

# OFFICIAL TRANSCRIPT OF PROCEEDINGS

**Agency:** Nuclear Regulatory Commission  
Incident Investigation Team

**Title:** Nine Mile Point Nuclear Power Plant  
Interview of: DAVE BARRETT

**Docket No.**

**LOCATION:** Scriba, New York

**DATE:** Tuesday, August 20, 1991

**PAGES:** 1 - 11

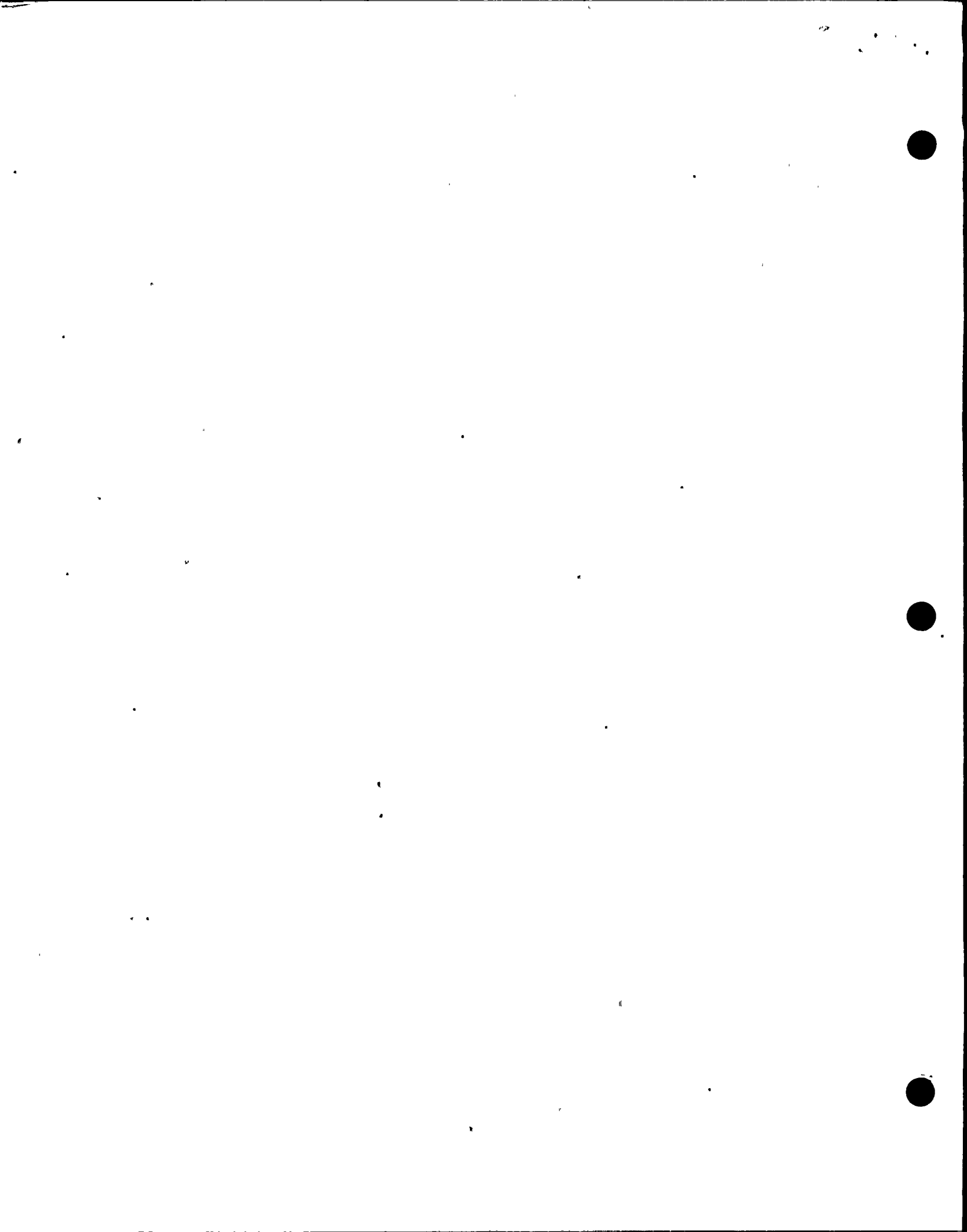
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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406

September 27, 1991

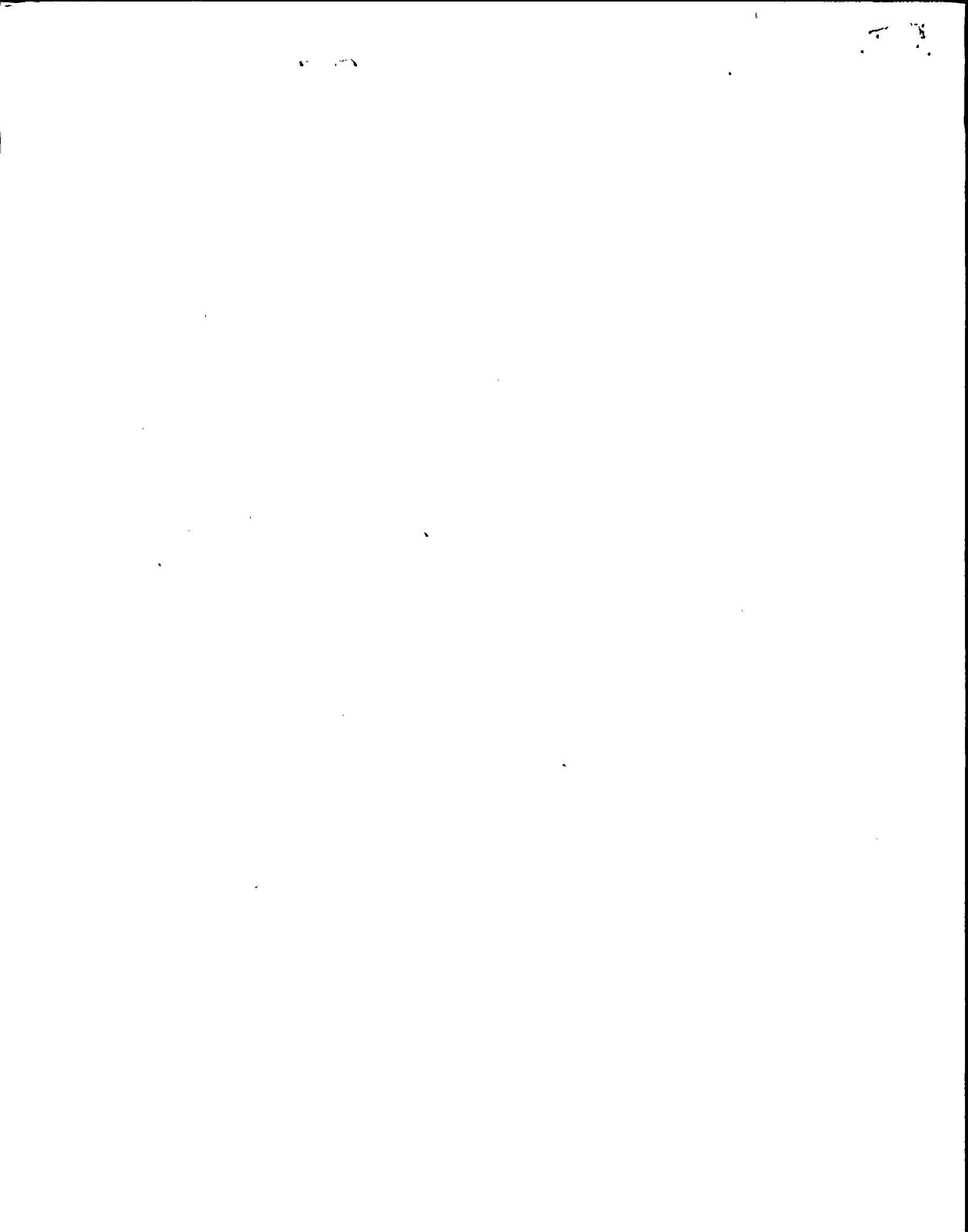
MEMORANDUM FOR: Martin J. McCormick, Plant Manager, Nine Mile Point Unit 2  
FROM: Wayne L. Schmidt, Senior Resident Inspector, Nine Mile Point  
SUBJECT: Review of IIT Interview Transcripts

The IIT has sent the transcripts of interviews conducted with the personnel listed below to the resident inspector's office. If any of the listed individuals wish to review the transcripts they should do so at the resident inspector's office by October 4, 1991. Guidelines for the review of transcripts are provided in the enclosure. If an individual does not review his transcript by that date we will assume that he did not wish to do so and that the statement is correct to the best of his knowledge.

