## REGULATORY DOCKET FILE COPY

JAN 18 1980

MEMORANDUM FOR:

POOR ORIGINA

Chairman Ahearne

(Signed) T. A. Rohm

THRU:

FRAM.

Harold R. Denton, Director

Lee V. Gossick, Executive Director for Operations

Office of Nuclear Reactor Regulation

SUBJECT: B&W ANALYSES OF THE SEPTEMBER 24, 1977 ACCIDENT AT DAVIS-BESSE

This is in response to question number 4 (of four questions) identified in your memorandum of July 19, 1979 to Lee V. Gossick. Question numbers 1 thru 3 were addressed in the Office of Inspection and Enforcement (I&E) memorandum to you dated August 6, 1979. In that memorandum, I&E noted that the Office of Nuclear Reactor Regulation would be asked to respond to question number 4.

Your July 19, 1979 memorandum referred to two newspaper articles which indicated that internal Babcock & Wilcox (B&W) analyses of the September 24, 1977 transient at Davis-Besse uncovered information which, if transmitted to operators of B&W plants in a timely fashion, might have prevented or significantly reduced the consequences of the accident at Three Mile Island, Unit 2. Question number 4 of your July 19, 1979 memorandum is repeated below:

In the staff's judgement, if the information uncovered in these analyses had been available to the NRC and/or Metropolitan Edison in a timely fashion, to what extent would the consequences of the TMI accident have been mitigated or avoided?

As we are sure you appreciate, our response to this question is, of necessity, a highly subjective one. Therefore, we are unable to state with any degree of certainty what events would actually have taken place and how effective they might have been if these analyses had been available to us prior to the TMI-2 accident. However, we will attempt to provide a qualified answer to the question.

All things considered, I believe that if we had received information as explicit as that contained in the February 9, 1978 internal B&W memorandum from Bert Dunn to Jim Taylor, we would have taken action which may have prevented or mitigated the TMI accident. I think that we would have informed licensees of the problem and required that procedures caution against early termination of HPCI.

Contact:

8002180 018

Commissioner Ahearne

There are two important aspects to the question, however, which significantly bear on the answer:

- o The manner in which the information was brought to our attention
- o The time interval between the date the information was brought to our attention, and the date of the TMI-2 accident

The first of these is important because it would have affected the degree to which the information would have been analyzed by this office. For example, if the information had been provided to the NRC staff (NRR or IE) by B&W pursuant to 10 CFR Part 21, or a utility pursuant to 10 CFR Part 50.55e, or other reporting requirements, it would have led to a high priority effort on our part to assess its generic implications. On the other hand, if the information had become available to us without endorsement by either B&W or a utility, our assessment of its generic implications would have proceeded, but on a much lower priority.

The other aspect, i.e., timing, is also very important. It has to do with the time it takes for us to assess the significance of information of this type as well as the time it takes to implement the results of our assessment.

Considering each of these aspects, it is our opinion that the period of time (about one year) between the date of the B&W engineer's memoranda and the date of the TMI-2 accident would have been sufficient for us to have effected actions at B&W plants such that, to a large extent, the TMI-2 accident consequences could have been avoided. More specifically, we believe that these actions would have resulted in the TMI-2 operators being better aware of the behavior of that plant, as well as the requisite recovery procedures, during a loss of feedwater event with a consequential failure of the power-operated relief valve. However, we would note that there is some uncertainty associated with this answer considering the staff's lack of emphasis on procedures prior to the TMI-2 accident.

We would also point out that there were other errors that occurred during the accident, such as locking out the auxiliary feedwater system and failure to close the PORV block valve. In our view, we would not have taken action in these areas as a result of the disclosure to the NRC of the B&W engineer's memoranda since the information contained in these memoranda was not directly related to these errors.

-2-



### Chairman Ahearne

The timing aspect is difficult to deal with. Receipt of clear information from any source, as much as a year before the accident, would probably have been sufficient time for us to react. Receipt of clear information from B&W or a licensee with much less than one year lead time also should have been sufficient. At some lead time interval, longer for an "outside" source than from B&W or a licensee, we probably would have not reacted soon enough. I am confident, however, that clear information from any source would now be acted upon promptly.

