2

3

5

7

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

In the matter of:

METROPOLITAN-EDISON (TMI II)

Room D-

Room D-4 Howard Johnson Motor Inn 473 Eisenhower Boulevard Harrisburg, Pennsylvania

Wednesday, September 3, 1980

Docket No. None

Interview of Hugh McGovern, began, pursuant to notice, at 9:00 a.m.

PRESENT:

TERRY HARPSTER, Office of Inspection and Enforcement Nuclear Regulatory Commission

JOHN W. CRAIG, Offic of Inspection and Enforcement Nuclear Regulatory Commission

NORMAN C. MOSELEY, Office of Inspection and Enforcement Nuclear Regulatory Commission

DAVID H. GAMBLE, Office of Inspector and Auditor Nuclear Regulatory Commission

RICHARD K. HOEFLING, Office of the Executive Legal Director Nuclear Regulatory Commission

MICHAEL F. McBRIDE, Esq., JANE PENNY, Esq., and

Attorneys for Hugh McGovern

ALDERSON REPORTING COMPANY, INC.

PROCEEDINGS

MR. GAMBLE: We will go on the record.

This interview is being conducted as a portion of the Nuclear Regulatory Commission's investigation of the exchange of information between the Metropolitan Edison Company and the NRC on March 28, 1979.

Mr. McGovern, if you would raise your right-hand, I will swear you in.
Whereupoin,

HUGH A. McGOVERN

was called for interview and, having first been duly sworn, was examined and testified as follows:

EXAMINATION

BY MR. HARPSTER:

Q Hugh, could you tell us briefly at about what time you were in the control room on March 28, 19-9?

A I entered the control room at about 10 minutes until seven in the morning. I was there basically all day, until approximately 6:30 or 6:45.

Q What were your duties on March 28, 1979, around the time period 1:00 to 3:00 p.m. ?

A Around 1:00 to 3:00 p.m., I was basically supporting -I was a control room operator at the time, and I was basically
supporting the men who had the duty carrying out functions in the
vertical section of the panel.

If somebody said, "Open the valve to such and such," then I took care of that, and that kind of thing. I acted as an extra set of arms.

Q Were you on any particular portion of the panel or were you involved in it?

A There was not any specific area. It was overall just in that back section panel. By back section, I mean the vertical section behind the horizontal panels.

Q Did you briefly recall who was directing you to perform these various evolutions?

A Specifics, no, I cannot remember which supervisor was where, and which one said to do this at this time. There were several in the control room.

Q Could you briefly recall for us who was present in the control room in that time frame, from 1:00 to 3:00 p.m./

A I remember Joe Chwastyk and Brian Mehler. I cannot remember who else was in there. There were two foremen, Fred Sheimann and Carl Guthrie.

Q Do you recall who was the emergency director at that time?

A No.

Q Could you describe your recollections or actions at the time of the pressure spike and subsequent to that time?

A Yes, sir. I was at the back left portion of the control room, in ront of the primary support systems. At the

time of the pressure spike, one of the control room operators said that the building spray pumps were running. I walked around the front of the console, to the horizontal section, and in fact I saw the pumps running, and I observed the pressure spike on the recorders, the two recorders on the front.

I walked back around to the vertical section, and one of the supervisors or foremen told the control room operator to secure the building spray pumps, and told me to close the DHV-8s, which are the suctions off the sodium hydroxide, and the DSD-1s when the pumps were off, which is the discharge valve in the reactor building.

Q Could you briefly describe, was there a general knowledge that you had had a pressure spike at that time, and there were a lot of people doing things that were in response to what had happened?

A There was not a general knowledge that it indicated a spike up and down. There was a lot of conjecture as to the causes. Yes, people were carrying out various actions. Yes, we had a pressure spike. This was not the first time we had a pressure increase in the reactor building, and we had had one or two building isolations prior to that time.

Q Were any explanations given concerning the pressure spike?

A I don't remember anybody conjecturing on the cause. I cannot answer that question as far as to what other people were

thinking.

