



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
799 ROOSEVELT ROAD
GLEN ELLYN, ILLINOIS 60137

AUG 08 1978

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MEMORANDUM FOR: Region III Files
FROM: G. A. Phillip, Investigation Specialist
SUBJECT: DAVIS-BESSE, UNIT 1

The following are summaries of interviews held with personnel in connection with the special inspection conducted during July 1978.

Telephone Conversation with Al Moore on July 10, 1978

On July 10, 1978, J. Creswell and I contacted Al Moore, Control Systems Department, Toledo Edison Company, concerning an October 14, 1976 memorandum, copy attached, he had written to Gene Michaud while he was a test engineer at the Davis-Besse site.

Moore stated that the memo was written primarily as an objection to certain steps being added to a test procedure he had prepared and planned to perform. These steps he said had been added by Jack Evans, then Plant Superintendent, as a means of accomplishing some parts of another test procedure which had not been accomplished for some reason. He clarified this by saying that the test procedure had been written before his arrival at the site but he had rewritten parts of it.

He said as he had indicated in his memo, that he considered the inclusion of these steps in his procedure as a piecemeal approach which would probably result in some oversights. He said despite his objection the steps remained in the procedure and he had conducted the procedure as written.

Moore also stated that in his opinion his objections had nothing to do with his having to work overtime and, in fact, he had worked overtime on several occasions. He said he had no recollection of any discussions with Evans, Terry Murray, or Bernie Beyer regarding the subject of overtime work.

Regarding the concern expressed in his memo that throwovers between the auxiliary and startup transformers O2 had not been incorporated in any procedure, he said they were not in any procedure at the time he

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AUG 08 1978

wrote the memo. He said no one ever responded to his memo and he did not know whether they were subsequently included in a test procedure.

He indicated he would not be surprised if some oversights had occurred in the test program but he felt that even if some items had not been included in a test procedure their operability was demonstrated during operation of the plant. He expressed the opinion that the primary problem was one of documentation rather than not performing some tests.

Interview with Lowell Roe, July 20, 1978

On July 20, 1978, Lowell Roe, Vice President and Chairman, Company Nuclear Review Board was interviewed regarding the following statement by Terry Murray Davis-Besse Plant Superintendent, which appears in the minutes of the Board's October 27, 1977 meeting:

"T. D. Murray stated that station personnel had formed some "bad habits" during the recent startup test program by having to "Gerry-Rig" (SIC) systems to complete tests and that personnel errors can be expected to be reduced but not completely eliminated with time."

Roe stated that his recollection of the term "Gerry-Rig" (Jury Rig) did not refer to any physical modifications made during the conduct of tests. Rather, it referred to alterations or changes in test procedures and test schedules. While some such changes could be expected, too many of them would be regarded as a bad habit. It was Roe's recollection that the statement by Murray did not require or result in any action by the Board.

Interview with Jack Evans, July 20, 1978

On July 20, 1978, Jack Evans, former Davis-Besse Plant Superintendent, was interviewed regarding Moore's October 14, 1976 memo and the handwritten note Evans had added on October 16, 1976.

Evans stated that he had no specific recollection concerning the contents of the memo except that there had been some conflict between him and Moore regarding Moore's unwillingness to perform additional

POOR ORIGINAL

AUG 08 1978

work. Evans said that in 1976 all of the site personnel were working long hours in an effort to meet the plant startup schedule. It was his feeling that Moore did not want to work overtime. Moore also objected to having a procedure he had written changed since the changes would involve overtime work.

Evans stated that he did not recall taking any action on the technical issues raised in the memo. He suggested that the Master Log at the site be checked to see whether Moore's concerns were followed up on, and specifically to determine whether the throwovers between the auxiliary and startup transformer O2 were scheduled for testing.

Interview with Terry Murray, July 21, 1978

On July 21, 1978, Terry Murray, Davis-Besse Plant Superintendent and former Operations Supervisor was interviewed.

Regarding the statement attributed to him in the October 27, 1977 Board meeting Murray stated that any Jury-Rigging involved in performing electrical testing was done outside of the systems being tested and has no effect on the validity of the tests. He indicated his comment related to his concern that plant personnel recognize that when the plant became operational it was not all right to resort to any makeshift arrangements in getting things to work.

Regarding the Moore memo, he said he could not recall having seen the memo in 1976 when he was the Operations Supervisor. He had no recollection of any discussions concerning its technical content. He did recall having a discussion with Evans about Moore's willingness to put in overtime. He said he would not have been responsible for any follow-up on Moore's concerns and he had no knowledge as to whether those concerns were addressed by anyone else.

Telephone Conversation with Gene Michaud, July 26, 1978

On July 26, 1978, J. Creswell, J. Streeter, and I contacted Gene Michaud by telephone at his current place of employment, the Babcock and Wilcox Research Center, Alliance, Ohio.

