



B&W NUCLEAR TECHNOLOGIES

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Mrs. Valeria Wilson, Chief
Administration Section
Planning, Program and Management Support Branch
Program Management, Policy Development and Analysis Staff
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: RELAP5/MOD2 Topical Report, BAW-10168P

Dear Mrs. Wilson:

On December 19, 1989 the B&W Fuel Company informed the NRC in a telephone call between Gene Hsui of the NRC and B. M. Dunn of the BWFC that an error existed in the RELAP5/MOD2-B&W computer code currently under review by the NRC. The error was in the definition of Beta squared, on page 2.3-46, as the ratio of blocked area to channel area. Beta squared should be the ratio of the flow area at the restriction to the channel area and the top of page 2.3-46 should read;

β^2 = fraction of the channel flow area unblocked,

$$1 - A_{\text{blocked}} / A_{\text{channel}}$$

This error occurred in both the documentation and in the coding for RELAP5/MOD2-B&W. BWFC has corrected the coding and will revise the documentation as soon as is practicable. There is no impact on reviewed material because the equation is only applied if rupture occurs and there have been no ruptures in any RELAP5/MOD2-B&W runs used during code assessment or application to date (ie. rupture has always occurred during reflooding).

Yours truly,
C. J. Taylor
for

J. H. Taylor, Manager
Licensing Services

cc: Gene Hsui, NRC
R. C. Jones, NRC
R. B. Borsum
T. L. Baldwin

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