Q Did you overhear or become involved in any discussions about the pressure spike?

A No.

BY MR. CRAIG:

Q When did you feel that the pressure spike was real?
When did you have knowledge or belief that the pressure spike was real?

A I think that the actual first time that I realized that we had had a nydrogen explosion, which I believe is what your question is, was on Friday, in the mid-shift.

Q Actually, that was not my question.

When did you believe the containment spray pumps actuated because of an actual pressure increase in the containment, regardless of the cause?

A I knew that we had had a pressure incr-ase, or at least that it indicated an increase. In my mind, I ascribed that to an entirely different circumstance. I felt that we had had an instrument malfunction and some sort of damage in the auxiliary building that had cause that, because that is where the pressure panels are located.

Q Can you tell us at what point in time that opinion changed, that belief changed?

A Friday morning on the mid-shift. It did not occur to me up until that time that we had actually had a hydrogen burn in

the building. This was brought up by somebody else.

Q So you are telling us that until you heard the hydrogen explanation, you did not believe that the pressure had been 28 pounds, or approximately 30 pounds?

A I did not conceive of that being a real possibility.

BY MR. HARPSTER:

Q Le me ask you. Youwere a control room operator, is that correct?

A Yes.

Q How did you account for the spike being an instrument malfunction, with the diversity and redundancy of instrumentation that you have in the control room?

A It is a fact that there are four instruments, and they are split up in various locations. I did a little rationalization in my head, which I thought that maybe we had an electrical transient or something along those lines in the auxiliary building. I based that on a couple of observations that were made at the time,

I observed the waste transfer pump, the reactor coolant pumps, the support oil pumps, and the gamma panel, which is a -- the gamma monitoring panel which is part of supplying the auxiliary building. All these things are powered off from supplies on the 328 level of the auxiliary building. They all died at the same time as this spike.

I made the assumption that we had had an electrical

failure, or some sort of mishappening in the upper-level of the auxiliary building, that we had gotten a double series there.

There are three panels there, building spray panels. We had two of those three that actually actuated the pumps.

Q Could you tell me how that would account for the starting of the containment spray pumps? What are they powered off?

A They are powered off of the 215 and 225, which are on the 328 level of the auxiliary building. My thinking was that we had an an electrical failure that had gotten the gamma panel, the support pumps for the reaction coolant pumps. Some sort of electrical failure, or some sort of electrical transient that caused the pressure instruments to spike.

My knowledge is a little more intense in that area now, and I realize that it could not happen that way, but at the time that is what I was thinking.

Q Were you aware of anyone, or did you monitor that containment building air temperatures subsequent to the spike?

A I did at one or two times during the day.

Simon fols.20

2

3

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

Q Were you aware of anyone or Jid you monitor the containment building air temperatures subsequent to the spike?

A I did it one or two times during the day, but I don't remember if -- at the time of the spike I was not back there. You have to go around, completely around to the back to read those.

Q Since you reported on site on March 28th, 1979, have you been influenced to change any of your recollections directly or indirectly?

A Could you explain that question. I don't understand what you are getting at. Of course, I have. I mean. you know, there was so much that happened after March the 28th that occurred and it has to have had some sort of influence, but I don't know exactly what you are looking for.

Q Well, have you changed any of your recollections since March 28th?

A Other than memory fading, I don't think so.

Q Do you have any knowledge of pertinent information withheld from the NRC on March 28, 1979?

A No, sir.

Q On March 28th did you have a feeling that information should not be volunteered to the NRC?

A No.

Q Did you feel that answering specific questions asked by the NRC fulfilled the reporting requirements?

A No, I don't think that that fulfills the requirements

25

by any means. But, on the other hand, the NRC had people come in and talked to people immediately after the accident, well, actually about 40 days after the accident. I believe they took a great deal of information down at that time. We volunteered everything that we could possibly, you know, think of to give them at the time.

Q The investigations into the accident on March 28th have identified missing segments of data included in our alarm status printouts at various times on March 28th, the unility typer output and the analog trend recorder strip chart.

