UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

In the Matter of:

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IE TMI INVESTIGATION INTERVIEW

of Stephen L. Mull Auxiliary Operator B

> Trailer #203 NRC Investigation Site TMI Nuclear Power Plant Middletown, Pennsylvania

May 22, 1979
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NRC PERSONNEL:

Warren T. Hunter Anthony Fasano William H. Foster

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FOSTER: The following interview is being conducted with Mr. Stephen L. Mull. Mr. Mull is an Auxiliary Operator B at the Three Mile Island Nuclear Power Facility. The present time is 2:03 P.M. Today's date is May 22, 1979. The place of the interview is Trailer 203 located immediately outside the south gate at the TMI site. The individuals present for the interview are: interviewers Warren T. Hunter and Anthony Fasano. Mr. Hunter and Mr. Fasano are Inspection Specialists with the Office of Inspection and Enforcement, Performance and Appraisal Branch. My name is William H. Foster. I am the Senior Inspector Auditor of the office of Inspector and Auditor, NRC. I'll be monitoring the interview. Prior to the interview being recorded Mr. Mull was provided a document explaining his right concerning his information to be obtained regarding the incident at Three Mile Island. In addition Mr. Mull was apprised of the purpose of the investigation, it's scope and the authority by which the Congress authorizes the NRC to conduct the investigation. On the second page of the advisement document Mr. Mull has answered three questions. The questions with Mr. Mull's answers will now be recorded as part of the interview. Mr. Mull do you understand the document?

MULL: Yes.

FOSTER: Do we have your permission to tape the interview?

MULL: Yes.

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FOSTER: Do you want a copy of the tape?

MULL: Yes.

<u>FOSTER</u>: Steve at this time could you provide us with a brief summary of your academic background and your employment history as it relates to the nuclear field?

MULL: I graduated from high school, Hershey High School 1972 I worked for a year and a half in Reese's Factory in Hershey. I then entered Harrisburg Area Community College. Graduated I think, in '75 with an Associates Degree in Police Administration. I transferred to York College of Pennsylvania-January '77. I had one semester to go. I got hired here. I've been taking courses on and off at York College since, to finish my Bachelors Degree, also in Police Administration. I have one credit now, or I have three credits to go, one course.

FOSTER: OK, thank you Steve. At this point I am going to turn the interview over to the IE personnel.

<u>HUNTER</u>: OK, Steve, Hunter speaking, and would like to pick up on the morning of 3/28. As I understand it you reported to work for the eleven to seven shift with Bill Zewe's crew.

MULL: Yes.

HUNTER: Is that correct? OK? Would you give us a brief run down of your activities prior to the unit trip and then at 0400 when the unit trip occurred, would you relate to us your activities starting at that point?

MULL: I was working a the industrial waste treatment plant, west of the turbine building and basic functions were, you know, running both sides. There's a filter side and a treatment side monitoring and you know, making sure every thing's running right.

MULL: And all the pumps are working right, you know, and the sumps are not too high. Just general jobs out there. 'Round four o'clock I was taking readings out in the plant and I heard the trip go off. I walked to the east side of the building, the industrial waste building, and it was just .. it was loud, you know, it's always loud .. and.. I figured it was just a normal run back or trip OK .. and.. I went back in, finished up the readings. About 4.30 Dale Laudermilch had called me and he had asked me to come on in to the turbine building because they were having a lot of work to do, you know, because of the trip. So, about 4:30 I'd say I started on the way in. I went to Gate 7, I had called Security to leave me in the gate and they came down, I didn't have an ID Badge. I had a Met Ed ID Badge but I didn't have a blue entrance card and they said I'd have to go up through Unit I so the guard drove me up there and I walked down through the Units and reported right to Unit 2 Control Room.

HUNTER: OK, Steve, Hunter speaking, go back, you're at the Unit 2 Control Room. We'll go back and look at a couple items. You said that the you heard the trip. Did you hear the trip being announced or did you hear the safety valve loud noise that you were speaking of?

MULL: Safety valves.

<u>HUNTER</u>: That's normal in the industrial area to hear the safety valves when a run back or trip occurs?

MULL: Yes.

HUNTER: OK, and you finished your readings and then you proceeded after

Dale Laudermilch called, you to then go into Jnit 2 control room, OK. When
you got to Unit 2 control room, who did you report to?

<u>MULL</u>: Well, I, they were pretty busy, I didn't really report to anybody. I stood right there and, you know, they all saw me and I figured that was the best place to be, you know, if they had any jobs they could dispatch me right from there.

HUNTER: OK. Steve and you said you stood. Where were you standing?

MULL: Right by the right desk, the CRO's desk.

HUNTER: OK, and what did you see when you went into the Control Room? Who was in the Control Room at that time?

MULL: Well, Craig Faust and Ed Fredericks and George Kunder.

HUNTER: Where was George located at that time?

MULL: Well, they were all up around the panel.

HUNTER: Up at the left side of the panel which would be the primary makeup by the panel or the right side of the panel like over by the auxiliary feedwater system that's standing facing.

MULL: I'm pretty sure they were, or George anyway was by the left side.