-3-

Harold R. Denton, Director Office of Nuclear Reactor Regulation

cc: Commissioner Gilinsky Commissioner Kennedy Commissioner Hendrie Commissioner Bradford L. V. Gossick
V. Stello Distribution:
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OIA
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H Denton Rdg
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\* See previous yellow for concurrences

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MEMORANDUM FOR:

Lee V. Gossick, Executive Director for Operations

FROM:

THRU:

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### Harold R. Denton, Director Office of Nuclear Reactor Regulation

SUBJECT: BAW ANALYSES OF THE SEPTEMBER 24, 1977 ACCIDENT AT DAVIS-BESSE

Chairman Ahearne

This is in response to question number 4 (of four questions) identified in your memorandum of July 19, 1979 to Lee V. Gossick. Question numbers 1 thru 3 were addressed in the Office of Inspection and Enforcement (I3E) memorandum to you dated August 6, 1979. In that memorandum, I3E noted that the Office of Nuclear Reactor Regulation would be asked to respond to question number 4.

Your July 19, 1979 memorandum referred to two newspaper articles which indicated that internal Babcock & Wilcox (B&W) analyses of the September 24, 1977 transient at Davis-Besse uncovered information which, if transmitted to operators of B&W plants in a timely fashion, might have prevented or significantly reduced the consequences of the accident at Three Mile Island, Unit 2. Question number 4 of your July 19, 1979 memorandum is repeated below:

In the staff's judgement, if the information uncovered in these analyses had been available to the NRC and/or Metropolitan Edison in a timely fashion, to what extent would the consequences of the TMI accident have been mitigated or avoided?

As we are sure you appreciate, our response to this question is, of necessity, a highly subjective one. Therefore, we are unable to state with any degree of certainty what events would actually have taken place and how effective they might have been if these analyses had been available to us prior to the TMI-2 accident. However, we will attempt to provide a qualified answer to the question.

We believe there are two important aspects to the question which significantly bear on the answer:

- o The manner in which the information was brought to our attention
- The time interval between the date the information was brought to our attention, and the date of the TMI-2 accident

W. F. KANE. DPM			
H. E. KANE, DPM	••••••	 	 <b>.</b>
DATE		 1	 1

### POOR ORIGINAL

### Commissioner Ahearne

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The first of these is important because it would have affected the degree to which the information would have been analyzed by this office. For example, if the information had been provided to us by B&W pursuant to 10 CFR Part 21, or Metropolitan Edison pursuant to 10 CFR Part 50.55e, it would have led to a high priority effort on our part to assess its generic implications. On the other hand, if the information had become available to us without endorsement by either B&W or a utility, our assessment of its generic implications would have proceeded, but on a much lower priority.

The other aspect, i.e., timing, is also very important. It has to do with the time it takes for us to assess the significance of information of this type as well as the time it takes to effect the results of our assessment.

Considering each of these aspects, it is our opinion that the period of time (about one year) between the date of the B&W engineer's memoranda and the date of the TMI-2 accident would have been sufficient for us to have effected actions at B&W plants such that, to a large extent, the TMI-2 accident consequences could have been avoided. More specifically, we believe that these actions would have resulted in the TMI-2 operators being better aware of the behavior of that plant, as well as the recuisite recovery procedures, during a loss of feedwater event with a consequential failure of the power-operated relief valve. However, we would note that there is some uncertainty associated with this answer considering the staff's lack of emphasis on procedures prior to the TMI-2 accident.

We would also point out that there were other errors which contributed to the accident, such as locking out the auxiliary feedwater system and the inadequacy of the containment isolation scheme. In our view, we would not have taken action in these areas as a result of the disclosure to the NRC of the B&W engineer's wenoranda since the information contained in these memoranda was not directly related to these errors.

This answer assumes that the information had been provided to us with the endorsement of either BaW or a utility. For the case in which the information had been brought to our attention without the endorsement of either BaW or the utility, we believe the pace of our assessment would not have been sufficient to prevent or substantially mitigate the consequences of the TMI-2 accident.

If any additional information or clarification is desired, I or a member of my staff will be pleased to meet with you to discuss this matter further.

Harold R. Denton, Director Office of Nuclear Reactor Regulation

cc: Commissioner Gilinsky Commissioner Kennedy Commissioner Hendrie Commissioner Bradford

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# POOR ORIGINAL

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This answer assumes that the information had been provided to us with the endorsement of either B&W or a utility. For the case in which the information had been brought to our attention without the endorsement of either B&W or the utility, we believe the pace of our assessment would not have been sufficient to prevent or substantially mitigate the consequences of the TMI-2 accident.