Can you explain or do you have any idea what happened to this data?

A I know at various times the utility typewriter was so tied up, there was so much information coming in, that it was backlogging and continuously typing. At times it would jam and double print and things like that. That might be one possible source of, for instance, a lost time that we didn't see a time on there for a period or something like that. It was definitely overworked.

Q Have you been involved in or overheard any conversations with respect to this data?

A No.

Q Are you aware of any efforts by Met-Ed to locate or explain the disappearance of this data?

A No.

Q Data reflecting the primary system parameters printed out during the day by B&W employees has never been found. Do you have any idea what happened to this data?

A I don't know.

Q The sheet on which the core exit thermocouples were recorded on the morning of March 28th vanished and did not reappear until May 7th, 1979. Can you explain or do you have any idea what happened to this data?

A No. I had nothing to do with it.

Q Have you overheard any conversations or been involved in any concerning this data?

A No.

Q Are you aware of any efforts by Met-Ed to account for the disappearance of this data?

A No.

MR. GAMBLE: Mr. McGovern, one thing. You indicated what you thought the pressure spike was, the signals and things like that. Were there any different explanations you ever heard from your supervisor, personnel or others? Did anybody have any different feelings?

THE WITNESS: No. There were a lot of different groups moving from one side of the control room to the other side of the control room to the shift supervisor's office. I would presume they were discussing what happened here. There was a lot going on. As I said before, my role was basically supporting the

people that were actually involved in trying to control the plant.

I didn't have time to sit there and conjecture over different
theories of why things occurred. I just made up an idea in my
mind about what I thought had occurred. That was the extent of
it. I didn't hear any more about it, or, you know, it was just
too much happening.

MR. GAMBLE: You didn't overhear any of these groups hypothesizing or anything?

THE WITNESS: No. As a junior level 600, one that had recently finished training and was licensed I wasn't privy to all of the conversations.

MR. HARPSTER: Hugh, as we have told you, a part of our job is to try and establish the information flow on that date.

Could you tell us, to the best of your recollection, how information into the management people from the operators on the panel in the control room and how directions got back out?

THE WITNESS: Through the shift supervisor basically. If an operators was having a problem with a particular parameter or some condition he would call the shift foreman or the shift supervisor over and explain his problem and the shift supervisor would give him directions to do this, that or the other. They also worked the other way where the shift supervisor would go back in the office and then sit there and discuss what they wanted to do, their next steps, and then come back out and give directions to the control room operators.

review.

BY MR. HARPSTER:

Q Were you aware of efforts during the afternoon to draw a bubble?

A To draw a bubble? I don't remember at the time. Now I don't remember. I know there were a lot of different plans that people were talking about doing this, that or the other. I don't specifically remember drawing a bubble or talking about drawing a bubble.

MR. HARPSTER: I believe that will be it.

Thank you, Hugh.

We will furnish you a copy of the transcript for your

THE WITNESS: Thank you.

(Whereupon, at 9:10 a.m., the interview concluded.)

* * *

NUCLEAR REGULATORY COMMISSION

in the matter	Metropolitan Edison, TMI II	
	Date of Proceeding: September 3, 1980 Docket Number: None	
	Place of Proceeding: Harrisburg, Pa.	
were held as	nerein appears, and that this is the original ne file of the Commission.	- transcript

Official Reporter (Typed)

Official Reporter (Signature)

NUCLEAR REGULATORY COMMISSION

n the matter	of: Metropolitan Ediso	n TMI II
	Date of Proceeding:_	September 3, 1980
	Docket Number:	None
	Place of Proceeding:	Harrisburg, Pa.

MARY SIMMONS
Official Reporter (Typed)

Official Reporter (Signature)

LEBOEUF, LAMB, LEIBY & MACRAE

1333 NEW HAMPSHIRE AVENUE, N. W.

VATHINGTON, D. C. 20036

TELEPHONE 202-457-7500

CABLE ADDRESS

LEBWIN, WASHINGTON, D. C.