HUNTER: OK.

MULL: And, I think, Craig and Ed were on either side of the parel.

HUNTER: OK. The interviews have shown that Ed Fredericks was on the makeup panel, which would be the left. Craig was on the right hand side which would be the auxiliary feedwater side, and was Bill Zewe in there at that time? Do you recall?

MULL: I think he was, I'm pretty sure he was. I think Fred might have been there but I couldn't swear to that either.

HUNTER: OK, Bill and Fred may have been there but you're not absolutely sure.

MULL: Yes.

<u>HUNTER</u>: OK. Then you stood and watched the activity, OK? Was it loud or quiet in the Control Room at that time?

MULL: It wasn't loud.

HUNTER: Were the fellows talking to each other?

MULL: Yes.

HUNTER: Quite readily, handily, loudly or ...

MULL: They were discussing between each other different things that were going on, you know, at the time.

HUNTER: OK, Steve, what about Donnie Miller? Was, was in the people standing where you were, were there other people standing there any other AO's or any other operators?

MULL: No, I was the only one.

HUNTER: OK. As you watched, then, what was the first activity that was assigned to you?

MULL: UH.. Craig Faust, well now that I remember Craig was standing on that side, OK, and he had told me to go out and check to see if the turbine was running yet and I went out there and it was and I came back and a couple minutes later and asked me to go out and make sure it got on the turning gear. So, I went out there and its a normal function or an automatic function and it did. There was no problem there. I went back in and waited a couple more minutes and Bill Zewe asked me to go out and isolate the second stage reheat of the moisture separator reheaters.

HUNTER: OK.

MULL: And I went out there, that took a little while. I had trouble getting them off the seats and...

HUNTER: Allow me to inter, to break in a minute, Steve. Can you give me a feel for the time, any of the times that you, that, for instance the turbine went on turning gear automatically? Did Bill Zewe, you completed that and if that went on automatically you wouldn't have taken long to go up and make sure that it did.

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MULL: Well, it's I'd say, I got in the Control Room probably around a quarter of five and I'd say, maybe, by five-ten after, I had made sure the turbine was on the turning gear.

HUNTER: OK.

MULL: I couldn't swear to that, but...

HUNTER: Ok. That's alright. And then you went outside, and and that's not, that's not unlikely. It usually takes about an hour and fifteen minutes or an hour, and ten minutes for a turbine on vacuum to close down.

MULL: Well I really cause so many things were going on that it's hard to relate time to.

HUNTER: We are more interested in the activities than we are the actual time. But if you can remember that happened then that would help out. OK. You got the second stage reheat, you said, it took some time because the valves were hard to get off their backs.

MULL: Yeah. I had to get a pipe wrench.

HUNTER: And you completed that activity. Then did you com back to your next, did you come back to the Control Room?

MULL: Yeah.

HUNTER: OK.

MULL: And I think, as I was getting done with the isolation valves, Donnie Miller and Terry Dougherty were going over towards the Control Room and, I can't remember exactly where I met them, if it was in the Control Room or on the way, but they were going to the basement to do a job and I had followed them down to see if I could help them.

HUNTER: What job was that that you got involved in? Do you recall?

MULL: Well, they were doing something with the condensate pumps. I think I met them on the way. OK, and we went down and they were over by the condensate pumps and Bubba Marshall had asked me to isolate the discharge valves on the polisher panel. It's like a it's an air operated valve that you turn down, and I wasn't, really, watching what they were doing at that time, you know, all I can remember is, like one of the condensate lines right over head was, you know, it was shaking and there was, it was leaking pretty bad and, after I did that I went up stairs and sometime within the next couple minutes I had gone to the primary side with them I thought I could help them on a job over there, and they took care of that and ther that's, I had gone back up to the Control Room.

HUNTER: Steve, Hunter speaking, when you went down to check on the polisher valves what did you do? What did you do when you got to the valves?

MULL: I, it's the control is right on the panel OK, and he asked me to turn them down and that's what I did. I turned the valves, the nozzles down, it's a pressure indication, you know, and I turned them back to zero.

HUNTER: What would that do to the valves?

MULL: Shut the valves, or take some pressure off the valves.

HUNTER: Do you know if the valves were closed already at that time?

MULL: I think

HUNTER: The discharge valves?

MULL: Yes I'm pretty sure they were I'd say pretty positively they were all in the red.

HUNTER: They were all closed down?

MULL: Yes, or in the green, yes.

HUNTER: Hunter, speaking, Steve again. You indicate you went over on a primary jobs? Do you recall?

MULL: Well, you know, I was, I was in the area with them and as they were doing jobs I, you know, a lot like at that time, a lot of the valves are hard to close or open whatever they had to do, and I was like going to help you know, help them in whatever functions they were doing.

HUNTER: Do you recall what you were doing? As far as with them, or what they were doing? Did you operate any electrical breakers? Any values or anything?

MULL: No. Well, the thing is they were taking care of what they had to do. So, from the primary desk then they had gone, I think they went downstairs I was going, I was a little ways behind them because when I was shutting them down they got a little in front of me when they were going primary side and I thought they went downstairs and at that moment I had lost them OK. So, I went, I went back up to the Control Room at that point and I was, it was probably around seven o'clock by then.