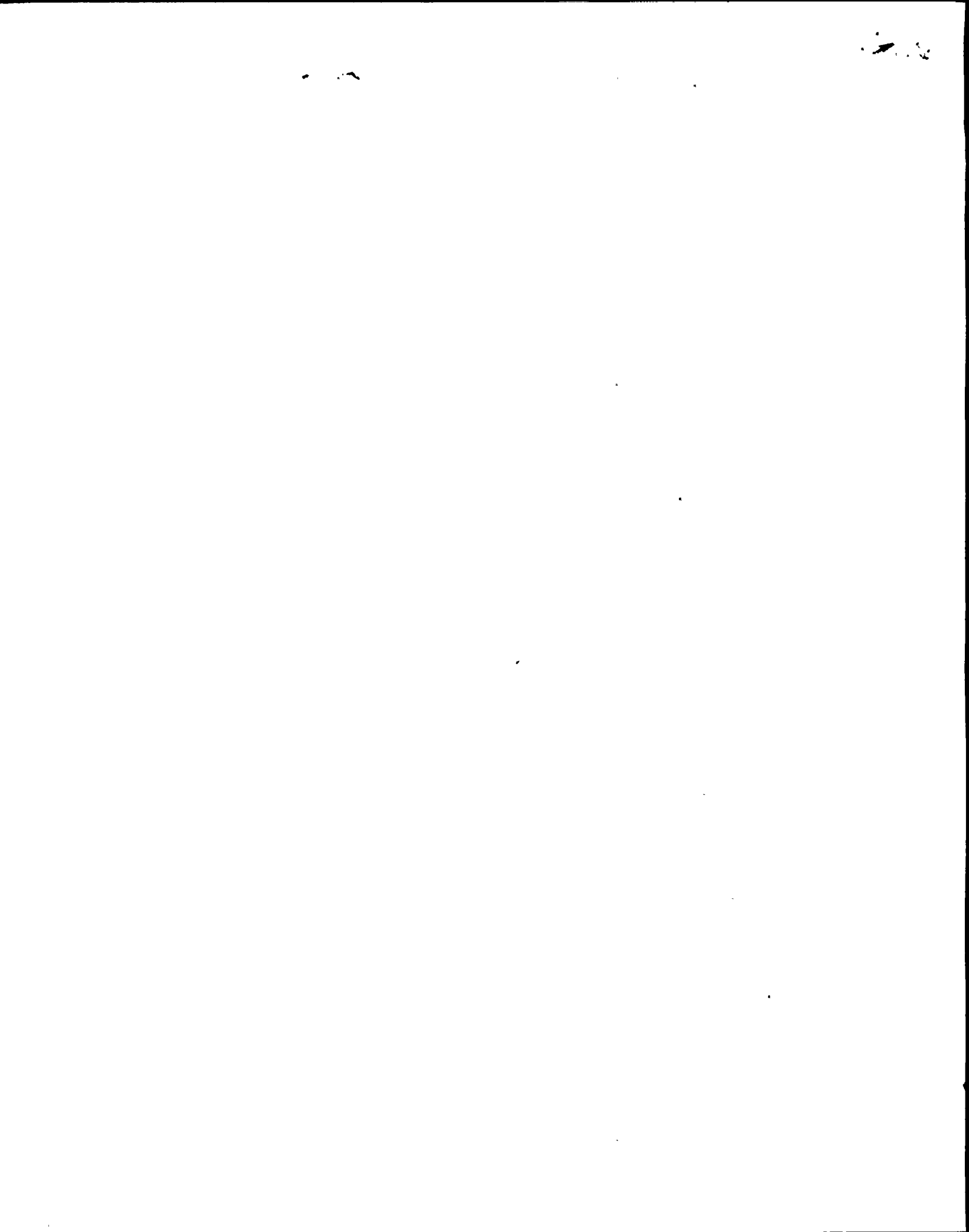
Alan DeGarcia, Steve Doty, Dave Barrett, Jerry Helker, Jim Burr, Bob Crandall, Robert Brown, Anil Julka, Perry Bertsch, James Spadafore, Joe Savoca, Mike Colomb, James Kinsley, Marty McCormick, Chris Kolod, Irineo Ferrer, Fred Gerardine, Anthony Petrelli, Jim Reid, Fred White, Rick Slade, Bruce Hennigan, and Tom Tomlinson.

Thank you for your help. If there are any questions please contact me.

*Wayne L. Schmidt*  
Wayne L. Schmidt  
Senior Resident Inspector  
Nine Mile Point







UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION  
INCIDENT INVESTIGATION TEAM

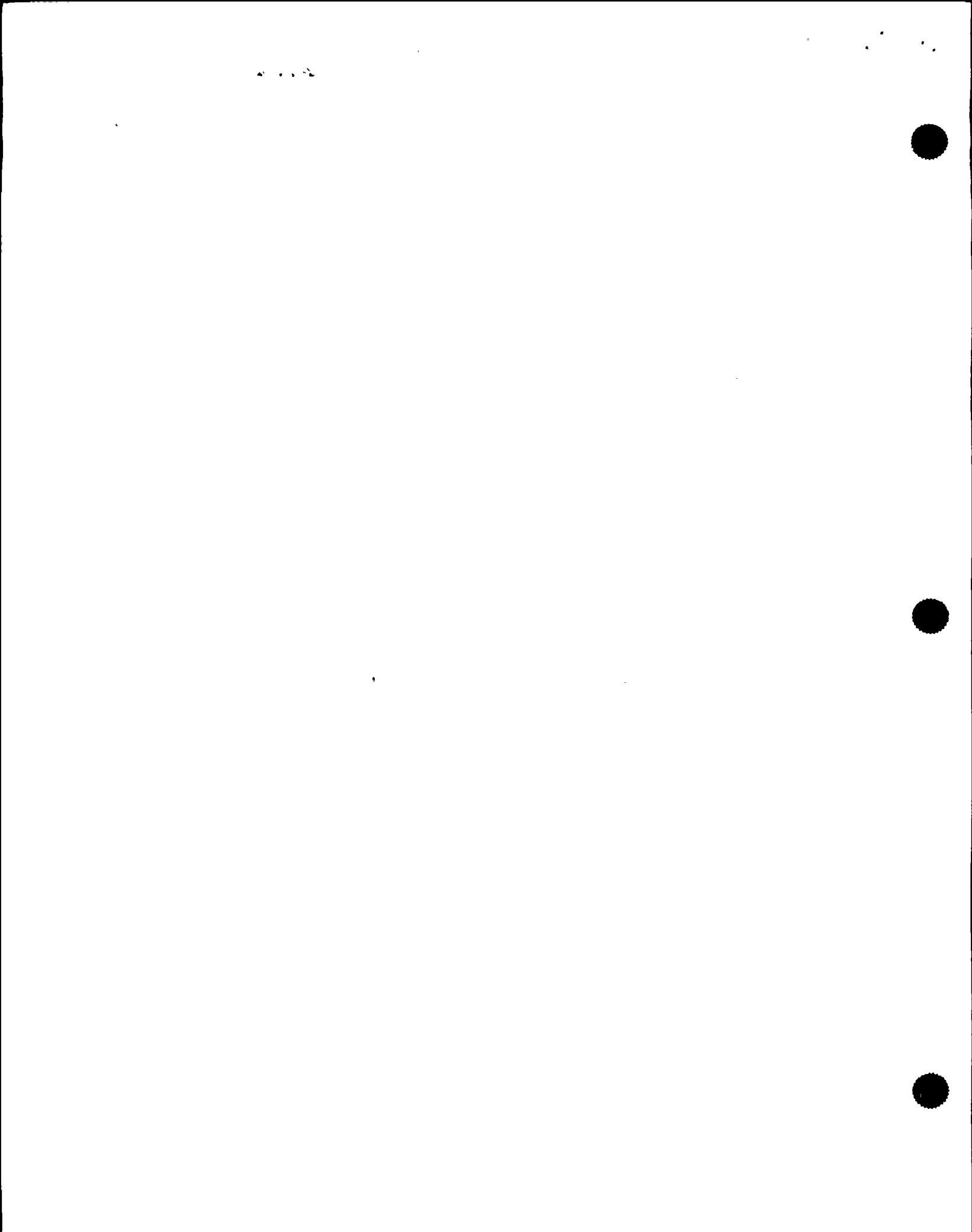
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Interview of :  
DAVE BARRETT :  
(Closed) :  
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Conference Room A  
Administration Building  
Nine Mile Point Nuclear  
Power Plant, Unit Two  
Lake Road  
Scriba, New York 13093  
Tuesday, August 20, 1991

The interview commenced, pursuant to notice,  
at 3:09 p.m.

PRESENT FOR THE IIT:  
Jose Ibarra, NRC  
Frank Ashe, NRC





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

[3:09 p.m.]

1  
2  
3 MR. IBARRA: I'm Jose Ibarra from the NRC and I'm  
4 a member of the IIT. And we have Dave Barrett from Niagara  
5 Mohawk and Frank Ashe, also another team member from the  
6 IIT.

7 Dave, if we can get started by stating your name,  
8 your position and your experience with the company, please.

9 MR. BARRETT: My name is Dave Barrett and I work  
10 electrical maintenance reporting to Steve Doty and I have 14  
11 years with Niagara Mohawk. One year as an operations down  
12 at the steam plant and 13 years as electrician. I'm a  
13 chief electrician at the present time.

14 MR. IBARRA: Dave, at the start of this incident,  
15 what were you tasked to do and can you describe your -- the  
16 work that you did after the event?