If any additional information or clarification is desired, I or a member of my staff will be pleased to meet with you to discuss this matter further.

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Harold R. Denton, Director

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MEMORANDUM FOR: Commissioner Ahearne

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(Signed) T. A. Rehm THRU: Lee V. Gossick, Executive Director for Operations

AUG 6 1979

FROM: Victor Stello, Jr., Director, Office of Inspection and Enforcement

SUBJECT: B&W ANALYSES OF THE SEPTEMBER 24, 1977 ACCIDENT AT DAVIS-BESSE

IE initiated an investigation on July 19, 1979 upon learning of the testimony before the Presidential Commission by B&W employees, described in your July 19 memorandum to Mr. Gossick. We anticipate approaching the investigation in the following manner:

- (1) IE will examine the question of B&W's handling of this information in light of their responsibilities under 10 CFR 21. Particular attention will be focussed upon whether either the m.morandum in question or the substance of the information was provided to NRC in any fashion.
- (2) If our investigation establishes that such information was made available to NRC prior to March 28, 1979, we may ask OIA to look into the handling of the information within NRC. This procedure is being followed during the Michelson investigation.

(3) We will ask NRR to respond to your question (4) regarding the significance of these analyses vis a vis the TMI accident when the full facts of the matter are clear.

We have held initiation of interviews in abeyance until we have had the opportunity to evaluate both the testimony at issue as well as any formal rebuttal or amplification by more senior B&W officials. Upon completion of

CONTACT: W. J. Ward, IE 49-27246 Commissioner Ahearne

our investigation which will receive priority attention, we will forward all of the information that we develop. We will also provide you with copies of the documents that you requested as we obtain them ourselves.

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Victor Stello, Jr. Director Office of Inspection and Enforcement

cc: Chairman Hendrie Commissioner Gilinsky Commissioner Kennedy Commissioner Bradford SECY OPE OGC OCA OIA

Distribution: L. V. Gossick, EDO R. G. Smith Acting Dep., EDO T. Rehm, EDO H. P Denton, NRR V. stello, IE . Thompson, IE G. C. Gower, IE N. C. Moseley, IE W. J. Ward, IE J. P. O'Reilly, RII:IE H. D. Thornburg, IE G. Ertter (EDO-6898) L. K. Underwood, IE (H11-1979-H07) IE Files Central Files EDO Reading IS Reading

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#### UNITED STATES NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 20555

July 19, 1979

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OFFICE OF THE

MEMORANDUM FOR:

John Ahearne Adala

Lee V. Gossick, EDO:

FROM: SUBJECT:

B&W ANALYSES OF THE SEPTEMBER 24, 1977 ACCIDENT AT DAVIS-BESSE

Maria di Seria

The two attached newspaper items, which appeared this morning, indicate that internal B&W analyses of the September 24, 1977 accident at Davis-Besse uncovered information which, if transmitted to operators of B&W power reactors in a timely fashion, might have prevented or significantly reduced the consequences of the TMI accident. These newspaper items raise many questions, among which are the following:

- Were the memoranda referred to, or the information in them, made available by B&W to the NRC prior to the TMI accident? If so, when? What action did the staff take as a result?
- 2. If not, does this failure to transmit the results of these analyses constitute a violation of 10 CFR Part 21?
- 3. If the answer to Question 1 is no, did the MRC staff learn of the analyses between March 28, 1979 and today? If so, has the staff reviewed the analyses and what are the results of those reviews?
- 4. In the staff's judgment, if the information uncovered in these analyses hud been available to the NRC and/or Metropolitan Edison in a timely fashion, to what extent would the consequences of the TMI accident have been mitigated or avoided?

I would appreciate receiving the answers to these questions as soon as possible. If the staff has not yet obtained the memoranda and analyses or completed its review of them, please provide preliminary answers now and more complete answers as soon as the staff reviews can be completed. In addition, I would like to receive copies of the B&W memoranda and analyses and the staff reviews of them.

cc: Chairman Hendrie Commissioner Gilinsky Commissioner Kennedy Commissioner Bradford Secy OPE DGC OCA OIA

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### Thursday, July 19, 1979 Engineers Warned Builder of Danger Year Before Three Mile Island Accident

#### BY B. DRUMMOND AYRES Speculo Tas here York Times

D18

"ASEINGTON, July 15 - Two engiters for the company that supplied the nuclear reactor that broke down at Three Mile island said today that they had warmet their superiors a year earlier that a serious addicent was possible but that the watting had bot been passed on.

