

# SIEMENS

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

*Proj-702*

## SER Conditions for EMF-2209(P) Revision 1, "SPCB Critical Power Correlation"

The NRC has proposed that three conditions be included in the SER for EMF-2209(P), a topical report describing the SPCB critical power correlation. These conditions are:

1. The SPCB correlation is applicable to Siemens Power Corporation ATRIUM<sup>®</sup>-9B and ATRIUM-10 fuel designs with a local peaking factor no greater than 1.5.
2. If, in the process of calculating the MCPR safety limit, the local peaking factor exceeds 1.5, an additional uncertainty of 0.026 for ATRIUM-9B and 0.021 for ATRIUM-10 will be imposed on a rod by rod basis.
3. The range of applicability of the SPCB correlation shall be limited to:

Pressure (psia)	571.4 to 1432.2
Inlet mass velocity (Mlb/hr-ft <sup>2</sup> )	0.087 to 1.5
Inlet subcooling (Btu/lbm)	5.55 to 148.67

For clarification, it is noted that the values cited in the second condition are taken from Table 3.15 on page 3-39 of the topical report under "Incremental Uncertainty." The values in condition 3 are found in Table 1.1 on page 1-2. The peaking values in this table are addressed in condition 1.

Siemens Power Corporation has discussed these conditions with the NRC and agrees they are acceptable and appropriate.

Very truly yours,



James F. Mallay, Director  
Regulatory Affairs

/arn

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Project No. 702

\* ATRIUM is a trademark of Siemens.

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