HUNTER: OK. Did you stand around then, when you got to the Control Room that time did you notice that anything had changed? Seven o'clock.

MULL: A lot more people there.

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HUNTER: More people?

MULL: Relief crews were coming in.

HUNTER: What about the site emergency?

MULL: That's, that's about when that was called because I can remember when it was coming in there was somebody running around with a roster sheet, you know, and they were marking off people that were coming in and you had to make sure your name got on.

HUNTER: Did you, hear the site emergency declared?

MULL: I don't remember it being called.

HUNTER: If it had been declared a few minutes earlier, you would have been somewhere downstairs or in the auxiliary building?

MULL: Yeah. I was probably, I would have been maybe in the loud area because there were loud areas that I had been going through, you know, like the basement of the turbine building is pretty loud.

HUNTER: OK. You ended up in the Control Room then. Did you, were you assigned another activity then?

MULL: No. The relief crew had been in there, you know, or come in and they started giving them jobs, you know, because we were pretty deep by then.

HUNTER: OK, Steve. Looking back, your activity associated with the...
polishers was at the request of Bubba Marshall. You ran the air signal on
the discharge valves back to zero.

MULL: Yes.

HUNTER: What about as far as the condensate pumps? Were you involved in any preaker operations or the valve operations,...isolation of condensate booster pumps or any of that activity?

MULL: No.

HUNTER: There was a young lady turning the main feed pump on the jack, manually turning it. Were you involved in that area at all?

MULL: No.

HUNTER: OK. Any trips to any local motor control centers in the auxiliary building to open or close breakers, remove locks, or operate any breakers in the auxiliary building?

MULL: All I did in the aux building was try and catch up to them and by the time they turned the corner I had lost sight of them so I figured I'd go back up to the Control Room then

HUNTER: OK. And the relief crew came in and then what did you do?

MULL: Hot stand by.

HUNTER: Is that right? Did you stand around just waiting for jobs?

MULL: Yes.

HUNTER: No jobs? Were any other jobs assigned?

MULL: Well, they were but the fresh crews...there were three crews on then.

HUNTER: How long did you stay that day?

MULL: I think ten thirty. I'm not positive.

HUNTER: Your path then from, on the way out. Did you go via Unit 1 to the Observation Center?

MULL: Well, you know, we went through the whole way?

HUNTER: Alright.

MULL: Out through Unit 2 and out to our cars.

HUNTER: Were you contaminated?

MULL: No.

HUNTER: Was your car checked?

MULL: That's OK I got it. I went, I had gone...

HUNTER: Was your car...did they check your car?

MULL: Yes. We went through Unit 2 and my car was still parked down by the industrial waste cause I had reported there for work and I think Dale Laudermilch took me back down to my car. It was either Dale or Terry. And I got my car and we went out to the North Gate and they instructed us to go to the 500 KV station.

HUNTER: They checked your car. And did they check you there?

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MULL: Yes.

HUNTER: OK. And after that time now, when did you go home?

MULL: Yeah, well we knew that we'd be coming in at eleven that night and I needed some rest. So, I went home right from there.

HUNTER: About noon, or a little before noon maybe?

MULL: Yeah, somewhere around there.

HUNTER: OK. Tony, any questions?

FASANO: Yeah, I have just a couple. You mentioned that you heard the safety valves go which is normal. Was there any thing different about the safety valves this time?

MULL: Seemed normal to me.

FASANO: Have you ever heard them go off before?

MULL: Yes.

FASANO: You mentioned also when you were going down to the polishers that you saw a shaking pipe and leaks.

MULL: Yes.

<u>FASANO</u>: Was this with relationship to the booster pump in that area or the condensate pump?

MULL: Yes.

FASANO: Which?

MULL: The booster pump.

FASANO: Do you know which booster pump?

MULL: "C".

FASANO: Was it running?

MULL: I couldn't say. I don't...

FASANO: How'd it sound down there?

MULL: Everything was loud, you know, it was pretty loud but to say that the C was running, I don't think I could do that.

FASANO: Were the booster pumps running? There's three in a row down there.

MULL: I think they were but I'm not, you know, I can't say they were.

RUNTER: When you went to the Control Room, have you been on a trip before?

A unit trip and made it to the Control Room after the trip?

MULL: Yes.

HUNTER: OK. Did this trip look any different to you than any other trip?

Was there any thing that struck your eye, forty-five minutes, thirty minutes into this trip?

MULL: Yes.

HUNTER: What was different?

MULL: George Kunder was there.

HUNTER: Is that only the difference? Would that, normally he wouldn't be there?

MULL: Well I don't know, normally, he wouldn't be there but, you know, we've had trips before and I guess it never struck my eye that he wasn't there but just this one time it.. I think then it's when I realized, you

know, it was really pretty serious or maybe a little before that when we were really humping.

HUNTER: OK, Steve, thank you.

FOSTER: Thank you very much, Steve. Correction this interview was begun at 1:03 PM and it was concluded at 1:25 PM.

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