Michaud advised that he had occupied the position of Test Program Manager at Davis-Besse and had left that site in July 1977. In that position he was responsible for assuring tests were performed, deficiency

POOR ORIGINAL

AUG 08 1978

reports were written, and results of completed tests were sent to Power Engineering.

He said he vaguely recalled Moore's memo which was read to him during the telephone call. He said he would not have been responsible for nor would he have taken any action regarding Moore's concerns. His only responsibility would have been to pass the matter to Evans. Since the memo indicated Evans received a copy he would assume Evans would followup on it. He said such matters would be handled by Evans by initiating a Modification Request. The Modification Request would be sent to the Site Review Board with a copy to Bernie Beyer.

Michaud said it was his recollection that TP 0400.10 was scheduled for test during power escalation at four different load levels.

Michaud also recalled that he had initiated a comprehensive review to assure all revisions to test procedures were identified and System Revision Notices were generated and submitted to the Site Review Board. The Board would determine what effect the revisions had on the test program and would assure that any problems were resolved. He recalled there were about 400 such notices.

NOTE: Bernie Beyer was not interviewed during a visit to the Davis-Besse site on July 21, 1978, because he was away on vacation.

Interview with Denny Snyder On July 21, 1978

On July 21, 1978, Denny Snyder, Reactor Operator was interviewed.

Regarding the November 29, 1977 occurrence, Snyder said he was either in the Control Room or entered a few seconds after the occurrence began. Bob Mizik was the Control Room Operator and John Dennis, who was in training to become a licensed operator, was assisting him on the secondary side. Jacque Lingenfelter, Senior Reactor Operator and Nuclear Engineer was also present as was Dave Dibert. Everyone was busy coping with the problem. It was his recollection that Dibert assisted by operating some switches controlling some pumps.

Snyder said he recalled opening a breaker and the lights went out. They remained out for only a few seconds. He waited a few seconds for automatic transfer to occur and then tried either the A or B buss. It closed and opened up again immediately. He then successfully closed the other one.

POOR ORIGINAL

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Region III Files

- 5 -

AUG 08 1978

He also recalled that J. Willard came into the Control Room and helped out by trying to document everything that happened. Snyder said he was in and out of the Control Room several times for various reasons. One of his main concerns was to help get the compressor back on.

Snyder was also asked what the operator is expected to do in the event there is a loss of offsite power during a LOCA. Snyder responded by saying that during the first few minutes of a LOCA, the operator keeps his hands off since the reactor systems are designed to react automatically. He said there was no specific operation to be performed by the operator. He did not indicate that the operator would need to manually strip the makeup pump within the first 20 seconds.

Interview with Jacque Lingenfelter on July 21, 1978

On July 21, 1978, Jacque Lingerfelter, Nuclear Engineer and Senior Reactor Operator, was interviewed briefly concerning the November 29, 1977 occurrence.

He examined the version of Procedure EP 1202.03 that was effective on November 29 and commented that he had written that procedure. He said that they did not follow the steps set forth under the heading "Immediate Operator Actions". He indicated that, in retrospect, if they had followed it, they could have gone to offsite power manually.

Interview with Dave Dibert on July 21, 1978

On July 21, 1978, Dave Dibert was interviewed briefly concerning his actions in the Control Room during the November 29, 1977 occurrence. He stated that he is not a reactor operator and he merely read a checklist to an operator who was assuring that the equipment on the list was in the desired configuration. He stated he did not operate any of the controls himself.

G. A. Phillip
Investigation Specialist

Attachment: As Stated

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OFFICE	R III				
SURNAME	Phillip/ls				
DATE	8/5/78				

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D. Nichols

A. Moore

No. 1 & No. 11 Transformers and Isophase Bus Acceptance Test S.U. System 87 TP 0400.

The existing 13.8 KV acceptance test procedure is incomplete in that no provision was included to check breaker throwovers between the auxiliary and startup transformers. Portions of this oversight have been included in the No. 1 & No. 11 Transformer and Isophase Bus Acceptance Test (TP 0400.10) against my advisement. I do not in any way approve the steps to checkout the throwover in TP 0400.10, intend to test, or be a party in any way to this method of covering an oversight. A request is being made at this time to remove my name as author of this procedure as long as these steps remain.

I recommend the entire 13.8 KV procedures and throwovers be examined to determine what needs to be done so that a comprehensive, well thought out test can be incorporated into a new procedure. In the present state, items that were overlooked are being picked up piecemeal and could result in major problems for our Company. In particular, throwovers between the auxiliary and startup transformers (2) have not been incorporated in any procedure.

APPROVED

- cc: J. Hunt
- C. Gardner
- R. Kurr
- J. Evans
- B. Beyer

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In working with Al - Bernice & Terry indicates basic problem is that ST does not want to work the overtime to

change transformers & check them over. There is no doubt with current...