

ORIGINAL

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OFFICIAL TRANSCRIPT OF PROCEEDINGS

Agency: Nuclear Regulatory Commission  
Incident Investigation Team

Title: Nine Mile Point Nuclear Power Plant  
Interview of: DAVE WILSON

Docket No.

LOCATION: Scriba, New York

DATE: Friday, August 23, 1991

PAGES: 1 - 35

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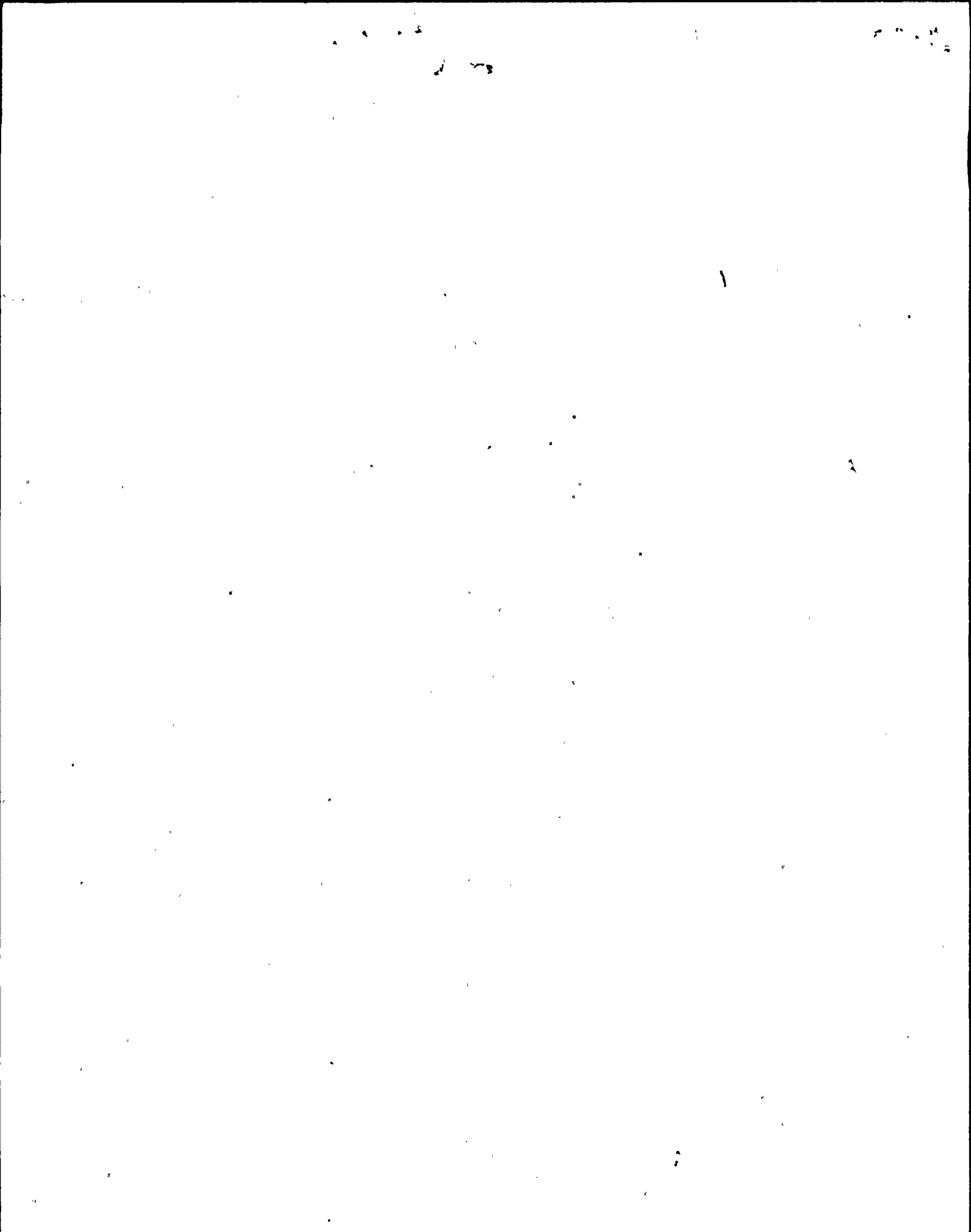
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ADDENDUM TO INTERVIEW OF DAVID E WILSON / ASSOC. PR GEN. EDGAR  
(Name/Position)

Page	Line	Correction and Reason for Correction
8	18-24	MIKE ERD WAS NOT DISTRACTED DURING THE EVENT BUT DURING MY CONVERSATION @ THIS TIME. SO THE CONVERSATION WAS LEFT UNFINISHED. WHICH LED TO MY CONFUSION AS TO THE SEQUENCE OF EVENTS.
9	16	No Coma AFTER VOLUME 1
14	10	AFTER FIVE: ADD "COLOR RECORDING"
25	14	ADD AFTER "WHAT YOU SAW" -> "WHAT YOU DID"

Page 1 of 1 (Signature [Handwritten Signature] Date 8/26/91)



UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION  
INCIDENT INVESTIGATION TEAM

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Interview of :  
DAVE WILSON :  
(Closed) :  
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Conference Room B  
Administration Building  
Nine Mile Point Nuclear  
Power Plant, Unit Two  
Lake Road  
Scriba, New York 13093  
Friday, August 23, 1991

The interview commenced, pursuant to notice,  
at 7:20 a.m.

PRESENT FOR THE IIT:  
Michael Jordan, NRC  
John Kauffman, NRC

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## P R O C E E D I N G S

[7:20 a.m.]

1  
2  
3 MR. JORDAN: Okay. It's August the 23rd, 1991 at  
4 about 7:20 in the a.m. We are at the Nine Mile Point, Unit  
5 Two in the P Building. We're conducting interviews  
6 concerning a transient that occurred on August the 13th,  
7 1991.

8 My name is Michael Jordan. I am with the U.S. NRC  
9 out of Region III.

10 MR. KAUFFMAN: John Kauffman out of NRC  
11 Headquarters.

12 MR. WILSON: Dave Wilson, SRO, Nine Mile Point,  
13 Unit Two.

14 MR. JORDAN: Okay, Dave, first off give us a  
15 background of what you're background experience is.

16 MR. WILSON: Okay. I got a degree in -- Bachelor  
17 of Science in Civil Engineering from the University of Rhode  
18 Island. I worked five years of construction at -- for  
19 Pullman Power Products, working on various different aspects  
20 of construction. I worked on piping and mechanical  
21 construction at Seabrook and Palo -- which one is the one in  
22 Arizona -- different power plants.

23 MR. KAUFFMAN: Palo Verde.

24 MR. WILSON: Palo Verde, yes.

25 And came here from Seabrook and worked for ITT





1 Grinnell and -- as a senior piping engineer in the reactor  
2 building. Started with Niagara Mohawk in '82 as a test  
3 engineer and took a job in the operations department as an  
4 assistant SSS. Go my reactor operator's license -- senior  
5 reactor operator's license in the summer of '85 and was  
6 promoted to station shift supervisor in January of '88.

7 I currently work for the -- work in the  
8 operation's support department maintaining a SRO license --  
9 current SRO license.

10 MR. JORDAN: So, you are currently an SSS or are  
11 you not an SSS?

12 MR. WILSON: I am currently not an SSS. I was an  
13 SSS through January of this year when I took a job as a --  
14 my current job title is associate senior generation  
15 engineer.

16 MR. JORDAN: What kind of work -- what kind of  
17 responsibility do you have?

18 MR. WILSON: Anything and everything. I'll do --  
19 my primary job is training coordinator which is a liaison  
20 between operations and the training department. However, in  
21 the role of the -- in my job in the operations support  
22 department I can do root cause analysis, answer DER's, write  
23 LER's, I coordinate training for the guys on shift. What  
24 the heck else do we do? Anything that's required that -- to  
25 support the operations; procedure reviews, we do a lot of



1 procedure reviews. We're involved in a procedure rewrite  
2 program.

3 MR. JORDAN: What -- were you on nights at the  
4 time of the event, days?

5 MR. WILSON: No. I was -- actually I was going to  
6 the training center to review exam bank questions.

7 MR. JORDAN: Why don't you just walk us through  
8 when -- what happened as you came into the plant?

9 MR. WILSON: Basically I came over the hill on the  
10 way to work, realized that the plant had scrambled.

11 MR. JORDAN: How did you determine that?

12 MR. WILSON: By the absence of steam from the  
13 cooling tower. It was not the full power billowing smoke --  
14 more of a wisp.

15 MR. JORDAN: And what time was this?

16 MR. WILSON: Seven, 7:05. Approximately 7:00.

17 MR. JORDAN: Okay.

18 MR. WILSON: Realized that there was probably  
19 enough people at the plant to handle a plant shutdown from a  
20 normal scram, but when I came around the corner the -- saw  
21 that the security department had set up road blocks and some  
22 people were going in and some people weren't. I was about  
23 eight, ten cars back. Realized that he was asking for green  
24 cards. At that point I got my emergency -- the green card  
25 is the emergency -- I don't know what it is -- emergency



1 access card. And got that out and he let me go through. I  
2 went directly to the parking lot to the site. There were a  
3 lot of people standing outside. I got out and just as I was  
4 going in they were asking -- a lot of people said they  
5 weren't letting anybody in, but at that time a call came out  
6 from the security department that they wanted I&C, rad  
7 protection and operations personnel.

8 MR. JORDAN: Any way you can tell what time this  
9 was?

10 MR. WILSON: I would like to say approximately 7  
11 o'clock -- 7:05, whatever time I badged in. I normally get  
12 to -- I get here at 7 o'clock, so I would say --

13 MR. JORDAN: Okay.

14 MR. WILSON: Being in the operations department,  
15 being an SSS, maintaining a license, you know, my place was  
16 in the control room. So, I came on site and went directly  
17 to the control room.

18 MR. JORDAN: Any problem with lighting between the  
19 access to the site?

20 MR. WILSON: None were observed.

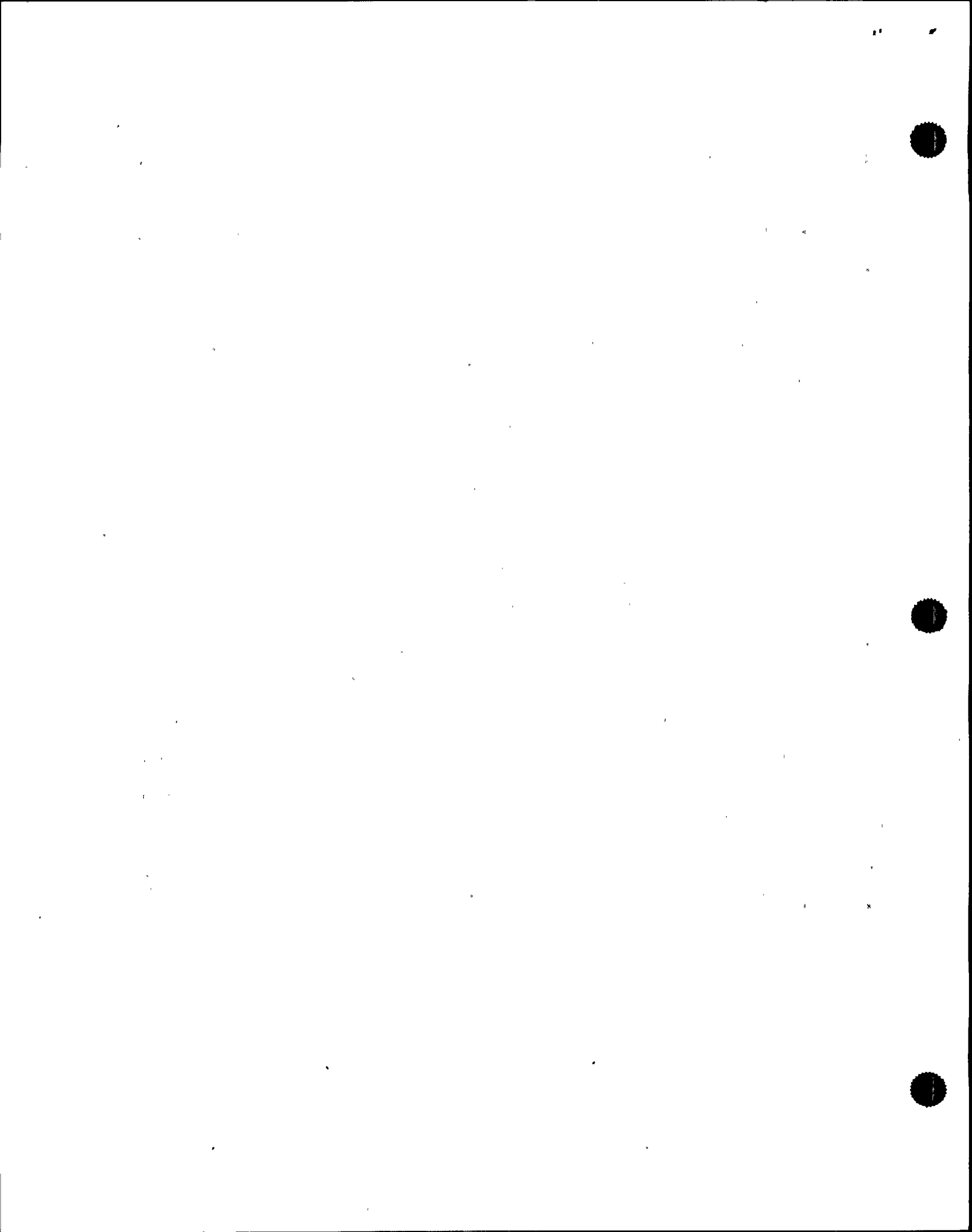
21 MR. JORDAN: And to the control room?

22 MR. WILSON: None observed.

23 MR. JORDAN: Okay. Go ahead.

24 MR. WILSON: I came to the control room.

25 Basically I got -- you know, I asked for a brief from -- I



1 think it might have been like Eric Townsend who was in the  
2 SSS's office. You know, I saw the operators on station at  
3 various panels. I saw Mike Conway on the boards -- on the  
4 emergency operating boards, was not sure what he was doing  
5 out there. Did not want to go into the controls area at  
6 that time. There was more than enough people in there to do  
7 what they needed to do. Got a brief from -- like I said, I  
8 got a brief from Eric, I think, and discussed what was going  
9 on in the site area emergency and, you know, looking from  
10 the back panels everything looked pretty good.

11 I would like to say, you know -- I don't remember  
12 exactly what pressure was, but pressure was stable. I asked  
13 Mike Eron, I think about that time, I think it was Mike, if  
14 I could go out and walk the panels and see what was going on  
15 -- see if I could see anything. And they allowed me to do  
16 that. And basically just told Mike, you know, that I was  
17 there to help him in whatever manner I could.

18 MR. JORDAN: Did he assign you any responsibility  
19 or tasks?

20 MR. WILSON: At that time, no. I got into --  
21 shortly thereafter, oh, maybe 8:30 after things -- I would  
22 guesstimate 8:30. We started looking at where we were in  
23 tech specs. I know that they had thought about where they  
24 were in tech specs.

25 We looked at the standby gas, the drywell cooling





1 isolation valves, RPS, jumpers, basically went through the  
2 tech specs to see if we had met or could see any problem  
3 with them -- where we were in tech specs. Where the plant  
4 was and what tech specs we needed to meet tech spec actions,  
5 answering the phone a lot, talking to communication -- a lot  
6 of communication comes into the SSS's office on the various  
7 different phone lines.

8 MR. JORDAN: They were all functioning?

9 MR. WILSON: Yes. As far as I could tell they  
10 were.

11 MR. JORDAN: No problems with communications that  
12 you could see at this time?

13 MR. WILSON: No problems with communications.  
14 Well, you know, when I got there, it must have been, like I  
15 said, maybe ten minutes after seven a quarter after seven,  
16 something like that. The plant was in a stable condition or  
17 appeared to be a stable condition.

18 As I was walking the board they were -- I want to  
19 say they were shutting down RCIC. I wasn't sure what was  
20 going on with the different feed systems, but it looked like  
21 they had gotten condensate -- they had the booster pumps  
22 ready. I wanted to say that pressure was around 500 pounds  
23 at that time. I think that they had gotten condensate  
24 booster pumps running and they were just manipulating RCIC -  
25 - shutting RCIC down or putting it in on a tank-to-tank



1 evolution to aid in the control of pressure.

2 We talked about -- later on, you know, as things  
3 were happening we -- I asked Mike, you know, trying not to  
4 interfere with the operation of the plant, you know. My  
5 license became inactive in this last quarter. This is the  
6 first time since I've had a license that it's been inactive.  
7 And so I wasn't -- I didn't have an active license. I  
8 couldn't go out there. I couldn't provide the direction to  
9 the operators although they've all worked for me at one time  
10 or another.

11 I asked -- so I was talking to Mike Eron about how  
12 it happened and got a flavor for what had happened;  
13 understood that the UPS's had all failed, they had heard a  
14 bang, went out to the panels. The annunciators were off  
15 with the exception of, I think he said there was -- on 601  
16 there was three or four annunciators, I think he said, that  
17 were still on.

18 And we talked about putting the mode switch in  
19 shutdown and then he went back and -- that he had  
20 recommended putting the mode switch in shutdown and then he  
21 was distracted and maybe went back to work. And thinking  
22 about that, at that point it didn't seem like the turbine  
23 had tripped, that they had manually scrammed the reactor.

24 At this point I didn't have a good feel as to what  
25 had happened out in the yard and such and so I got a little



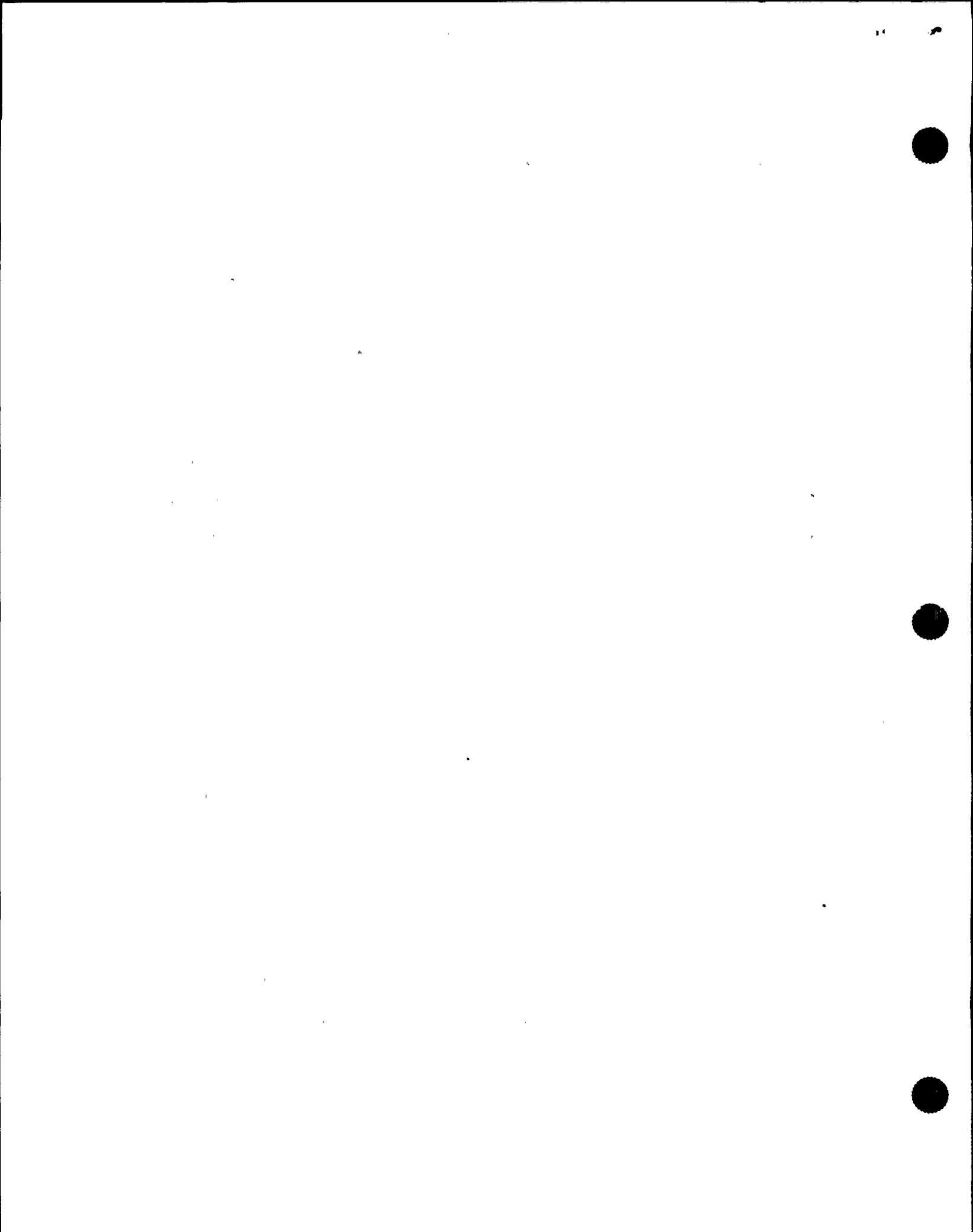
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1 sidelined and focused that they had put the mode switch in  
2 shutdown so I was a little confused as to what had happened.  
3 So there was some discussion between some of the people in  
4 the SSS's office and went back and clarified it and he --  
5 Mike said that before putting the mode switch in shutdown he  
6 had seen the reactor scram lights were out. Asked him about  
7 the -- whether the turbine had tripped at that point and I  
8 don't -- he said, I believe -- I believe he said that he had  
9 lost indication over there and wasn't sure -- didn't know  
10 whether the turbine had tripped. He was more concerned with  
11 the reactor. He knew that the reactor had scrambled and  
12 needed to place the mode switch in shutdown and was  
13 concerned about the power -- his power level, the APRM  
14 recorders had failed as is at 100 percent power.

15 He said he went around to the back and checked the  
16 shutdown scram discharge volume, trip units on the back  
17 panel, 609 and 611. They indicated full water so that he  
18 was sure that they had got rod motion in that -- he used  
19 that as one of his things for saying that he got rods to  
20 move. Checked the down-scale alarms -- down-scale lights on  
21 the APRM's on the back panels.