"It just slipped through the crack," a third menter said.

The engagers, all employees of the Extrack & Wilmer Company of Lynchpurg. Va . testied before the Presidenthe commission that is investigating the March 15 accident, the worst in the history of this country's nuclear power pro-LOT DETY CHIDE'S were scheduled to tesuty tomo - want Friday.

inter questioning by committee members, she of the engineers, Bert M. Dunn, sac "Had my instructions been folivert we would not have had core damand we would have had a minor acci-"A makesman for Babcock & Wil-2.4 ..... consid that he was unable to reach compart theals for elaboration.

#### Some Radiation Escaped

fuel mis in the reactor. In the altermath, some radiation escaped into the air above | about how to handle such emergencies. the stature Pennsylvania electric plant.

Vir. Durr. and Joseph J. Kelly Jr., anciert Babcock & Wilcox engineer, told icident, was dated Nov. 1. 1577. Mr. the six commission members that more The year before the Three Milly Island 1978, more than a year before the Three untiters they had warned their superiors, | Mile Island accident.

in separate memorand. is, about a dangerous sequence of events that had occurred when a Babcock & Wilcox reactor runce broke down at Toledo, Ohio. The two engineers suggested that other operators of Babcock & Wilcox reactors. including the one at Three Mile Island where a somewhat similar secuence of events took place, be sent guidance about how to handle such emergencies.

At the Toledo plant, a pressure release valve sruck open, threatening loss of the cooling fluid around the fuel core. Special safety pumps began to replace the fluid, but plant officials turned off the pumps prematurely because a meter connected to the malfunctioning valve indicated there was no problem. The pumps were restarted in a short while, bowever, when the operators repliced the meter reading was not correct.

At Three Mule Island, the sequence was somewhat similar, but the faulty meter reading was not correctly analyzed for a considerably longer time. As a result so much fluid escaped from the reactor that parts of core were exposed and began to overheat.

#### Warring Issued & Week Later

Seven days after the Three Mule Island accident, Babcock & Wilcox instructed its The aconcent severely damaged the customers, including Metropolitan Ediison, the Tritee Mile Island operator.

Mr. Kelly's memorandum, written about a week after the second Toleco ac-Dunn's memorandum was dated Feb. 9.

Mr. Kelly told the committee that be had been seeking the "thought" of other engineers and some of his superiors. However, bis memorandum suggests that "guidelines" be sent plant operators and asserts that "Two recent events at the Toleco site have pointed out that perhaps we are not giving our customers enough puidance" about the operation of same salery pumps.

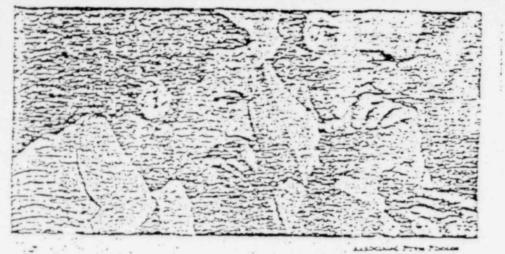
THE NEW YORK TIMES.

In Mr. Dunn's memo andum, he telis of his "serious concern" for "potenzal" huture cooling accidents. He states that the Toledo nituation "points out that we have not supplied sufficient information to reactor operators." And he concludes that "this is a very serious matter and deserves our prompt amention and correcuon."

#### Information Not Volupteered

Mr. Kelly and Mr. Dunn did not volunteer information about the memorandums and for the most part revealed information only under cuestioning or when contranted with subscenzed openments, such as the memorandums, Toey were at a lost to explain why the combeny had taken more than a year to lollew up on their recommendations. Mr. Kelly said that at one point when he thecked on the progress, and was told in his company was training reactor operators properly.

The third Babcock & Wilcoz engineer to tesuly, James F. Walters, said that there had been a considerable amount of discussion of the memorandum and the Toleco accidents within the company. But before anything could be done, he conceded under questioning the matter "just sipped through the crack."