17 MR. BARRETT: At the beginning of the event I was  
18 off site, so at a point in time where we could get on site,  
19 we reported to the OSC and we were -- I was part of a damage  
20 control team, but never went out that day.

21 MR. IBARRA: Okay. As far as any maintenance or  
22 whatever tasks you were involved with, the equipment -- any  
23 time after the event, can you explain to us what you did do?  
24 Any surveillance, any testing?

25 MR. BARRETT: After the event?



1 MR. IBARRA: After the event, yes.

2 MR. BARRETT: Actually none.

3 MR. IBARRA: In other words -- okay. Have you  
4 done any meggering, any electrical testing on the  
5 transformer that went bad?

6 MR. BARRETT: No, I haven't.

7 MR. IBARRA: Okay. Are you involved with the daily  
8 surveillance of those unit?

9 MR. BARRETT: We do the weekly yard, you know, PM.  
10 It's assigned to one form and each week they just have their  
11 own, you know whoever personnel are and our crew, we just  
12 assign them to do it.

13 MR. IBARRA: Okay, can you tell me what's involved  
14 with that?

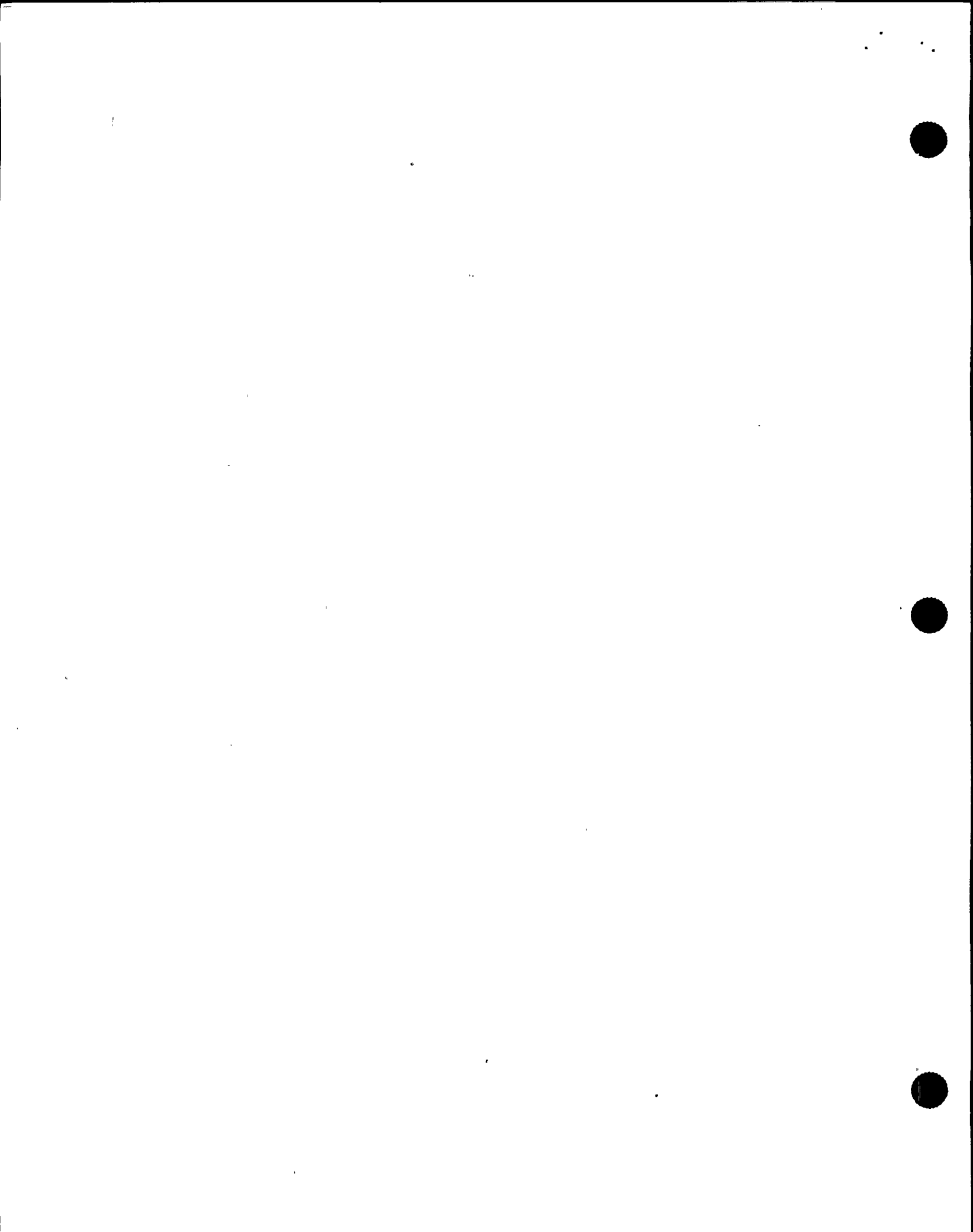
15 MR. BARRETT: They take readings on all the  
16 transformers as far as levels, temperatures, pressures, as  
17 far as what equipment is operating on the equipment, you  
18 know, like fans or pumps. They do a yard inspection as far  
19 as the breakers, PT's, CT's, visual inspections on the bus,  
20 visual inspection is basically the whole yard.

21 MR. IBARRA: Do you have a procedure that you  
22 follow for this?

23 MR. BARRETT: Yes, we do.

24 MR. IBARRA: Is it one?

25 MR. BARRETT: Yes, there's one. It's an N2-EPM-



1 D690 procedure. Yeah, it's weekly yard readings.

2 MR. IBARRA: Okay. Are you involved at all with  
3 the oil sampling?

4 MR. BARRETT: If it gets assigned to you. It's a  
5 -- you know, it comes up, I'm not really sure, maybe  
6 quarterly and it's just assigned to a foreman and they just  
7 -- they go out and take transformer oil samples for all the  
8 transformers out in the yard.

9 MR. IBARRA: Okay. Are you involved with any of  
10 the repairs on the ops that went down?

11 MR. BARRETT: Not at this time. No, nothing.

12 MR. IBARRA: Have you ever worked on those?

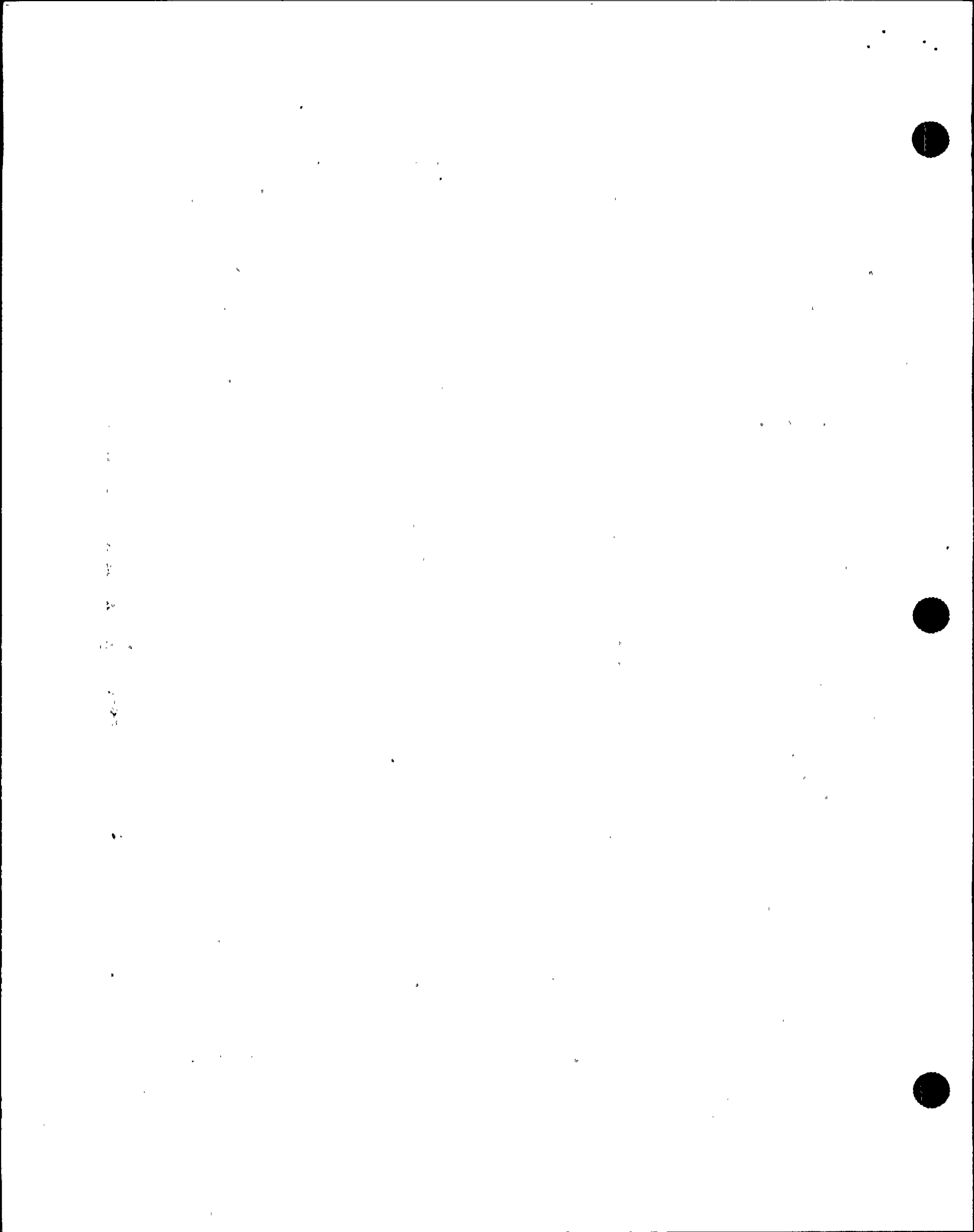
13 MR. BARRETT: Yes.