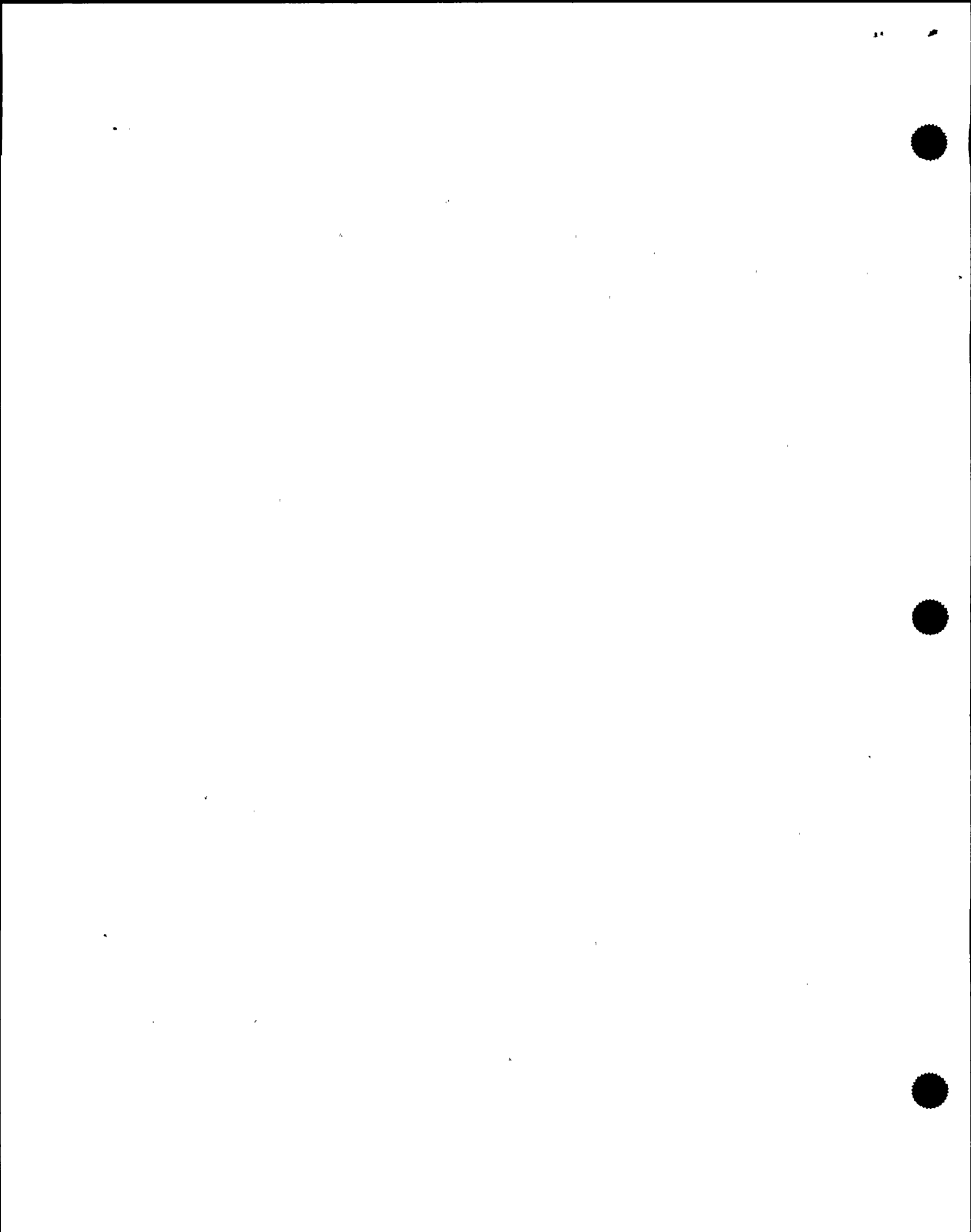
22 Thinking through the even and what happened after  
23 -- trying to piece it together, realizing that we got a --  
24 probably got a turbine trip we sent -- had some guys run  
25 downstairs and look to see some of the relays -- Eric and I



1 were talking and the guys went downstairs to check some of  
2 the 86's, the protective relays on the generators and the  
3 report that came back was they had all tripped. Not that  
4 they had all tripped, but that there was -- the ones that  
5 had tripped -- I don't remember which ones they were -- I  
6 don't remember that they ever got written down -- which led  
7 us to believe that the turbine had tripped and that it all  
8 made sense. That the generator had blown -- or the  
9 transformer had blown, the turbine had tripped and the  
10 reactor had scrammed and that's what they saw and it was all  
11 in one fell swoop there. So we -- at that point I  
12 definitely believed that everything had happened correctly.

13 We talked about tailpipe temperatures about that  
14 time, or I mean SRV's lifting and asked if an SRV lifted and  
15 the answer was, no, I don't believe so. And the STA came  
16 back shortly thereafter and said that we had a rise in the -  
17 - in some of the tailpipe temperatures. So we went back --  
18 Tom Tuttle and myself and Mike Eron went back to the  
19 recorder for the tailpipe temperatures and determined that  
20 two SRV temperatures -- I think points eight and nine,  
21 valves 128 and 135, maybe -- anyway, we determined that  
22 points eight and nine had gone from about -- I want to say  
23 150 or 200 degrees up to 300 degrees plus at the time of the  
24 transient and then you could see it start to cool down.

25 MR. JORDAN: This is on the strip chart recorder?





1 MR. WILSON: Yeah. The tailpipe temperature  
2 recorder of -- I don't know what --

3 MR. JORDAN: Oh. It's a temperature recorder?

4 MR. WILSON: Yeah.

5 MR. JORDAN: A dot printout, is that what it is?

6 MR. WILSON: Yeah. It's a --

7 MR. JORDAN: It's not a continuous line?

8 MR. WILSON: It's a rotating cam. It's a rotating  
9 cam and, you know, the thing slides up and down and then it  
10 rotates and it's a four or five -- it's like the turbine  
11 vibration recorders. You know, they rotate and they print a  
12 number and that tells you which point -- which it is.

13 MR. JORDAN: How many of those did you see were  
14 trending up and down?

15 MR. WILSON: Well, we have several leakers, okay.

16 MR. JORDAN: Do you have any idea how many  
17 leakers?

18 MR. WILSON: Three or four. Four. It looked like  
19 there was four or five of them I guess.

20 MR. JORDAN: Four or five leakers and then --

21 MR. WILSON: Yeah, you know, and they were -- most  
22 of the temperatures is down around 150 degrees. And that's  
23 where -- and they all print on top of each other so you  
24 can't tell what number it is and then there are several  
25 elevated temperatures, okay, and that is due to some steam

A B



1 leaking through the seat. It basically increases the  
2 temperature. The highest temperature there is about 300  
3 degrees and that was on point 12. And then on a scram you  
4 can watch the temperatures as soon as the -- as soon as we  
5 start depressurizing we can watch the temperatures go right  
6 down. When we went back and looked at it, you could see  
7 where points eight and nine had been down in the 150 degree  
8 range and then were suddenly up in the 300 degree range,  
9 right on top of the leaker. You had to look at it to see it  
10 because the points -- the numbers eight and nine -- you had  
11 to wait for it to come around to verify that it was eight  
12 and nine, it was not clearly legible that they were points  
13 eight and nine. But transferring that to the valve number  
14 and transferring that back to the set points and the  
15 pressure relief function, those are the two lowest set  
16 points and they were --

17 MR. JORDAN: Do you know what valves those were?

18 MR. WILSON: I believe they are 128 and 135.

19 MR. JORDAN: Okay.

20 MR. WILSON: At that point we believed, based on  
21 that, that we probably had two relief valves that lifted and  
22 Mike Eron went and got the procedure to cycle the drywell  
23 vacuum breakers as required by tech spec to initiate that.

24 MR. JORDAN: What time is this?

25 MR. WILSON: Ten o'clock.



1 MR. JORDAN: About 10 o'clock?

2 MR. WILSON: I went to try to figure out if we had  
3 any kind of pressure indication and rolled back the PAM  
4 recorders to see where the pressure was and the pressure  
5 indicated as well as you can tell on a narrow range at  
6 approximately 1,070, that's about as close as I can say,  
7 that's about 1,070. And it peaked and went right back and  
8 based on 130 day run I would have expected the relief valves  
9 to lift.

10 MR. JORDAN: Is that what the run is? Is that how  
11 long you run them? You don't know.

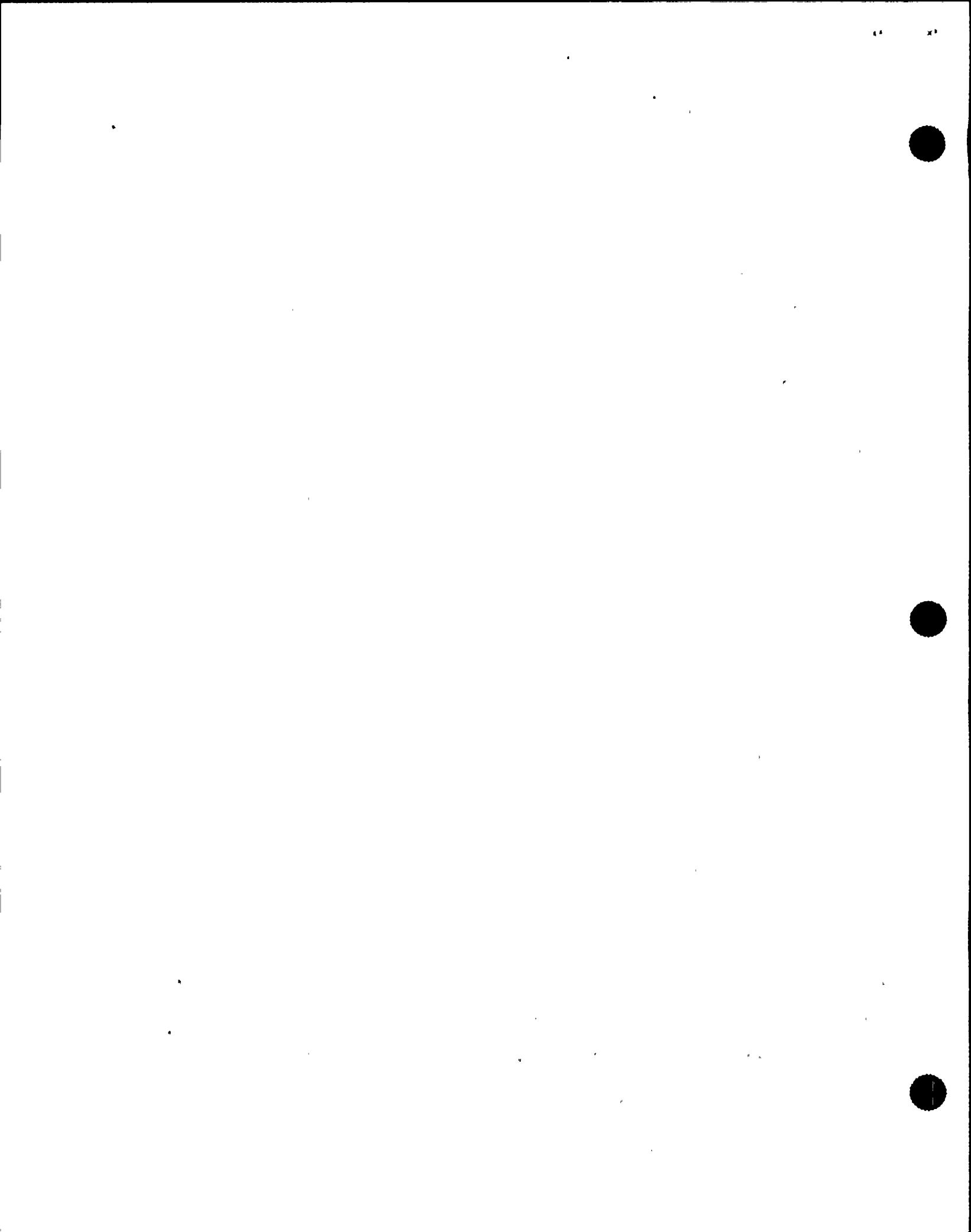
12 MR. WILSON: I think our record run is 135 and we  
13 were within a week. I want to say about 130 days.

14 MR. JORDAN: Okay.

15 MR. WILSON: You know, made sure that we had had  
16 an ARI, we had had our RCS initiation on 1,050 pounds, so we  
17 knew right off that we had at least 1,050 pounds that we  
18 didn't -- performed that surveillance.

19 MR. JORDAN: Did that one come out okay? No  
20 problem with surveillance?

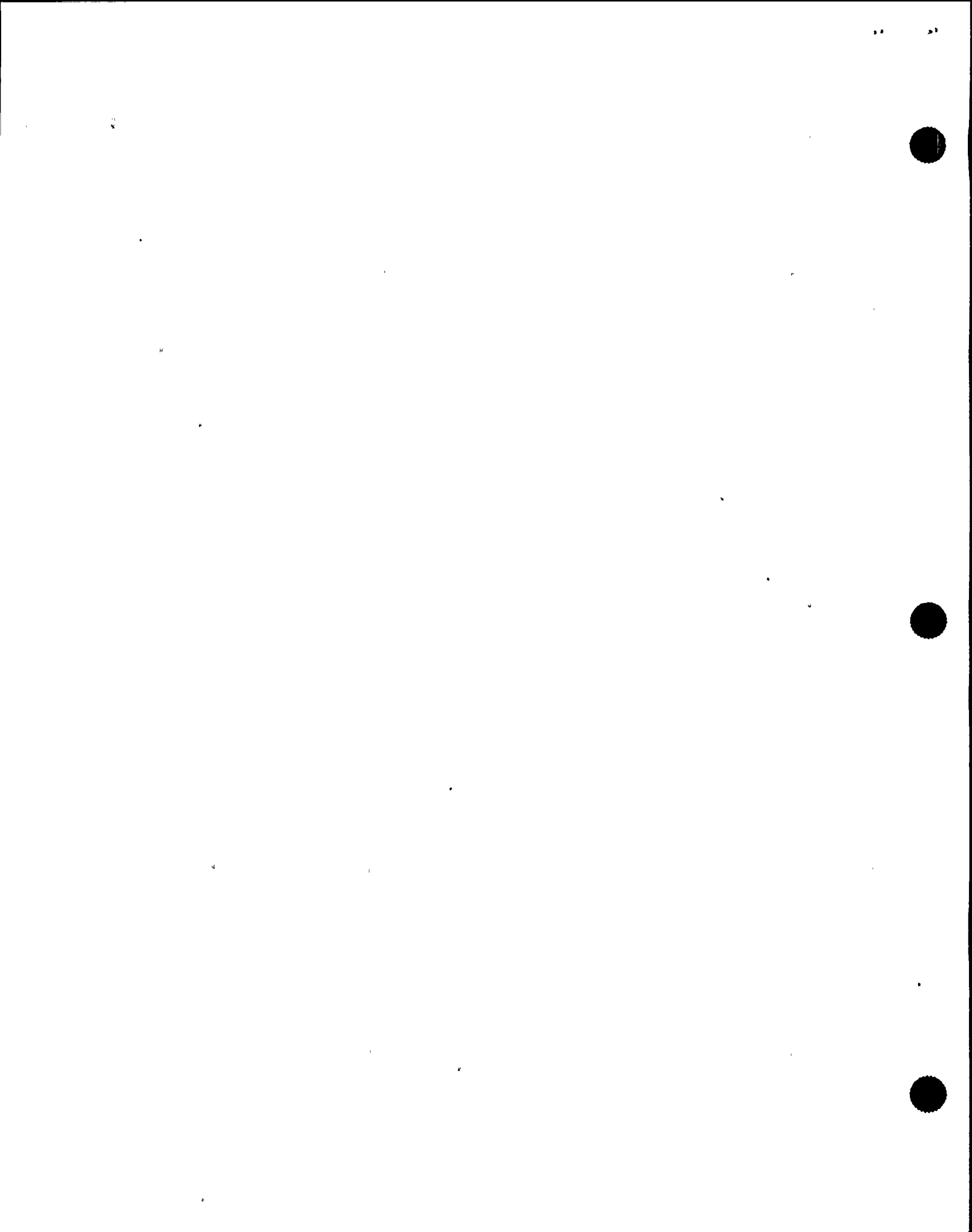
21 MR. WILSON: Yes. It was a tech spec violation.  
22 That's the point of how we were supposed to have performed  
23 that surveillance within two hours after the relief of the -  
24 - after the lifting of the relief valve. But we didn't  
25 realize we had SRV's lift, because the two indications that



1 we have -- you know, we have the acoustic monitor  
2 indications which provides the red and green indication  
3 right on the panel. And we wouldn't get an annunciator in  
4 that would say that it would lift the computer points, but  
5 the computer went away and you didn't have the annunciator  
6 and I expect that the relief valve lifted for a second,  
7 maybe and that's why it didn't get seen. So we did the  
8 surveillance and wrote it up as a tech spec violation.

9 MR. JORDAN: Any other tech spec violations that  
10 you knew of in your -- you review the tech spec, you're  
11 saying with the --

12 MR. WILSON: I reviewed the tech specs. The only  
13 other thing that I saw that could have -- that could be a  
14 problem was we installed the RPS jumpers which bypasses the  
15 -- oh, the automatic functions, it only leaves the manual  
16 function of RPS. In doing that the question that I raised  
17 was -- at that point is all of the automatic functions of  
18 RPS, are they all inoperable, and then there are several  
19 actions that you have to take within -- with those things  
20 being inoperable like with APRM's inoperable, you've got to  
21 verify all the rods are inserted. And the mode switch  
22 locked and shut down, within an hour. I think that's on the  
23 APRM's. That was done. We went out and the mode switch was  
24 locked and shutdown. The rods had been inserted, it had  
25 been verified and that was documented in Mike's log.





1           However, the jumper was in for longer than an hour  
2 and you reset the scram, okay; tech spec action B says if  
3 you got both trip systems inop within one hour you have to  
4 place a half on one of the trip systems, which we didn't do.  
5 So that I brought that point up to Jerry Helker and whether  
6 or not we violated tech specs -- because we were directed by  
7 the EOP's to put the jumpers in and then thereby are we --  
8 do we have to take the tech spec actions when we're directed  
9 to defeat tech spec required things in the EOP's. If we do  
10 have to take those actions, we didn't do it all and he's  
11 aware of that.

12           MR. JORDAN: So you're saying that the tech specs  
13 require -- what, a half -- you said a half?

14           MR. WILSON: Yeah. Half scram.

15           MR. JORDAN: Half scram?

16           MR. WILSON: Yeah.

17           MR. JORDAN: On one of the channels?

18           MR. WILSON: If you've got both channels inop --

19           MR. JORDAN: If both channels inop --

20           MR. WILSON: If you've got less than the required  
21 number of -- per the table --

22           MR. JORDAN: Okay.

23           MR. WILSON: -- then you got to have -- you've got  
24 to take the action per the table -- per the action  
25 statements which I think is -- verify all the insertable



1 control rods inserted and the mode switch locked in  
2 shutdown. And within an hour put one of the trip systems in  
3 the trip condition so it won't cause the trip to occur.

4 MR. JORDAN: And the reason why the jumpers were  
5 installed was because --

6 MR. WILSON: They were in EOP-RQ trying to -- they  
7 didn't know where all the rods were so they were -- put the  
8 RPS jumpers in to reset the scram so that they could insert  
9 another scram.

10 MR. JORDAN: In accordance with the EOP's?

11 MR. WILSON: In accordance with the EOP's.

12 MR. JORDAN: So they had an authorized procedure  
13 for them to install the jumpers in the condition that they  
14 were in?

15 MR. WILSON: Absolutely.

16 MR. JORDAN: The only question is that once you  
17 did the action associated with that, should there also be  
18 additional action on --

19 MR. WILSON: In accordance with the tech specs.

20 MR. JORDAN: To put in the half scram. Do you  
21 have any idea how long the bypasses were -- the bypass  
22 jumper was installed?

23 MR. WILSON: About an hour and a half is my  
24 recollection -- about an hour and a half.

25 MR. JORDAN: Any other tech spec --



1 MR. WILSON: No other tech spec issues.

2 MR. JORDAN: Okay. To continue on you were at the  
3 -- you said you were involved with the SRV's -- you showed -  
4 - you told Mike about the RPS bypass jumpers --

5 MR. WILSON: Yeah, I told Jerry about --

6 MR. JORDAN: I'm sorry, Jerry -- about the bypass  
7 jumpers.

8 MR. WILSON: At that time they were taking the  
9 jumpers out, so it didn't become --

10 MR. JORDAN: It was around 10 o'clock in the  
11 morning. Is this around ten also?

12 MR. WILSON: That? No. That was back at 8:30-  
13 ish.

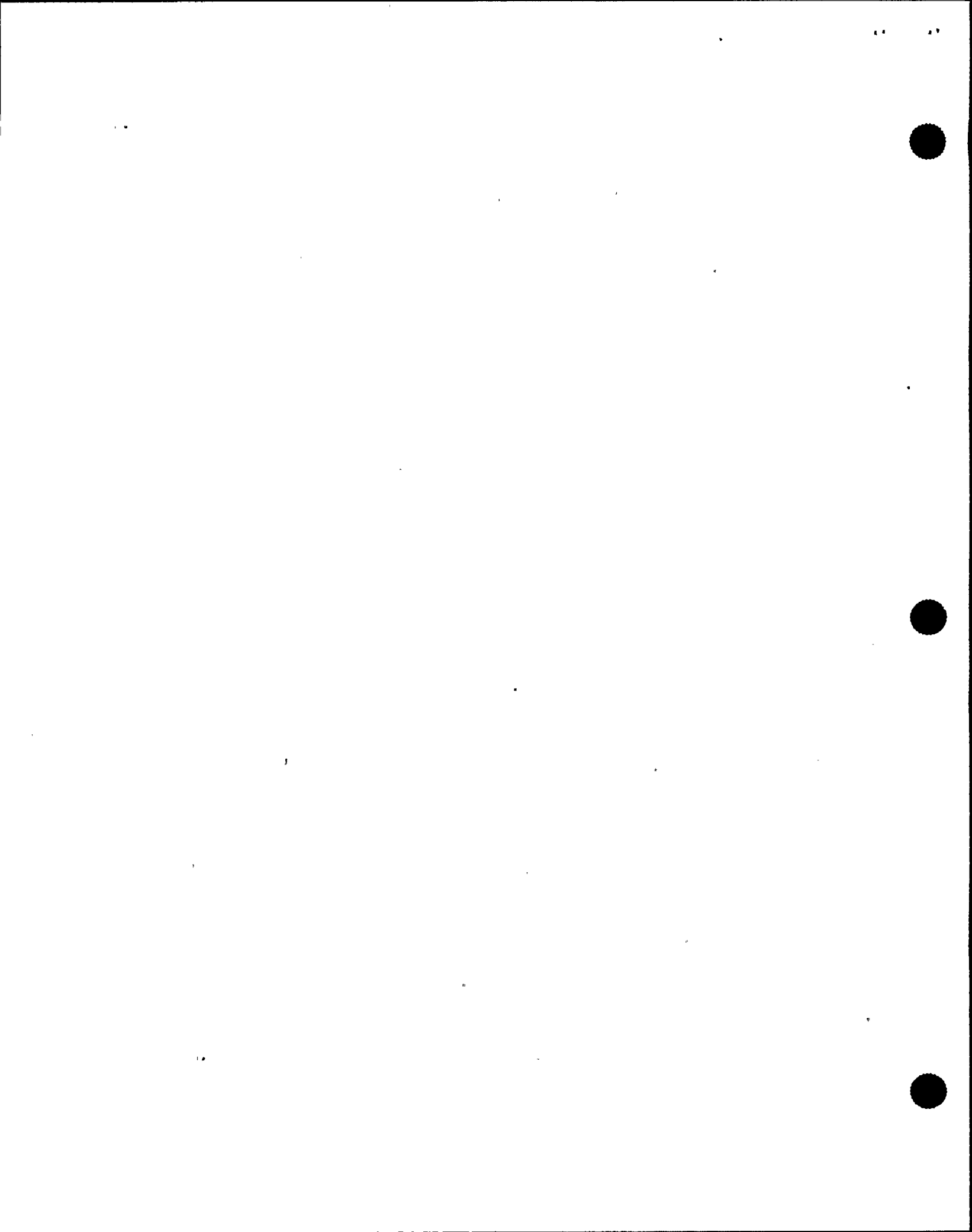
14 MR. JORDAN: Okay.

