Place: Tike Milichakeno

STATEMENT

, hereby make the following voluntary statement who has identified himself to me as an Investigator to PETER E. BACI with the U. S. Nuclear Regulatory Commission. I make this statement freely with no threats or promises of reward having been made to me. Investigator BACI is writing/typing this statement for me at my request. 14 ac N ? (9501230140 940411 PDR FOIA GILINSK92-436 PD PDR

. Page . 2 the RC(P) and SRC(P) tests only: This was to course the NZC went tingleting to get over the amount sens unte ail of the exams o either completed on in provens. Thus the ansier the 2 in the RC. Exams were not received unes Trustai and Friday (4/23-24/3:) Contras 1443, it met with lilkSin, along with Dinny BOLTZ and Neisen (Stro) BROWN, That's Truing and ha RC/SRC overas with me on 4/21-22/31. Com the sien (4/23/21) we went me? The examinand answer - right for the RC(A) celing we started the RC(B), which was ceine was that are, but did not signest that centil Francy 4/24/21, when we cake into Tist. I The precedure was to as through exampled answers in a culture - be - acuseum basis. Us works suggest some changes because the tech specs had changed on the regional manitude was out of dece, to heme to be the American and to the changed, we near to digue a milera of have in the maner The I News and we wanted the war it consults mound to se The charges of The wer mide, and have -Paul of The ch in the mer seem my our service it is well are eles for the miles. The waters Too Hot Haves by 123 in 107 3 1-11 m 4/24/41 ck regression to the

store in hunch on Trusking and semi to

Page 3

before lunch. on my famin, the zuring, the wires was known pecause, as it said early was ren uniseral selecticams wences se A repertie exampled ansute mys war inint WILSON ON NIC DINCHES WAS HUR US IN BUITZ exice for idemost all the time. BOLTZ' office, her the receiption to perce was expected The classion in a truck the examine preto as, it semply a nit true. Mr. Bui ward me of it tier-fit insure: 130 A Material Talence All Buch use agree me i thought my one on

that orecen in whee to the ptile prices and for mercus chaint think I true been me this end begation - ned trin it they nome on 2,4? Then my sidliment Out of the finished any changes besiding from the rection with men I have read the foregoing statement consisting of handwritten/typed pages. I have made and initialed any necessary corrections and have signed my name in ink in the margin of each page. This statement is the truth to the best of my knowledge and belief. I declare under penalty of perjury that the foregoing is true and correct. Executed on 9/19/81 at 1142 Subscribed and sworn to before me this 19th day of Sopt, 1981 at Three Milicustand INVESTIGATOR: WITNESS:

Sworn Statement by 1981.

I, hereby make the following voluntary statement to Mr.

R. A. Matakas who has identified himself to me as an investigator with the Nuclear Regulatory Commission. I make this statement with no threats or promises having been made.

I am currently employed at Three Mile Island, Unit 1, as a Shift Technical Advisor (STA). I have been employed by Med Ed since December 1976. As a STA, I spend most of my time in the control room, shift supervisor's office or on tours of the plant.

I did not take either the reactor operator or senior reactor operator tests that were administered by the NRC at TMI on April 21 through 24, 1981. I was probably off Tuesday, April 21, 1981, however, I did work the 7:00 AM to 3:00 PM shift on April 22-24, 1981. I believe that it was sometime after the testing was over that I learned that Mr. Mike Ross had reviewed the RO and SRO tests and keys. On one occasion, around the time period of testing, I was in the shift supervisor's office and Mr. Ross commented about reviewing the tests and answer keys. There were other people present but I do not recall who. It was more of a general comment to the effect that he (Mr. Ross) had reviewed the tests and keys so that they were more correct and he indicated that the review resulted in a broadening of some of the answers so that they were more fair. The impression that I got for example, was that if originally the answer key allowed for just one correct answer when in fact more than one answer was both fair and correct then the key was broadened to include all the correct answers, I did not infer from the comment that he had intentially attempted to broaden the answer key so as to give an un-

fair advantage to the people taking the test. Nor did I get the impression that he had attempted to intentially keep the proctor out of the testing room under the pretext of reviewing the test. My impression was that Mr. Ross made the statement in a reassuring manner, more-or-less directing his comments at those present who had taken the test, that the tests and answer keys had been reviewed for fairness. Furthermore, I have not heard any conversation by any Med Ed/GPU person that would indicate that the proctors had been intentially kept from the testing rooms.

I have read over this two page statement and discussed its contents with Mr. Matakas who had it typed for me. I have acknowledged its contents with my initials, have had the opportunity to make corrections and this statement is the truth to the best of my knowledge and belief.

-	Signed:			
Da	te/Time: /3	1212	10.57	L.M.

SUBSCRIBED AND SWORN TO BEFORE ME

THIS 2NL DAY OF OCT 81

INTESTIGATION SPECIALIST USING

ENCLOSURE 7

FAVING BEEN MADE.

HEREPY MAKE THE POLLOWING VOLUNTARY STATEMENT
TO MR. R. A. MATAKAS WHO HAS IDENTIFIED HIMSELF TO ME AS AN INVESTIGATOR WITH
THE NUCLEAR REGULATORY COMMISSION. I MAKE THIS STATEMENT WITH NO THREATS OR PROMISES
FAVING BEEN MADE.

I AM CURRENTLY EMPLOYED AT THREE MILE ISLAND, UNIT I, AS A SHIFT TECHNICAL ADVISOR (STA). I HAVE BEEN EMPLOYED BY MED ED SINCE JUNE OF 1977. AS A STA. I SPEND MOST OF MY TIME IN THE CONTROL ROOM, SMIFT SUPERVISOR'S OFFICE OR CM