14 MR. IBARRA: Okay. What type of mechanism do you  
15 use, work order or --

16 MR. BARRETT: We usually work right under a DWR or  
17 a WR and usually work in conjunction with I&C and just  
18 support them as needed.

19 MR. IBARRA: Do you recall what type of problems  
20 you have corrected -- corrective maintenance in other  
21 words?

22 MR. BARRETT: As far as corrective maintenance  
23 would be we have changed the motor operators for like the  
24 maintenance supply breakers. We've worked on the SCR legs,  
25 recreating the SCR's. Changed fans -- the cooling fans for



1 either the legs or the cabinet coolers. Done some trouble  
2 shooting on some electrical malfunctions. You know, fuse  
3 replacement. Usually we do the -- you know, the mechanical  
4 end of it. As far as breakers and actually hard -- you  
5 know, wire equipment and stuff like that.

6 MR. IBARRA: When you do some of this work,  
7 especially on the UPS, do you all follow procedures and how  
8 is that done? Do you just take orders from somebody  
9 verbally?

10 MR. BARRETT: Yes. There's no, you know, on the  
11 -- you know like the DIVs, or the CAT-2, you know, UPS's,  
12 there's no real procedures.

13 MR. IBARRA: Right. Those are not safety related,  
14 but as far as how do you take the instructions? I mean who  
15 provides --

16 MR. BARRETT: Right from the I&C tech. You know,  
17 because he is more knowledgeable. It's basically their  
18 equipment.

19 MR. IBARRA: You're assisting them in other  
20 words?

21 MR. BARRETT: We're assisting them. We're usually  
22 the support on the WR, you know support copy and the lead  
23 copy would go to the I&C department.

24 MR. IBARRA: Okay. As far as the daily checks on  
25 the transformers, finding out that the fans are running or





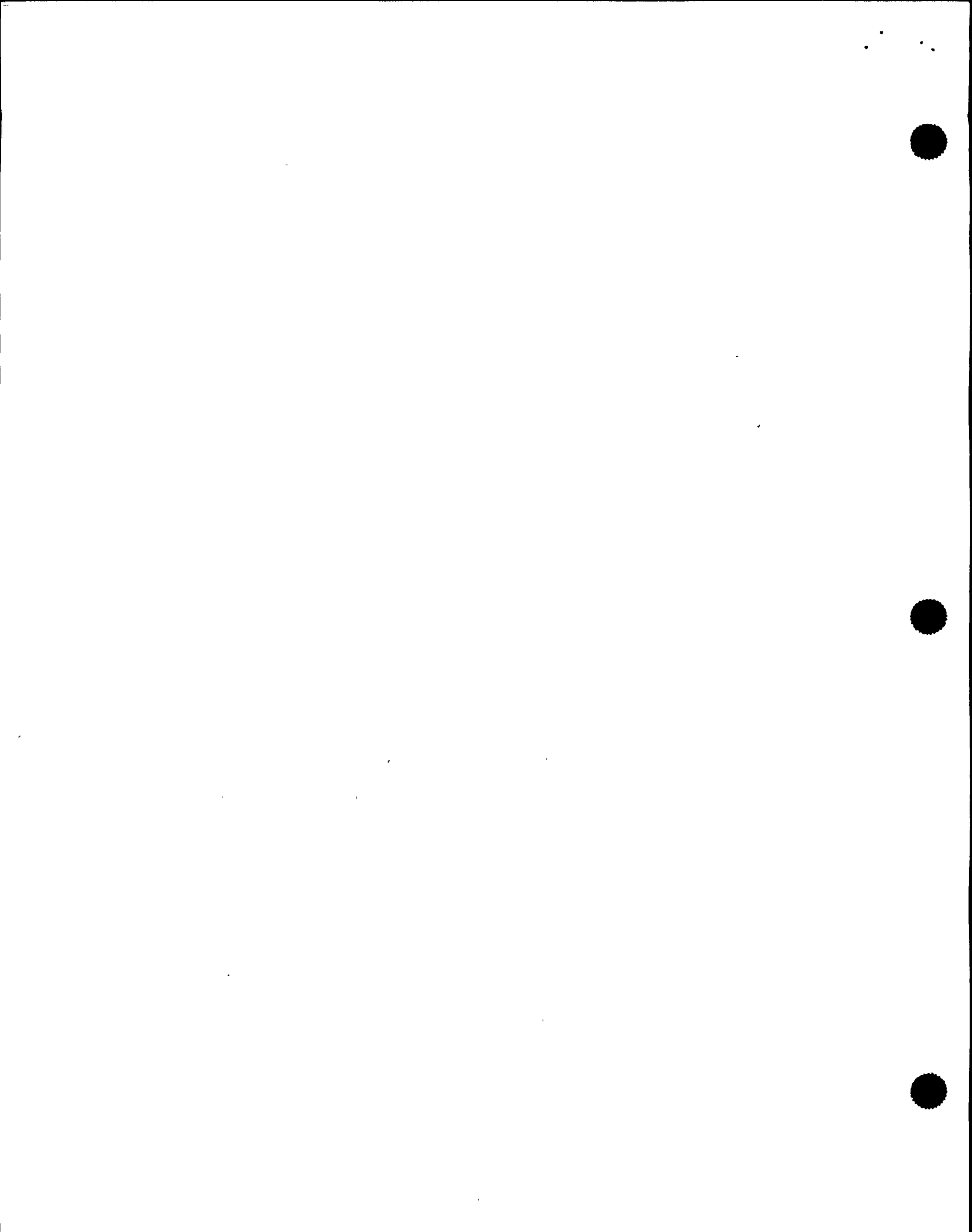
1 whatever other basal checks, do you all have anything to do  
2 with that or is that operations? Who does that, basal  
3 checks?

4 MR. BARRETT: We do, you know, a daily and we do a  
5 -- every -- seven days a week we do the transformer and  
6 switch yard checks and then OPS does some type of check.  
7 You know, I don't know what they do, on, I believe every  
8 shift. They go out in the yard and look at -- well,  
9 whatever parameters they look at, I don't know. I know they  
10 do go out in the yard.

11 MR. IBARRA: Okay.

12 MR. ASHE: Prior to this event, do you recall any  
13 specific anomalies with the main transformer, the electrical  
14 distribution system within your area of maintenance  
15 activities?

16 MR. BARRETT: Only -- I haven't, because I haven't  
17 done the yard readings. Just, you know, word passed around  
18 in the shop as far as the higher temperature on B  
19 transformer, you know, through doing the R readings, they  
20 said it was running higher than A or C. That's really the  
21 only thing. I knew there was a CT that had -- out in the  
22 yard that had moisture -- a little bit of moisture in it.  
23 And the moisture indicator was showing a little bit of red  
24 and besides that nothing. You know, I haven't been involved  
25 in it.



1           MR. IBARRA: Do you recall what timeframe they  
2 were talking about?

3           MR. BARRETT: probably -- you know, the weeks -- a  
4 couple of weeks preceding.

5           MR. IBARRA: Previous?

6           MR. BARRETT: Yeah. Previous.

7           MR. IBARRA: Okay. Okay, any other maintenance  
8 that you can think of that you do that are related to the  
9 UPS unit that failed or to any of the transformers in all  
10 three phases?

