



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555-0001

June 9, 1997

MEMORANDUM TO: Thomas T. Martin, Associate Director  
for Inspection and Technical Assessment  
Office of Nuclear Reactor Regulation

FROM: *for* Gary M. Holahan, Director *for*  
Division of Systems Safety and Analysis  
Office of Nuclear Reactor Regulation

SUBJECT: WAIVER OF CRGR REVIEW FOR WCAP-13524, AND WCAP-13524,  
REVISION 1, "APOLLO-A ONE DIMENSIONAL NEUTRON  
DIFFUSION THEORY PROGRAM"

REFERENCES: Memorandum from E. L. Jordan to T. E. Murley, "CRGR  
Consideration of Topical Reports", September 29, 1989.

Attached is the safety evaluation report (SER) prepared by the Division of System Safety and Analysis, in which the staff accepts for referencing WCAP-13524 and WCAP-13524, Revision 1. In accordance with the suggested revised procedures referenced above, the staff proposes that review by the Committee to Review Generic Requirements (CRGR) be waived.

WCAP-13524 and WCAP-13524 Revision 1, describe the APOLLO computer code and the first revision to the APOLLO computer code. APOLLO is a one-dimensional, two-group diffusion code that was evolved from the NRC approved computer code "PANDA". APOLLO is used for nuclear design analyses which do not require three-dimensional methods. The calculational accuracy of the APOLLO code for predicting the reactivity and axial power shapes is comparable to the three dimensional code "Advanced Nodal Code" (ANC).

According to its charter, CRGR should review each staff approval of topical reports. However, the staff believes that CRGR review is not necessary because WCAP-13524 does not present a new staff position. If you agree that a CRGR review is not necessary, please so indicate by signing below. Otherwise, the staff will prepare an appropriate CRGR package.

Attachment: As stated

*Thomas T. Martin for TM*

Thomas T. Martin

Approved: CRGR review is not necessary. *6/5/97*

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