TOURS OF THE FLANT. I DID NOT TAKE EITHER THE REACTOR OPERATOR OR SENIOR REACTOR OFERATOR TESTS THAT WERE ADMINISTED BY THE TRO AT THE ON APRIL 21 THROUGH 24, 1981. I WORKEL TRESDAY AND OH FUESDAY, APRIL 34, 1981, HAD WEDNESDAY OFF AND THEN WORKED THE 3:00 PM TO 11:00 PM SHIFT ON THURSDAY, FRIDAY, SATURDAY AND SUNDAY, APRIL 23-26. AT NO TIME DO I RECALL BEING A PART OF OR OVERHEARING ANY CONVERSATION BY MR. FIKE ROSS IWHICH WOULD INDICATE THAT ME 2033 DID MYTMINE RELATING TO A REVIEW OF THE TESTS ADMINISTERED BY THE MRC. AROUND THE TIME OF IMPROPER. THE EXAMINATIONS, I DID HEAR CONMENTS (CAN NOT RECALL BY WHICH) THAT THE PROTTERS WERE ABSENT FROM THE EXAM ROOM FOR LONG FERIODS OF TIME BUT I DID NOT HEAR THAT THEY WERE INTENTIALLY KEPT FROM THE ROOM OR THEY WERE KEPT FROM THE ROOM BY SOME DEVICUS MEANS. I FURTHER DID NOT HEAR ANY CONDENTS OR DISCUSSION RELATING TO A TEST REVIEWER, OR RITIONE ELSE, ATTEMPTING TO GET THE NEG TO EXPAND THE ANSWERS TO THE TESTS SO AS TO GIVE UNFAIR ADVANTAGE TO ANY ONE TAKING THE TESTS. AT NO TIME HAS ANYONE TOLD ME THAT THEY CHEATED ON THE MRC TESTS NOR HAS ANYONE PROVIDED WITH THE EXCEPTION OF THE TWO ENHUIDEDED IDENTIFIED BY THE HE WITH THE HAVE OF ANY INDIVIDUAL WHO MAY HAVE CHEATED, SINCE THE TESTS WERE NRC. FIRST GIVEN ON APRIL 21, 1981, I HAVE HEARD ONE RUNCR THAT MAY OR MAY NOT BE RELATED TO CHEATING ON THE ECANS. WHILE IN THE AREA OF THE CONTROL ROOM, ARCUND DEST THE OR SHORTLY THEREAFTER, I HEARD SEVERAL PROFILE SITTING AROUND TALKING APOUT THE DESTS AND TEST QUESTIONS. ONE OF THE INDIVIDUALS SAID SCHETHING TO THE EFFECT, THAT QUESTION WAS NOT ON MY SHEET. FROM THE CONTENT OF THE CONVERSATION. TATOUNHARD I THINK THE INDIVIDUAL WAS REFERRING TO A "CRIE" SHEET AND NOT A HOME STUDY SHEET FUT I'M NOT REALLY SURE. AT THE TIME I DID NOT THINK

ANYTHING ABOUT THE CONCENT AND DO NOT KNOW IF THERE IS ANY SUBSTANCE TO IT OR NOT. BECAUSE IT WAS A PASSING COMMENT AND I HEARD IT ABOUT FIVE MONTHS AGO, I DO NOT RECALL WHO MADE THE CONSIDER OR WHO ELSE OVERWEARD IT.

I HAVE READ OVER THIS TWO PAGE STATEMENT AND HAVE DISCUSSED ITS CONTENTS WITH MR. MATAMAS WHO TYPED IT FOR ME. I HAVE ACKNOWLEDGED ITS CONTINETS WITH MY INITIALS, HAVE HAD THE OFFORTUNITY TO CORRECT ERRORS AND MAKE ANY CHANGES AND THIS STATEMENT IS THE TRUTH TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SIGNED:

DATE/THE	9/27	181	1114
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SU SCRIFED AND SWORM TO BEFORE ME THIS 124TH DAY OF SEPTEMBER 1981, AT THREE MILE ISLAND MUCLEAR FOWER STATION.

RICHARD A. MATAKAS, INVESTIGATOR, USIRO

TRANSCRIPT OF TAPED INTERVIEW WITH THREE MILE ISLAND. UNIT 1, SHIFT TECHNICAL ADVISOR, CONDUCTED BY NRC REGION I INVESTIGATOR RICHARD A. MATAKAS ON SEPTEMBER 23, 1981.

I, HEREBY ACKNOWLEDGE THE CONTENTS OF THE FOLLOWING THIRTEEN PAGE TRANSCRIPT AS AN ACCURATE AND TRUTHFUL ACCOUNT OF AN INTERVIEW CONDUCTED BY NRC REGION I INVESTIGATOR, R. A. MATAKAS, WITH ME ON SEPTEMBER 23, 1981. AT THREE MILE ISLAND. I PROVIDED THE INFORMATION WITH NO THREATS OR PROMISES HAVING BEEN MADE. I HAVE ACKNOWLEDGED ITS CONTENTS WITH MY INITIALS, HAVE HAD THE OPPORTUNITY TO MAKE CORRECTIONS AND THE INFORMATION SET FORTH IN THIS TRANSCRIPT IS THE TRUTH TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SIGNED:

DATE/TIME: 10/2/9;

SUBSCRIBED AND SWORN TO BEFORE ME

THIS 2 Not DAY OF OCT 21

LNVESTIGATION SPECIALIST, USNRC

Matakas: This is Investigator Richard Matakas, from Region I, Nuclear Regulatory Commission. The date is September 23, 1981. Present during this interview are:

Matakas: And what is your position here?

Shift Technical Advisor, Three Mile Island, Unit 1.

Matakas: And Mr.

John F. Wilson, Esquire, Attorney with inaudible and Liberman. Wilson:

what I would like to do, is yesterday we talked about Matakas: Basically the exams that were adminstered by the NRC at TMI on April 21-24 and we got to a point where I wanted to ask you if you had any direct information that indicated that any cheating may have been going on during those tests that were administered between 21 and 24 April? Also before going farther I'd like to state that Mr Wilson is here at) request and he is not representing

attorney. Is that correct?

That's right. He's here at my request but he's not my personal attorney. Well to finish up from yesterdays discussion, it seems to me that I remember that the discussion fell into two broad categories. The first portion of the discussion involved specific questions about Mike Ross and whether or not he kept people out of the room or attempted to unfairly broaden the answer sheet. And the answer is that I gave to those questions I felt and still do feel good about them are inaudible true. The second thing that we talked about yesterday was about repeating rumors that I may or may not have heard. And I didn't then feel as though it was appropriate or correct to repeat to repeat rumors. I guess I still feel that way but I have been talking to a number of people, including Mr. Wilson, and believe that the greater good may be accomplished or the lesser evil may be accomplished if I do discuss rumors that I may have heard. So, could you repeat the question that you just asked me please?

Matakas: Ok. Specifically, what I would like to know, Mr. Wilson has talked to me about your conversation, and from our conversation, I understand that you may have some direct information regarding the possibility or that indicate the possibility of cheating on the exams adminstered by the NRC and I would like for you to discuss those that you have previously related to Mr. Wilson.

