

October 13, 1982

Mr. James H. Taylor, Manager  
Licensing  
Babcock & Wilcox Company  
P. O. Box 1260  
Lynchburg, Virginia 24505

Dear Mr. Taylor:

Subject: Acceptance for Referencing of Licensing Topical Report BAW-10133(P)  
Revision 1

The Nuclear Regulatory Commission (NRC) has completed its review of the Babcock & Wilcox Company (B&W) licensing topical report BAW-10133(P) entitled "Mark C Fuel Assembly LOCA-Seismic Analyses-Revision 1" dated May 1979. This report describes the methods and models used in the B&W 17x17, Mark C fuel assembly (FA) and in other FA LOCA and seismic dynamic analyses. The report also provides specific results of analyses methods in the Appendix C. The report concludes that the mathematical models used for the dynamic analysis of the reactor core characterize the fuel assembly response under seismic and LOCA excitations. The report further concludes that results of the fuel assembly analyses indicate that the fuel assemblies can withstand an operational base earthquake (OBE), a safe shutdown earthquake (SSE) loss of coolant accident (LOCA) and a combined SSE plus LOCA without exceeding the respective design limits. Our safety evaluation report (proprietary and non-proprietary) prepared by our contractor-EG&G is enclosed.

Based on our review, we conclude that the structural analysis methods, including the component representation, employed by B&W in the licensing topical report BAW-10133(P), Revision 1 are acceptable for calculating fuel system structural response to seismic and LOCA transients for Mark C and similar fuel assemblies.

As a result of our review, we find that B&W licensing topical report BAW-10133(P) entitled "Mark C Fuel Assembly LOCA-Seismic Analyses, Revision 1" dated May 1979, as supplemented by information contained in B&W's responses to NRC's requests for additional information provided in two B&W letters from J. H. Taylor to J. R. Miller dated September 5, 1980 and to R. O. Meyer dated February 15, 1982, is acceptable for referencing in licensing applications involving Mark C and similar fuel assemblies in order to show that these components meet the structural acceptance criteria described in Appendix A to Section 4.2 of the NRC Standard Review Plan.

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*B&W*

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C PDR

Attachment to be Withheld from Public Disclosure

OFFICE ▶	.....	.....	.....	.....	.....	.....	.....
SURNAME ▶	.....	.....	.....	.....	.....	.....	.....
DATE ▶	.....	.....	.....	.....	.....	.....	.....

Mr. James H. Taylor, Manager

-2-

October 13, 1982

Attachment to be Withheld from Public Disclosure

We do not intend to repeat our review of this topical report when it appears as a reference in a particular license application, except to assure that the material presented is applicable to the specific plant involved. Our acceptance applies only to the features described in the topical report.

In accordance with established procedures (NUREG-0390), it is requested that Babcock & Wilcox Company publish accepted proprietary and non-proprietary versions of the topical report appropriately incorporating information provided in the responses to NRC's requests for additional information identified above, within three months of receipt of this letter. The accepted versions must include this letter and the enclosed appropriate evaluation following the title page. The report identification symbols must have a -A suffix.

Should Nuclear Regulatory Commission criteria or regulations change, such that our conclusions as to the acceptability of the report are invalidated, Babcock & Wilcox Company 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,

ORIGINAL SIGNED BY:

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

Enclosures:  
As Stated

cc: Robert B. Borsum  
Licensing Representative  
Nuclear Power Generation Division  
Babcock & Wilcox Company  
Suite 220  
7910 Woodmont Avenue  
Bethesda, Maryland 20814

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DESIGNATED ORIGINAL  
Certified By C. Berlinger 10/15/82

\*SEE PREVIOUS PAGE FOR CONCURRENCES

OFFICE	SSPB:DL	SSPB:DL	SSPB:DL	SSPB:DL		
SURNAME	*JBerggren:cc	*PAnderson	CBerlinger	CTThomas		
DATE	10/7/82	10/6/82	10/12/82	10/12/82		

Mr. James H. Taylor, Manager

-2-

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Sincerely,

Cecil O. Thomas, Acting Chief  
Standardization & Special  
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