

60-289

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO:

Mr. Robert W. Reid

FROM:

Metropolitan Edison Company
Reading, Pa.
J. G. Herbein

DATE OF DOCUMENT

9/15/77

DATE RECEIVED

9/19/77

☒ LETTER☐ NOTORIZED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED

☒ ORIGINAL
☐ COPY☒ UNCLASSIFIED

XXXXXXXXXXXX

1 signed

DESCRIPTION

Ltr ref our ltr of 5/18/77

Ltr. requesting withholding pursuant to
10 CFR 2.790....trans the following:

ENCLOSURE

Response to NRC request for information
on Reactor Vessel Material Surveillance
Program of TMI-1....DISTRIBUTION FOR MATERIAL ON REACTOR VESSEL
DATA PER R. INGRAM 5-26-77

(2-P)

(15-P)

PLANT NAME: Three Mile Island Unit No. 1

RJL 9/19/77 Cys. 37 THRU 40 SENT L.A.

withholdings Granted
per ltr b7D 12/17/77
39 cys rec'd

SAFETY

FOR ACTION/INFORMATION

BRANCH CHIEF:

PROJECT MANAGER:

LIC. ASST:

Reid #17
Zwetz #18
Ingram #19

INTERNAL DISTRIBUTION

REG FILE #14
NRC PDR LTR
I & E (2) #203
OELD #4
MIPC #5
HANAUER #6
PAWLICKI #7
EISENHUT #8
SHAO #9
BAER #10
BUTLER #11
GRIMES #12
HAZELTON #13
HOGE #14
R. GAMBLE #15
RANDALL #16

R. DIGGS #36

EXTERNAL DISTRIBUTION

LPDR: Harrisburg, PA. LTR
TIC LTR
NSIC LTR
ACRS 16 CYS CATEGORY B
Cys. #20 THRU 35

CONTROL NUMBER

1589 100

772620108

7910310 695 p



METROPOLITAN EDISON COMPANY

REGULATORY BRANCH

POST OFFICE BOX 542 READING, PENNSYLVANIA 19603

TELEPHONE 215 - 929-3601

September 15, 1977
GQL 1197

Mr. Robert W. Reid, Chief
Operating Reactors Branch #4
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Sir:

Operating License No. DPR-50
Docket No. 50-289



Enclosed please find one signed original and 39 copies of the information requested in your letter of May 18, 1977, concerning reactor vessel materials. This response contains weld metal chemistry information as taken from the material test reports. However, B&W is investigating the uncertainty in the chemical composition of certain weld metal materials as a part of the B&W Integrated Surveillance Program. Therefore, this weld metal information will be revised upon completion of the B&W study.

On January 15, 1975, the NRC acknowledged their acceptance of BAW - 1006A, Rev. 3. Therefore, as allowed by your letter of May 18, 1977, we are referencing this report as our response to question 5d.

It should be noted that the "Best Estimate Maximum EOL Fluence at Inner Wall" of 2.1×10^{19} n/cm² appearing in Tables 1 and 3 is a conservative generic design value used by B&W, and it should not be compared to the TMI-1 best estimate of 1.8×10^{19} n/cm² based on the first surveillance capsule analysis reported in BAW - 1439, January 1977.

In addition to the above, in-house review has necessitated preparation of an Errata Sheet which is attached to each response package.

1589 101

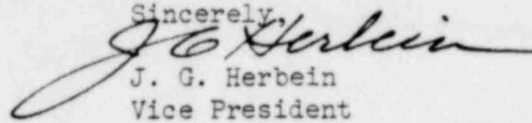
772620108

Mr. Robert W. Reid, Chief

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September 15, 1977
GQL 1197

Each copy of this response package is preceded by a signed affidavit describing the proprietary nature of the material being transmitted. You are requested to maintain this information as proprietary as described in the affidavit.

Sincerely,

J. G. Herbein
Vice President

JGH:DGM:dkf

Enclosure: 1. Response to NRC Request for Reactor Vessel Material Information

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ERRATA SHEET

RESPONSE TO NRC REQUEST FOR INFORMATION
ON REACTOR VESSEL MATERIAL SURVEILLANCE PROGRAM OF TMI-1

Page 1:

- 5b Change, "The data requested on the surveillance weld metal is provided in Table 1."