15 MR. WILSON: I would guess.

16 MR. JORDAN: Okay. Any other events of the day  
17 that you got involved with?

18 MR. WILSON: No. Basically from there it was  
19 making sure that operators were going to come in. You know,  
20 I called operators at home -- the next shift to make sure  
21 that they all had their access cards so that they could get  
22 on site; provided -- you know, interface to get them so that  
23 they could get access to the site so that they could come to  
24 work. It doesn't seem like a long day.

25 MR. JORDAN: Okay. And what time did you get



1 relieved?

2 MR. WILSON: I went home around six, 6:30.

3 MR. JORDAN: In the evening?

4 MR. WILSON: Yeah.

5 MR. JORDAN: You said you got permission from the  
6 SSS to walk down the panels?

7 MR. WILSON: Yeah, I believe so.

8 MR. JORDAN: Okay. When you walked down the  
9 panels did you notice anything abnormal? Abnormal  
10 conditions, things that --

11 MR. WILSON: The only thing that I saw that was  
12 abnormal was the division two hydrogen oxygen analyzer fan  
13 was off.

14 MR. JORDAN: Do you know what they did because of  
15 that?

16 MR. WILSON: I went back and told the SSS and he  
17 had one of the operators restart it.

18 MR. JORDAN: Did they have any problem with  
19 restarting it?

20 MR. WILSON: Not that I know of.

21 MR. JORDAN: Do you have any idea why it was off?  
22 What trips that fan?

23 MR. WILSON: I don't know why it was off. The  
24 other side was on.

25 MR. JORDAN: Okay. You asked if you knew that the





1 turbine had tripped? What indications would you use to  
2 identify that the turbine was tripped? Is there an  
3 annunciator, turbine trip annunciator or is there a turning  
4 gear or is there --

5 MR. WILSON: The big quick one that you always  
6 look for is the turbine trip annunciator in the upper right  
7 hand corner of the first -- is it the first or second --  
8 annunciator window on panel 851.

9 MR. JORDAN: And that --

10 MR. WILSON: Well, that's where I would look. I  
11 wasn't there at the time, you know --

12 MR. JORDAN: Okay.

13 MR. WILSON: -- so, you know --

14 MR. JORDAN: That's what you normally use?

15 MR. WILSON: That's -- you know, that's the quick  
16 and easy one that you can see from a long ways away --  
17 otherwise, you know, you go over and you look at valve  
18 positions on the little meters over there; you know, you're  
19 looking at the turbine speed coasting down, you're looking  
20 at all the indications that you got over there for turbine  
21 trip.

22 MR. JORDAN: And none of that was available as far  
23 as you know?

24 MR. WILSON: I don't know. He didn't get into --  
25 I didn't get into real specifics as to what was available



1 and what was not available. I didn't want -- you know, it  
2 was not -- I didn't think it was appropriate for me to be  
3 grilling these guys as to what did they see, because I  
4 realized that everything was going to come out in the end.  
5 I'm still not sure what was available and what was not  
6 available.

7 MR. JORDAN: Any questions?

8 MR. KAUFFMAN: Yeah, I do. They're not really  
9 related to the event. You mentioned you're the training  
10 coordinator and you're also involved in procedure reviews?

11 MR. WILSON: I haven't done a lot of procedure  
12 reviews in the last month. But, yes.

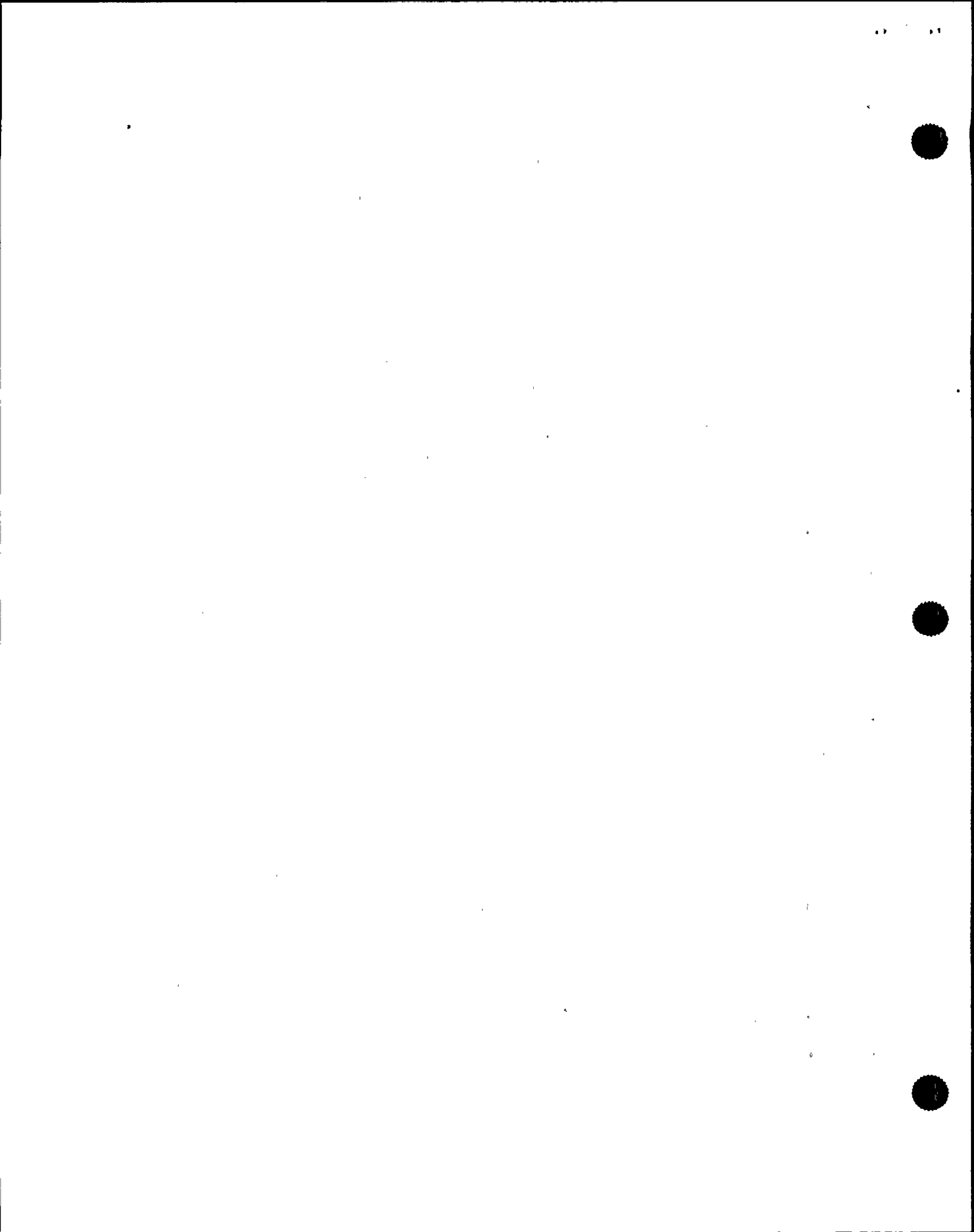
13 MR. KAUFFMAN: I'd just like you to explain how  
14 those processes work and what your involvement is? I guess  
15 we can start with training coordinator.

16 MR. WILSON: The training coordinator job is a  
17 liaison between the training department and the operations  
18 department. I was chairman of the OTPAC committee which is  
19 the operations training program and advisory committee for a  
20 little bit over a year, when I was an on-shift SSS. When I  
21 came off-shift, I relinquished that position to another on-  
22 shift SSS; took the training coordinator position, or was  
23 assigned the training coordinator position. I was actually  
24 -- while I was a relief SSS I was doing the training  
25 coordinator position also.



1            Basically that entails working with the training  
2 department people reviewing lesson plans, providing  
3 interface from the operators. If they require or feel the  
4 need for additional training in any kind of areas, I help  
5 develop those kind of things. I don't develop the lesson  
6 plans, but, you know, like we might talk about optical  
7 isolators. Optical isolators to us are kind of -- to me are  
8 kind of magic, okay. And we have some guys I&C techs that  
9 are good at these things and we got -- I helped arrange  
10 getting these I&C techs to come over with a couple of --  
11 with a scope and a couple of optical isolators cards, analog  
12 digital cards and took them apart and showed the operators -  
13 - you know, I mean, like operators like to touch and play  
14 and feel and see what's going on here, you know. And you  
15 can't do that with these optical isolators in there, you  
16 know. So we had them in our hands and we could see what  
17 they were and how they worked and what was breaking with  
18 them and things like that.

19            I do a lot of scheduling for the operators. If  
20 they miss training we require operators to go to training  
21 with their training shifts -- well with their shifts during  
22 their training week. However, people have babies, get sick,  
23 so forth and so on and miss training. I make the necessary  
24 arrangements to get those people back over there to make up  
25 the training.



1           I do performance reviews with the -- in the  
2 simulator -- looking at the -- in the simulator. I'm  
3 chairman of the simulator configuration control board which  
4 evaluates changes to the simulator, modifications, upgrades  
5 for software. What else do we do over there? I don't know,  
6 a lot of different things. Work with -- when training has  
7 proposals as to how to upgrade the program, they'll talk  
8 through me to operations management. You know, it's very  
9 difficult to contact Mike or Jerry over here between the  
10 meetings and where they go between the control room and the  
11 -- and the SORC meetings or whatever, you know -- the  
12 planning -- daily planning meetings and such. I have a desk  
13 over here, I have a desk over there; I spend some of my time  
14 over there. I spend some of my time over here. So I can  
15 track them down and provide that interface between the  
16 groups and it's worked out pretty well. The training  
17 program is -- you know -- we --

18           MR. KAUFFMAN: It's had some problems, right?

19           MR. WILSON: We've had some problems. Okay.  
20 We've worked real hard to upgrade it and I don't know -- I  
21 feel and I think the operators as a whole feel that the  
22 program has improved a lot. Recently we've worked -- one of  
23 the things that we've done recently is changed around the  
24 simulator portion of training to provide more simulator  
25 training. We spend about half of our time, if not more, in





1 the simulator, as opposed to classroom lectures on EOP's.  
2 We do simulator working demonstration of EOP legs, you know,  
3 and then we like time out freeze the simulator if we're  
4 making a mistake or if the SSS is working through a  
5 particular leg and he gets confused and wants to day time  
6 out, I want to talk about this, you know, the operator can  
7 freeze the machine and then they talk about it and get the  
8 feel for it and then we drive -- you know, start it back up  
9 and pick up from where we were and so that's worked out real  
10 good.

11 Some of the systems -- we go back up into the  
12 simulator -- RHR, we've just started that. RHR has been a  
13 noted weakness for us and it's difficult with all the  
14 interlocks to sit in a classroom and hear the interlocks  
15 over and over and over again. You can only do that so many  
16 times. So, as opposed to that they've devised a short  
17 classroom lecture, system overview, and some of the  
18 operating procedure overview. Then we go up into the  
19 simulator and manipulate the interlocks. You know, hands-on  
20 is a whole lot better than the classroom. You can touch and  
21 feel and things like that.

22 MR. KAUFFMAN: Is that -- have you heard any fall  
23 out from this event where maybe training could be better?  
24 People want more training as a result of this event?

25 MR. WILSON: No. I haven't heard yet, because I



1 basically have been on midnights. I started midnights at  
2 the beginning of this week. It's -- this event I never  
3 could have -- never could have dreamed up this event; all  
4 five of the UPS's going away at once.

5           You know, we've trained on UPS's, we've had a  
6 special course on UPS's. It's always -- UPS's are somewhat  
7 difficult to train on and understand because they don't do  
8 anything. They just kind of sit there and hum. And very  
9 rarely do they, you know, break. I mean, we have failures  
10 on them, but the failures on them -- there's not much the  
11 operator can do. It's all solid-state stuff. You know,  
12 it's not like when pumps or relays or breakers happen. This  
13 is all solid-state stuff and it just changes and you kind of  
14 like go down there and verify what happened and bounce off  
15 the procedures and --

16           The UPS's -- they're difficult to operate. I know  
17 Bob Crandall fairly well. We worked as test engineers  
18 together. We started out together and he's always been  
19 interested in the UPS's and whenever I've had a problem with  
20 UPS's, had a question, I call Bob. You know, that's what we  
21 would do. There's not a lot of -- there's not a lot of in-  
22 depth guidance in the procedures. There's adequate  
23 procedures for operating them as they are, but you know, the  
24 transients that the machines go through, the trouble  
25 shooting that we can get into it's I&C. It's all I&C and



1 electrical people. I mean there's not much you can do  
2 besides call for help.

3 MR. JORDAN: Yeah.

4 MR. KAUFFMAN: So there will be something like a  
5 scam report that comes out and -- what, do you look at that  
6 and try to identify training?

7 MR. WILSON: Oh, yeah. Oh, we've already sent  
8 over a post-event survey from training, you know, we've got  
9 a program in place that as soon as an event -- noteworthy  
10 training -- you know, training noteworthy occurs, we sent  
11 over a post-event -- post-training -- I forget what the name  
12 of it is, scenario or summary, post-event summary, I think  
13 is what we call it. And we send it to all the operators and  
14 it's, write down what you saw, what you -- what was good  
15 training that you had for it, what was bad training, what  
16 you could -- what more could you want and we get all these  
17 things back and then we do a -- basically an evaluation on  
18 it, or the training department does an evaluation of it and  
19 then we look at that from there and make any additions to  
20 the training program that we can. We do that all the way --  
21 not only through the licenses, but all the way down through  
22 the non-LOTS and everybody that was involved in it.

23 MR. KAUFFMAN: Okay. Now, you also mentioned  
24 you're involved in procedure review and that the station was  
25 undergoing a procedure rewrite, could you explain the

4



1 history of that and why you're doing the rewrite and how  
2 you're involved in procedure reviews.

3 MR. WILSON: Well, currently not very much. I'm a  
4 qualified technical reviewer. I will have been -- you know,  
5 when I was an SSS, all the SSS's are assigned systems that  
6 they're quote system experts on. By the nature of the  
7 license and maintaining an active and current license,  
8 you're an expert on all the systems. I mean that's what you  
9 are when you're an SRO or an RO for that matter. But, the  
10 operations support department has been tasked with writing -  
11 - upgrading the operating procedures and the operating  
12 surveillance procedures to the site writer's guide which has  
13 been newly developed. It's gone through several evolutions,  
14 I guess.

15 We had several contractors working for us doing  
16 this and they were let go earlier this year and the task of  
17 rewriting the procedures was delineated to us in the  
18 operations support department. Basically there is a --  
19 there's a couple of people, Jim Poindexter and he is an ex-  
20 SSS -- no, he is an SSS now, still. That's right, he is  
21 still an SSS. He was working -- he worked in the training  
22 department as a -- temporarily, he was the training  
23 supervisor over there for Unit Two. He's doing a lot of the  
24 rewrite of the procedures. He's doing all the rewrite of  
25 the procedures now. He has basically taken that function





1 and going with it.

2 I have, in the past, reviewed procedures that were  
3 draft procedures that were written up for technical content,  
4 surveillances, operating procedures, and made comments and,  
5 you know, worked them through the process and got them  
6 published. I have not taken one myself, yet, and had to  
7 work through it because we're coming up to a -- because of  
8 the things that I've been doing with the training department  
9 basically. My time is full and I don't -- I have not had  
10 time to do it.

11 MR. KAUFFMAN: Okay. Say I was a licensed  
12 operator during this event and you -- you got into several  
13 areas of EOP's and different procedures that you maybe don't  
14 routinely do and I use the procedure and got through the  
15 event, but when I was done, I say to myself, you know, that  
16 procedure really wasn't very good or helpful there. It  
17 needs to be changed. What would I do and it would it be up  
18 to me to put in a procedure or change request or would I  
19 just flag it to somebody and say please look at this? How  
20 would that input get into the system and be taken care of?

21 MR. WILSON: We have a procedure change evaluation  
22 form, PCE, that can be initiated by anyone. Depending on  
23 the magnitude, I suppose, of it, it could be the supervisor  
24 and I have initiated them for reactor operators and I have  
25 had reactor operators initiate them themselves. Then they



1 will come to -- they basically come to the first-line  
2 supervisors to the -- or to the RPO, the procedure owner and  
3 he evaluates it for --

4 MR. KAUFFMAN: What does RPO stand for?

5 MR. WILSON: Responsible procedure owner.

6 MR. KAUFFMAN: Okay. We have to take the tapes  
7 back and try and figure out what the abbreviations mean.

8 MR. WILSON: Okay.

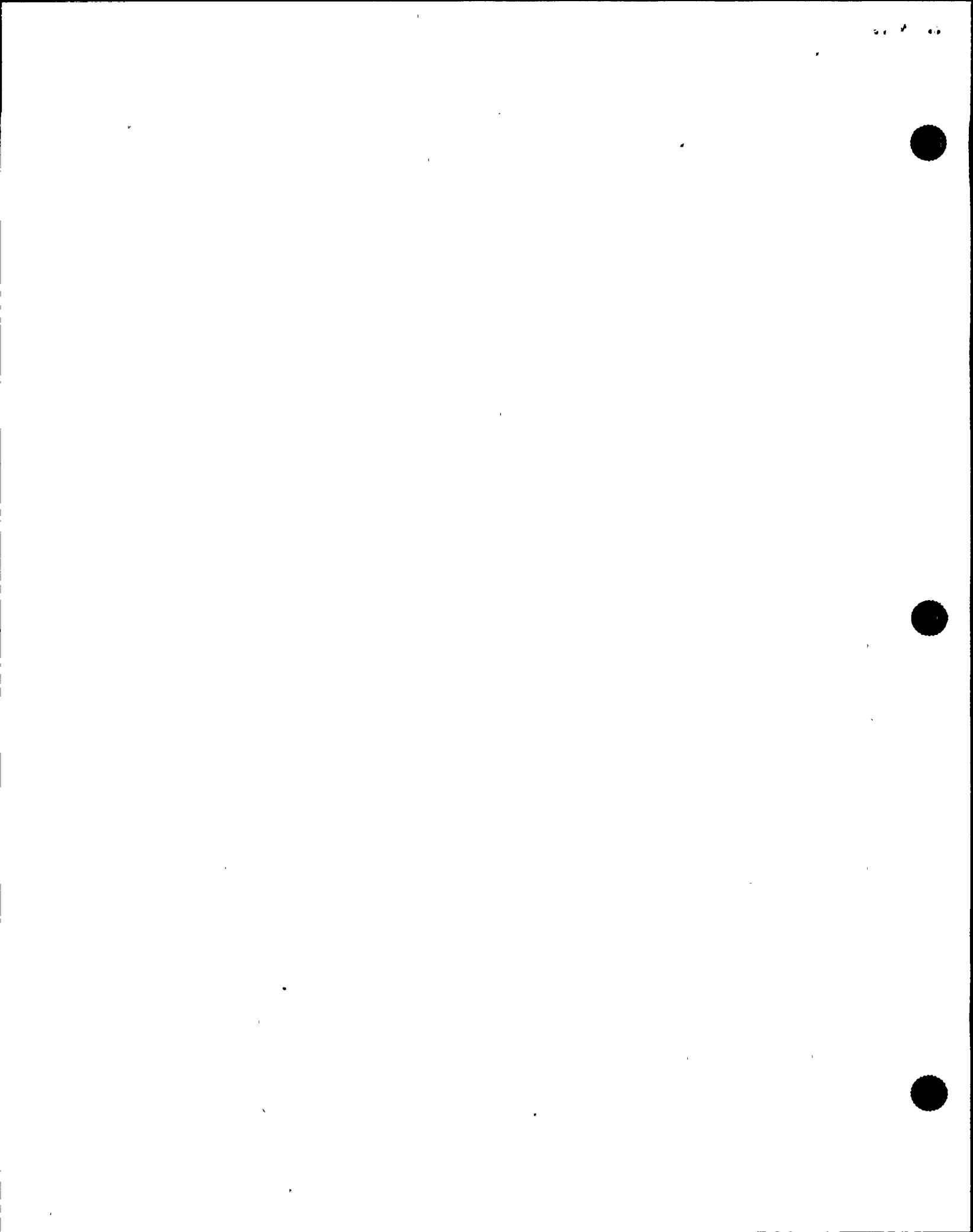
9 MR. KAUFFMAN: So that's why I asked.