Ok. What I know in the way of first hand knowledge is that on, I believe it was a Thursday that the tests were given.

Matakas: Ok, would that have been, the test was given beginning the 21st, which was Tuesday, so Thursday would be 23 April 1981?

I believe it was the Thursday and that would have been April 23.

Matakas: The time is 0935 we have a telephone call. I will turn the tape off at this time. The time is 0936 the telephone conversation is finished going on with the interview.

Ok what I started to say was that I'm pretty sure it was on Thursday that the week of the tests were given and that would have been April 23 you say, right?

Matakas: That's correct.

Sometime in the morning, I can't really pin it down, but it seems to me it was about in the middle of the morning, a phone call came from the Shift Supervisor's office and they asked to talk to me. So when I got on the phone the person on the other end identified themself to me

Matakas: Excuse me one moment did you answer the phone

No I didn't.

Matakas: Who did answer the phone?

I don't remember who answered the phone. It didn't ring as I recall, it didn't ring in the Shift Supervisor's office it rang in the control room and whoever was on duty out there answered it, and let me know that it was for me and so I picked it up. Anyway, the person who called identified themselves to me and asked me a question that I suspected was the type of question one might find on the NRC exam. So I asked that person, are you taking your NRC exam? He said no. I'm helping another person take their NRC exam. And I said well, I can't tell you the answer to that question right now. And they said, why not. And I said, I don't think it would be a right thing to do.

Matakas: Ok

So they said ok and that was the end of the conversation. They hung up and I hung up.

Matakas: Ok, before we go any farther. The caller identified himself to you. What did he, what name did he give?

He said, this is

Matakas: How long have you known

Well, I've known who he was since I started to work as the Shift Technical Advisor which would have been September of 79. I have never known him very well and I don't know him very well even today.

Matakas: But have known him professionally.

Right.

Matakas: Since when again?

Beg pardon?

Matakas: Since when September

Since September of 79. I started working as an STA in September of 79 and that put me in the control room or near the control room and he was a CRO or a CRO trainee. I'm not sure which at time, so I knew who he was.

Matakas: Ok. Did you work near a speaker phone?

Ya there was a speaker. The phone to answer on in the Shift Supervisor's office is a speaker, has the ability to be used as a speaker phone.

Matakas: Do you use the speaker phone?

. It's my recollection that I did, ya.

Matakas: Who was present during this time?

Besides me in the room you mean?

Matakas: That's correct.

It's my recollection that another STA was present.

Matakas: And who was that?

A His name is

Matakas:

Matakas: Did you recognize the voice as voice?

At the time that I took the call, I didn't question who it was that was calling in my mind. It was a man's voice. I don't know that I knew well enough to recognize his voice on the phone but he didn't

Matakas: Ok at the time of call, did not question identity of caller. Did do you have any reason to believe that was not

At the time of the call or later?

Matakas: Well, at the time of the call or later.

At the time of the call I didn't question who it was but when I thought about it, and when I talked with another individual later I did question whether it was or someone just saying that they were que oned that in my own mind.

Matakas: At the time of the call did not question the identity of the caller. Ok, we will get the subject of what was said for just a little bit. You said later on you did question the identity.

That's right.

Matakas: How did that come about?

The way that came about is the caller told me that he was and the caller also told me that he was helping another individual take the NRC test. What I did was I talked to the person he identified as being helped in taking the NRC test. Now that person told me that he didn't ask for any help and didn't attempt to obtain any help and so I reasoned in my mind that if the caller misrepresented what he wanted the information for it was also possible that he would misrepresent his own identity on the phone. I suppose as I thought about it further it seemed to me that under the circumstances a person might be inclined to misrepresent their identity on the phone.

Matakas: So we're talking about \of course as the person that identified as he was helping and \denied ever asking or requesting any help from \text{Is that correct?}

That's correct. I'm surprised how you know that it was

Matakas: Pardon me?

I said that, you surmised correctly that, the person who called said he was helping take the test. I don't know how you know that.

Matakas: Ok, the voice itself, did you have any reason, in other words, did it appear that someone was disguising their voice or not disguising their voice. On the voice itself did you have did you have then or do you have now any reason to believe that it was not.

Based solely on the voice?

Matakas: Right.

Not based on any conversation I had with or any suspicions of my own just based on my recollection of that voice?

Matakas: That's right. In other words, looking back at it I mean maybe you can't comment on it at all, I'm not trying to put words in your mouth, what I'm getting at is looking back at it, you know, I don't 'now how long, we never got into how long it was before you talked to after the phone call, but at that time you know you may have rang something in your head that maybe the person was disguising their voice. I don't know and that's why I'm asking you.

At the time I didn't question in my mind whether this person was disguising their voice or was someone else. Just the question itself never entered my mind. It wasn't until after I talked with that the question entered my mind. Now thinking back and trying to remember the voice and whether I can remember that voice I don't think I can remember how that voice sounded. I can remember what he said but I can't remember the sound of that voice, the tone or.

Matakas: Ok, the caller identified himself and said this is We will go from there as far the conversation of the way that he first, he said this is A and then he asked.

Well he said this is I got a question for you, or words to that effect. I said ok. Or words to that effect and he asked me a question and I don't recall entirely but it seems to me that it was a question that was along the lines of what happens to fuel pin temperature over core life if an oxidizing layer builds up on a cladding sur face. Now that may not be the exact question but it was a question dealing with those kinds of things.

Matakas: And what did that indicate to you?

We'l, I questioned in my mind why a person would want to know the answer to that question at that particular point in time.

Matakas: You knew the test was going on.

I knew the tests were going on.

Matakas: Did you question his reason for wanting to know?

So I said words to the effect, are you taking your NRC test right now?

Matakas: And.

He said no, I'm helping, he said words to the effect of, no I'm helping take his.

Matakas: Did he say | or did he say

My recollection is he didn't use a last name.

Matakas: And then?

Beg pardon?

Matakas: And then what what did you tell him in answer to that.

I said I can't tell the answer to that now. He asked me why I couldn't and I told him, didn't think it would be fair. And then I told him, well, he said ok, first he said ok, and then I told him if either he or a was interested in knowing the answer to that question, that I'd be happy to tell them after the tests were over. For their own information.

Matakas: What did he say to that?

He said ok, and then he said good-bye and that was the end of the conversation.

Matakas: You said | I believe.

Yeah.

Matakas: Did | have any comment?

and I talked about it for a little bit.