11          MR. BARRETT: Previous to the accident?

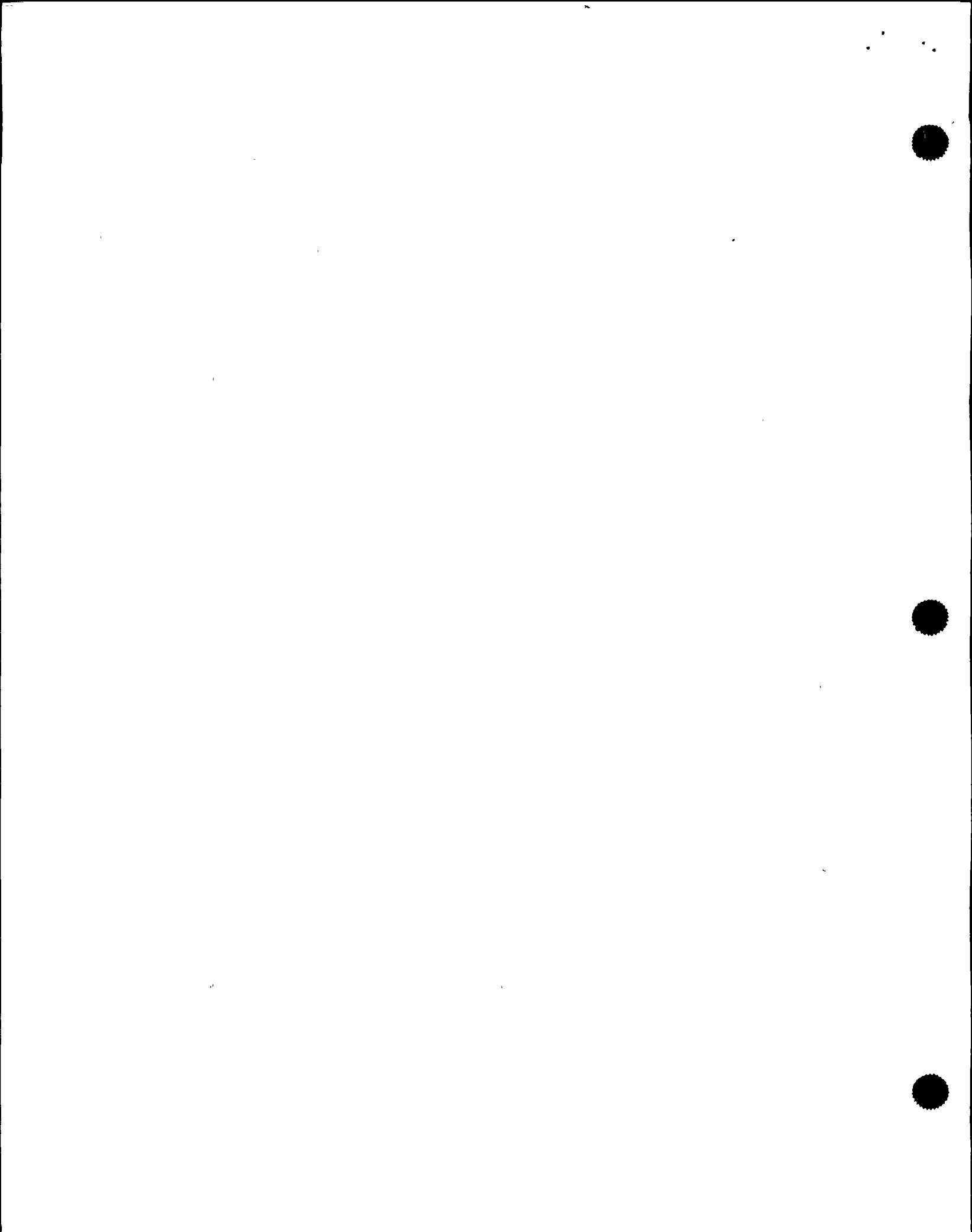
12          MR. IBARRA: No. That you routinely cover?

13          MR. BARRETT: Nothing really routine. As I say,  
14 usually if there is WR's and they need electrical support,  
15 you know, a lot of times if I'm available I'll work on it,  
16 but you know, there's nothing really routine like in a  
17 weekly type of thing that we do on the UPS's.

18          MR. IBARRA: Okay.

19          MR. BARRETT: There is -- like I say, they have  
20 procedures; there's like a quarterly. Quarterly rounds I  
21 just got done doing that not too long ago. That's where you  
22 just kind of look at the lights, and you know, check the  
23 screens for the cooling screens and stuff like that, but  
24 that's nothing really major.

25          MR. IBARRA: On the oil analysis, if you were



1 involved in that, what would be your role in it?

2 MR. BARRETT: Basically just taking the sample.  
3 All you do is you just need to get the -- they would hand  
4 you the bottles and the sampling tubes and stuff like that  
5 and you would just, you know, go out there and take the  
6 sample; and just fill out all the procedure and the forms  
7 that they send to Seventh North. That's where they do their  
8 oil analysis and just send it out to them. Then they send  
9 it back and then you record all the data that they found in  
10 the procedure and you close the procedure out.

11 MR. IBARRA: How long does it take for that  
12 analysis to come back?

13 MR. BARRETT: I'm going to say probably a couple  
14 of weeks before you get the -- you know, all the stuff back  
15 for Seventh North.

16 MR. IBARRA: Is it your group still responsible  
17 for sending it out there and getting it back?

18 MR. BARRETT: Yep. Yep.

19 MR. IBARRA: Did they keep track of what's out  
20 there and what's coming back?

21 MR. BARRETT: Um hm.

22 MR. IBARRA: So you tag the oil sample.

23 MR. BARRETT: Yep, the bottles are all tagged,  
24 they've got little tags that go with the procedure. You tag  
25 them all and you wrap them and you have the data sheets



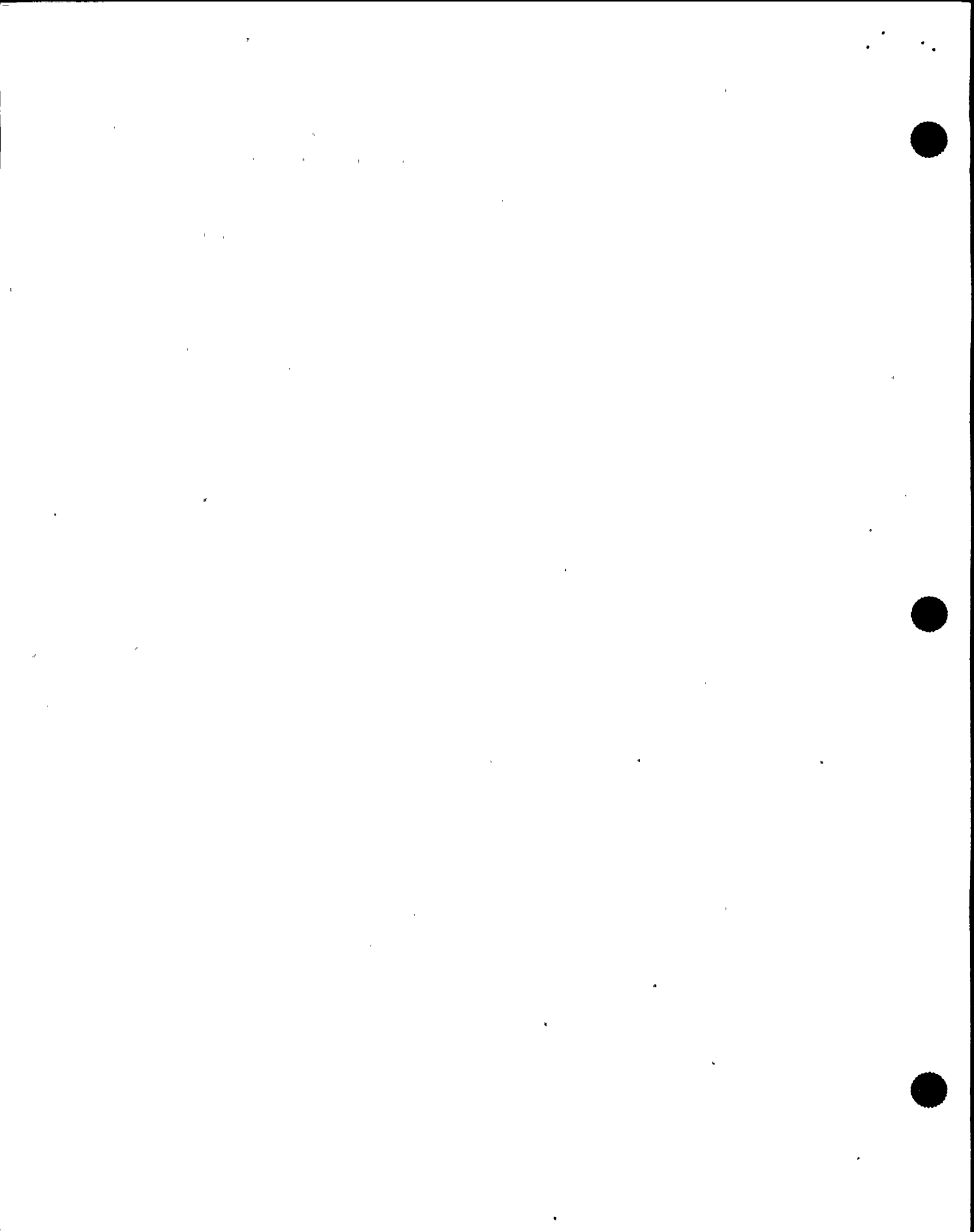
1 available with them, and you just send them out and they  
2 send them back when they're done. And you just, you know,  
3 take the data that they have and put it on your procedure.  
4 So, this is a companywide procedure or companywide thing  
5 that they do. And we have a site procedure that we can  
6 apply to it. So we just, you know, end up taking all their  
7 data and putting it on our procedure and closing out our  
8 procedure.

9 MR. IBARRA: Okay.

10 MR. ASHE: Your analysis are, or maybe your  
11 opinion of the higher temperature was on the B phase, does  
12 that indicate anything to you? What would be your opinion  
13 of that?