10 MR. WILSON: It's in accordance with AP-2, AP-2.0  
11 and AP-2.1 and AP-2.2.

12 The procedures -- the RPO can then decide whether  
13 it should be an immediate change or a future change and  
14 there is two sections of the PCE form. If it's a --  
15. determined to be a future change, it's not relevant for an  
16 immediate change, they don't need to do an immediate change,  
17 it's sent down to the operations support department and  
18 basically I guess it's put into the system file. Jimmy is  
19 maintaining that file for the procedure upgrade for the next  
20 revision so that when the procedure comes out it's a good or  
21 better procedure, you know.

22 MR. JORDAN: Okay.

23 MR. KAUFFMAN: Okay. Are you aware of any  
24 procedures that as a result of this event that were found  
25 needing changes or improvements?



1 MR. WILSON: I heard that OP-71 might need some  
2 changes or they're going to look at the --

3 MR. KAUFFMAN: That's a procedure for -- what's  
4 that for?

5 MR. WILSON: I'm sorry. That's right. I forget  
6 we're talking on a tape here. That's the operating  
7 procedure for normal AC distribution and that has the  
8 operation of the UPS's in it and I haven't looked at it yet,  
9 but I understand that there is some upgrade to that  
10 procedure to make it more user friendly so as to manipulate  
11 the UPS's in the situation, I guess, that we found them in.

12 MR. KAUFFMAN: Okay. Just one last follow-up  
13 question that relates to -- there are some questions about  
14 when in EOP's, do tech specs apply, not apply, is there some  
15 mechanism for resolving that? For example, some plants have  
16 licensing do something called a tech spec interpretation.

17 MR. WILSON: We have tech spec interpretation,  
18 but we do not have one specifically on this. I brought it  
19 up to Jerry and he believes that it's covered in the safety  
20 review for the -- for the EOP's. It was documented and  
21 they're going to put that in on their deviation DER --  
22 deviation event report to make sure that that gets  
23 clarified. That's one of the items that I've got kind of  
24 tucked away that I need to get that clarified to make sure  
25 that that gets into the training program. We do a lot of



1 these things in training. You know, I mean, we do EOP  
2 attachments where we bypass RSCS, we do these things as a  
3 matter of course in training, but when it comes down to the  
4 real thing, all of a sudden there's a lot more things that  
5 go through your head. This is real. I've got to do this  
6 and this and this. For whatever reason, you know, and those  
7 questions all of a sudden they are very obvious questions  
8 and I'm flabbergasted that we don't think about those  
9 things earlier on.

10 MR. KAUFFMAN: That seems like it's something you  
11 can talk out in your time outs and --

12 MR. WILSON: Yeah, you know. But it is something  
13 that, I guess -- well, we never -- it never came up, you  
14 know. Do we take these tech spec actions? What are the  
15 tech -- you know it just -- so that's one of the questions  
16 that I've got to be resolved and to make sure that that is  
17 disseminated through the ranks.

18 MR. JORDAN: In a normal scram, how many SRV's  
19 normally lift?

20 MR. WILSON: What's a normal scram?

21 MR. JORDAN: 100 percent power, 120 days, 125-130  
22 days?

23 MR. WILSON: No reject, level transient, APRM's,  
24 what kind -- are you talking this particular --

25 MR. JORDAN: Similar to what we had here. How





1 many would you expect to lift?

2 MR. WILSON: On a load to reject, I would -- I  
3 guess I would expect a significant pressure increase and I  
4 would look to see indications of whether or not I had had an  
5 SRV lift. However, there was not a lot of indications of  
6 what they actually -- kind of a transient that they had had  
7 until they got people in here. We started looking at  
8 different things and asking a lot of these questions. My  
9 personal feeling is that we missed it, but then we did  
10 identify it. We would not have missed it had we had the  
11 annunciators and we would have -- you know, if you're  
12 talking about the tech spec violation, no doubt in my mind  
13 that we would have taken the appropriate actions had we  
14 known that the SRV's had opened.

15 We don't do many real load reject scrams at full  
16 power. I'm trying to think -- we did the -- I was there for  
17 the load reject at -- during the start-up and I don't  
18 remember if we had SRV's lift or not.

19 MR. JORDAN: Did you train on it? Do you know if  
20 you ever got training on it? What to look for if you get a  
21 load reject?

22 MR. WILSON: We do load reject scenarios in  
23 training.

24 MR. JORDAN: Scenarios.

25 MR. WILSON: We do load reject training scenarios.



1 We do them with ATWS's, we do them without ATWS's. You  
2 know, we do them -- do we train to look for them? No, we  
3 don't train to look for them, we train to see what the  
4 indications are, you know. If you were doing a training  
5 scenario on a load reject, basically, you know, you would  
6 get the load reject, the operators would respond to the  
7 panels, respond to the annunciators, they would see the  
8 annunciator up here, it looks like we had a couple of SRV's  
9 open; if it's an ATWS it will stay open. If it's not an  
10 ATWS, even by the time the guy gets over there, you know,  
11 the valves are going to be closed, but the guy is going to  
12 say, hey, we had SRV's lift. Okay. Let's make sure that we  
13 get suppression pool cooling going. You know, what are the  
14 temperatures in the suppression pool? Where is pressure  
15 going now? Pressure has come back down. It's stabilized at  
16 960, you know, the bypass valves have got pressure under  
17 control. Those kind of things, you know, they're  
18 reactionary kind of things that we do based on indications.  
19 You see it, you go, you know, you kind of like follow it  
20 through. It must have been very different when there was  
21 nothing there. You know.

22 MR. JORDAN: Yeah. You're right.

23 MR. WILSON: And you know, Mike -- I personally  
24 think Mike did an extraordinary job. I think he did real  
25 well. I worked with Mike on shift for -- he was an E on my



1 shift and he's a good operator. I worked with all these  
2 guys and they did -- I think they did a good job. They kept  
3 the plant under control, they took the actions.

4 The classification of the event was correct, it  
5 was timely. It must have been different. I'll tell you  
6 what, man, I just can't imagine, you know. You know, we all  
7 have our -- I -- we all have our personal worst scenarios,  
8 you know, and I don't like the total loss of off-site power,  
9 but the total loss of indication that's a different one.

10 MR. KAUFFMAN: For the record, it wasn't a total  
11 loss, they still had some of their safety related --

12 MR. WILSON: Well, that's true. They had the  
13 PAM's and they had the things coming off the UPS. You're  
14 right.

15 MR. JORDAN: I've got one -- two last questions.  
16 And this is the -- we give everybody the opportunity to give  
17 the good news, bad news and the way I define that is, the  
18 activities that you did while you were there, is there  
19 something that you had in your hands or in your back pocket,  
20 something that was available to you, even training can be  
21 one, that you say, gee, thank God I had that, because that  
22 helped me accomplish what my tasks were.

23 And the opposite of that would be is -- gee, I  
24 wish I would have had this because it would have made my  
25 task easier. Excluding the UPS's. You know, UPS's would



1 have been nice. But you know -- and I'll give you a classic  
2 example as the guy that goes out in the plant and says, gee,  
3 thank God that wrench was hanging on that valve because I  
4 needed that wrench to operate that valve. And the contrary  
5 to that would be the guy goes out there and says, gee, we've  
6 got to have a wrench hanging on that valve because when he  
7 got out there no wrench was there and I had to go get a  
8 wrench and why don't we stage a wrench there.

9 MR. WILSON: Right.

10 MR. JORDAN: Was there anything that -- and the  
11 answer to the question may be nothing, but was there  
12 anything that you can say to yourself, gee, thank God I had  
13 this in my hand or this available to me because I used it  
14 and it worked well for me and I want to say, thank God I had  
15 that, you know, so I can tell the rest of the industry that,  
16 gee maybe you guys ought to -- maybe you don't have this, it  
17 worked well here, you used it well and it came out good.

18 MR. WILSON: I can't answer that question because  
19 I wasn't there during the transient and then from where --  
20 when I got there it was a normal plant -- semi-normal plant  
21 shutdown.

22 MR. JORDAN: That may be the answer to the  
23 question, there was nothing abnormally strong that you said  
24 that you had as a result of the way --

25 MR. WILSON: From where I was, no, because I





1 didn't have any supervisory -- I wasn't -- I didn't have any  
2 direct function in the evolutions above and beyond  
3 experience and trying to help divert the -- help the SSS.

4 MR. JORDAN: Vice versa, there's nothing that you  
5 say, gee, I wish we would have this available for us next  
6 the next time around if we have this thing; and what you  
7 saw, the events that you took care of?

8 MR. WILSON: No.

9 MR. JORDAN: Okay. I don't have any more  
10 questions.

11 MR. KAUFFMAN: Nor do I.

12 MR. JORDAN: I guess we can go off the record.

13 [Whereupon, at 8:20 a.m., the taking of the  
14 interview was concluded.]

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REPORTER'S CERTIFICATE

This is to certify that the attached proceedings before the United States Nuclear Regulatory Commission

In the Matter of:

NAME OF PROCEEDING: Interview of Dave Wilson

DOCKET NUMBER: (Not applicable)

PLACE OF PROCEEDING: Scriba, New York

were held as herein appears, and that this is the original transcript thereof for the file of the United States Nuclear Regulatory Commission taken by me and thereafter reduced to typewriting by me or under the direction of the court reporting company, and that the transcript is a true and accurate record of the foregoing proceedings.

  
\_\_\_\_\_  
Mark Handy  
Official Reporter  
Ann Riley & Associates, Ltd.



07-1213-91

# OFFICIAL TRANSCRIPT OF PROCEEDINGS

Agency: Nuclear Regulatory Commission  
Incident Investigation Team

Title: Nine Mile Point Nuclear Power Plant  
Interview of: DAVE WILSON

Docket No.

LOCATION: Scriba, New York

DATE: Friday, August 23, 1991

PAGES: 1 - 35

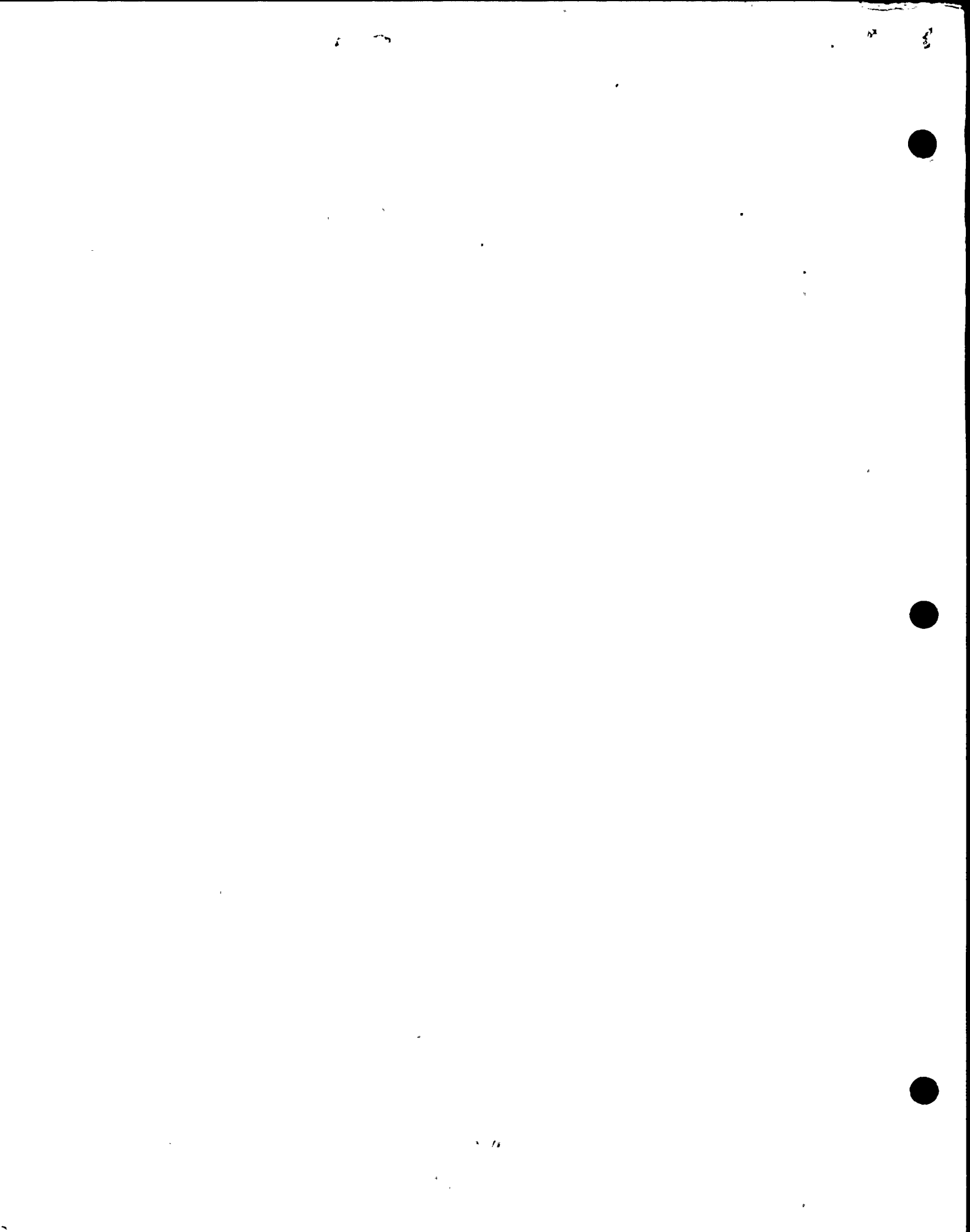
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ADDENDUM TO INTERVIEW OF DAVID E WILSON / Assoc. Sr Gen. Edg 'R  
(Name/Position)

Page      Line      Correction and Reason for Correction

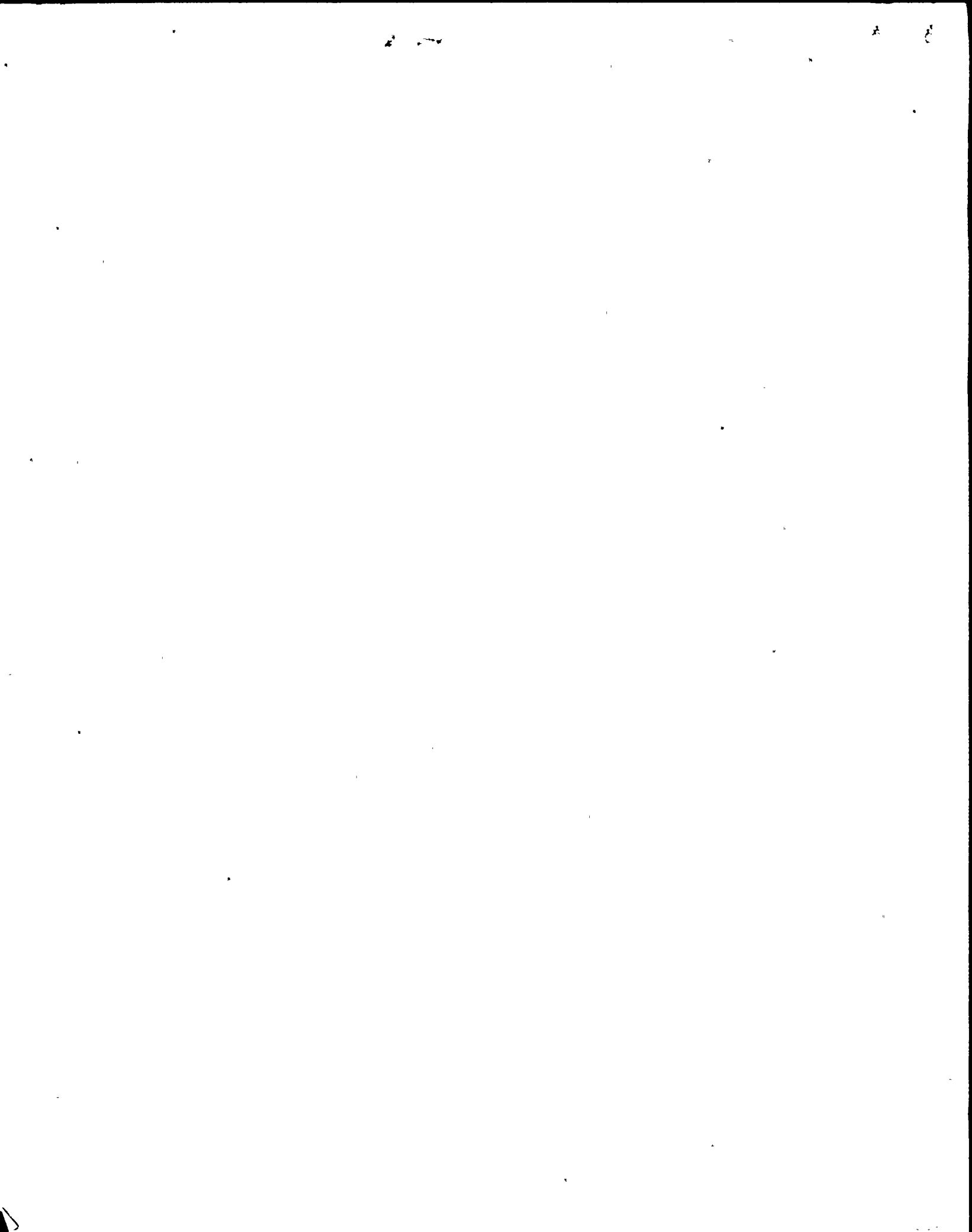
8      18-27      MIKE FROD WAS NOT DISTRACTED  
DURING THE EVENT BUT DURING MY  
CONVERSATION @ THIS TIME SO THE  
CONVERSATION WAS LEFT UNFINISHED WHICH  
LED TO MY CONFUSION AS TO THE  
SEQUENCE OF EVENTS.

9      16      No Coma AFTER VOLUME 1

11      10      AFTER FIVE ADD "COLOR RECORD"

25      14      ADD AFTER "WHAT YOU SAW" -> "WHAT YOU DID"

Page 1 of 1 (Signature *David E Wilson* Date 8/24/91)





UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION  
INCIDENT INVESTIGATION TEAM

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Interview of :  
DAVE WILSON :  
(Closed) :  
- - - - -

Conference Room B  
Administration Building  
Nine Mile Point Nuclear  
Power Plant, Unit Two  
Lake Road  
Scriba, New York 13093  
Friday, August 23, 1991

The interview commenced, pursuant to notice,  
at 7:20 a.m.

PRESENT FOR THE IIT:  
Michael Jordan, NRC  
John Kauffman, NRC



## P R O C E E D I N G S

[7:20 a.m.]

MR. JORDAN: Okay. It's August the 23rd, 1991 at about 7:20 in the a.m. We are at the Nine Mile Point, Unit Two in the P Building. We're conducting interviews concerning a transient that occurred on August the 13th, 1991.

My name is Michael Jordan. I am with the U.S. NRC out of Region III.

MR. KAUFFMAN: John Kauffman out of NRC Headquarters.

MR. WILSON: Dave Wilson, SRO, Nine Mile Point, Unit Two.

MR. JORDAN: Okay, Dave, first off give us a background of what you're background experience is.

MR. WILSON: Okay. I got a degree in -- Bachelor of Science in Civil Engineering from the University of Rhode Island. I worked five years of construction at -- for Pullman Power Products, working on various different aspects of construction. I worked on piping and mechanical construction at Seabrook and Palo -- which one is the one in Arizona -- different power plants.

MR. KAUFFMAN: Palo Verde.

MR. WILSON: Palo Verde, yes.

And came here from Seabrook and worked for ITT



1 Grinnell and -- as a senior piping engineer in the reactor  
2 building. Started with Niagara Mohawk in '82 as a test  
3 engineer and took a job in the operations department as an  
4 assistant SSS. Go my reactor operator's license -- senior  
5 reactor operator's license in the summer of '85 and was  
6 promoted to station shift supervisor in January of '88.

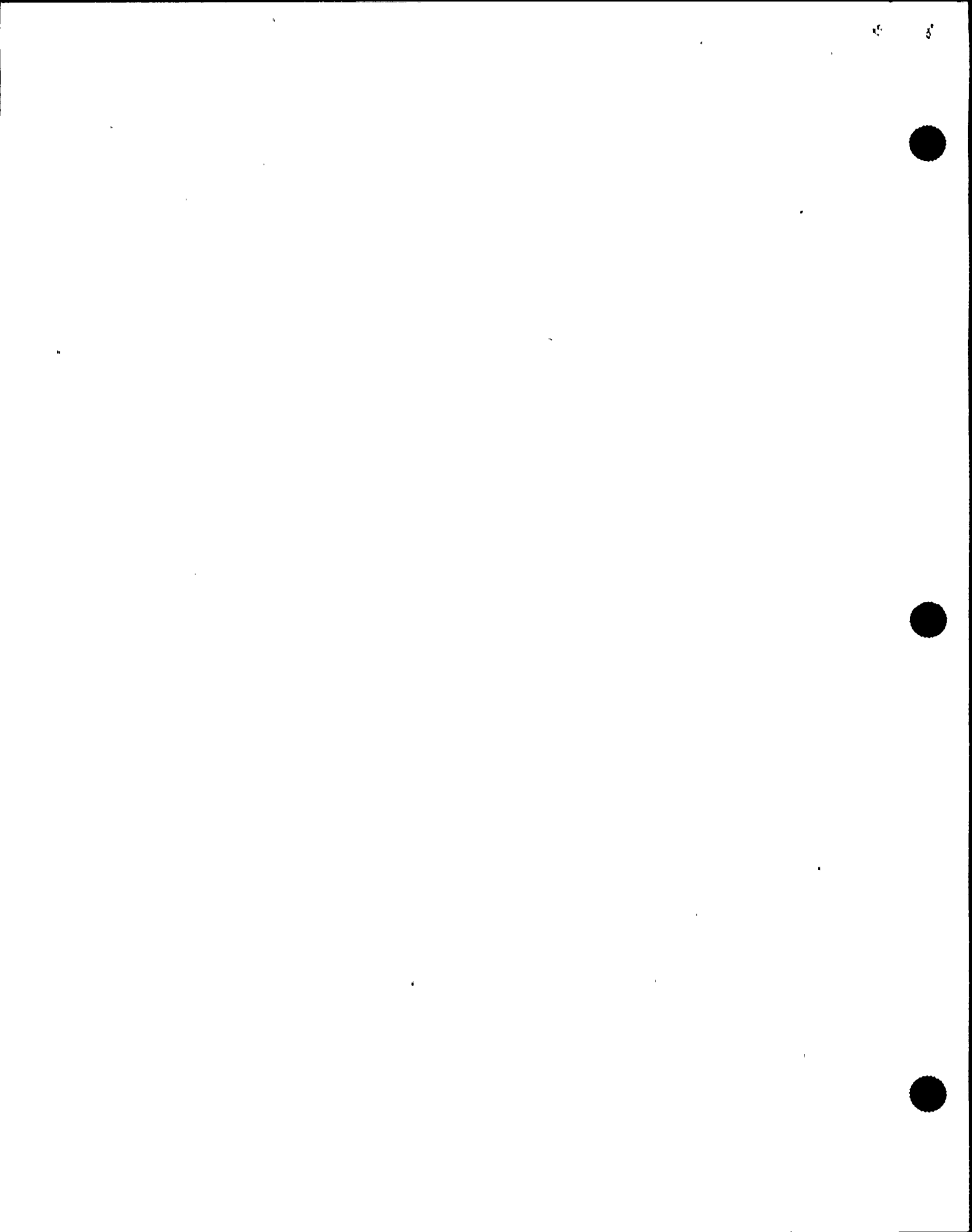
7 I currently work for the -- work in the  
8 operation's support department maintaining a SRO license --  
9 current SRO license.