Joseph L Kelly, an engineer for Babeock & WDcor, testilying yesterday.

### Engineers Say Reactor Builder Ignored Warnings

By Thomas O'Toole

Two Budlear safety engineers at Babrick & Wilcox Co. testified yesterday they tried unsuccessfully to warm customers of the possibility of z nuclear zonicent similar to the one that dippled Three Mile Island.

The explorent Joseph J. Kelly and Bert AL Duna, und use Komery Commission investigating Three MDe Island for the White House that they wrote memory to Sabooth supervisors and had repeated discussions with managers over what they felt was a need to ware baccock customers of the possibility of a lors-of-costant accident like the one eventually suffered at Three Mile Island.

The date of Nelly's first memo was not. 1 1877, while Dunn wrote his shirt memo Feb. 9, 1978, more than a rear before Three Mile Island. Babrock cultumers were never bolilied of their conterns.

"I wrote follow-up memo and had discussions with people about the herd to notify customers and I operated under the assumption that new insurations would be distributed to customers," said Dunn, who is manater of emergency core cooling system analyms for Babcool & Wilcox in Lynchourg. Va. "But to my incoledge customers were never notified."

Nelly and Dung cold the Remery Communications their concerns were tragcered of an accident Sept 24, 1977, at the DistaBessie moriear plant of Clark Toledo Edison Co., which, like North Projection Edison Co. and bought its nuclear plant form Linebeck & Wilcon. The Davis-Bessle amident involved a sudden loss of cooling water that shut down the nuclear reactor. The accident occurred when a pressure relief valve stuck open, venting thousands of fallons of cooling water away from the reactor, and plant operators mistakenly thrould back the pumps pouring emergency cooling water onto the reactor to make up the difference.

While the nuclear core at Davis-Bessie was never exposed the way the core at Three Mile Liked was, there were striking similarities in the events that led to both socidents. The pressure relief valves at both places stuck open, releasing essential cooling water from the reactor; the pumps feeding, emergency coolant to the coast ware throuted back or turned off, denying replacement cooling water to the cores.

"One difference in the two arddents was that the Daris-Bessie operator quickly realized his emergency valve was stuck open and closed it after 20 minutes." Kelly testified. "The other difference was that the Davis-Bessie people throttled back two pumps: the Taree Mile Island people supped all four. To me, that's a significant difference."

The excident at Davis-Bestie prompted Relly to write a memo to seven B&W supervisors in which he remainentied that all Babrock customers he given guidance as to how to avoid a cimiliar amident at their plants.

"Do not bypes: or otherwise prerent the actuation of high or low presnure injection temergesor cooling under any conditions entent a normal controlled plant theredown." Relly and the new instructions should read. "Once injection is invisited, do not shop it unless temperature is stable or decreasing and pressumer level is increasing ..."

Relly said that 10 days after he wrote his memo be received a memofram F. J. Walters, a ruperviser in the Nuclear Service Distance the said be "Chargered with Kell"'s concerns. Welters told Kelly be throught the operators at Darna-Bessie: had acted conrectly, besides, he scald the actident was "of no magnitudes."

"He was conjusted." Helly said of Waherra "I'le (the Walliers memo) only vaine to me was to escalate the problem to Mr. Dunn."

Telly and Dunn stald they taked over the "least of response" among Babconk supernsons too Nelly's memoand decided to pursue the issue mare vigorously. Dunn stald he wrote a memo to Sim Taylor, manager of the licensing divinos at Babrook, urgan him to address the accident at Davis-Bessie in a more constructive way.

"I believe that Tole do (DevieBessie) was iomunate." Durin suid in the memo, "Bad this event counted in a reamon at full powert... it is quite possible, perhaps probable, that core uncovery and possible fuel damage would have resulted."

Duna said Taylor iresponded by rerouting his memo back to the Nuclear Service Division, where Kelly had run into his original obmacle. Dunn said he never heard back and assumed that customers had been notified of his contern.

# POOR ORIGINAL

THE NUCLEAR REGULATORY COMMISSION

Mr. Gossick:

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C. LVG Please provide Commissioner Gilinsky with the same information requested in Commissioner Ahearne's Memo of July 19 (attached).

Sylvia Elizondo Administrative Aide to Cmr Gilinsky

7-23-79

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Attachment

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