14 MR. BARRETT: Without -- my opinion? About the  
15 only thing I would do, would be take an oil analysis. I  
16 mean, if you didn't see any gas, you know, combustible gas,  
17 increase and the temperature was the only thing, I would  
18 probably have the TRD for the temperature switch caled,  
19 because, you know, they could go on a cal. There was no  
20 other problems before this with them. So, you know, if I  
21 saw something like that, you know, I would look at the other  
22 intercaves, look at an oil sample, you know, gas sample and  
23 stuff like that.

24 MR. ASHE: Is it common that the RTD's go out of  
25 calibration?





1 MR. BARRETT: I'm not really sure, you know I know  
2 they -- anything goes out of cal after a while.

3 MR. IBARRA: Whenever you take this data, who  
4 reviewed it or who would typically review this data?

5 MR. BARRETT: Systems supervisor.

6 MR. IBARRA: Okay. There's a form for it that you  
7 give them and --

8 MR. BARRETT: When you get done, anything you  
9 know, you know, after you do your rounds, you would write a  
10 WR, if it needed corrective maintenance. And anything that,  
11 you know, you thought was wrong, they would go out and  
12 check; but at the end of the procedure when they close out,  
13 they would sign off that they reviewed the whole procedure  
14 and checked, you know, checked all the figures and stuff  
15 like that.

16 MR. IBARRA: Have you been involved with the  
17 collecting some of the data so they can assess it as of  
18 today?

19 MR. BARRETT: No. The only involvement I've had  
20 in the transformer so far was determining it, you know, over  
21 the weekend. I worked on Saturday.

22 MR. IBARRA: What did you do?

23 MR. BARRETT: Determined B transformer, that's the  
24 only data -- you know the only thing I've done as far as  
25 that equipment.



1 MR. IBARRA: Any work for the UPS?

2 MR. BARRETT: Nope.

3 MR. IBARRA: Okay.

4 MR. ASHE: Is there any other information that you  
5 would like to provide during this interview? That's related  
6 to your actual work activities as it might relate to this  
7 event?

8 MR. BARRETT: No. Nothing I can think of.

9 MR. IBARRA: Thank you. I say terminate.

10 MR. BARRETT: Okay. Thanks.

11 [Whereupon, at 3:21 p.m., the taking of the  
12 interview was concluded.]

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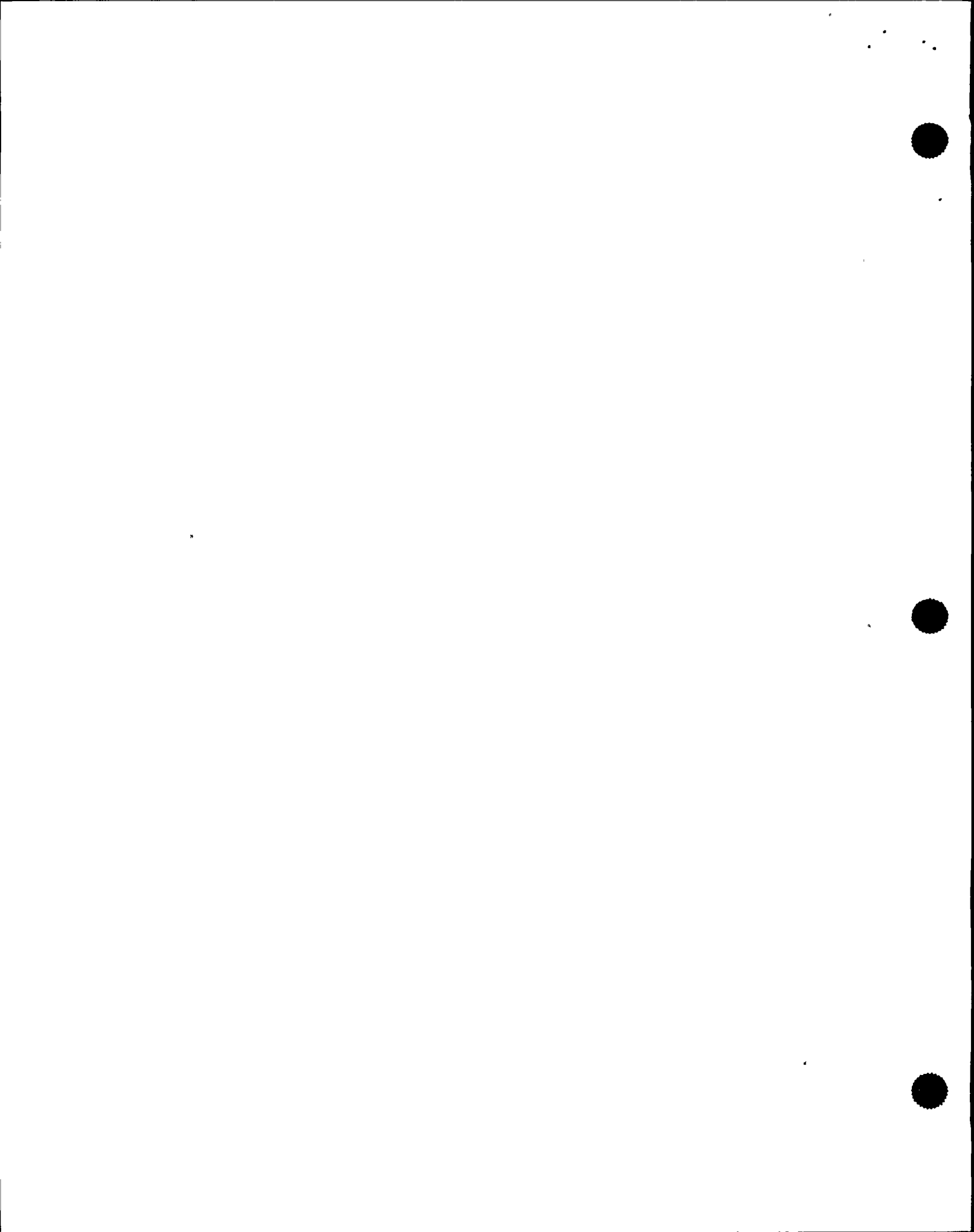
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REPORTER'S CERTIFICATE

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

in the matter of:

NAME OF PROCEEDING: Int. of DAVE BARRETT

DOCKET NUMBER:

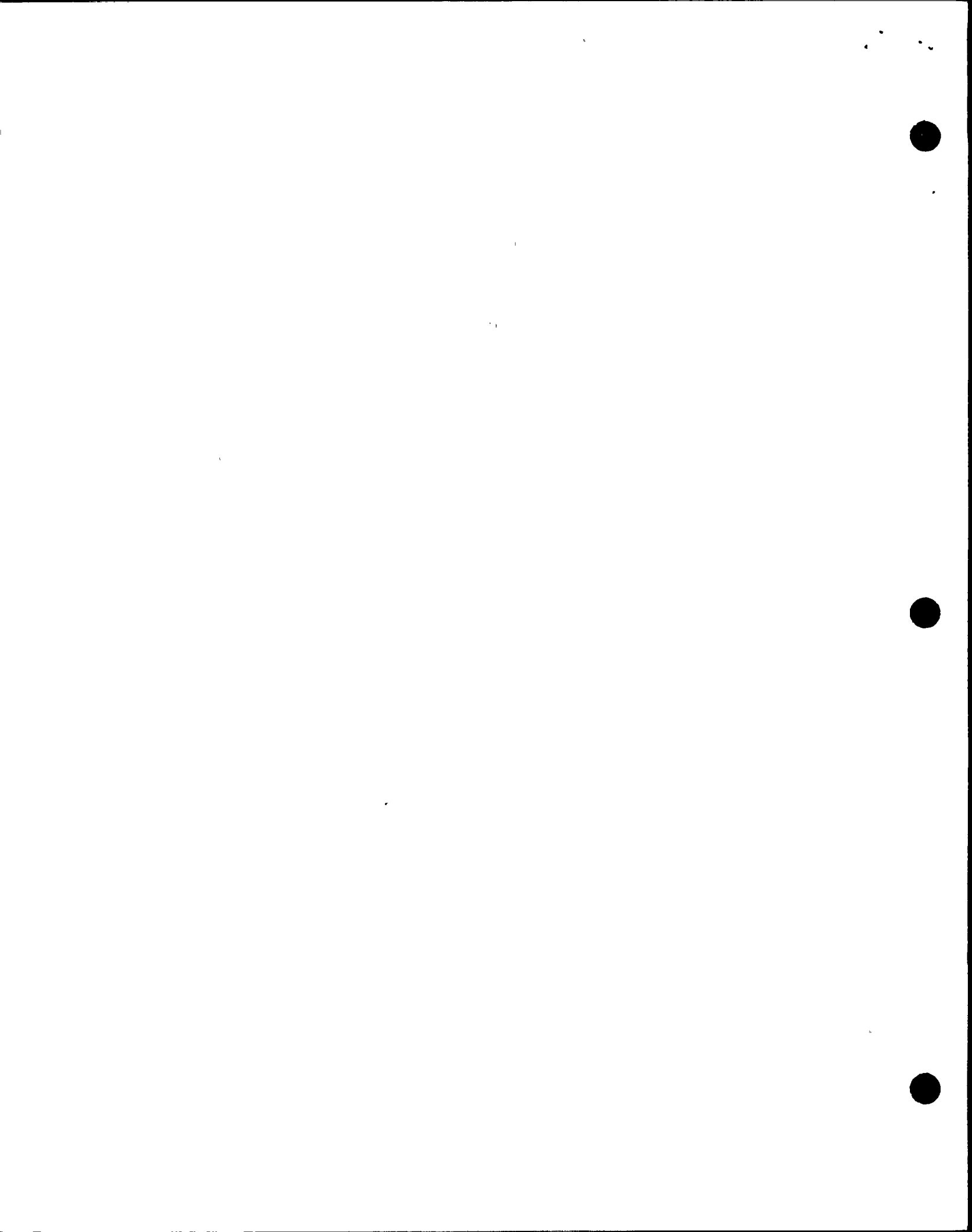
PLACE OF PROCEEDING: Scriba, N.Y.