10 MR. JORDAN: So, you are currently an SSS or are  
11 you not an SSS?

12 MR. WILSON: I am currently not an SSS. I was an  
13 SSS through January of this year when I took a job as a --  
14 my current job title is associate senior generation  
15 engineer.

16 MR. JORDAN: What kind of work -- what kind of  
17 responsibility do you have?

18 MR. WILSON: Anything and everything. I'll do --  
19 my primary job is training coordinator which is a liaison  
20 between operations and the training department. However, in  
21 the role of the -- in my job in the operations support  
22 department I can do root cause analysis, answer DER's, write  
23 LER's, I coordinate training for the guys on shift. What  
24 the heck else do we do? Anything that's required that -- to  
25 support the operations; procedure reviews, we do a lot of



1 procedure reviews. We're involved in a procedure rewrite  
2 program.

3 MR. JORDAN: What -- were you on nights at the  
4 time of the event, days?

5 MR. WILSON: No. I was -- actually I was going to  
6 the training center to review exam bank questions.

7 MR. JORDAN: Why don't you just walk us through  
8 when -- what happened as you came into the plant?

9 MR. WILSON: Basically I came over the hill on the  
10 way to work, realized that the plant had scrambled.

11 MR. JORDAN: How did you determine that?

12 MR. WILSON: By the absence of steam from the  
13 cooling tower. It was not the full power billowing smoke --  
14 more of a wisp.

15 MR. JORDAN: And what time was this?

16 MR. WILSON: Seven, 7:05. Approximately 7:00.

17 MR. JORDAN: Okay.

18 MR. WILSON: Realized that there was probably  
19 enough people at the plant to handle a plant shutdown from a  
20 normal scram, but when I came around the corner the -- saw  
21 that the security department had set up road blocks and some  
22 people were going in and some people weren't. I was about  
23 eight, ten cars back. Realized that he was asking for green  
24 cards. At that point I got my emergency -- the green card  
25 is the emergency -- I don't know what it is -- emergency





1 access card. And got that out and he let me go through. I  
2 went directly to the parking lot to the site. There were a  
3 lot of people standing outside. I got out and just as I was  
4 going in they were asking -- a lot of people said they  
5 weren't letting anybody in, but at that time a call came out  
6 from the security department that they wanted I&C, rad  
7 protection and operations personnel.

8 MR. JORDAN: Any way you can tell what time this  
9 was?

10 MR. WILSON: I would like to say approximately 7  
11 o'clock -- 7:05, whatever time I badged in. I normally get  
12 to -- I get here at 7 o'clock, so I would say --

13 MR. JORDAN: Okay.

14 MR. WILSON: Being in the operations department,  
15 being an SSS, maintaining a license, you know, my place was  
16 in the control room. So, I came on site and went directly  
17 to the control room.

18 MR. JORDAN: Any problem with lighting between the  
19 access to the site?

20 MR. WILSON: None were observed.

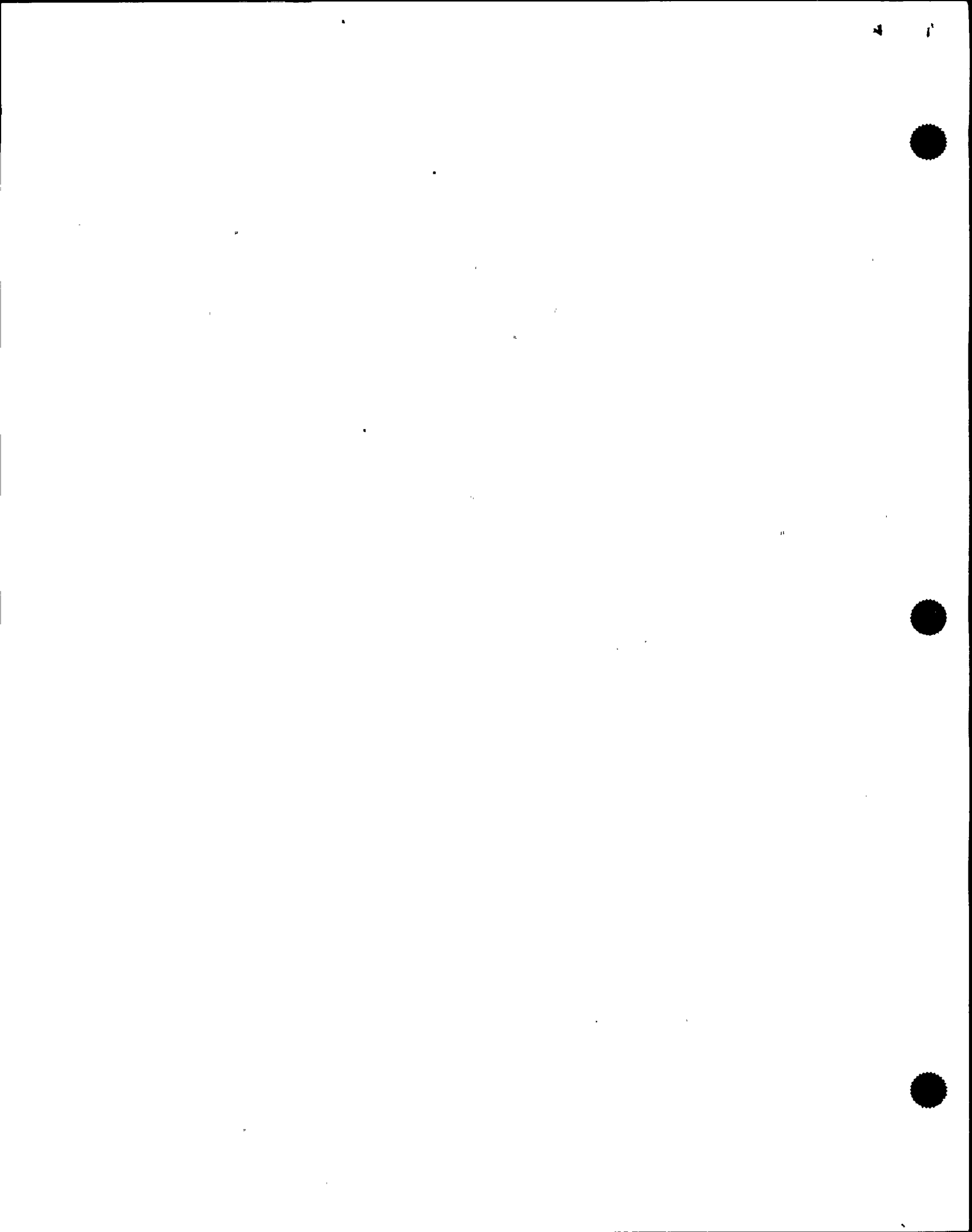
21 MR. JORDAN: And to the control room?

22 MR. WILSON: None observed.

23 MR. JORDAN: Okay. Go ahead.

24 MR. WILSON: I came to the control room.

25 Basically I got -- you know, I asked for a brief from -- I



1 think it might have been like Eric Townsend who was in the  
2 SSS's office. You know, I saw the operators on station at  
3 various panels. I saw Mike Conway on the boards -- on the  
4 emergency operating boards, was not sure what he was doing  
5 out there. Did not want to go into the controls area at  
6 that time. There was more than enough people in there to do  
7 what they needed to do. Got a brief from -- like I said, I  
8 got a brief from Eric, I think, and discussed what was going  
9 on in the site area emergency and, you know, looking from  
10 the back panels everything looked pretty good.

11 I would like to say, you know -- I don't remember  
12 exactly what pressure was, but pressure was stable. I asked  
13 Mike Eron, I think about that time, I think it was Mike, if  
14 I could go out and walk the panels and see what was going on  
15 -- see if I could see anything. And they allowed me to do  
16 that. And basically just told Mike, you know, that I was  
17 there to help him in whatever manner I could.

18 MR. JORDAN: Did he assign you any responsibility  
19 or tasks?

20 MR. WILSON: At that time, no. I got into --  
21 shortly thereafter, oh, maybe 8:30 after things -- I would  
22 guesstimate 8:30. We started looking at where we were in  
23 tech specs. I know that they had thought about where they  
24 were in tech specs.

25 We looked at the standby gas, the drywell cooling



1 isolation valves, RPS, jumpers, basically went through the  
2 tech specs to see if we had met or could see any problem  
3 with them -- where we were in tech specs. Where the plant  
4 was and what tech specs we needed to meet tech spec actions,  
5 answering the phone a lot, talking to communication -- a lot  
6 of communication comes into the SSS's office on the various  
7 different phone lines.

8 MR. JORDAN: They were all functioning?

9 MR. WILSON: Yes. As far as I could tell they  
10 were.

11 MR. JORDAN: No problems with communications that  
12 you could see at this time?

13 MR. WILSON: No problems with communications.  
14 Well, you know, when I got there, it must have been, like I  
15 said, maybe ten minutes after seven a quarter after seven,  
16 something like that. The plant was in a stable condition or  
17 appeared to be a stable condition.

18 As I was walking the board they were -- I want to  
19 say they were shutting down RCIC. I wasn't sure what was  
20 going on with the different feed systems, but it looked like  
21 they had gotten condensate -- they had the booster pumps  
22 ready. I wanted to say that pressure was around 500 pounds  
23 at that time. I think that they had gotten condensate  
24 booster pumps running and they were just manipulating RCIC -  
25 - shutting RCIC down or putting it in on a tank-to-tank



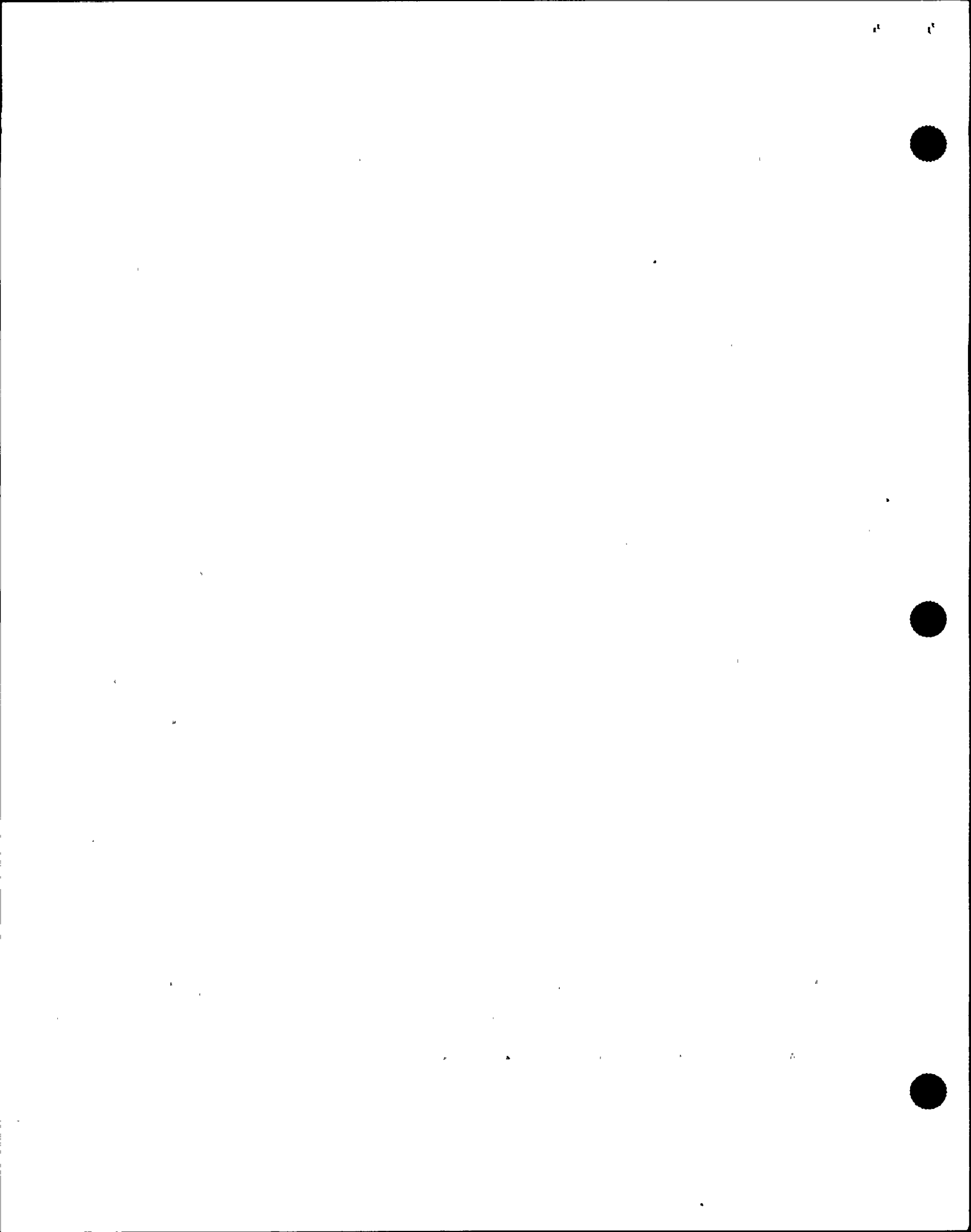
1 evolution to aid in the control of pressure.

2 We talked about -- later on, you know, as things  
3 were happening we -- I asked Mike, you know, trying not to  
4 interfere with the operation of the plant, you know. My  
5 license became inactive in this last quarter. This is the  
6 first time since I've had a license that it's been inactive.  
7 And so I wasn't -- I didn't have an active license. I  
8 couldn't go out there. I couldn't provide the direction to  
9 the operators although they've all worked for me at one time  
10 or another.

11 I asked -- so I was talking to Mike Eron about how  
12 it happened and got a flavor for what had happened;  
13 understood that the UPS's had all failed, they had heard a  
14 bang, went out to the panels. The annunciators were off  
15 with the exception of, I think he said there was -- on 601  
16 there was three or four annunciators, I think he said, that  
17 were still on.

18 And we talked about putting the mode switch in  
19 shutdown and then he went back and -- that he had  
20 recommended putting the mode switch in shutdown and then he  
21 was distracted and maybe went back to work. And thinking  
22 about that, at that point it didn't seem like the turbine  
23 had tripped, that they had manually scrammed the reactor.

24 At this point I didn't have a good feel as to what  
25 had happened out in the yard and such and so I got a little

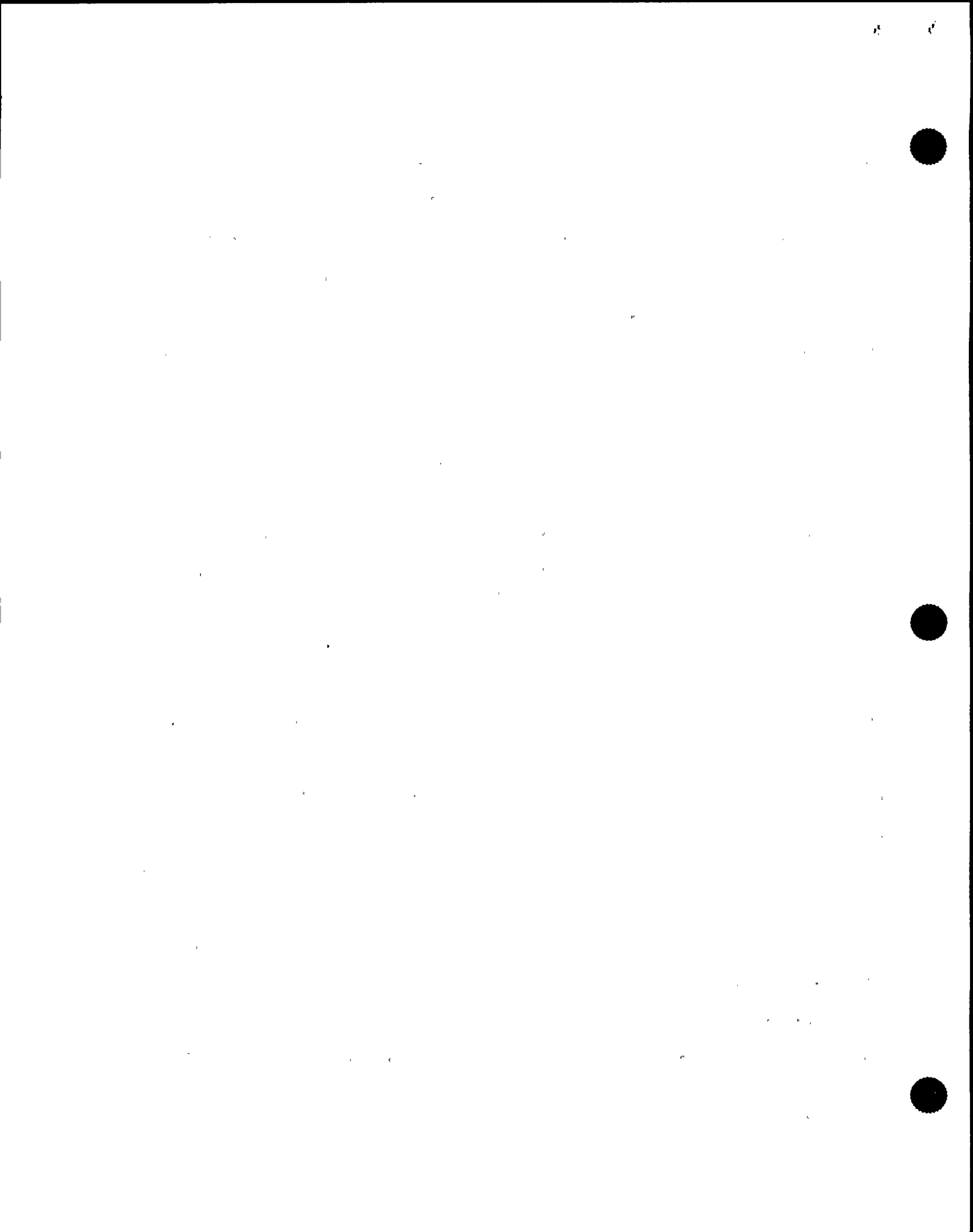




1     sidelined and focused that they had put the mode switch in  
2     shutdown so I was a little confused as to what had happened.  
3     So there was some discussion between some of the people in  
4     the SSS's office and went back and clarified it and he --  
5     Mike said that before putting the mode switch in shutdown he  
6     had seen the reactor scram lights were out. Asked him about  
7     the -- whether the turbine had tripped at that point and I  
8     don't -- he said, I believe -- I believe he said that he had  
9     lost indication over there and wasn't sure -- didn't know  
10    whether the turbine had tripped. He was more concerned with  
11    the reactor. He knew that the reactor had scrambled and  
12    needed to place the mode switch in shutdown and was  
13    concerned about the power -- his power level, the APRM  
14    recorders had failed as is at 100 percent power.

15           He said he went around to the back and checked the  
16    shutdown scram discharge volume, trip units on the back  
17    panel, 609 and 611. They indicated full water so that he  
18    was sure that they had got rod motion in that -- he used  
19    that as one of his things for saying that he got rods to  
20    move. Checked the down-scale alarms -- down-scale lights on  
21    the APRM's on the back panels.