Matakas: Do you remember what?

I think it was pretty short and I said basically words to the effect of, I hope those guys can understand.

Matakas: Nid have any comment on that?

said words to the effect of, you did what you have to do.

Matakas: Ok up until, up to this time of this telephone call, had you heard that anything like this was going to be taking place? People getting answers from people or or anything to this effect anything in this area, up to this time?

Could you tell me what, I'm trying to figure out, you're saying up until this time had I heard that this was going to take place that they were going to be

Matakas: Alright what I'm getting at is, if this did in fact take place was it a preplanned thing where possibly this person was getting answers for more than one person.

That I don't know. I don't remember of hearing that this or anything like this was being planned or was planned to take place for those tests, ok. I was surprised when I got the phone call.

Matakas: At this time the time is 0952 and I would just like to take a short break just to make sure that the recorder is picking up what we are talking about. I will turn it off. Ok the time is 0955 and our break was extended a short time due to a Unit 1 fire drill. Ok, after this time, after you received the phone call, you mentioned before that you talked to whom identified as the person that he was or whom you assumed he was identifying due to and I take it that first name is

Afirst name is and he was and was the only that I knew of taking the test. I guess that I'd like to point out that I don't know that I don't know that it was who identified as the person that was the person being helped. I just know that the caller identified as the person the caller also identified himself as I'm making that distinction.

Matakas: Ok would you tell me approximate time period and the setting if any-body else was present when you talked to ... The time is 0956 a telephone call a short break please. Ok the time is 1002 Mr. Wilson is going to have to leave to make a telephone call, we'll have to stop the interview until he returns at that time. Thank you. Ok the time is 1018, Mr. Wilson has returned to the interview room.

matakas: Mr. Wilson.

Wilson:

This is John Wilson. I proceeded to my office to make a phone call to Mr. Clark. When I arrived at my office Mr. Arnold was already on the phone to the office and the discussion ensued as to the propriety of my being present in the interview room. I came back and discussed it as to the purpose of why I was originally here which with was twofold. One, to ensure the demeanor of the interviewer as being equitable to and two, to try to take notes in the meeting so that whatever said would be accurately recorded in context by the NRC. Ine second reason for being here is not a controlling reason since the interview is being recorded and at this point has a comfort level as to the demeanor of the interviewer such that he no longer feels my presence is necessary. Therefore, I'm going to be excusing myself from the interview.

and I'd like to say that I feel comfortable with the way the interview is gone up to this point in time and it is on that basis that I feel comfortable with Mr. Wilson's leaving.

Matakas: This is Rich Matakas. The time is 1020. Mr. Wilson will depart the interview. If has any questions or any problems he will be allowed to immediately contact Mr. Wilson for any questions that may arise. As you can hear we have another telephone call. We will take a break at this time. The time is 1023. Mr. Wilson has excused himself and present here at the interview still is myself, Richard Matakas, and When we left off the previous portion of the interview regarding contacting _ regarding the conversation he allegedly had with the person who identified himself as If we are a little repetitive I'm sorry we've had some interruptions but we'll go on at this point. " if you would, again I think the last question I asked you was would you go over the approximate time period and the situation was anybody present you know when you talked to on the first time.

was taking the test Thursday and Friday, as I remember Ok, well, and it was the first opportunity I got after that when I was with him alone. I can't remember what day of the week that was, if it was Saturday or if it wasn't until the following Monday. It was at some point in time when he and I were alone and I told him what had happened that I had gotten a phone call and that the guy who called said he was stake an NRC test. I specifically asked if it was true cause I was surprised would have been surprised had it been true. the way I do and he said, no, it wasn't true that he hadn't asked for or sought in any other way to get help on his exam. And I believe him.

Matakas: This conversation I take it was before the NRC investigation which has identified and one other individual as suspecting of having cheated on their NRC test. Is that correct?

Ya that's correct. It was well before that. I would be confident in saying that no more than a week at the most transpired from the time I got the phone call until I talked to about it and that's a conservative estimate. Probably on the order of several days at the most.

Matakas: While we are still on this subject, after the NRC investigation and after I believe it was resignation?

Right.

Matakas: Did you have a conversation about what had happened with

Ya I talked to \about it one other time and that was as you say after \int no longer worked for GPU. Again I asked him if there was any involvement on his part. Again he told me, no. And again I believed him.

Matakas: Did you have any other conversation with time you confronted him about the telephone call?

I never confronted him, \about the telephone call.

Matakas: Oh I'm sorry I, in between all the interruptions that we have I some where thought that you had mentioned that you had talked to if he in fact was the person that called.

. never talked to ____about the phone call.

Matakas: Ok did you talk to anyone else besides and Mr. Wilson at this time regarding that telephone call? That you recall?

I talked to my wife about it.

Matakas: Anybody in Met Ed or GPU management or any other people that were taking the test?

No nobody in Met Ed or GPU management or anybody else taking the test. I talked with my wire and my parents about it.

Matakas: Did,

has requested a break at this time. Is that correct

The time is 1028 and we'll shut off the recorder. Ok the
time is now 1033 we are starting the interview the last question that
I asked

was had he had any conversation about this telephone
call with anypody from Met Ed, GPU and right before you know he answered
that question he wanted to take a break he regrouped his thoughts and
again I would like to present that question to him.

after
receiving the phone call, I know you've already told me that you
talked with

about it you talked to
you talked to myself and Mr. Wilson about it, and you also mentioned
your wife. Is there anybody in Met Ed or GPU management or anybody
else that had took the test that you discussed the telephone call that
you got?

I don't I don't believe so. It's possible that it there is another person that I discussed it with. Ok. I just realized I talked with Ron Toole about it yesterday morning.

Matakas: Ok and was it basically the same thing that we talked about here?

Ya I recounted for Mr. Toole the sequence of events in the same way that I did just here today.

Matakas: Did Mr. Toole give you any information that may shed light on any of this?

He didn't well like he didn't say anything that could shed light on any of this he didn't I'm not even sure that he that he you know knew about it or until I told him. I don't know about what he could have said.

Matakas: Did you have or have you heard any other information that may relate to any individual sitting outside the classroom and in order that he could provide information to people that were taking the test?

What are you asking?

Matakas: Well what I mean is had you heard anybody else make any mention of this situation from our discussion it appear that possibly if that person who identified themselves did in fact identify themself correctly as that maybe that maybe that outside of the classroom providing assistance to possibly at least that I'm asking is had you heard any other rumors or any other statements which would indicate that someone was outside the classroom providing information to anyone else that took the test.

