



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

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DEC 09 1993

Mr. S. R. Tritch, Manager
Nuclear Safety Department
Westinghouse Electric Corporation
P. O. Box 355
Pittsburgh, Pennsylvania 15230-0355

DEC 9 1993

Dear Mr. Tritch:

SUBJECT: ACCEPTANCE FOR REFERENCING OF THE TOPICAL REPORT WCAP-13677,
"10 CFR 50.46 EVALUATION MODEL REPORT: WCOBRA/TRAC TWO-LOOP UPPER
PLENUM INJECTION MODEL UPDATES TO SUPPORT ZIRLO CLADDING OPTION"
(TAC NO. M86720)

We have concluded our review of the subject topical report of April 1993 submitted by the Westinghouse Electric Corporation. The report is acceptable for referencing in application of U.S. Nuclear Regulatory Commission (NRC)-approved versions of the Westinghouse Evaluation Model described in WCAP-10924 to Westinghouse plants featuring an upper plenum emergency core cooling system design and having cores containing VANTAGE+ (ZIRLO-clad) fuel. Such reference is acceptable to the extent specified and under the limitations delineated in the report and in the associated NRC evaluation, which is enclosed. The evaluation defines the basis of acceptance of the report.

We do not intend to repeat our review of the matters described in the report and found acceptable when the report appears as a reference in license applications, except to assure that the material presented is applicable to the specific plant involved. Our acceptance applies only to matters described in the report.

Because ZIRLO and Zircaloy are so similar, the Code of Federal Regulations was changed on August 31, 1992, so that ZIRLO is now covered by the provisions of 10 CFR 50.46 and 10 CFR Part 50 (Appendix K). Therefore, ZIRLO applications no longer require a special exemption from these aforementioned regulations, though other exemptions from certain requirements of these regulations specific to upper plenum injection plants continue to be required, as appropriate to the particular plant design.

In accordance with procedures established in NUREG-0390 "Topical Report Review Status," we request that Westinghouse Electric Corporation publish accepted versions of this topical report, proprietary and non-proprietary, within 3 months of receipt of this letter. The accepted versions shall incorporate this letter and the enclosed evaluation between the title page and the abstract. The accepted versions shall include an "A" (designating accepted) following the report identification symbol.

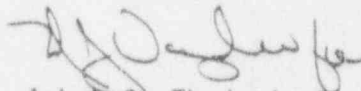
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Mr. S. R. Tritch

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If our criteria or regulations change so that our conclusions as to the acceptability of the report are invalidated, Westinghouse and/or the applicants referencing the topical report will be expected to revise and resubmit their respective documentation, or submit justification for the continued applicability of the topical report without revision of their respective documentation.

Sincerely,



Ashok C. Thadani, Director
Division of Systems Safety and Analysis
Office of Nuclear Reactor Regulation

Enclosure:
WCAP-13677 Evaluation