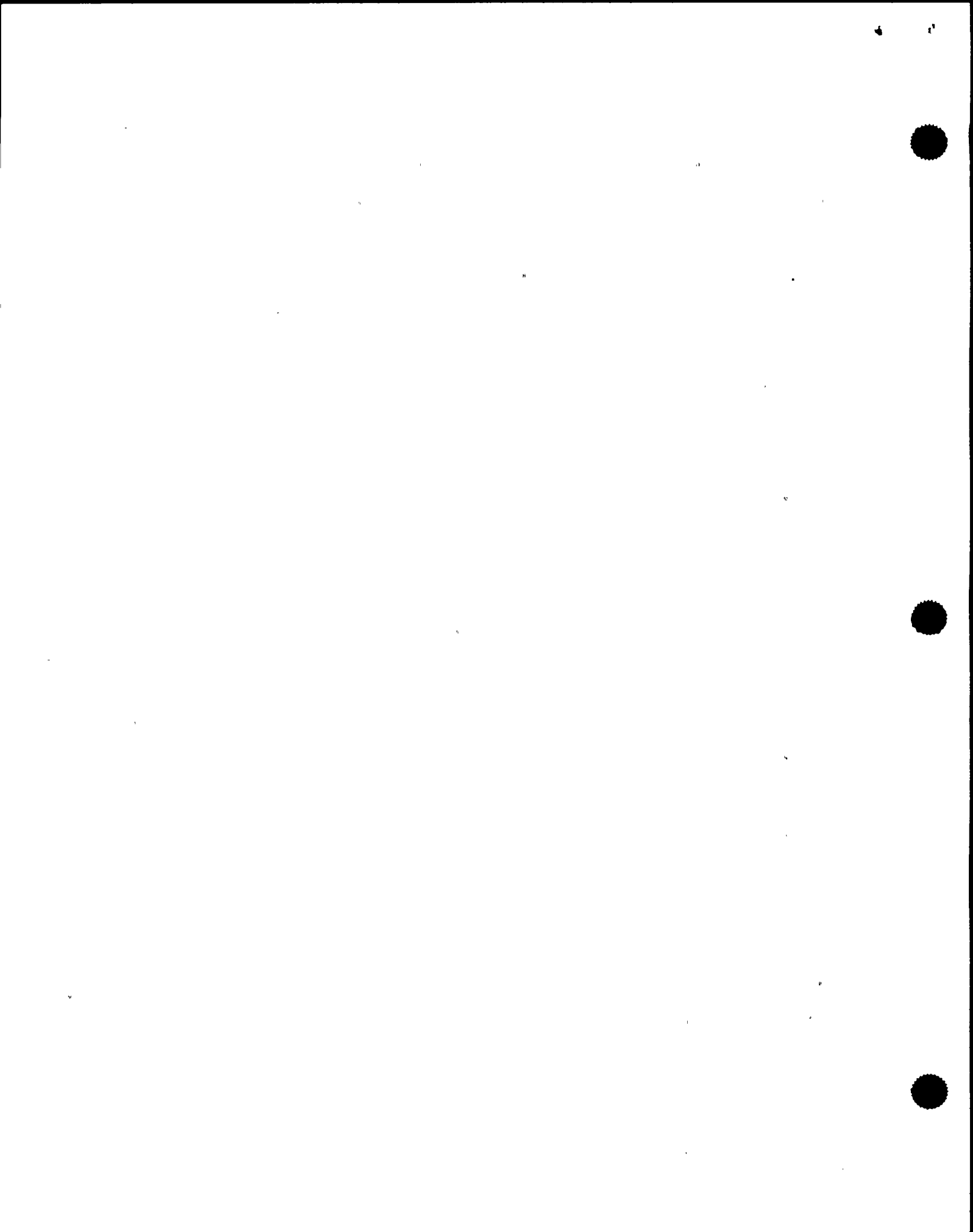
22           Thinking through the even and what happened after  
23    -- trying to piece it together, realizing that we got a --  
24    probably got a turbine trip we sent -- had some guys run  
25    downstairs and look to see some of the relays -- Eric and I



1 were talking and the guys went downstairs to check some of  
2 the 86's, the protective relays on the generators and the  
3 report that came back was they had all tripped. Not that  
4 they had all tripped, but that there was -- the ones that  
5 had tripped -- I don't remember which ones they were -- I  
6 don't remember that they ever got written down -- which led  
7 us to believe that the turbine had tripped and that it all  
8 made sense. That the generator had blown -- or the  
9 transformer had blown, the turbine had tripped and the  
10 reactor had scrammed and that's what they saw and it was all  
11 in one fell swoop there. So we -- at that point I  
12 definitely believed that everything had happened correctly.

13 We talked about tailpipe temperatures about that  
14 time, or I mean SRV's lifting and asked if an SRV lifted and  
15 the answer was, no, I don't believe so. And the STA came  
16 back shortly thereafter and said that we had a rise in the -  
17 - in some of the tailpipe temperatures. So we went back --  
18 Tom Tuttle and myself and Mike Eron went back to the  
19 recorder for the tailpipe temperatures and determined that  
20 two SRV temperatures -- I think points eight and nine,  
21 valves 128 and 135, maybe -- anyway, we determined that  
22 points eight and nine had gone from about -- I want to say  
23 150 or 200 degrees up to 300 degrees plus at the time of the  
24 transient and then you could see it start to cool down.

25 MR. JORDAN: This is on the strip chart recorder?



1 MR. WILSON: Yeah. The tailpipe temperature  
2 recorder of -- I don't know what --

3 MR. JORDAN: Oh. It's a temperature recorder?

4 MR. WILSON: Yeah.

5 MR. JORDAN: A dot printout, is that what it is?

6 MR. WILSON: Yeah. It's a --

7 MR. JORDAN: It's not a continuous line?

8 MR. WILSON: It's a rotating cam. It's a rotating  
9 cam and, you know, the thing slides up and down and then it  
10 rotates and it's a four or five -- it's like the turbine  
11 vibration recorders. You know, they rotate and they print a  
12 number and that tells you which point -- which it is.

13 MR. JORDAN: How many of those did you see were  
14 trending up and down?

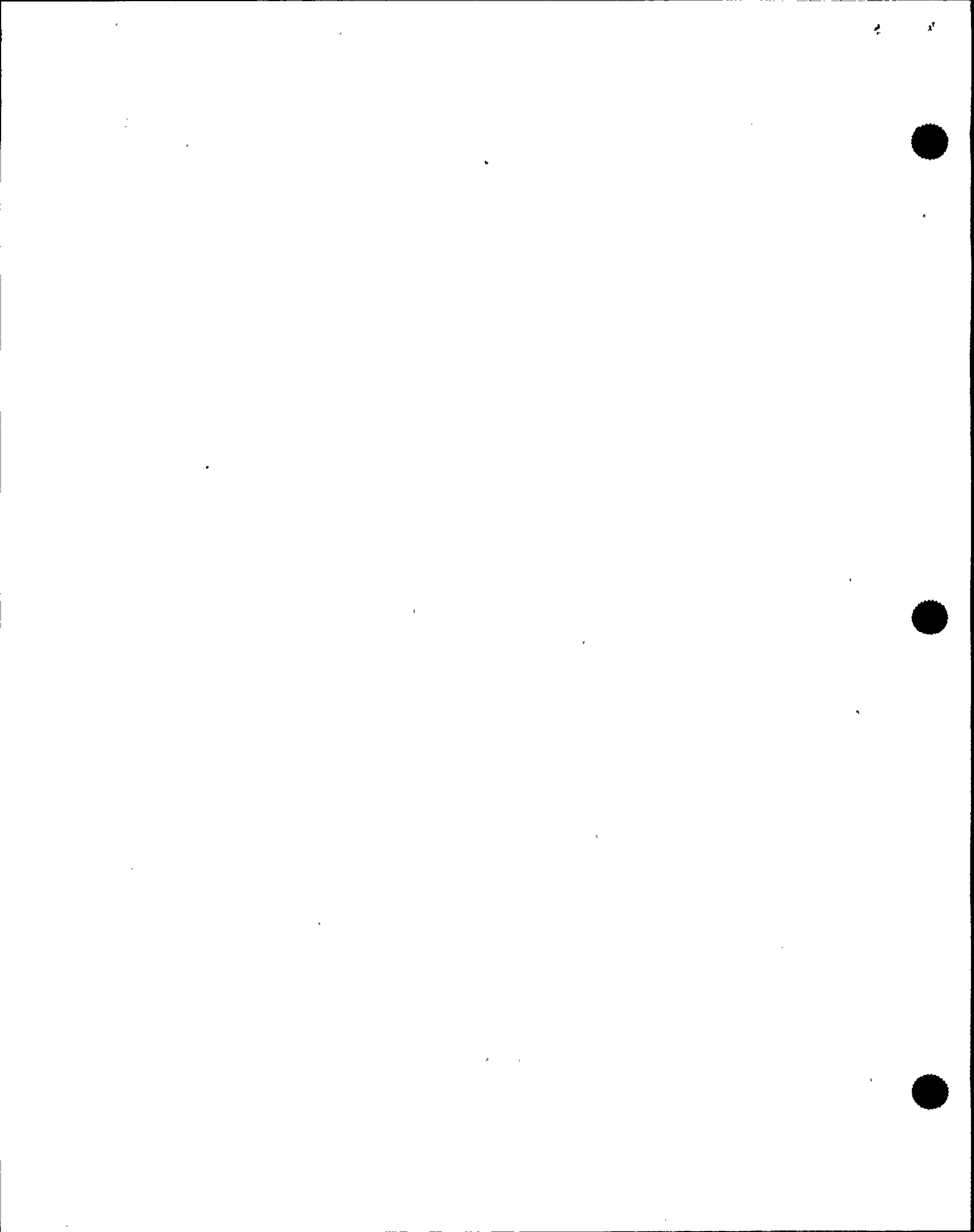
15 MR. WILSON: Well, we have several leakers, okay.

16 MR. JORDAN: Do you have any idea how many  
17 leakers?

18 MR. WILSON: Three or four. Four. It looked like  
19 there was four or five of them I guess.

20 MR. JORDAN: Four or five leakers and then --

21 MR. WILSON: Yeah, you know, and they were -- most  
22 of the temperatures is down around 150 degrees. And that's  
23 where -- and they all print on top of each other so you  
24 can't tell what number it is and then there are several  
25 elevated temperatures, okay, and that is due to some steam



1 leaking through the seat. It basically increases the  
2 temperature. The highest temperature there is about 300  
3 degrees and that was on point 12. And then on a scram you  
4 can watch the temperatures as soon as the -- as soon as we  
5 start depressurizing we can watch the temperatures go right  
6 down. When we went back and looked at it, you could see  
7 where points eight and nine had been down in the 150 degree  
8 range and then were suddenly up in the 300 degree range,  
9 right on top of the leaker. You had to look at it to see it  
10 because the points -- the numbers eight and nine -- you had  
11 to wait for it to come around to verify that it was eight  
12 and nine, it was not clearly legible that they were points  
13 eight and nine. But transferring that to the valve number  
14 and transferring that back to the set points and the  
15 pressure relief function, those are the two lowest set  
16 points and they were --

17 MR. JORDAN: Do you know what valves those were?

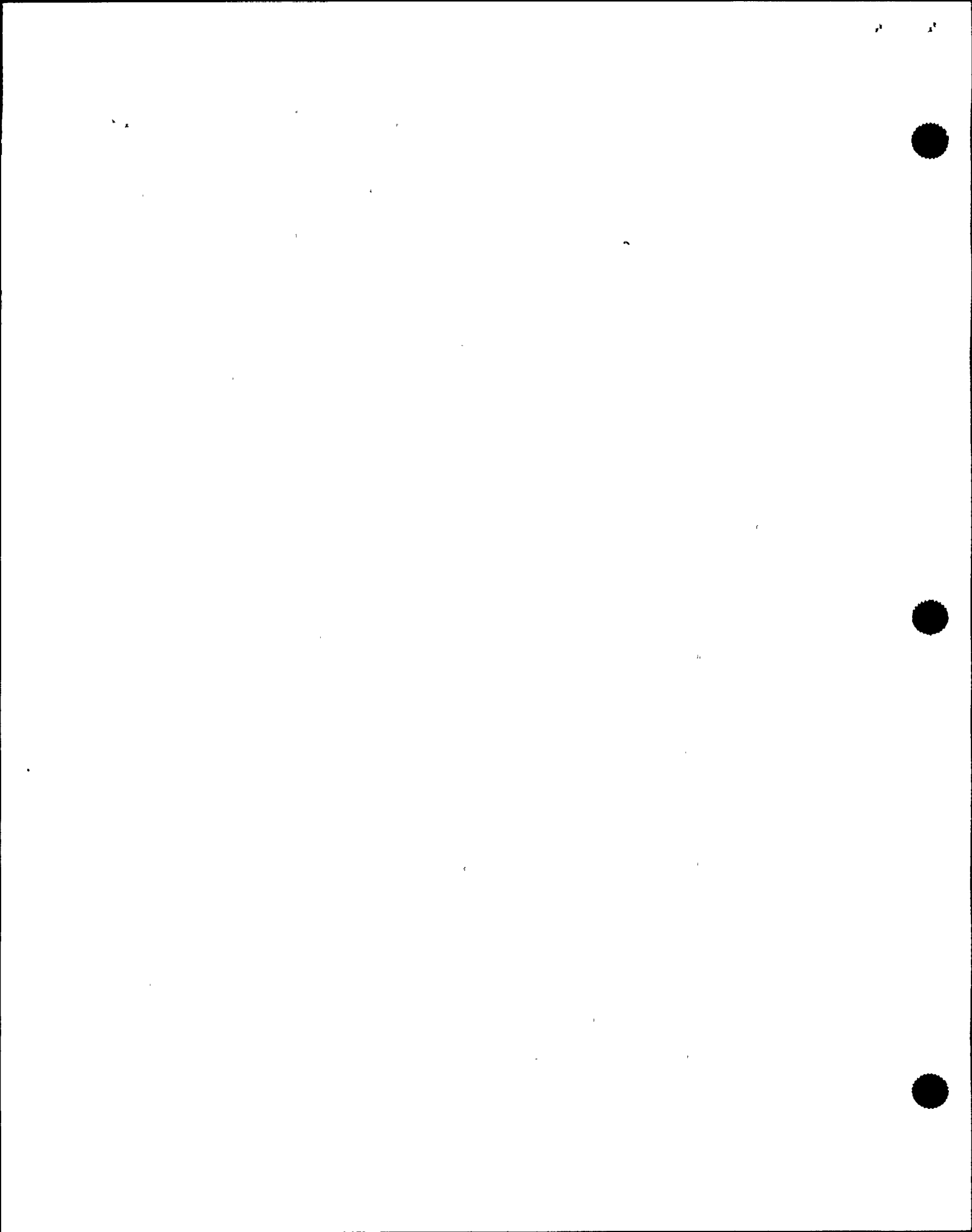
18 MR. WILSON: I believe they are 128 and 135.

19 MR. JORDAN: Okay.

20 MR. WILSON: At that point we believed, based on  
21 that, that we probably had two relief valves that lifted and  
22 Mike Eron went and got the procedure to cycle the drywell  
23 vacuum breakers as required by tech spec to initiate that.

24 MR. JORDAN: What time is this?

25 MR. WILSON: Ten o'clock.





1 MR. JORDAN: About 10 o'clock?

2 MR. WILSON: I went to try to figure out if we had  
3 any kind of pressure indication and rolled back the PAM  
4 recorders to see where the pressure was and the pressure  
5 indicated as well as you can tell on a narrow range at  
6 approximately 1,070, that's about as close as I can say,  
7 that's about 1,070. And it peaked and went right back and  
8 based on 130 day run I would have expected the relief valves  
9 to lift.

10 MR. JORDAN: Is that what the run is? Is that how  
11 long you run them? You don't know.

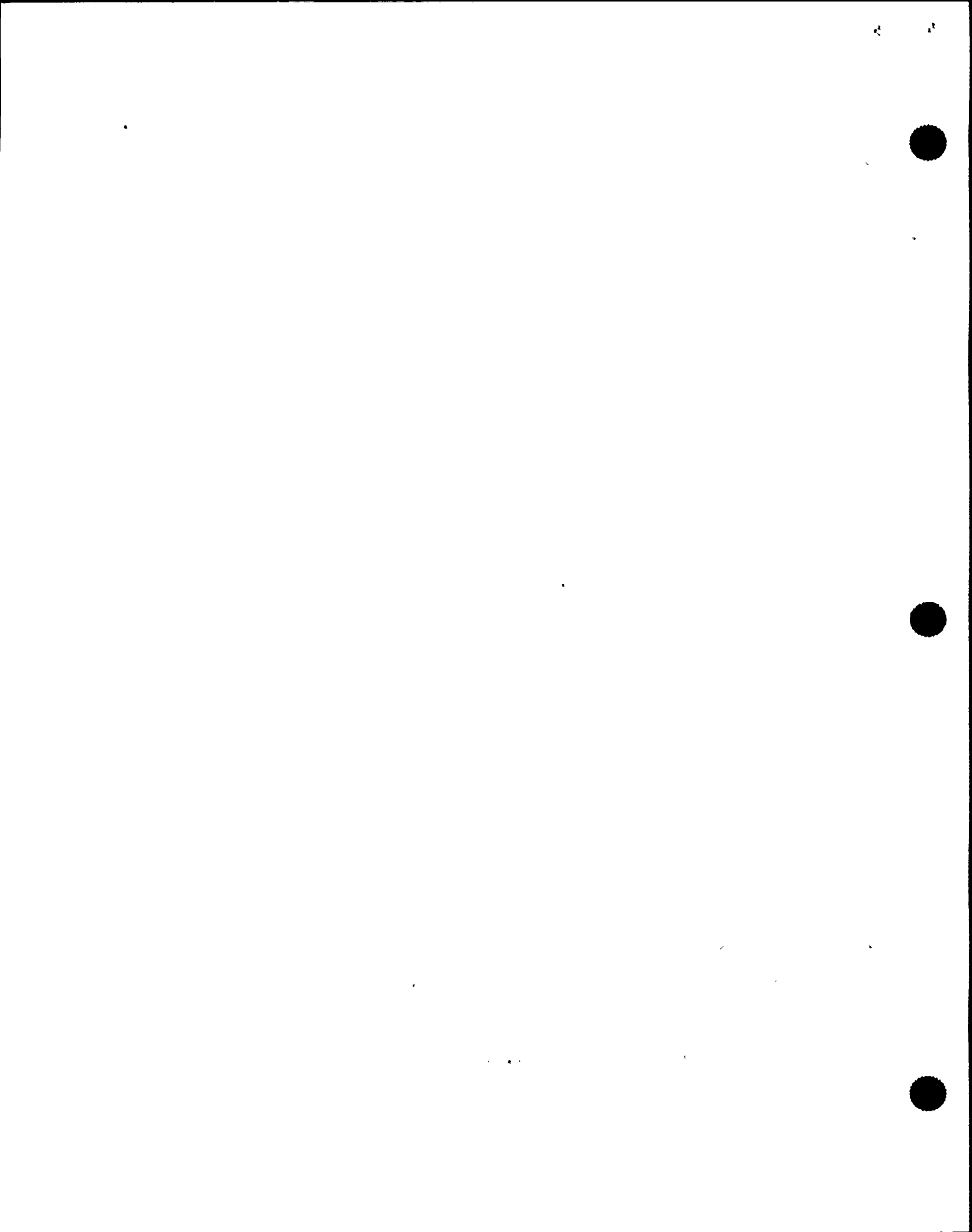
12 MR. WILSON: I think our record run is 135 and we  
13 were within a week. I want to say about 130 days.

14 MR. JORDAN: Okay.

15 MR. WILSON: You know, made sure that we had had  
16 an ARI, we had had our RCS initiation on 1,050 pounds, so we  
17 knew right off that we had at least 1,050 pounds that we  
18 didn't -- performed that surveillance.

19 MR. JORDAN: Did that one come out okay? No  
20 problem with surveillance?

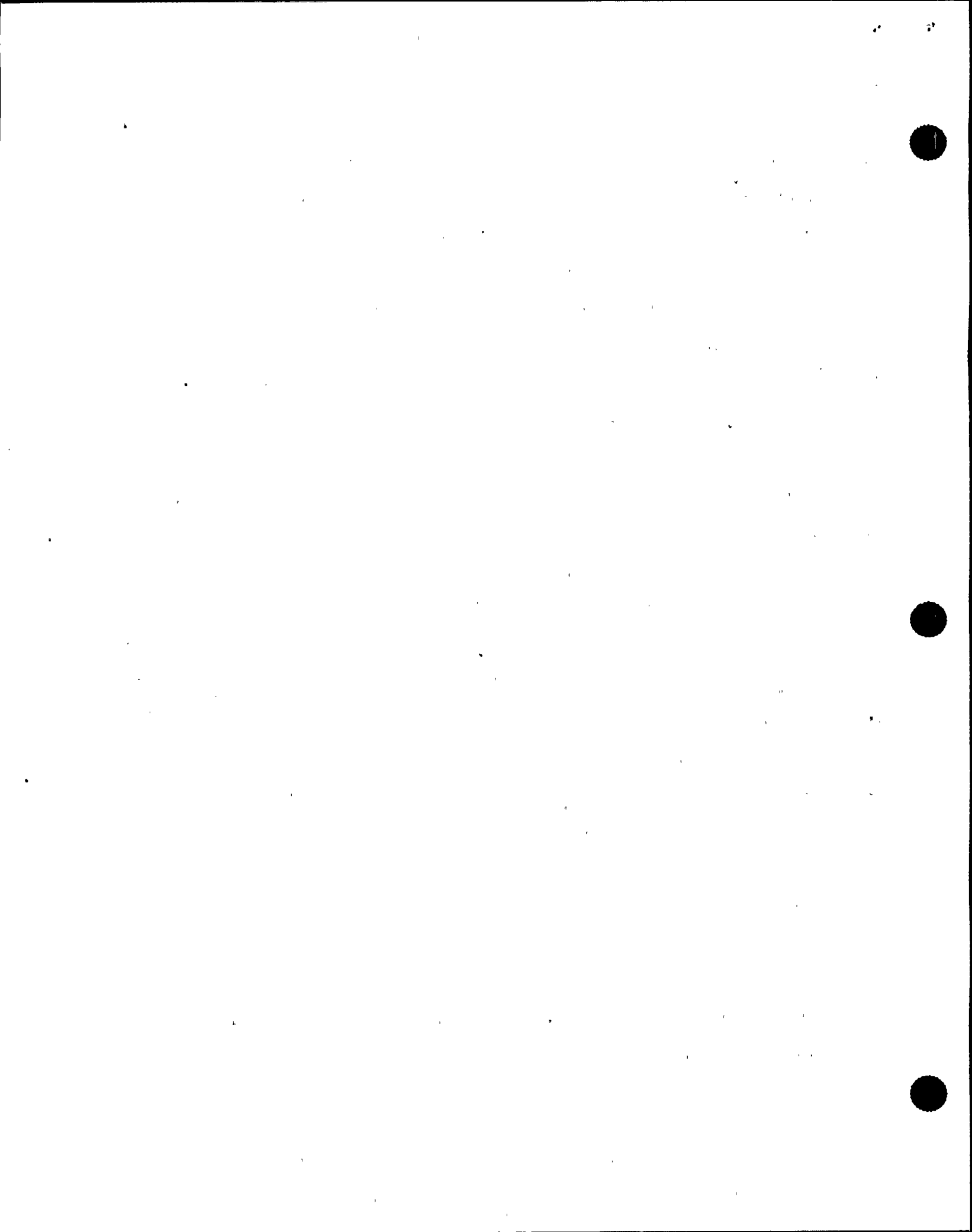
21 MR. WILSON: Yes. It was a tech spec violation.  
22 That's the point of how we were supposed to have performed  
23 that surveillance within two hours after the relief of the -  
24 - after the lifting of the relief valve. But we didn't  
25 realize we had SRV's lift, because the two indications that



1 we have -- you know, we have the acoustic monitor  
2 indications which provides the red and green indication  
3 right on the panel. And we wouldn't get an annunciator in  
4 that would say that it would lift the computer points, but  
5 the computer went away and you didn't have the annunciator  
6 and I expect that the relief valve lifted for a second,  
7 maybe and that's why it didn't get seen. So we did the  
8 surveillance and wrote it up as a tech spec violation.