As we have mentioned earlier, and discussed earlier, repeating rumors is something that I find difficult to do, more on principal than anything else. However, in this case, I think that I have to overcome my objections to say that ya I heard a rumor that rumor I heard at some

time following the investigation that involved

I don't recall where I heard it or who I heard it from it may have been heard I may have heard is several times from different people but the rumor went to the effect that a person was in the vicinity of the room that the test was given in and that his purpose for being there was to help people who were taking the test with answers that they with questions that they didn't know the answers to.

Matakas: Was this any specific test or the information you heard was just general in nature as you have stated it?

> The information in the rumor that I heard was general in nature as I stated. It didn't say which day, which test, who, where, as to regards to which room or anything like that.

Matakas: Was there any indication, again I know this is rumor I know it's difficult for you to talk about it, but was there any indication that anybody in a management level was aware that this was going on?

> Another rumor that I had heard at another point in time was that this person was performing his duty so to speak with at least the knowledge of someone higher up in the company. I find this rumor hard to relate because I don't know what's meant by higher up in the company. I don't know what department this person might have been in. if there was such a person, and I surely don't know who it was.

Matakas: Ok when you say that this, you said that this person was there with management knowledge are you talking about the person outside the classroom?

> When I said that the person was there with the knowledge of someone higher up in the company, I was talking about the person outside the classroom who was providing the help. What I don't know is whether higher up in the company means management level or what level.

Matakas: was there prior to the test being administered did you have any information or did you hear anything first hand or hear any rumors about any conspiracy to cheat on the test by any individuals who had to take the test?

> No, I didn't hear first hand or by any other means of any conspiracy before hand to cheat on the test.

You might say I didn't hear any rumors of a conspiracy, or at least what I would call a conspiracy, to cheat after the test. The only thing I've heard is the two rumors I just related. And I guess if you put those two things together, a person might think of it as a potential conspiracy.

Matakas: Did you have any information or did you hear any comments regarding getting together with any other individual and talk about cheating on the test?

Well, there was a recent investigation done, as I understand it, I don't know it first hand, it's another rumor, at least to my knowledge. that an investigation was done that involved and another individual because they had been talking about cheating on the test, not they themselves cheating but cheating have taken place on the test at some common gathering.

Matakas: In other words what you are saying is that an individual related to you that they overheard and by we're talking about,

That's right.

Matakas: And by

we're talking about

Matakas:

Right.

Matakas: That someone overheard those two individuals talking in general about cheating on the test.

No, not that specifically. What I heard was that had to talk to company officials because they'd been overheard discussing cheating on the exam at a friends and family at TMI mesting is what I heard. Whether that's true or not I can't say.

Matakas: Do you know who they had to talk to?

The impression that I got, I can't recall exactly, but I was definitely under the impression that they were talking to Mr. Arnold.

Matakas: Do you recall who gave you that information?

No, I don't remember where I heard that.

Matakas:

I'd like to give you a piece of paper that we talked about yesterday regarding the test itself and the administering of the test. I typed up what I information that I got out of our conversation, I'd like you to look it over and make any changes that you wish and let me know if you feel that it is an accurate account of what we talked about yesterd. /.

Should I tell ou what to do?

Matakas: No, just make any corrections. All corrections on there just go ahead and put initials where anythings been crossed out or where anything has been added.

> Ok, I've looked at it and made a couple of changes and I believe it's a fair and accurate representation of what I said.

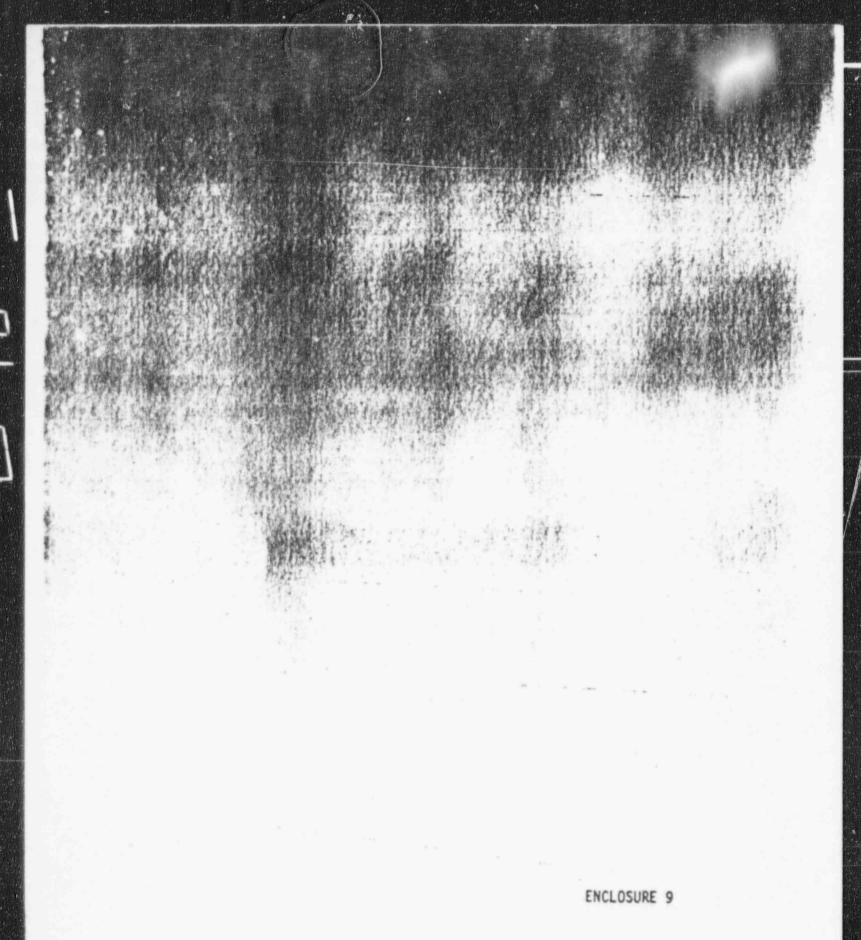
made from yesterday regarding this Matakas. We also have a tape that information which he will make available to us to copy. I'd like to Did you personally ask you just a couple more questions cheat on any of the tests that you took?

No sir.