To Read, "The data requested on the surveillance weld metal is provided in Tables 1 & 2."

- 5c Change, "The data requested on the surveillance base metal(s) is provided in Table 2."

To Read, "The data requested on the surveillance base metal(s) is provided in Tables 3 & 4."

- 5d Change, "A copy of the Topical Report describing the capsules of the surveillance program is attached (BAW -10006A, Rev. 3)."

To Read, "A copy of the Topical Report describing the capsules of the surveillance program is attached (BAW -1006A, Rev. 3)."

Table 3:

For "Heat Number" C3251 - 1, delete the entry "Base Metal B" under the column headed "Surveillance Base Metal."

Note: This was not one of the surveillance welds.

Table 4:

For "Base Metal Identification No." C3251 - 1, delete the entry "75" under the column headed "Impact Properties, Cv-USE, Ft-Lbs."

Note: This was an estimated value and not a measured value.

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AFFIDAVIT OF JAMES H. TAYLOR

- A. My name is James H. Taylor. I am Manager of Licensing in the Nuclear Power Generation Division of Babcock & Wilcox, and as such I am authorized to execute this Affidavit.
- B. I am familiar with the criteria applied by Babcock & Wilcox to determine whether certain information of Babcock & Wilcox is proprietary and I am familiar with the procedures established within Babcock & Wilcox, particularly the Nuclear Power Generation Division (NPGD), to ensure the proper application of these criteria.
- C. In determining whether a Babcock & Wilcox document is to be classified as proprietary information, an initial determination is made by the unit manager who is responsible for originating the document as to whether it falls within the criteria set forth in Paragraph D hereof. If the information falls within any one of these criteria, it is classified as proprietary by the originating unit manager. This initial determination is reviewed by the cognizant section manager. If the document is designated as proprietary, it is reviewed again by Licensing personnel and other management within NPGD as designated by the Manager of Licensing to assure that the regulatory requirements of 10 CFR Section 2.790 are met.
- D. The following information is provided to demonstrate that the provisions of 10 CFR Section 2.790 of the Commission's regulations have been considered:
- (i) The information has been held in confidence by the Babcock & Wilcox Company. Copies of the document are clearly identified as proprietary. In addition, whenever Babcock & Wilcox transmits the information to a customer, customer's agent, potential customer or regulatory agency, the transmittal requests the recipient to hold the

AFFIDAVIT OF JAMES H. TAYLOR (CONT'D.)

information as proprietary. Also, in order to strictly limit any potential or actual customer's use of proprietary information, the following provision is included in all proposals submitted by Babcock & Wilcox, and an applicable version of the proprietary provision is included in all of Babcock & Wilcox's contracts:

"Purchaser may retain Company's Proposal for use in connection with any contract resulting therefrom, and, for that purpose, make such copies thereof as may be necessary. Any proprietary information concerning Company's or its Suppliers' products or manufacturing processes which is so designated by Company or its Suppliers and disclosed to Purchaser incident to the performance of such contract shall remain the property of Company or its Suppliers and is disclosed in confidence, and Purchaser shall not publish or otherwise disclose it to others without the written approval of Company, and no rights, implied or otherwise, are granted to produce or have produced any products or to practice or cause to be practiced any manufacturing processes covered thereby.

Notwithstanding the above, Purchaser may provide the NRC or any other regulatory agency with any such proprietary information as the NRC or such other agency may require; provided, however, that Purchaser shall first give Company written notice of such proposed disclosure and Company shall have the right to amend such proprietary information so as to make it non-proprietary. In the event that Company cannot amend such proprietary information, Purchaser shall, prior to disclosing such information, use its best efforts to obtain a commitment from NRC or such other agency to have such information withheld from

AFFIDAVIT OF JAMES H. TAYLOR (CONT'D.)

public inspection. Company shall be given the right to participate in pursuit of such confidential treatment."