9 MR. JORDAN: Any other tech spec violations that  
10 you knew of in your -- you review the tech spec, you're  
11 saying with the --

12 MR. WILSON: I reviewed the tech specs. The only  
13 other thing that I saw that could have -- that could be a  
14 problem was we installed the RPS jumpers which bypasses the  
15 -- oh, the automatic functions, it only leaves the manual  
16 function of RPS. In doing that the question that I raised  
17 was -- at that point is all of the automatic functions of  
18 RPS, are they all inoperable, and then there are several  
19 actions that you have to take within -- with those things  
20 being inoperable like with APRM's inoperable, you've got to  
21 verify all the rods are inserted. And the mode switch  
22 locked and shut down, within an hour. I think that's on the  
23 APRM's. That was done. We went out and the mode switch was  
24 locked and shutdown. The rods had been inserted, it had  
25 been verified and that was documented in Mike's log.



1           However, the jumper was in for longer than an hour  
2 and you reset the scram, okay; tech spec action B says if  
3 you got both trip systems inop within one hour you have to  
4 place a half on one of the trip systems, which we didn't do.  
5 So that I brought that point up to Jerry Helker and whether  
6 or not we violated tech specs -- because we were directed by  
7 the EOP's to put the jumpers in and then thereby are we --  
8 do we have to take the tech spec actions when we're directed  
9 to defeat tech spec required things in the EOP's. If we do  
10 have to take those actions, we didn't do it all and he's  
11 aware of that.

12           MR. JORDAN: So you're saying that the tech specs  
13 require -- what, a half -- you said a half?

14           MR. WILSON: Yeah. Half scram.

15           MR. JORDAN: Half scram?

16           MR. WILSON: Yeah.

17           MR. JORDAN: On one of the channels?

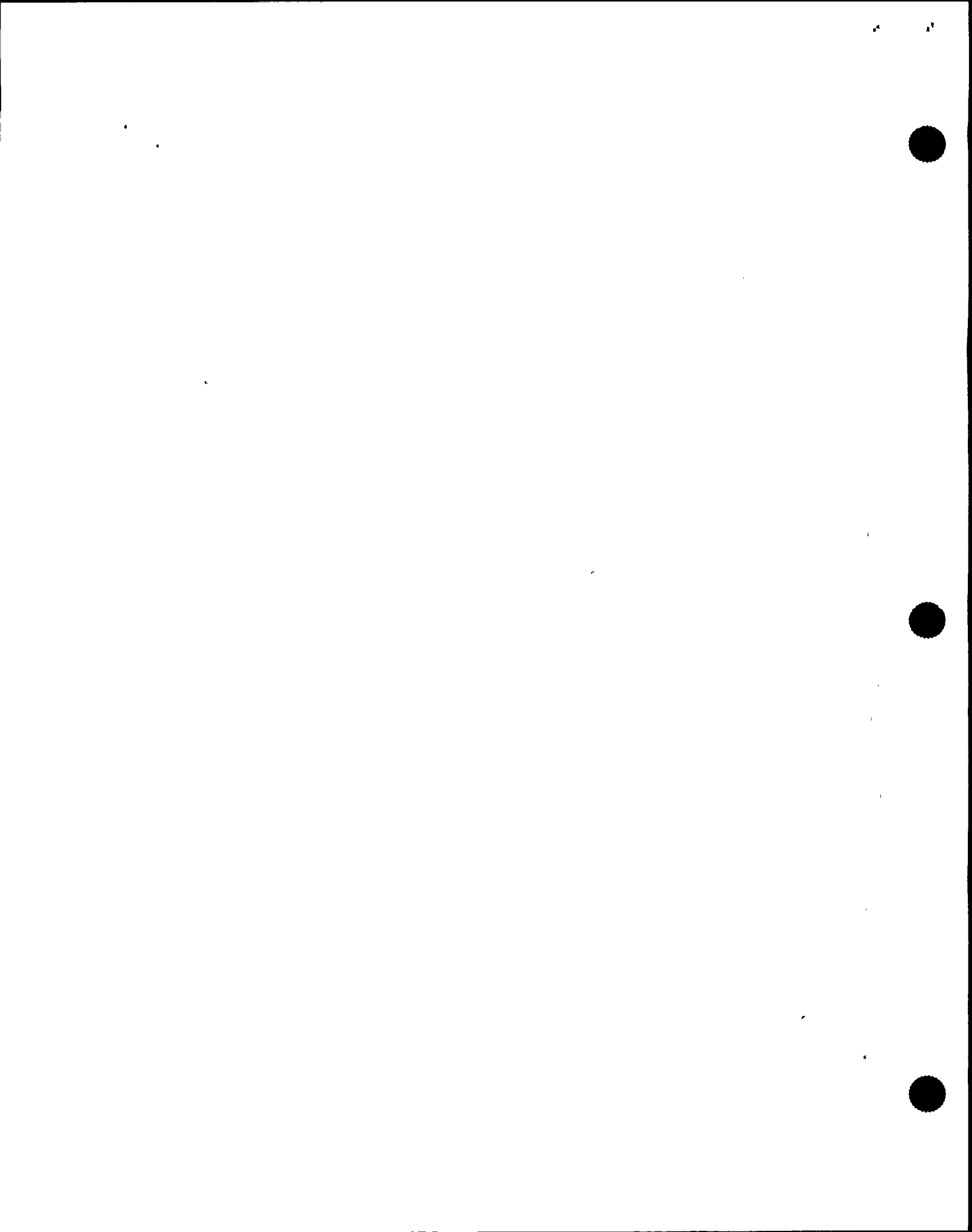
18           MR. WILSON: If you've got both channels inop --

19           MR. JORDAN: If both channels inop --

20           MR. WILSON: If you've got less than the required  
21 number of -- per the table --

22           MR. JORDAN: Okay.

23           MR. WILSON: -- then you got to have -- you've got  
24 to take the action per the table -- per the action  
25 statements which I think is -- verify all the insertable



1 control rods inserted and the mode switch locked in  
2 shutdown. And within an hour put one of the trip systems in  
3 the trip condition so it won't cause the trip to occur.

4 MR. JORDAN: And the reason why the jumpers were  
5 installed was because --

6 MR. WILSON: They were in EOP-RQ trying to -- they  
7 didn't know where all the rods were so they were -- put the  
8 RPS jumpers in to reset the scram so that they could insert  
9 another scram.

10 MR. JORDAN: In accordance with the EOP's?

11 MR. WILSON: In accordance with the EOP's.

12 MR. JORDAN: So they had an authorized procedure  
13 for them to install the jumpers in the condition that they  
14 were in?

15 MR. WILSON: Absolutely.

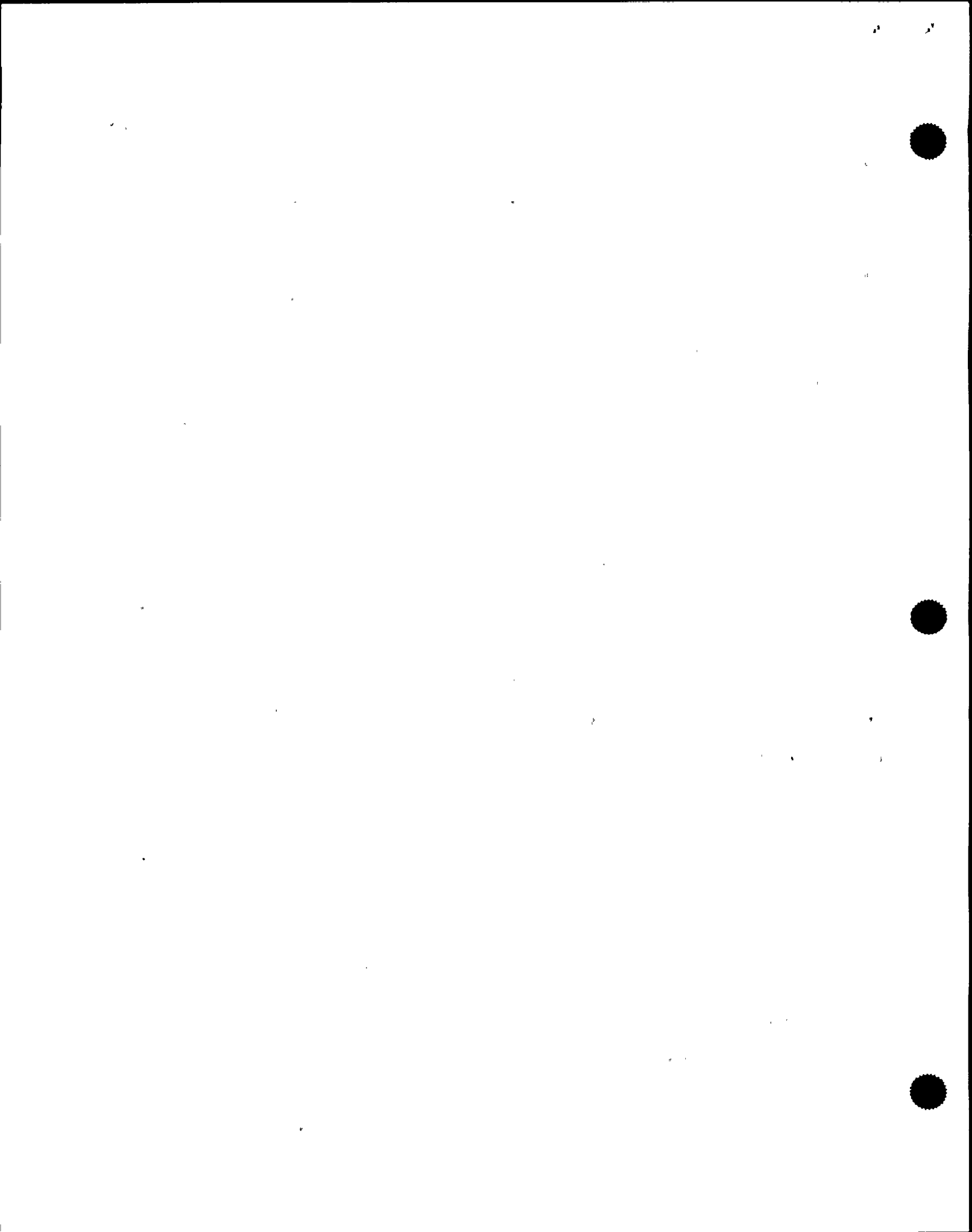
16 MR. JORDAN: The only question is that once you  
17 did the action associated with that, should there also be  
18 additional action on --

19 MR. WILSON: In accordance with the tech specs.

20 MR. JORDAN: To put in the half scram. Do you  
21 have any idea how long the bypasses were -- the bypass  
22 jumper was installed?

23 MR. WILSON: About an hour and a half is my  
24 recollection -- about an hour and a half.

25 MR. JORDAN: Any other tech spec --





1 MR. WILSON: No other tech spec issues.

2 MR. JORDAN: Okay. To continue on you were at the  
3 -- you said you were involved with the SRV's -- you showed -  
4 - you told Mike about the RPS bypass jumpers --

5 MR. WILSON: Yeah, I told Jerry about --

6 MR. JORDAN: I'm sorry, Jerry -- about the bypass  
7 jumpers.

8 MR. WILSON: At that time they were taking the  
9 jumpers out, so it didn't become --

10 MR. JORDAN: It was around 10 o'clock in the  
11 morning. Is this around ten also?

12 MR. WILSON: That? No. That was back at 8:30-  
13 ish.

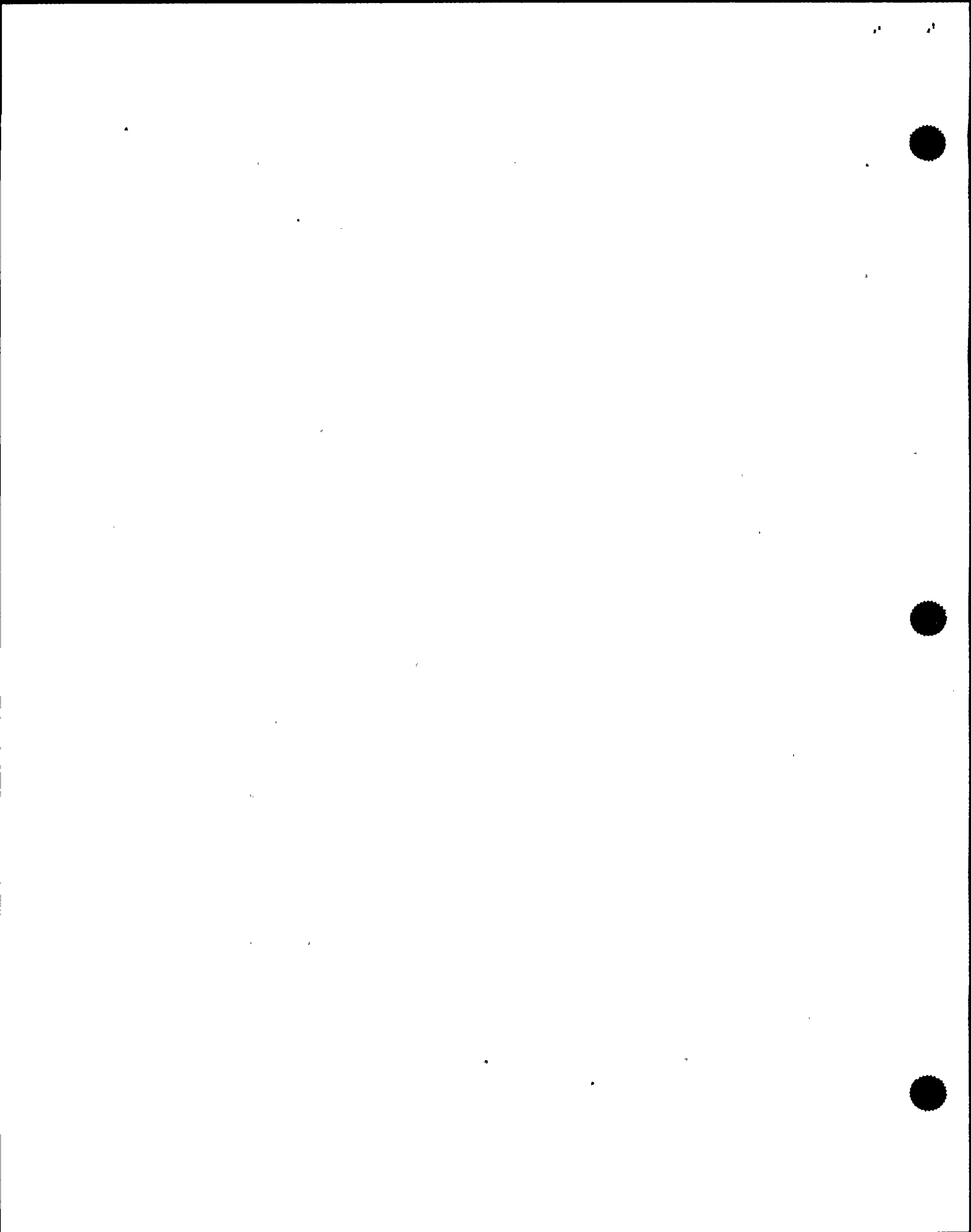
14 MR. JORDAN: Okay.

15 MR. WILSON: I would guess.

16 MR. JORDAN: Okay. Any other events of the day  
17 that you got involved with?

18 MR. WILSON: No. Basically from there it was  
19 making sure that operators were going to come in. You know,  
20 I called operators at home -- the next shift to make sure  
21 that they all had their access cards so that they could get  
22 on site; provided -- you know, interface to get them so that  
23 they could get access to the site so that they could come to  
24 work. It doesn't seem like a long day.

25 MR. JORDAN: Okay. And what time did you get



1 relieved?

2 MR. WILSON: I went home around six, 6:30.

3 MR. JORDAN: In the evening?

4 MR. WILSON: Yeah.

5 MR. JORDAN: You said you got permission from the  
6 SSS to walk down the panels?

7 MR. WILSON: Yeah, I believe so.

8 MR. JORDAN: Okay. When you walked down the  
9 panels did you notice anything abnormal? Abnormal  
10 conditions, things that --

11 MR. WILSON: The only thing that I saw that was  
12 abnormal was the division two hydrogen oxygen analyzer fan  
13 was off.

14 MR. JORDAN: Do you know what they did because of  
15 that?

16 MR. WILSON: I went back and told the SSS and he  
17 had one of the operators restart it.

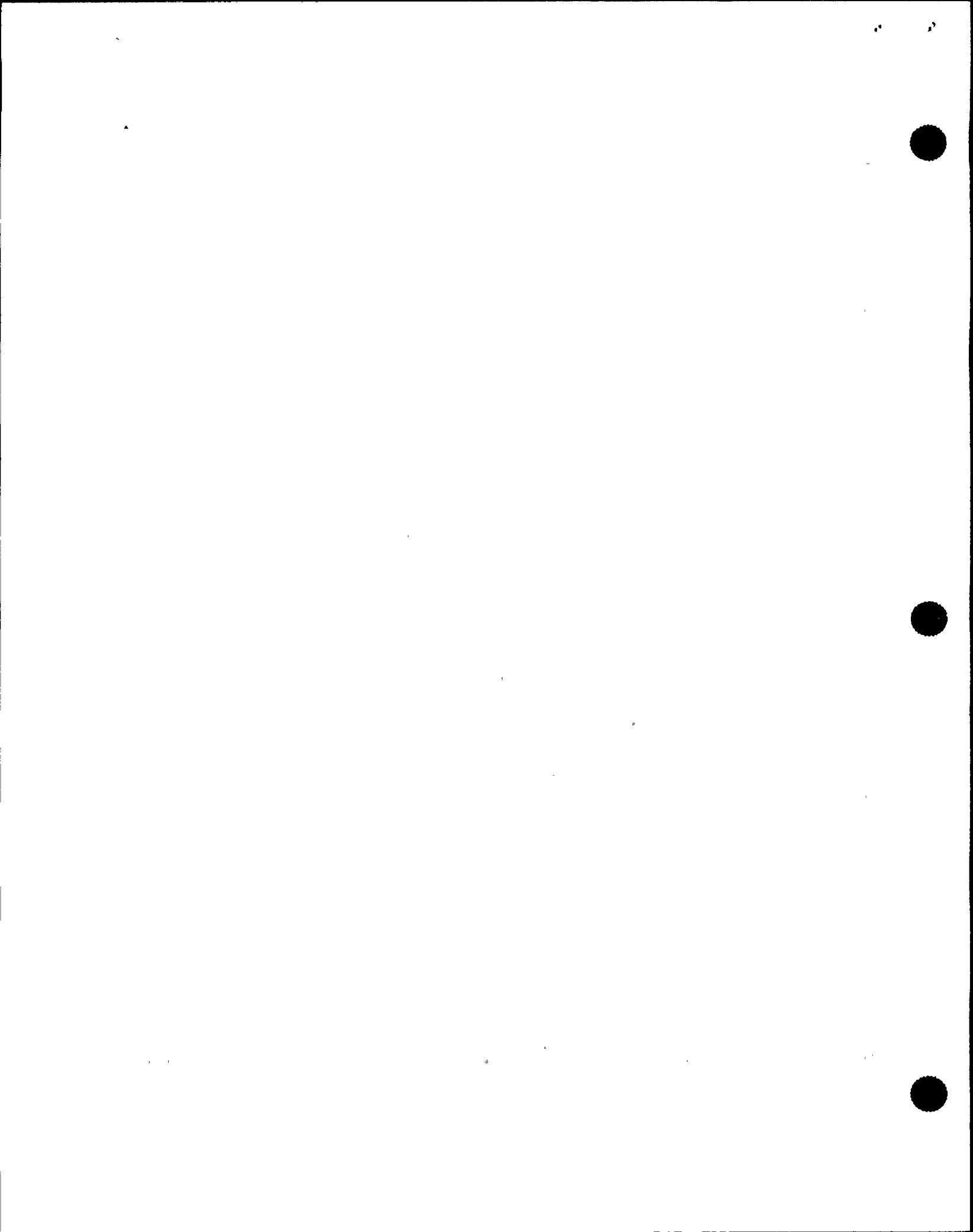
18 MR. JORDAN: Did they have any problem with  
19 restarting it?

20 MR. WILSON: Not that I know of.

21 MR. JORDAN: Do you have any idea why it was off?  
22 What trips that fan?

23 MR. WILSON: I don't know why it was off. The  
24 other side was on.

25 MR. JORDAN: Okay. You asked if you knew that the



1 turbine had tripped? What indications would you use to  
2 identify that the turbine was tripped? Is there an  
3 annunciator, turbine trip annunciator or is there a turning  
4 gear or is there --

5 MR. WILSON: The big quick one that you always  
6 look for is the turbine trip annunciator in the upper right  
7 hand corner of the first -- is it the first or second --  
8 annunciator window on panel 851.

9 MR. JORDAN: And that --

10 MR. WILSON: Well, that's where I would look. I  
11 wasn't there at the time, you know --

12 MR. JORDAN: Okay.

13 MR. WILSON: -- so, you know --

14 MR. JORDAN: That's what you normally use?

15 MR. WILSON: That's -- you know, that's the quick  
16 and easy one that you can see from a long ways away --  
17 otherwise, you know, you go over and you look at valve  
18 positions on the little meters over there; you know, you're  
19 looking at the turbine speed coasting down, you're looking  
20 at all the indications that you got over there for turbine  
21 trip.

22 MR. JORDAN: And none of that was available as far  
23 as you know?

24 MR. WILSON: I don't know. He didn't get into --  
25 I didn't get into real specifics as to what was available



1 and what was not available. I didn't want -- you know, it  
2 was not -- I didn't think it was appropriate for me to be  
3 grilling these guys as to what did they see, because I  
4 realized that everything was going to come out in the end.  
5 I'm still not sure what was available and what was not  
6 available.

7 MR. JORDAN: Any questions?

8 MR. KAUFFMAN: Yeah, I do. They're not really  
9 related to the event. You mentioned you're the training  
10 coordinator and you're also involved in procedure reviews?

11 MR. WILSON: I haven't done a lot of procedure  
12 reviews in the last month. But, yes.

13 MR. KAUFFMAN: I'd just like you to explain how  
14 those processes work and what your involvement is? I guess  
15 we can start with training coordinator.