Matakas: Other than what we've discussed on this tape and what we previously discussed yesterday and that has been recorded, do you have any other information at all regarding cheating or any information that you haven't told me on the last tape regarding any action by any Met Ed employee or GPU employee which would indicate that they had tampered with the test or the testing procedures in any way such as attempting to keep the proctors out of the room or by devious means attempting to expand the answers while reviewing both the test and answer sheets with the proctors?

> I'm going to have to try to answer each of those sections. know of anything other than what I said yesterday in regards to anybody broadening the answer key or changing the answer key by any other means. I don't know of anybody deliberately trying to keep the proctors out of the room for any reason at all. I don't know of cheating that took place on these tests other than what I've been able to find out about the investigation that took place earlier this fall with Does that pretty much answer what you asked or is there something else in there that I didn't.

Matakas: Yes. No I think that's fine. Ok the time now is 1048 this will complete this interview. Upon completion I will remove the tapes I will break out the clips so the tapes cannot be erased, and Mr. John Wilson has assured me that copies of this tape will be made available. This lat Three Mile is the end of the interview with Island on September 24, 1981. (I MEANT THE 1341)



TMI - NRC Complex

I,		, hereby	make the fo	ollowing vo	luntary state	ment to
Mr.	William J. Ward who	has identifie	d himself t	to me as an	Investigator	with
the	U.S. Nuclear Regula	tory Commissio	on. I make t	this statem	ent freely wi	th no
thr	eats or promises of	reward having	been made t	o me. Mr Wa	rd is typing	this
stat	ement with my permiss	sion.				

I am employed as MetED/GPU Nuclear as a shift supervisor at Unit 1. I have

been - employed since 1967.

Mr Ward has asked me to explain certain remarks that I have allegedly made to members of my management to the effect that "the people responsible for the cheating are still around". First of all, I would like to say that I have no recollection that I used those words. I am fairly sure that I would not have wood the word "cheating". Further I do not specifically recall such a conversation, bur based on what Mr Ward has told me, I suspect that this inetrpretation comes from a conversation that I had with Ronald Toole, Director of Operations & Mainenance, Unitl.

I believe the conversation in question came at a time that I was still upset by the termination of What I meant to sav was that must have reet compelled to cheat either because they were not prepared, or because they felt they were not prepared. On the other hand, the people who should have prepared them, or given them sufficient time to be prepared, are still employed whereas are not. I just didn't think that it was fair and I was (and still am) upset as a result. I did not mean to suggest in any way that I knew of other people who cheated.

I personnally did bot cheat or assist anyone in the exams that I took. I do not have direct or indirect knowldge of amyone cheating on those exams (The RO/SRO

exams in April, 1981).

I have read the forgoing one page statement. I have made any necessary corrections and have initialed them. This statement is the truth to the best of my knowldge and belief. I declare under penalty of perjury that the foregoing is true and correct. Executed on September 24, 1981 at /632 hrs.

Subscribed and sworn to before me this 24th day of September, 1981 at Middletown. Pa

WITNESSED:

Chief, Investigations Branch, IE
USNRC

Place: The Mile clistand Date: 9-25-81

STATEMENT

to
- fin statement summinger the information which it
gracies to M. Baci 2. 8 m Ray Smith within
NRC investigator, during a moting hell in NRC
Tinks # 5 It Thre Mill clobe in Speinter 24 1981
I am custintly imperged by Met-Ed/GPU as a
Shift Technical adires (STA) in Cent 1 and have
bein with the Company since 1977 ils redution,
I challe took the Ro Jand SRC evens this were
Jeven by the NEC on april 21 2nd 22, 1981.
Mi Baci asked me if I recalled a Telephone con-
versition which reportedly took place in This.
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Line of Friday (4/23 or 4/24) 1931) 1 this character
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call the conversation, that the caller us que that he asked on an NEC evan el remember something taking the caller that he could not answer quistion until after the exam; hours of de not remember tolking me on francis directly that the caller was setting this inimmation to assist a third party = who was in the process of toking our an exam africe was thereupon forgotten until recent interior with 1th Burion 9/18/81. Subsequent to that missing. me what the NRC investigation were asking sighte it related that it that it is not the partitude of the exame und the wine by met Ed of the text, and onesines mys. asked me if it thought the hor want of asent with them. I said no becourse they were interested in the ready int A comit in the in The bright of the from call the me new the in the shift subscreen where and ask. That case and tokk him to live it to it Will would water I wound that meter. Mr. Face usked me it it that is chiefed on the lipset 1981 -excesses or on one believe to my inchouming The tracked in The world Frether of the fine that i was not you

ASSOCIATED TECHNICAL TRAINING SERVICES, INC. REACTOR OPERATOR EXAMINATION

FACILITY

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			APPLIC	ANT	
	INSTRUCTI	ONS TO APPLICAN	T:		
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	-	-	-	E.	Safety & Emergency Systems
		***************************************	***************************************	F.	Standard and Emerger of Operating Procedures
	-	-		G.	Radiation Control & 515+
		ACCORDING COLUMBA	-	Н.	Principles of Heat Transparent and Fluid Mechanics
		FINAL GRADE		5	

DO'S AND DON'TS FOR EXAMS

DO'S

- 1. READ THE QUESTIONS CAREFULLY.
- 2. NOTE THE NUMBER OF POINTS ALLOTTED TO EACH QUESTION.
- 3. QUESTION THE EXAMINER IF IN DOUBT.
- 4. PACE YOURSELF.
- 5. SHOW ALL CALCULATIONS.
- 6. LOOK FOR ANY TWO-PART QUESTIONS WHICH MAY NOT BE LABELED AS SUCH.
- 7. RECOGNIZE WHETHER DEFINITION OR EXPLANATION (DISCUSSION) IS REQUIRED.
- 8. LIST MORE THAN TWO REASONS IF SOME OR FEW ARE REQUESTED.
- 9. JUSTIFY, WHERE POSSIBLE, USING MATHEMATICS TO REINFORCE A CONCEPT.
- 10. WRITE CLEARLY

DON'TS

- 1. LEAVE ANY BLANKS
- 2. READ HIDDEN MEANINGS INTO THE QUESTIONS.
- 3. SHOW THE EXAMINER YOUR ANSWERS FOR HIS CONCURRENCE.
- 4. WRITE YOUR NAME ON EVERY SHEET.

