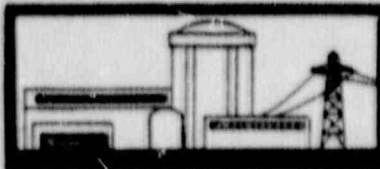


**THE B&W OWNERS GROUP**

Arkansas Power & Light Company  
Duke Power Company  
Florida Power Corporation  
GPU Nuclear Corporation

ANO-1  
Oconee 1, 2, 3  
Crystal River 3  
TMI-1



Sacramento Municipal Utility District  
Toledo Edison Company  
Tennessee Valley Authority  
Babcock & Wilcox Company

Rancho Seco  
Davis Besse  
Belleville 1,2

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October 12, 1989  
OG-584

Dr. Thomas E. Murley  
Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Mr. J. A. Norberg

Subject: B&W Owners Group - Master Integrated Reactor Vessel  
Surveillance Program (MIRVP)

Dear Dr. Murley:

On behalf of the B&W Owners Group Reactor Vessel Working Group, we have enclosed for NRC approval five (5) copies of report BAW-1543, Rev. 3, "Master Integrated Reactor Vessel Material Surveillance Program." This document is intended to replace BAW-1543A, Rev. 2 and its Addendum 1.

BAW-1543 describes the integrated reactor vessel surveillance program (IRVSP) for B&W-fabricated PWR reactor vessels containing seam welds fabricated by the automatic submerged arc process using copper plated Mn-Mo-Ni steel filler metal and Linde 80 flux. Originally, this report included only the B&W-designed and fabricated 177-FA reactor vessels. Revision 3 expands the program to also address the Westinghouse-designed, B&W-fabricated reactor vessels. All operating PWRs in the U.S. that were fabricated with the "Linde 80" weld material have joined in the Master Integrated Reactor Vessel Surveillance Program (MIRV) and are therefore included in this report. Your approval of this revision would allow the "Westinghouse" Owners to reference BAW-1543 in their plants' Technical Specifications as the controlling document for their RVSP, as the B&W Plant Owners have already done. This would greatly simplify and consolidate regulatory activities relative to the "Linde 80" welds.

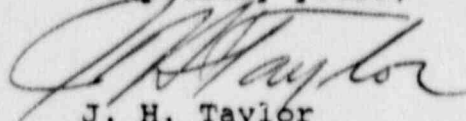
BAW-1543, Rev. 3, describes the approach that the B&W vessel Owners will use in addressing the "Linde 80" welds. In addition to the six supplementary capsules that were previously added to the program, eight irradiation capsules are discussed which further expand the fracture toughness data base for this class of materials and include life extension and annealing considerations. The MIRVP, therefore, includes a total of 17 plant-specific RVSPs and 14 supplementary material irradiation capsules. The information obtained from all of these sources is coordinated and shared to maximize the usefulness of the data.

BAW-1543, Rev. 3, also changes the schedule for some plant-specific RVSPs to optimize the usefulness of the remaining capsules. End-of-life fluences were recalculated for a number of vessels and the remaining capsules' withdrawal schedules were revised to be consistent with the new vessel fluences. A number of capsules will be stored after irradiation pending further evaluation. Other capsules are used only for dosimetry.

BAW-1543, Rev. 3, also includes pertinent reactor vessel information, such as the description and properties of surveillance and vessel materials, estimated end-of-life reference temperatures and Charpy upper-shelf energies, neutron dosimetry, and the status of all capsules in the program.

The B&W Owners Group Reactor Vessel Working Group believes it to be essential that this program be implemented as soon as possible. To that end, the new supplementary capsules are currently being fabricated for insertion in Crystal River-3 and Davis-Besse during the February/March outages. Accordingly, Babcock & Wilcox, acting for the B&W Owners Group, requests NRC approval of this report no later than January 1, 1990 to support these insertion schedules.

Very truly yours,



J. H. Taylor  
Manager  
Licensing Services

JHT/leh

Enclosure

cc: R. B. Borsum - B&W  
C. Y. Cheng - NRC  
B. J. Elliot - NRC  
L. Lois - NRC  
P. N. Randall - NRC

cc: B&WOG Reactor Vessel Working Group

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D. L. Howell	- B&W

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R. J. McGoey - GPUN  
R. Schrauder - TE