

Central Files

NOV 12 1982

Westinghouse Electric Corporation
ATTN: Mr. E. P. Rahe, Manager
Nuclear Safety Department
P. O. Box 355
Pittsburgh, Pennsylvania 15230

Dear Mr. Rahe:

Subject: Supplemental Acceptance Number 1 for Referencing of Licensing
Topical Report WCAP-9401/9402

The Nuclear Regulatory Commission (NRC) accepted for referencing Westinghouse Electric Corporation licensing topical report WCAP-9401/9402 entitled "Verification Testing and Analyses of 17x17 Optimized Fuel Assembly" by letter from R. L. Tedesco to T. M. Anderson dated May 7, 1981.

The NRC review, which culminated in the acceptance of the report WCAP-9401/9402 for referencing, considered a core containing only Optimized Fuel Assemblies (OFA's). The review of the use of OFA's mixed with standard assemblies had not been completed at that time. One of NRC's concerns regarding mixed cores of standard and optimized assemblies involved structural considerations--namely that structural component changes between the standard assembly and OFA can result in a change in mechanical responses to LOCA and seismic loads. NRC expected to evaluate these structural considerations for mixed core reloads in conjunction with our review of WCAP-9272 entitled "Westinghouse Reload Safety Evaluation Methodology."

Westinghouse in their letter from E. P. Rahe to L. S. Rubenstein on August 11, 1981 indicated a desire to further demonstrate generically that analyses for a full core of standard fuel and for a full core of optimized fuel bound all mixed core combinations. The Westinghouse March, 1982 letter from E. P. Rahe to J. R. Miller provided the results of several mixed core loading configurations and concluded that allowable limits are not exceeded for any of the plants encompassed of by the verification testing and analysis program of WCAP-9401/9402.

The NRC has completed its review of the seismic and LOCA loading and structural response considerations provided in the above submittals. Our safety evaluation is enclosed.

Based on our review, we have concluded that mixed cores of Westinghouse standard assemblies and OFA, subjected to seismic and LOCA forces given in WCAP-9401, are acceptable with respect to meeting the requirements of Appendix A to Standard Review Plan Section 4.2.

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As a result of our review, we find that Westinghouse licensing topical report WCAP-9401/9402 is acceptable for referencing in mixed cores license applications with respect to structural considerations, provided it is shown that the applied forces considered in WCAP-9401 bound the plant in question. Otherwise, additional analysis will be required. It should be noted that this acceptance pertains to the structural considerations previously stated in the introduction to the Safety Evaluation Report on WCAP-9500 relative to mixed cores. The core physics and thermal hydraulic reservations expressed in that SER remain applicable and will be addressed in the near future.

We do not intend to repeat the review of the safety features described in the topical report as augmented by responses to staff questions and found acceptable in the attachment. Our acceptance applies only to the features described in the topical report and the auxiliary documents and under the conditions discussed in the enclosure.

In accordance with established procedure (NUREG-0390), it is requested that Westinghouse Electric Corporation publish an accepted version of this report, proprietary and non-proprietary. The accepted version is to incorporate this letter, including the attached topical report evaluation, following the title page and thus just in front of the abstract. The report must appropriately include all supporting information submitted relevant to NRC's mixed core structural concerns. The report identifications of the approved reports are to have a -A suffix.

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

Sincerely,

Cecil O. Thomas, Acting Chief
Standardization and Special
Projects Branch
Division of Licensing

Enclosure: DISTRIBUTION
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As a result of our review, we find that Westinghouse licensing topical report ~~WCAP-9401/9402~~ is acceptable for referencing in mixed cores license applications with respect to structural considerations, provided it is shown that the applied forces considered in WCAP-9401 bound the plant in question. Otherwise, additional analysis will be required. It should be noted that this acceptance does not pertain to the physics and thermal-hydraulic concerns relative to mixed cores expressed in the SER introduction on WCAP-9500.

We do not intend to repeat the review of the safety features described in the topical report as augmented by responses to staff questions and found acceptable in the attachment. Our acceptance applies only to the features described in the topical report and the auxiliary documents and under the conditions discussed in the enclosure.

In accordance with established procedure (NUREG-0390), it is requested that Westinghouse Electric Corporation publish an accepted version of this report, proprietary and non-proprietary. The accepted version is to incorporate this letter, including the attached topical report evaluation, following the title page and thus just in front of the abstract. The report must appropriately include all supporting information submitted relevant to NRC's mixed core structural concerns. The report identifications of the approved reports are to have a -A suffix.

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Sincerely,

Cecil O. Thomas, Acting Chief
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Enclosure:
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