A. Principles of Reactor Operation (16)

- During a reactor startup, an operator finds that the reactor is critical with a 5000 CPS indication. Later, after one month of power operation, he is again starting up the reactor and assumes the reactor will again be critical at 5000 CPS. Is his assumption correct? JUSTIFY your answer.
- 2. A reactor shutdown by 5% has a normal source level of 10 CPS. If the Keff of the reactor is increased to .98, what should the approximate count rate be at this time? Show all assumptions and calculations.
- Describe the various means by which a neutron can be lost to the system following production from fission.
- 4. There are 1000 neutrons in a particular generation of which 993 are "prompt" neutrons and 7 are "delayed" neutrons. There were 995 neutrons (total) in the preceding generation
 - a. Define prompt and delayed neutrons.
 - b. Is the reactor subcritical, critical or super critical?
 - c. Explain how the 7 delayed neutrons have an effect on the control of the reactor. Use the above case as an example.
- a. Describe how xenon and samarium are formed and depleted during reactor operation, including important half lives.
 - b. Give three reasons why samarium is less important than xenon in reactor operation.
- 6. During a normal control rod withdrawal for obtaining criticality the following data was obtained:

At 0800, Keff = 0.99, cps = 20 At 0805, the operator adds 0.4% k/k At 0810, the operator adds 0.4% k/k

- a. Sketch the count rate versus time. Extend the curve for nine (9) minutes after the last maneuver. Identifieach new stable count rate.
- b. Briefly explain the shape of the curves.

B. FEATURES OF FACILITY DESIGN (15)

- 1). Figure B-1 provides the outline of the Once Through Steam Generator (OTSG).
 - a. Sketch the location of the steam and feedwater nozzles.
 - b. Sketch and identify the feedwater control valves that are controlled by ICS and/or the control room operator.
- Figure B-2 contains an outline of the reactor vessel, the OTSGs and the pressurizer.
 - a. Sketch and lable the remaining piping in the RC system. Include direction of flow.
 - b. Sketch connections to other systems. Include any motor operated valves and components within the reactor building.

 (Do not include drain or vent valves)
- 3. Starting at the condenser hotwell, list the following items in sequence as they are found in the condensate and feedwater system.
 - -Low Pressure Heaters
 - -Condensate Pumps
 - -Feedwater Control Valves
 - Steam Packing Exhauster
 - -High Pressure Heaters
 - Feed Pumps
 - -Steam Generators
 - ×Hotwell Pumps
 - Feedwater Flow Elements
 - Powdex Vessels
 - Y Condensate Coolers
 - * Hydrogen Coolers
 - v Resin Trap
- 4. a. List three (3) of the liquid systems associated with the Reactor Coolant Pump and the purpose for each system.
 - b. On a loss of any of these systems must you trip the RCP? Explain your answer.
 - c. What is the normal pressure drop across #1 seal?

. B. FEATURES OF FACILITY DESIGN (15) continued

5. Why does the RCS hot leg sample line have a delay coil in the line while the Pressurizer liquid space sample line does not?

. General Operating Characteristics (17)

1. The operator is conducting a routine reactor startum. After leveling off at 10-9 amps and logging the data, he withdraws the control rods and establishes a .8 DPM SUR.

If he performed no further rod motion, how long would it take before he saw the first effects of nuclear heat? Show all calculations and assumptions.

- 2. a. Why is oxygen concentration in the reactor coolant controlled?
 - b. Give two (2) sources of oxygen in the cooling system at power.
 - c. How is oxygen concentration in the reactor coolant controlled? (All modes.)
- 3. A reactor startup is in progress and it is calculated that 200 ppm of boron must be diluted to get to the critical boron concentration before pulling the control banks. Prior to the beginning of the dilution the source range monitors read 30 and 33 CPS. After diluting 100 ppm of boron, the same instruments read 62 and 68 CPS. Should you, as 2 reactor operator, go ahead with the planned dilution of another 100 ppm?

 JUSTIFY your answer.
- 4. While at equilibrium full power, a change is made in the circulating water system that increases condenser pressure by 3 inches of H absolute. Describe the changes, if any, in the following?
 - a. Generator Output
 - b. Governor valve position
 - c. Tavg
 - d. Nuclear power.
- 5. a. What would be the level indication response if the reference leg to the pressurizer level AP cell should fail? Explain.
 - b. What would be the flow indication response if the diaphragm in the feedwater flow AP transmitter should fail? Explain.

C. Coneral Operating Characteristics (17) continued

- 6. Explain how xenon behaves following a reactor trip from 100% and following a power increase from 50% to 100% after 1 week of operation in each case.
- 7. Fifteen minutes after a trip from full power the reactor is producing mostly delayed neutrons at slow energies. Explain why you agree or disagree with this statement.
- 8. Figure C-1 provides the following parameters, Pressure, temperature, and reactor power.
 - a. Sketch the normal R. C. temperatures (Thot, Toold and Tave) between 0 to 100% power.
 - b. Plot OTSG steam temperatures and pressure between 0 to 100% power.
 - c. What degree of subcooling is expected at 0% and 100% power? (Utilize attached Enclosure 1)

. D. Instruments and Controls (18)

1. Flux tilts may be categorized as either axial or radial. a. What is meant by axial or radial flux tilts? b. Describe how the instrumentation is utilized to detect each of these flux tilts. 2) Describe the control and alarm functions obtained from the three ranges of out-of-core nuclear instrumentation during shutdown, startup and power operation. 3. The PZR power operated relief valve may be operated in Remote Manual and automatic. It also has indications in the control room. a. What conditions will open the valve in automatic? (Include present set points). b. How does the staff open the valve manually? "c. What indications are available to inform the operator - if the valve is (i) open and (ii) closed. 4. a. Utilize Figure B-1 to sketch the location of the OTSG level sensors. b. When is each level sensor utilized by the ICS or by the operator in controlling level? c. What will happen if the controlling D/P cell bellows fails? 5. Utilize Figure B-2 to show the location of level, temperature, pressure and flow sensing devices in the: a. R. C. system, include the core region. b. Pressurizer. 6. The Integrated Control System (ICS) has features which initiate (i) Tracking and (ii) Runback. a. List the conditions which the ICS will go to "Tracking". b. What conditions initiate a runback? _ = NOTE: Include present set points and any rates associated with each condition.

E. Safety and Emergency Systems (17)

- 1) List the conditions that will cause a reactor trip.
 Include logic (1 of 2, 2 of 4, etc.) and present set
 points. Asterisk those which have been changed/added
 since the TMI accident.
- Your reactor is equipped with internal vent valves in the top of the core support shield.
 - a. Utilize a simple sketch to show their location with reference to the reactor vessel nozzles.