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.



IAN ROTHROCK

Official Reporter  
Ann Riley & Associates, Ltd.



ORIGINAL

07-93A-91

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Incident Investigation Team

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Interview of: DAVE BARRETT

Docket No.

LOCATION: Scriba, New York

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UNITED STATES  
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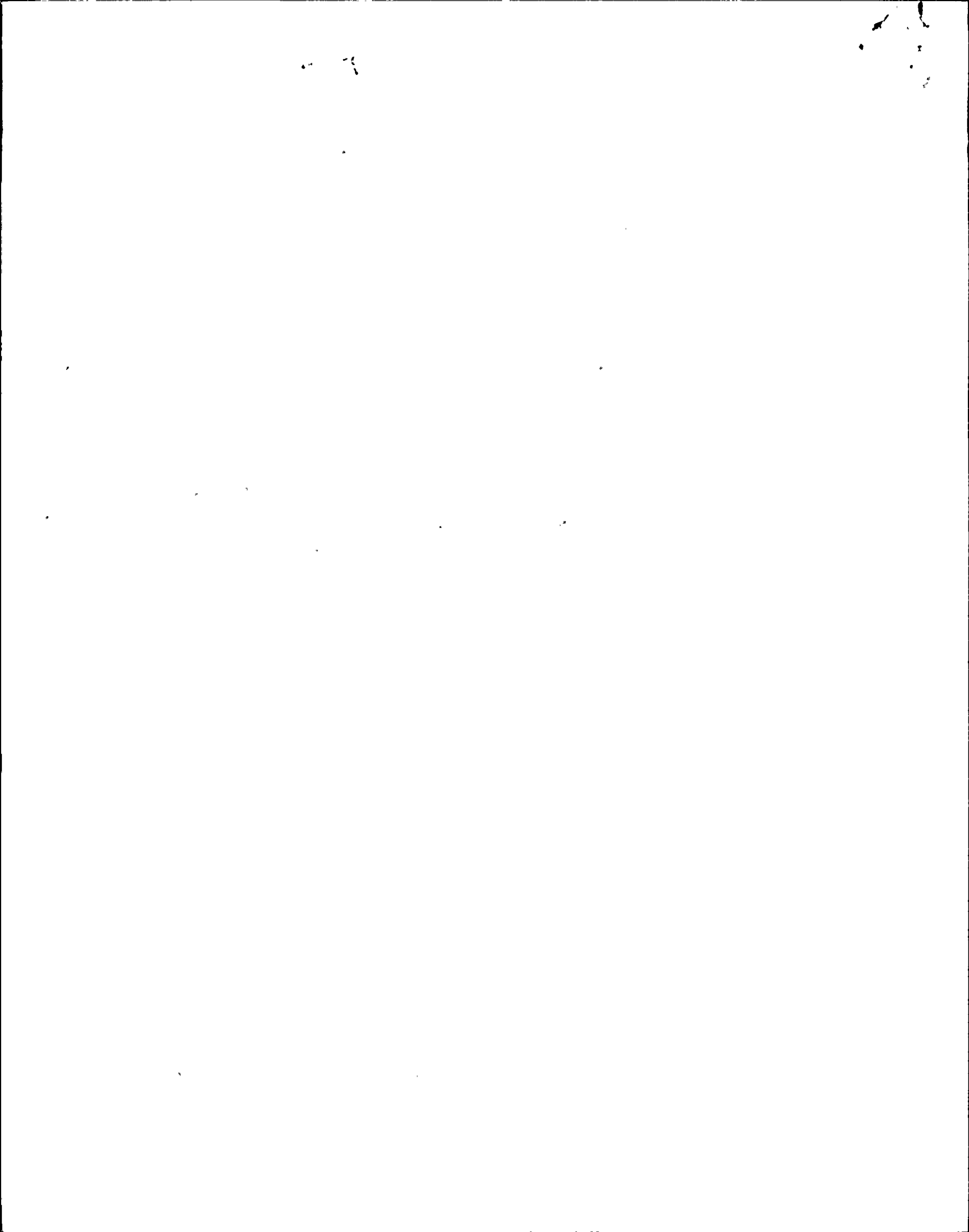
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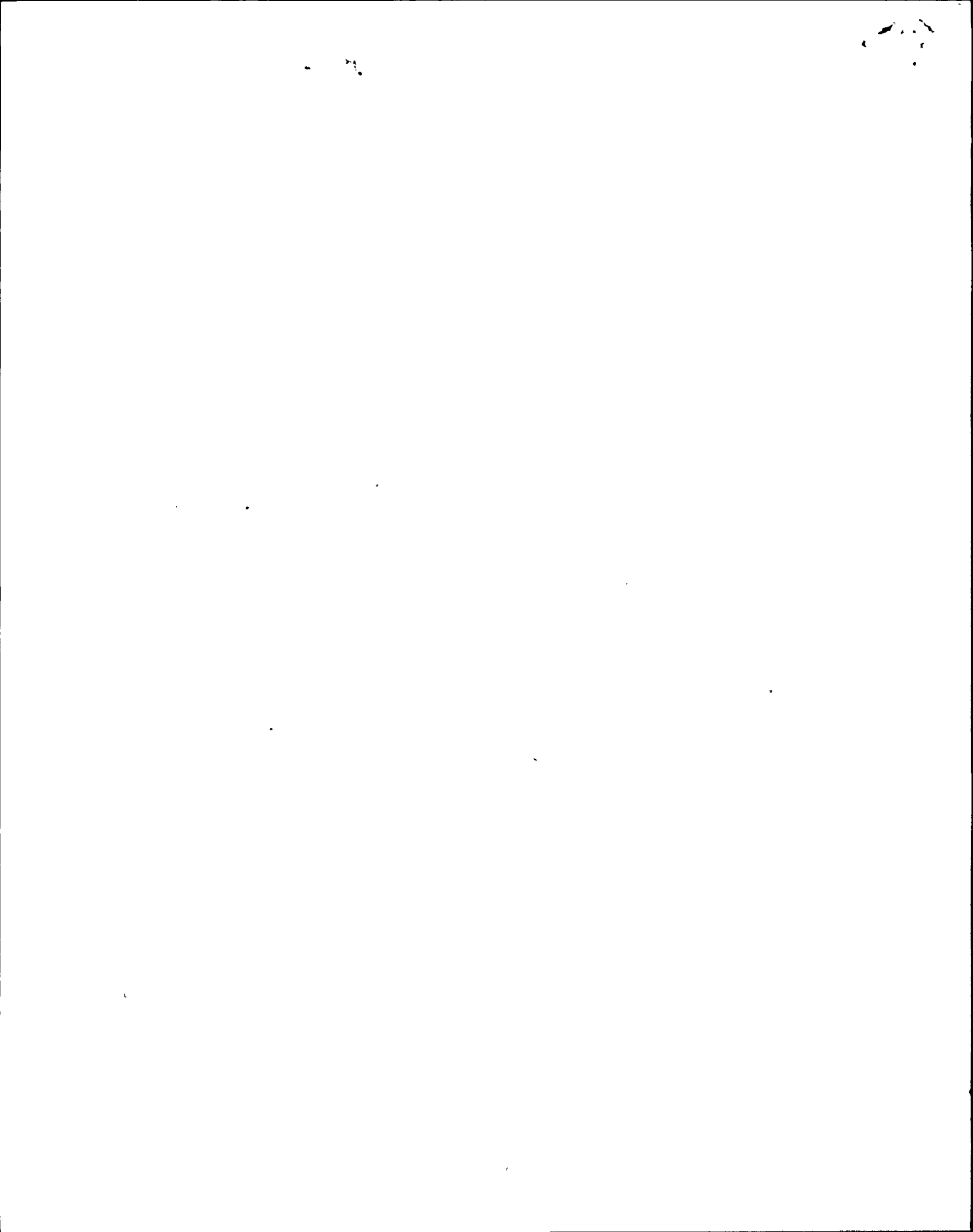
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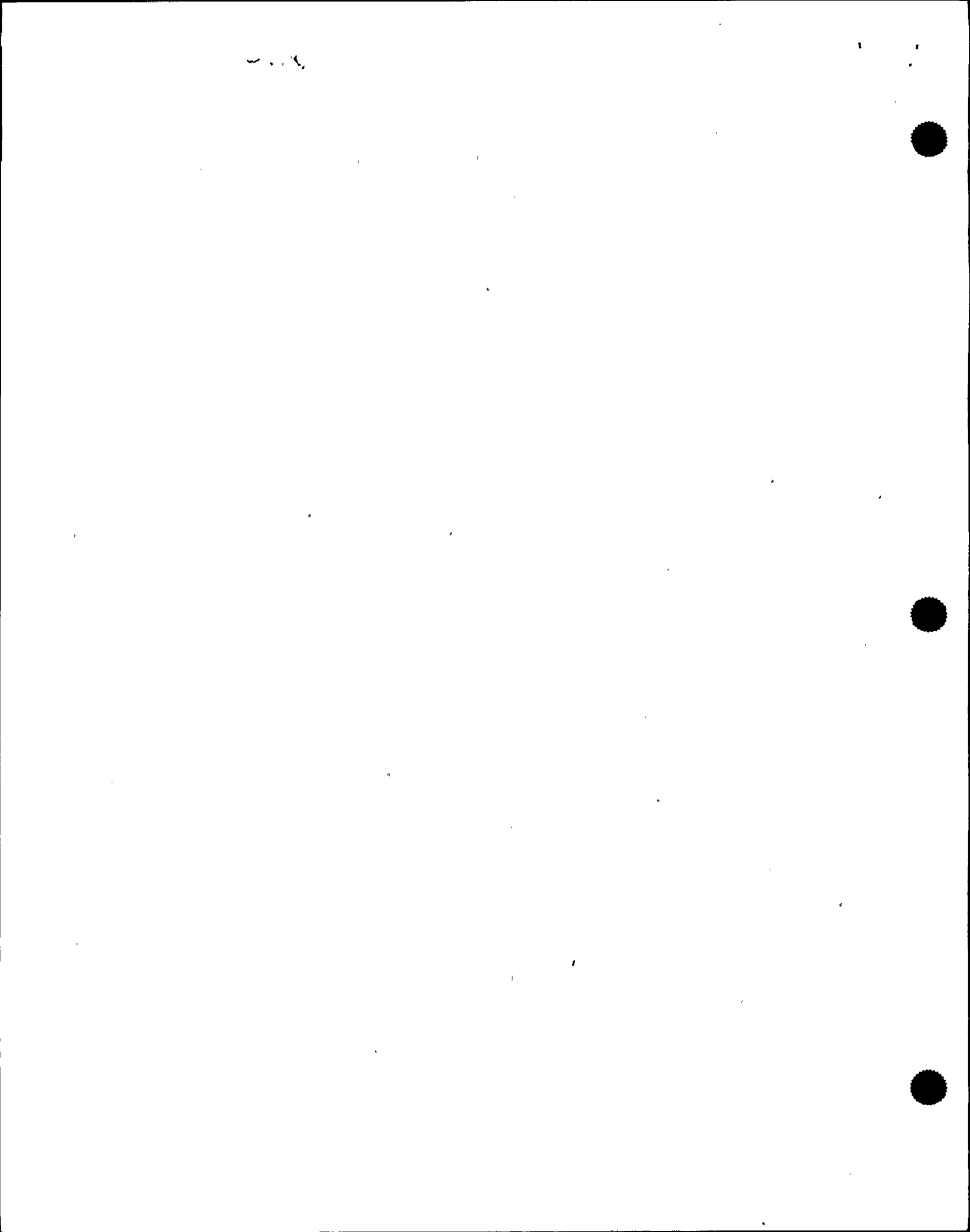
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Conference Room A  
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Frank Ashe, NRC