- (ii) The following criteria are customarily applied by Babcock & Wilcox in a rational decision process to determine whether the information should be classified as proprietary. Information may be classified as proprietary if one or more of the following criteria are met.
- a. Information reveals cost or price information, commercial strategies, production capabilities, or budget levels of Babcock & Wilcox, its customers or suppliers.
 - b. The information reveals data or material concerning Babcock & Wilcox or customer funded research or development plans or programs of present or potential competitive advantage to Babcock & Wilcox.
 - c. The use of the information by a competitor would decrease his expenditures, in time or resources, in designing, producing or marketing a similar product.
 - d. The information consists of test data or other similar data concerning a process, method or component, the application of which results in a competitive advantage to Babcock & Wilcox.
 - e. The information reveals special aspects of a process, method, component or the like, the exclusive use of which results in a competitive advantage to Babcock & Wilcox.
 - f. The information contains ideas for which patent protection may be sought.

AFFIDAVIT OF JAMES H. TAYLOR (CONT'D.)

The document(s) listed on Exhibit "A", which is attached hereto and made a part hereof, has been evaluated in accordance with normal Babcock & Wilcox procedures with respect to classification and has been found to contain information which falls within one or more of the criteria enumerated above. Exhibit "B", which is attached hereto and made a part hereof, specifically identifies the criteria applicable to the document(s) listed in Exhibit "A".

- (iii) The document(s) listed in Exhibit "A", which has been made available to the United States Nuclear Regulatory Commission was made available in confidence with a request that the document(s) and the information contained therein be withheld from public disclosure.
 - (iv) The information is not available in the open literature and to the best of our knowledge is not known by Combustion Engineering, EXXON, General Electric, Westinghouse or other current or potential domestic or foreign competitors of B&W.
 - (v) Specific information with regard to whether public disclosure of the information is likely to cause harm to the competitive position of Babcock & Wilcox, taking into account the value of the information to Babcock & Wilcox; the amount of effort or money expended by Babcock & Wilcox developing the information; and the ease or difficulty with which the information could be properly duplicated by others is given in Exhibit "B".
- E. I have personally reviewed the document(s) listed on Exhibit "A" and have found that it is considered proprietary by Babcock & Wilcox because it contains information which falls within one or more of the criteria enumerated in Paragraph D, and it is

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AFFIDAVIT OF JAMES H. TAYLOR (CONT'D.)

information which is customarily held in confidence and protected as proprietary information by Babcock & Wilcox. This report comprises information utilized by Babcock & Wilcox in its business which afford Babcock & Wilcox an opportunity to obtain a competitive advantage over those who may wish to know or use the information contained in the document(s).

James H. Taylor
JAMES H. TAYLOR

JAMES H. TAYLOR

[illegible]

James H. Taylor, being duly sworn, on his oath deposes and says that he is the person who subscribed his name to the foregoing statement, and that the matters and facts set forth in the statement are true.

James H. Taylor
JAMES H. TAYLOR

JAMES H. TAYLOR

Subscribed and sworn before me
this 12th day of August 1977.

Frederic I. Noel
Notary Public in and for the City
of Lynchburg, State of Virginia

Notary Public in and for the City
of Lynchburg, State of Virginia

My Commission Expires 10/16/79

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Babcock & Wilcox

EXHIBIT A

Response to NRC Request for Information on Reactor
Vessel Material Surveillance Program

1589 109

EXHIBIT B

Proprietary Portions of Response
to NRC Request for Information
on Reactor Vessel Material
Surveillance Program

Criteria

Entire document

b,c,d,e

Specific information with regard to potential harm to B&W by disclosure of the material includes:

1. B&W has expended over \$250,000 to date in research and development of our reactor vessel surveillance program. This program has involved a three year effort.
2. The data and information as contained in this document is not available in the open literature or elsewhere in the open market.
3. Development of this technology gives B&W a distinct commercial advantage over competitors who do not have or are in the process of developing such a program. The market potential for this technology is estimated to exceed two million dollars. B&W competitors for this market include Fracture Control Incorporated, Southwest Research Institute, Fracture Analysis Associates, Effects Technology Incorporated, Battelle Memorial Institute, and Westinghouse Electric Corporation.
4. Portions of the information cannot be easily acquired or duplicated by others since it results from B&W engineering evaluations of the detailed R&D program identified in (1). Other portions of the information might be duplicated at the expense of the monies and effort listed in (1).

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