= =

- b. Under what condition(s) will the vent valves open?
- 3. Assume the reactor building (RB) pressure begins to increase at a rate of 2 PSI/min.
 - a. List the automatic actions that will occur and when.
 - b. What components are used to reduce RB pressure and include the "heat sink" for each component?
- 4. a. In addition to the core flood rozzles, the LPI System can discharge into other points. What are they?
 - b. In the injection phase, the LPI is lined up to inject into the core flood nozzles. Discuss the reason why, in some circumstances LPI injection may not be desirable.
 - c. Discuss the alignment of the LPI system for Recirculation if RC. pressure remains higher than the shutoff head of the LPI pumps.
- 5. Assume a LOCA with a pressure decay curve as presented in Fig. E-1, occurred at your facility. Utilize Fig. E-1 to indicate:
 - a) Points of ECCS actuation
 - b) Shutoff head of each component
 - c) Rated flow or capacity of each component

F. Standard and Emergency Procedures (16)

- 1. The plant is operating at 75% full power. A leak develops in a tube in a steam generator which rapidly escalates to 165 GPM.
 - a. Explain the instrument response which will enable the operator to decide if it is a steam line break, steam (Include the reasons for rejecting the other two possibilities.)

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- b. Explain the instrument response which will enable the operator to determine which is the affected steam generator.
- c. Describe flow paths by which radioactivity in the steam generator could reach the environment.
- 2. a. Briefly describe how a bubble is drawn in the pressurizer.
 - b. What instruments would you monitor on the pressurizer and what would be their indications from just before to just after formation of the bubble?
- 3. Assume an oil line on one of the feed pump turbines cracks and sprays oil on a steam line. The oil penetrates the lagging and ignites.
 - a. The turbine building operator observes this condition. What should be do?
 - b. What individuals, by title, constitute the on-shift Fire Brigade?
- 4. Should the availability of the RCP's be lost for some reason, decay heat would have to be removed from the core by natural circulation.
 - a. What RCS conditions should be established to insure adequate natural circulation?
- 5. During a load increase, the pressurizer spray valve opens and will not close. Attempts to isolate it are nonproductive. Pressure is decreasing at 100 PSI/minute with all pressurizer heaters on
 - a. What emergency procedure(s) can be used for this malfunction? (Indicate title only)
 - b. What immediate action steps would be required?
 - c: Assume no supervisory personnel are available to assist you. Outline how you would terminate

G: Radiation Control and Safety (16)

- 1. What, if anything, is wrong with the operators' action in a radiation area in the following situations?
- a. He enters the area with a GM instrument, it reads zero, so he proceeds about his work.
- b. He observes a puddle of water on the floor, takes his lab coat off, wipes up puddle, throws coat into contaminated waste container, and proceeds about his business.
- c. He cuts his hand, forces bleeding to clean the wound, places a bandage on the cut and proceeds about his business.
- 2. Why is I-131 considered the limiting isotope in many accident studies and waste release limits?
- 3. a. An operator standing 15 feet from a known small radioactive crud deposit in a pipe fitting measures 1000 mrem/hr. on a portable instrument. He must operate a valve 5 feet beyond the source. What is the dose rate at the valve he must operate?
 - b. What methods of exposure control could be employed to limit his radiation exposure?

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- 4. Define the following terms:
 - a. Biological half-life.
 - b. Effective half-life.
- 5. What is the major source of radiation in the reactor coolant loop areas during:
 - a. Operations?
 - b. Shutdown?

G. Radiation Control and Safety (16) continued

- Attached Fig. G-1 shows the variation of charge collected versus applied voltage for gas-filled detector chambers.
 - a. Name the six regions and give a brief description of what is taking place in each.
 - b. Indicate which regions are used in portable radiation monitoring instruments.
 - Give an example of a portable instrument at your facility which operates in each region listed in (1).
 - d. For each instrument listed in (c), give a specific example of when you would use it.

7. What is the required response if a high radiation alarm is received on the reactor coolant letdown monitor

Surph

H. . Principles of Heat Transfer and Fluid Mechanics (16)

- 1. a. The TMI reactor will produce significantly more hear than will ultimately be converted to electricity in turbine-generator. Name four (4) sources of energy loss within the plant.
 - b. Approximately what percentage of the total heat generated in the reactor is converted to electricity?
- 2. a. Explain what is meant by NDTT?
 - b. When the plant is in a cold shut down condition, the temperature of the reactor vessel is below NDTT. Explain why this is or is not an unsafe condition?
- 3. Explain why it is desirable to rapidly reduce the full-power Tavg after a Rx trip. Include value.
- 4. A cylindrical tank has a diameter of 8 feet and a height of 12 feet. It is filled with water to a height of 10 feet. What is the pressure in psi at the following points.
 - a. At the bottom of the tank?
 - b. Four (4) feet up from the bottom of the tank?

Note: The weight of water is 62.4 LB/FT3

- 5. Explain how the build-up of corrosion products (CRUD) on the fuel elements affects fuel temperatures.
- 6. a. A partially-filled tank has an air volume above the liquid surface of 4 X 10⁵ in and an initial pressure of 14.7 PSIA. The tank is draited with the vent closes, until the air volume reaches 7 X 10⁵ in . What is the pressure in the tank?
 - b. After draining, the surface area of the tank above the liquid level is 40,000 in². What is the force acting to collapse the tank?
- 7. a. What conditions, other than trapped air, can cause pump cavitation?
 - b. How would you observe this condition?

Place: Tive 11:00 1/2:00 Date: 1-25-11

STATEMENT

I. , hereby make the following voluntary statement to PETER F. RACI who has identified himself to me as an Investigator with the U. S. Nuclear Regulatory Commission. I make this statement freely with no threats or promises of reward having been made to me. Investigator BACI is writing/traing this statement for me at my request.
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	thinking
	I have read the foregoing statement consisting of $\frac{3}{2}$ handwritten pages. I have made and initialed any necessary corrections and have signed my name in ink in the margin of each page. This statement is the truth to the best of my knowledge and belief. I declare under penalty of perjury that the foregoing is true and correct. Executed on $\frac{9-25-61}{2}$ at $\frac{1315}{1315}$.
	INTERVIEWEE:
	Subscribed and sworn to before me this 2. h day of Sept. 1981.
	INVESTIGATOR LE E. San. 13:16

MITNESS: NAME: 13:17