical Report Submittals – Siemens Power Corporation**

<b>Report</b>	<b>Planned Submittal Date</b>	<b>Comments</b>
EXEM/BWR LBLOCA	8/31/00	Simplifies the reflood analysis and reflects new V&V process.
PWR Realistic LBLOCA	9/30/00	Realistic LBLOCA analysis based on S-RELAP5.
Generic Mechanical Design for Duplex Cladding	8/31/00	New alloy added to outside of Zircaloy cladding to provide improved corrosion performance.

**Table 2. Topical Reports Under Review – Siemens Power Corporation**

Topical Report	Reviewer, Approximate Schedule for SER, & TAC Number
EMF-1961(P), <i>Statistical Setpoint/Transient Methodology for CE Reactors</i>	Undine Shoop, 3/31/00, (MA4659)
EMF-2245(P) Rev. 0, <i>Application of SPC's Critical Power Correlations to Co-Resident Fuel</i>	Ed Kendrick, 4/30/00, (MA6438)
EMF-2110(P) Rev. 1, <i>TELEPERM XS: A Digital Reactor Protection System</i>	Hulbert Li, 4/30/00, (MA1983)
EMF-2292(P) Rev. 0, <i>ATRIUM-10 Appendix K Spray Heat Transfer Coefficients</i>	Ed Kendrick, 4/30/00, (MA6785)
EMF-2209(P) Rev. 0, <i>SPCB Critical Power Correlation</i>	Tony Attard, 4/30/00, (MA6639)
EMF-CC-074(P) Vol. 4 Rev. 0, <i>BWR Stability Analysis Assessment of STAIF with Input from MICROBURN-B2</i>	Tai Huang & José March-Leuba, 6/30/00, (MA7221)
EMF-2310(P) Rev. 0, <i>SRP Chapter 15 Non-LOCA Methodology for Pressurized Water Reactors</i>	Ralph Landry, 9/30/00, (MA7192)
EMF-2157(P) Rev. 0, <i>Boiling Water Reactor Licensing Methodology Compendium</i>	Muffett Chatterton, Undefined, (MA7883)
EMF-2328(P) Rev. 0, <i>PWR Small Break LOCA Evaluation Model, S-RELAP5 Based</i>	Ralph Landry, 12/31/00, (MA8022)