TELEX: 440274

TELECOPIER

202-457-7543

RANDALL J. LEBOEUF, JR. 1929-1975 HORACE R. LAMB 1934-1977 ADRIAN C. LEIBY 1952-1976

140 BROADWAY
NEW YORK, N.Y. 10005
TELEPHONE 212-269-1100
CABLE ADDRESS
LEBWIN, NEW YORK
TELEX: 423416

47 BERKELEY SQUARE LONDON WIX 5DB, ENGLAND TELEPHONE 01-493-7331 TELEX 25955

LEON A. ALLEN, JR.
JOSEPH E. BACHELDER, JII
ERNEST S. BALLARD, JR.
G. S. PETER BERGEN &
GEOFFRY D. C. BEST
DAVID P. BICKS
TAYLOR R. BRIGGS
CHARLES N. BURGER
THOMAS E. BURKE
WILLIAM A. CARNAHAN *
JOHN B. CHASE
ROGER D. FELDMAN *
EUGENE R. FIDELL *
JACOB FRIEDLANDER
'ANDREW GANSBERG
GERARD GIORDANO
DONALD J. GREENE
JAMES A. GREER, II *
JOHN L. GROSE &
DOUGLAS W. HAWES
CARL D. HOBELMAN
MICHAEL IOVENKO
JAMES F. JOHNSON, 4TH
RONALD D. JONES
JAMES A. LAPENN
GRANT S. LEWIS
KIMBA WOOD LOVEJOY

CAMERON F. MACRAE &
CAMERON F. MACRAE, III &
GERARD A. MAHER
SHEILA H. MARSHALL
JAMES P. MCGRANERY, JR. **
PHILIP PALMER MCGUIGAN
E. ELLSWORTH MCMEEN, III
WILLIAM D. MORRISON *
HARVEY A. NAPIER
JAMES O'MALLEY, JR. *
BRIAN D. O'NEILL **
J. MICHAEL PARISH
JOHN C. RICHARDSON &
WILLIAM W. ROSENBLATT
JOHN A. RUDY
JAY G. SAFER
PATRICK J. SCOGNAMIGLIO
HAROLD M. SEIDEL
RAYMOND N. SHIBLEY **
HALCYON G. SKINNER
JOSEPH S. STRAUSS
SAMUEL M. SUGDEN
EUGENE B. THOMAS, JR. **
LEONARD M. TROSTEN **
HARRY H. VOIGT **
H. RICHARD WACHTEL
GERARD P. WATSON
THOMAS A. ZIERK

- * RESIDENT PARTNERS WASHINGTON OFFICE
- " RESIDENT PARTNERS LONDON OFFICE
- ADMITTED TO THE DISTRICT OF COLUMBIA BAR

December 9, 1980

Mr. Norman C. Moseley
Director
Division of Reactor Operations
Inspection
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Re: NRC Investigation of March 28, 1979 Accident at Three Mile Island - Unit 2

Dear Mr. Moseley:

In response to your letter of September 15, 1980, the following are transcript corrections to the September 3, 1980 testimony of Mr. Hugh A. McGovern.

PAGE	LINE	WORD(S) THAT NOW APPEAR	CHANGE TO
√3	16	JoeChwastyk	Insert space between "Joe" and "Chwastyk"
1/4	9	DSB-1S	Change "DSB-1S" to "BSV-1"

PAGE	LINE	WORD(S) THAT NOW APPEAR	CHANGE TO
V4	16	not	Delete "not"
4	7	21e and 22e	Change "21e" and "22e" to "2-1e" and "2-2e"
1	10	reaction	Change "reac- tion" to "reactor"
11	9	coo	Change "COO" to "CRO"

In addition to the statutory witness fee of \$30 per day to which he is entitled, Mr. McGovern is entitled to \$3.20 for a total of 16 miles to and from the interview and hereby requests a total of \$32.20 for his appearance.

Very truly yours,

Harry W. Voigo

cc: Mr. Hugh A. McGovern Smith B. Gephart, Esq.