16 MR. WILSON: The training coordinator job is a  
17 liaison between the training department and the operations  
18 department. I was chairman of the OTPAC committee which is  
19 the operations training program and advisory committee for a  
20 little bit over a year, when I was an on-shift SSS. When I  
21 came off-shift, I relinquished that position to another on-  
22 shift SSS; took the training coordinator position, or was  
23 assigned the training coordinator position. I was actually  
24 -- while I was a relief SSS I was doing the training  
25 coordinator position also.

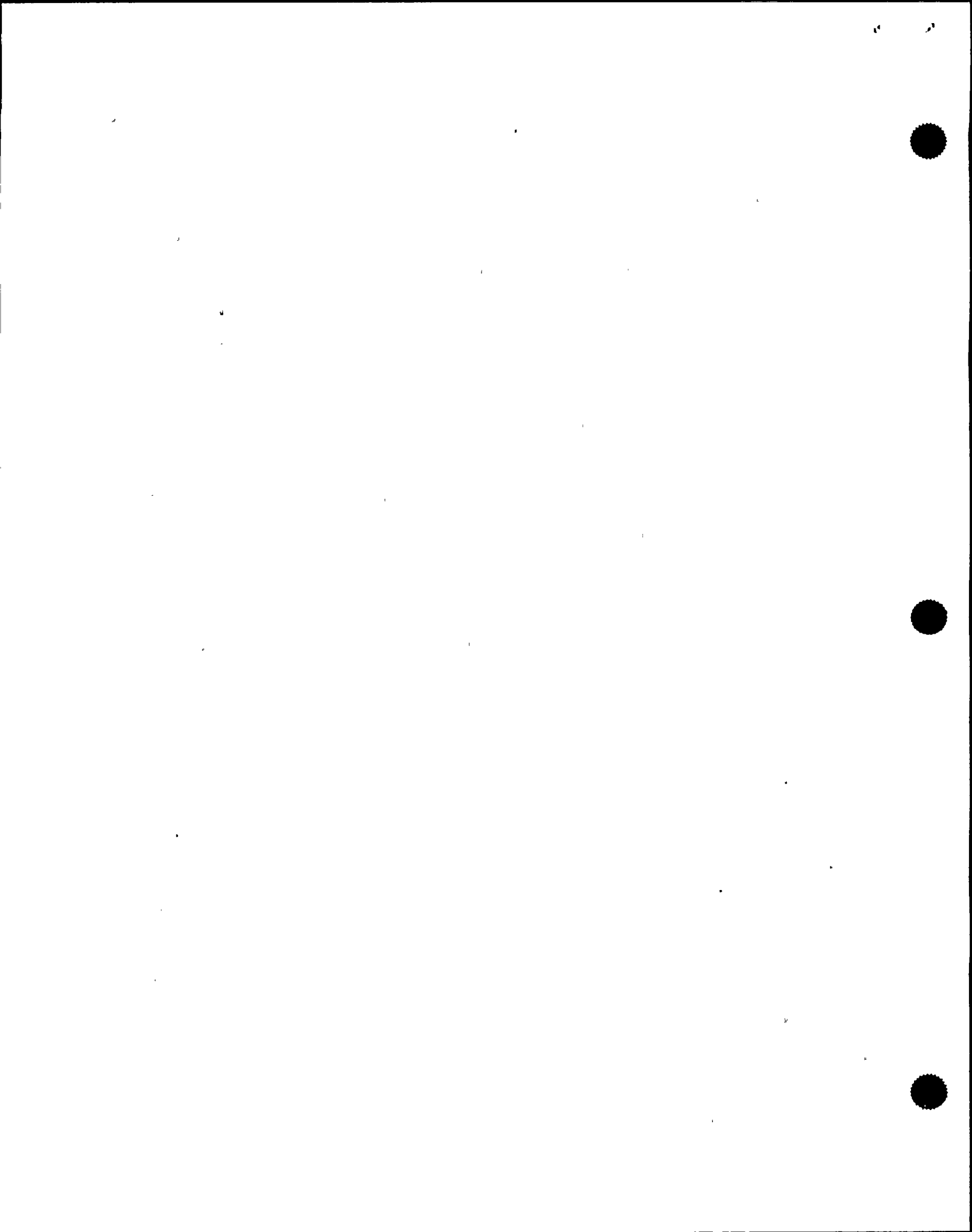
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1            Basically that entails working with the training  
2 department people reviewing lesson plans, providing  
3 interface from the operators. If they require or feel the  
4 need for additional training in any kind of areas, I help  
5 develop those kind of things. I don't develop the lesson  
6 plans, but, you know, like we might talk about optical  
7 isolators. Optical isolators to us are kind of -- to me are  
8 kind of magic, okay. And we have some guys I&C techs that  
9 are good at these things and we got -- I helped arrange  
10 getting these I&C techs to come over with a couple of --  
11 with a scope and a couple of optical isolators cards, analog  
12 digital cards and took them apart and showed the operators -  
13 - you know, I mean, like operators like to touch and play  
14 and feel and see what's going on here, you know. And you  
15 can't do that with these optical isolators in there, you  
16 know. So we had them in our hands and we could see what  
17 they were and how they worked and what was breaking with  
18 them and things like that.

19            I do a lot of scheduling for the operators. If  
20 they miss training we require operators to go to training  
21 with their training shifts -- well with their shifts during  
22 their training week. However, people have babies, get sick,  
23 so forth and so on and miss training. I make the necessary  
24 arrangements to get those people back over there to make up  
25 the training.



1 I do performance reviews with the -- in the  
2 simulator -- looking at the -- in the simulator. I'm  
3 chairman of the simulator configuration control board which  
4 evaluates changes to the simulator, modifications, upgrades  
5 for software. What else do we do over there? I don't know,  
6 a lot of different things. Work with -- when training has  
7 proposals as to how to upgrade the program, they'll talk  
8 through me to operations management. You know, it's very  
9 difficult to contact Mike or Jerry over here between the  
10 meetings and where they go between the control room and the  
11 -- and the SORC meetings or whatever, you know -- the  
12 planning -- daily planning meetings and such. I have a desk  
13 over here, I have a desk over there; I spend some of my time  
14 over there. I spend some of my time over here. So I can  
15 track them down and provide that interface between the  
16 groups and it's worked out pretty well. The training  
17 program is -- you know -- we --

18 MR. KAUFFMAN: It's had some problems, right?

19 MR. WILSON: We've had some problems. Okay.  
20 We've worked real hard to upgrade it and I don't know -- I  
21 feel and I think the operators as a whole feel that the  
22 program has improved a lot. Recently we've worked -- one of  
23 the things that we've done recently is changed around the  
24 simulator portion of training to provide more simulator  
25 training. We spend about half of our time, if not more, in

22



1 the simulator, as opposed to classroom lectures on EOP's.  
2 We do simulator working demonstration of EOP legs, you know,  
3 and then we like time out freeze the simulator if we're  
4 making a mistake or if the SSS is working through a  
5 particular leg and he gets confused and wants to day time  
6 out, I want to talk about this, you know, the operator can  
7 freeze the machine and then they talk about it and get the  
8 feel for it and then we drive -- you know, start it back up  
9 and pick up from where we were and so that's worked out real  
10 good.

11 Some of the systems -- we go back up into the  
12 simulator -- RHR, we've just started that. RHR has been a  
13 noted weakness for us and it's difficult with all the  
14 interlocks to sit in a classroom and hear the interlocks  
15 over and over and over again. You can only do that so many  
16 times. So, as opposed to that they've devised a short  
17 classroom lecture, system overview, and some of the  
18 operating procedure overview. Then we go up into the  
19 simulator and manipulate the interlocks. You know, hands-on  
20 is a whole lot better than the classroom. You can touch and  
21 feel and things like that.

22 MR. KAUFFMAN: Is that -- have you heard any fall  
23 out from this event where maybe training could be better?  
24 People want more training as a result of this event?

25 MR. WILSON: No. I haven't heard yet, because I



1 basically have been on midnights. I started midnights at  
2 the beginning of this week. It's -- this event I never  
3 could have -- never could have dreamed up this event; all  
4 five of the UPS's going away at once.

5           You know, we've trained on UPS's, we've had a  
6 special course on UPS's. It's always -- UPS's are somewhat  
7 difficult to train on and understand because they don't do  
8 anything. They just kind of sit there and hum. And very  
9 rarely do they, you know, break. I mean, we have failures  
10 on them, but the failures on them -- there's not much the  
11 operator can do. It's all solid-state stuff. You know,  
12 it's not like when pumps or relays or breakers happen. This  
13 is all solid-state stuff and it just changes and you kind of  
14 like go down there and verify what happened and bounce off  
15 the procedures and --

16           The UPS's -- they're difficult to operate. I know  
17 Bob Crandall fairly well. We worked as test engineers  
18 together. We started out together and he's always been  
19 interested in the UPS's and whenever I've had a problem with  
20 UPS's, had a question, I call Bob. You know, that's what we  
21 would do. There's not a lot of -- there's not a lot of in-  
22 depth guidance in the procedures. There's adequate  
23 procedures for operating them as they are, but you know, the  
24 transients that the machines go through, the trouble  
25 shooting that we can get into it's I&C. It's all I&C and





1 electrical people. I mean there's not much you can do  
2 besides call for help.

3 MR. JORDAN: Yeah.

4 MR. KAUFFMAN: So there will be something like a  
5 scram report that comes out and -- what, do you look at that  
6 and try to identify training?

7 MR. WILSON: Oh, yeah. Oh, we've already sent  
8 over a post-event survey from training, you know, we've got  
9 a program in place that as soon as an event -- noteworthy  
10 training -- you know, training noteworthy occurs, we sent  
11 over a post-event -- post-training -- I forget what the name  
12 of it is, scenario or summary, post-event summary, I think  
13 is what we call it. And we send it to all the operators and  
14 it's, write down what you saw, what you -- what was good  
15 training that you had for it, what was bad training, what  
16 you could -- what more could you want and we get all these  
17 things back and then we do a -- basically an evaluation on  
18 it, or the training department does an evaluation of it and  
19 then we look at that from there and make any additions to  
20 the training program that we can. We do that all the way --  
21 not only through the licenses, but all the way down through  
22 the non-LOTS and everybody that was involved in it.

23 MR. KAUFFMAN: Okay. Now, you also mentioned  
24 you're involved in procedure review and that the station was  
25 undergoing a procedure rewrite, could you explain the



1 history of that and why you're doing the rewrite and how  
2 you're involved in procedure reviews.

3 MR. WILSON: Well, currently not very much. I'm a  
4 qualified technical reviewer. I will have been -- you know,  
5 when I was an SSS, all the SSS's are assigned systems that  
6 they're quote system experts on. By the nature of the  
7 license and maintaining an active and current license,  
8 you're an expert on all the systems. I mean that's what you  
9 are when you're an SRO or an RO for that matter. But, the  
10 operations support department has been tasked with writing -  
11 - upgrading the operating procedures and the operating  
12 surveillance procedures to the site writer's guide which has  
13 been newly developed. It's gone through several evolutions,  
14 I guess.

15 We had several contractors working for us doing  
16 this and they were let go earlier this year and the task of  
17 rewriting the procedures was delineated to us in the  
18 operations support department. Basically there is a --  
19 there's a couple of people, Jim Poindexter and he is an ex-  
20 SSS -- no, he is an SSS now, still. That's right, he is  
21 still an SSS. He was working -- he worked in the training  
22 department as a -- temporarily, he was the training  
23 supervisor over there for Unit Two. He's doing a lot of the  
24 rewrite of the procedures. He's doing all the rewrite of  
25 the procedures now. He has basically taken that function



1 and going with it.

2 I have, in the past, reviewed procedures that were  
3 draft procedures that were written up for technical content,  
4 surveillances, operating procedures, and made comments and,  
5 you know, worked them through the process and got them  
6 published. I have not taken one myself, yet, and had to  
7 work through it because we're coming up to a -- because of  
8 the things that I've been doing with the training department  
9 basically. My time is full and I don't -- I have not had  
10 time to do it.

11 MR. KAUFFMAN: Okay. Say I was a licensed  
12 operator during this event and you -- you got into several  
13 areas of EOP's and different procedures that you maybe don't  
14 routinely do and I use the procedure and got through the  
15 event, but when I was done, I say to myself, you know, that  
16 procedure really wasn't very good or helpful there. It  
17 needs to be changed. What would I do and it would it be up  
18 to me to put in a procedure or change request or would I  
19 just flag it to somebody and say please look at this? How  
20 would that input get into the system and be taken care of?

21 MR. WILSON: We have a procedure change evaluation  
22 form, PCE, that can be initiated by anyone. Depending on  
23 the magnitude, I suppose, of it, it could be the supervisor  
24 and I have initiated them for reactor operators and I have  
25 had reactor operators initiate them themselves. Then they



1 will come to -- they basically come to the first-line  
2 supervisors to the -- or to the RPO, the procedure owner and  
3 he evaluates it for --

4 MR. KAUFFMAN: What does RPO stand for?

5 MR. WILSON: Responsible procedure owner.

6 MR. KAUFFMAN: Okay. We have to take the tapes  
7 back and try and figure out what the abbreviations mean.

8 MR. WILSON: Okay.

9 MR. KAUFFMAN: So that's why I asked.

10 MR. WILSON: It's in accordance with AP-2, AP-2.0  
11 and AP-2.1 and AP-2.2.

12 The procedures -- the RPO can then decide whether  
13 it should be an immediate change or a future change and  
14 there is two sections of the PCE form. If it's a --  
15 determined to be a future change, it's not relevant for an  
16 immediate change, they don't need to do an immediate change,  
17 it's sent down to the operations support department and  
18 basically I guess it's put into the system file. Jimmy is  
19 maintaining that file for the procedure upgrade for the next  
20 revision so that when the procedure comes out it's a good or  
21 better procedure, you know.

22 MR. JORDAN: Okay.

23 MR. KAUFFMAN: Okay. Are you aware of any  
24 procedures that as a result of this event that were found  
25 needing changes or improvements?





1 MR. WILSON: I heard that OP-71 might need some  
2 changes or they're going to look at the --

3 MR. KAUFFMAN: That's a procedure for -- what's  
4 that for?

5 MR. WILSON: I'm sorry. That's right. I forget  
6 we're talking on a tape here. That's the operating  
7 procedure for normal AC distribution and that has the  
8 operation of the UPS's in it and I haven't looked at it yet,  
9 but I understand that there is some upgrade to that  
10 procedure to make it more user friendly so as to manipulate  
11 the UPS's in the situation, I guess, that we found them in.

12 MR. KAUFFMAN: Okay. Just one last follow-up  
13 question that relates to -- there are some questions about  
14 when in EOP's, do tech specs apply, not apply, is there some  
15 mechanism for resolving that? For example, some plants have  
16 licensing do something called a tech spec interpretation.

17 MR. WILSON: We have tech spec interpretation,  
18 but we do not have one specifically on this. I brought it  
19 up to Jerry and he believes that it's covered in the safety  
20 review for the -- for the EOP's. It was documented and  
21 they're going to put that in on their deviation DER --  
22 deviation event report to make sure that that gets  
23 clarified. That's one of the items that I've got kind of  
24 tucked away that I need to get that clarified to make sure  
25 that that gets into the training program. We do a lot of



1 these things in training. You know, I mean, we do EOP  
2 attachments where we bypass RSCS, we do these things as a  
3 matter of course in training, but when it comes down to the  
4 real thing, all of a sudden there's a lot more things that  
5 go through your head. This is real. I've got to do this  
6 and this and this. For whatever reason, you know, and those  
7 questions all of a sudden they are very obvious questions  
8 and I'm flabbergasted that we don't think about those  
9 things earlier on.

10 MR. KAUFFMAN: That seems like it's something you  
11 can talk out in your time outs and --

12 MR. WILSON: Yeah, you know. But it is something  
13 that, I guess -- well, we never -- it never came up, you  
14 know. Do we take these tech spec actions? What are the  
15 tech -- you know it just -- so that's one of the questions  
16 that I've got to be resolved and to make sure that that is  
17 disseminated through the ranks.

18 MR. JORDAN: In a normal scram, how many SRV's  
19 normally lift?

20 MR. WILSON: What's a normal scram?

21 MR. JORDAN: 100 percent power, 120 days, 125-130  
22 days?

23 MR. WILSON: No reject, level transient, APRM's,  
24 what kind -- are you talking this particular --

25 MR. JORDAN: Similar to what we had here. How



1 many would you expect to lift?

2 MR. WILSON: On a load to reject, I would -- I  
3 guess I would expect a significant pressure increase and I  
4 would look to see indications of whether or not I had had an  
5 SRV lift. However, there was not a lot of indications of  
6 what they actually -- kind of a transient that they had had  
7 until they got people in here. We started looking at  
8 different things and asking a lot of these questions. My  
9 personal feeling is that we missed it, but then we did  
10 identify it. We would not have missed it had we had the  
11 annunciators and we would have -- you know, if you're  
12 talking about the tech spec violation, no doubt in my mind  
13 that we would have taken the appropriate actions had we  
14 known that the SRV's had opened.

15 We don't do many real load reject scrams at full  
16 power. I'm trying to think -- we did the -- I was there for  
17 the load reject at -- during the start-up and I don't  
18 remember if we had SRV's lift or not.

19 MR. JORDAN: Did you train on it? Do you know if  
20 you ever got training on it? What to look for if you get a  
21 load reject?

22 MR. WILSON: We do load reject scenarios in  
23 training.

24 MR. JORDAN: Scenarios.

25 MR. WILSON: We do load reject training scenarios.



1 We do them with ATWS's, we do them without ATWS's. You  
2 know, we do them -- do we train to look for them? No, we  
3 don't train to look for them, we train to see what the  
4 indications are, you know. If you were doing a training  
5 scenario on a load reject, basically, you know, you would  
6 get the load reject, the operators would respond to the  
7 panels, respond to the annunciators, they would see the  
8 annunciator up here, it looks like we had a couple of SRV's  
9 open; if it's an ATWS it will stay open. If it's not an  
10 ATWS, even by the time the guy gets over there, you know,  
11 the valves are going to be closed, but the guy is going to  
12 say, hey, we had SRV's lift. Okay. Let's make sure that we  
13 get suppression pool cooling going. You know, what are the  
14 temperatures in the suppression pool? Where is pressure  
15 going now? Pressure has come back down. It's stabilized at  
16 960, you know, the bypass valves have got pressure under  
17 control. Those kind of things, you know, they're  
18 reactionary kind of things that we do based on indications.  
19 You see it, you go, you know, you kind of like follow it  
20 through. It must have been very different when there was  
21 nothing there. You know.

22 MR. JORDAN: Yeah. You're right.

23 MR. WILSON: And you know, Mike -- I personally  
24 think Mike did an extraordinary job. I think he did real  
25 well. I worked with Mike on shift for -- he was an E on my





1 shift and he's a good operator. I worked with all these  
2 guys and they did -- I think they did a good job. They kept  
3 the plant under control, they took the actions.

4 The classification of the event was correct, it  
5 was timely. It must have been different. I'll tell you  
6 what, man, I just can't imagine, you know. You know, we all  
7 have our -- I -- we all have our personal worst scenarios,  
8 you know, and I don't like the total loss of off-site power,  
9 but the total loss of indication that's a different one.

10 MR. KAUFFMAN: For the record, it wasn't a total  
11 loss, they still had some of their safety related --

12 MR. WILSON: Well, that's true. They had the  
13 PAM's and they had the things coming off the UPS. You're  
14 right.

15 MR. JORDAN: I've got one -- two last questions.  
16 And this is the -- we give everybody the opportunity to give  
17 the good news, bad news and the way I define that is, the  
18 activities that you did while you were there, is there  
19 something that you had in your hands or in your back pocket,  
20 something that was available to you, even training can be  
21 one, that you say, gee, thank God I had that, because that  
22 helped me accomplish what my tasks were.

23 And the opposite of that would be is -- gee, I  
24 wish I would have had this because it would have made my  
25 task easier. Excluding the UPS's. You know, UPS's would



1 have been nice. But you know -- and I'll give you a classic  
2 example as the guy that goes out in the plant and says, gee,  
3 thank God that wrench was hanging on that valve because I  
4 needed that wrench to operate that valve. And the contrary  
5 to that would be the guy goes out there and says, gee, we've  
6 got to have a wrench hanging on that valve because when he  
7 got out there no wrench was there and I had to go get a  
8 wrench and why don't we stage a wrench there.

9 MR. WILSON: Right.

10 MR. JORDAN: Was there anything that -- and the  
11 answer to the question may be nothing, but was there  
12 anything that you can say to yourself, gee, thank God I had  
13 this in my hand or this available to me because I used it  
14 and it worked well for me and I want to say, thank God I had  
15 that, you know, so I can tell the rest of the industry that,  
16 gee maybe you guys ought to -- maybe you don't have this, it  
17 worked well here, you used it well and it came out good.

18 MR. WILSON: I can't answer that question because  
19 I wasn't there during the transient and then from where --  
20 when I got there it was a normal plant -- semi-normal plant  
21 shutdown.

22 MR. JORDAN: That may be the answer to the  
23 question, there was nothing abnormally strong that you said  
24 that you had as a result of the way --

25 MR. WILSON: From where I was, no, because I



1 didn't have any supervisory -- I wasn't -- I didn't have any  
2 direct function in the evolutions above and beyond  
3 experience and trying to help divert the -- help the SSS.

4 MR. JORDAN: Vice versa, there's nothing that you  
5 say, gee, I wish we would have this available for us next  
6 the next time around if we have this thing; and what you  
7 saw, the events that you took care of?

8 MR. WILSON: No.

9 MR. JORDAN: Okay. I don't have any more  
10 questions.

11 MR. KAUFFMAN: Nor do I.

12 MR. JORDAN: I guess we can go off the record.

13 [Whereupon, at 8:20 a.m., the taking of the  
14 interview was concluded.]

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REPORTER'S CERTIFICATE

This is to certify that the attached proceedings before the United States Nuclear Regulatory Commission

In the Matter of:

NAME OF PROCEEDING: Interview of Dave Wilson

DOCKET NUMBER: (Not applicable)

PLACE OF PROCEEDING: Scriba, New York

were held as herein appears, and that this is the original transcript thereof for the file of the United States Nuclear Regulatory Commission taken by me and thereafter reduced to typewriting by me or under the direction of the court reporting company, and that the transcript is a true and accurate record of the foregoing proceedings.



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Mark Handy  
Official Reporter  
Ann Riley & Associates, Ltd.

