

October 16, 1978

Mr. D. B. Vassallo
Assistant Director for LWR
Division of Project Management
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Vassallo:

Enclosed are 40 copies of B&W proprietary Topical Report BAW-10085P, Revision 4, "Reactor Protection System."

This revision describes the revised algorithm to be used in the calculating module that was discussed with the Staff last spring. Also included in the topical by this revision are a description of the optical isolation employed in the RPS-II and the reliability analysis previously transmitted by my letter of March 15, 1978. Other portions of the topical report have received minor changes to correct editorial errors and bring their content in line with the calculating module algorithm. Revision to Section 4, "Software", remains to be completed and will be incorporated into BAW-10085 by December 15, 1978.

With this revision, the topical report has been divided into two volumes. Volume 1 contains Sections 1 through 5 of the former report while Volume 2, contains Appendix A, responses to NRC questions, and Appendix B, the RPS-II reliability analysis. The pages in Volume 1 should be integrated with Revision 3, discarding Revision 3 pages for which replacements are provided in Revision 4. The Appendix of Revision 3 should be discarded. It has been replaced, as Appendix A, in Volume 2 of Revision 4.

Portions of this revision contain information developed solely by B&W. The details of the RPS-II design and development methodology contained in this report are not available in the open literature and disclosure would provide knowledgeable individuals with information which might impair B&W's competitive position. This material has been held as confidential within the Company and has not been disclosed to any other person except on a proprietary basis. The proprietary Topical Report BAW-10085 was originally submitted June 4, 1974 (J. F. Mallay to A. Giambuso). A non-proprietary version of this report will be supplied in the near future.

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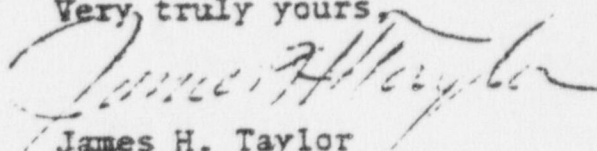
Mr. D. B. Vassallo

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If you have any questions, please contact Mr. George C. Schieck of my staff (Ext. 2971).

Very truly yours,



James H. Taylor
Manager, Licensing

JHT:dsf

Enclosures

cc: R. B. Borsum (B&W) (2)

DOCKET NO. _____

DATE: 10-25-78

NOTE TO NRC AND/OR LOCAL PUBLIC DOCUMENT ROOMS

The following item submitted with letter dated 10-16-78
from Babcock & Wilcox is being withheld from public
disclosure in accordance with Section 2.790.

PROPRIETARY INFORMATION

BAW-10085 P, Rev. 4

Edward Wood
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Distribution Service's Branch