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

[3:09 p.m.]

1  
2  
3 MR. IBARRA: I'm Jose Ibarra from the NRC and I'm  
4 a member of the IIT. And we have Dave Barrett from Niagara  
5 Mohawk and Frank Ashe, also another team member from the  
6 IIT.

7 Dave, if we can get started by stating your name,  
8 your position and your experience with the company, please.

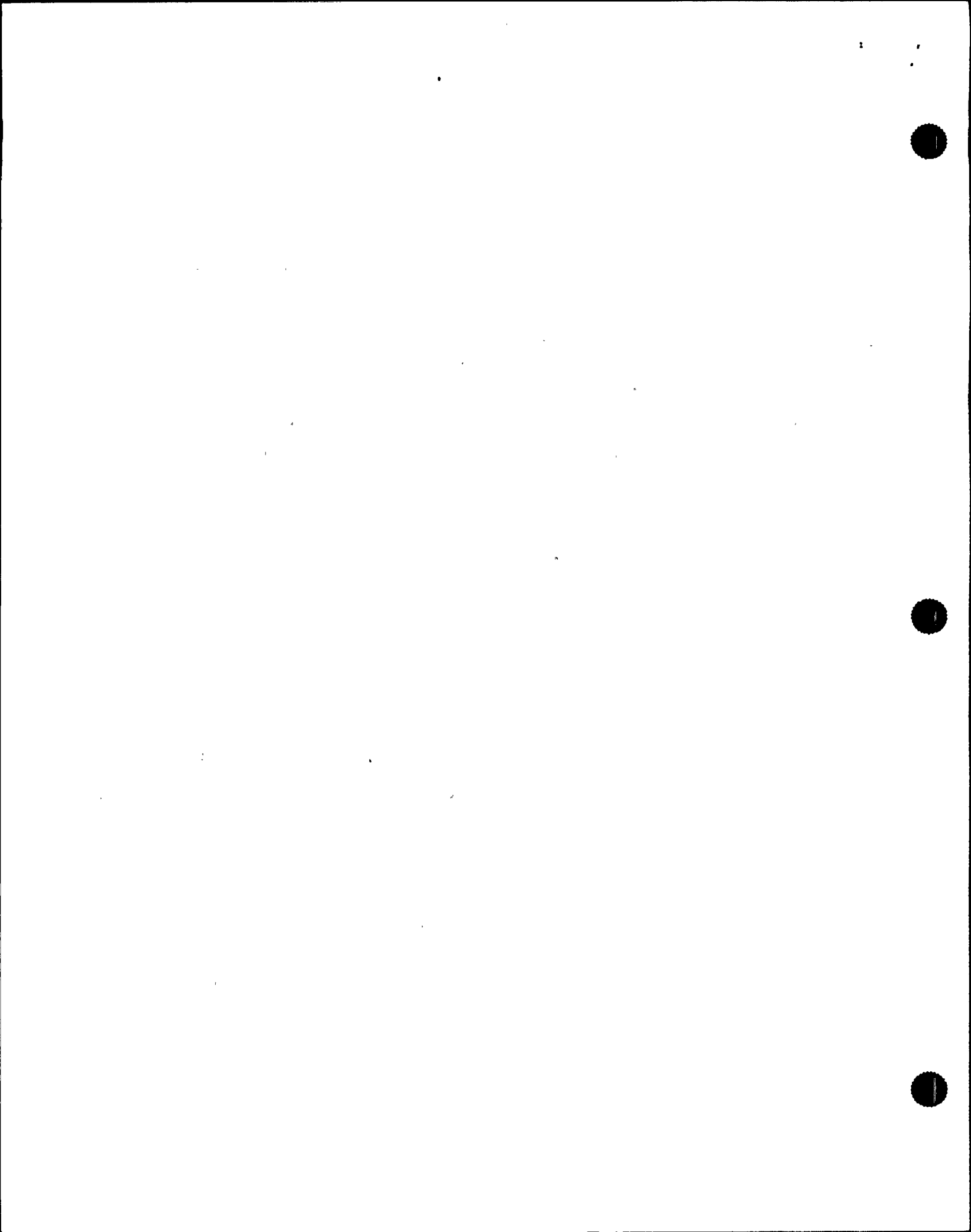
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10 electrical maintenance reporting to Steve Doty and I have 14  
11 years with Niagara Mohawk. One year as an operations down  
12 at the steam plant and 13 years as electrician. I'm a  
13 chief electrician at the present time.

14 MR. IBARRA: Dave, at the start of this incident,  
15 what were you tasked to do and can you describe your -- the  
16 work that you did after the event?

17 MR. BARRETT: At the beginning of the event I was  
18 off site, so at a point in time where we could get on site,  
19 we reported to the OSC and we were -- I was part of a damage  
20 control team, but never went out that day.

21 MR. IBARRA: Okay. As far as any maintenance or  
22 whatever tasks you were involved with, the equipment -- any  
23 time after the event, can you explain to us what you did do?  
24 Any surveillance, any testing?

25 MR. BARRETT: After the event?





1 MR. IBARRA: After the event, yes.

2 MR. BARRETT: Actually none.

3 MR. IBARRA: In other words -- okay. Have you  
4 done any meggering, any electrical testing on the  
5 transformer that went bad?

6 MR. BARRETT: No, I haven't.

7 MR. IBARRA: Okay. Are you involved with the daily  
8 surveillance of those unit?

9 MR. BARRETT: We do the weekly yard, you know, PM.  
10 It's assigned to one form and each week they just have their  
11 own, you know whoever personnel are and our crew, we just  
12 assign them to do it.

13 MR. IBARRA: Okay, can you tell me what's involved  
14 with that?

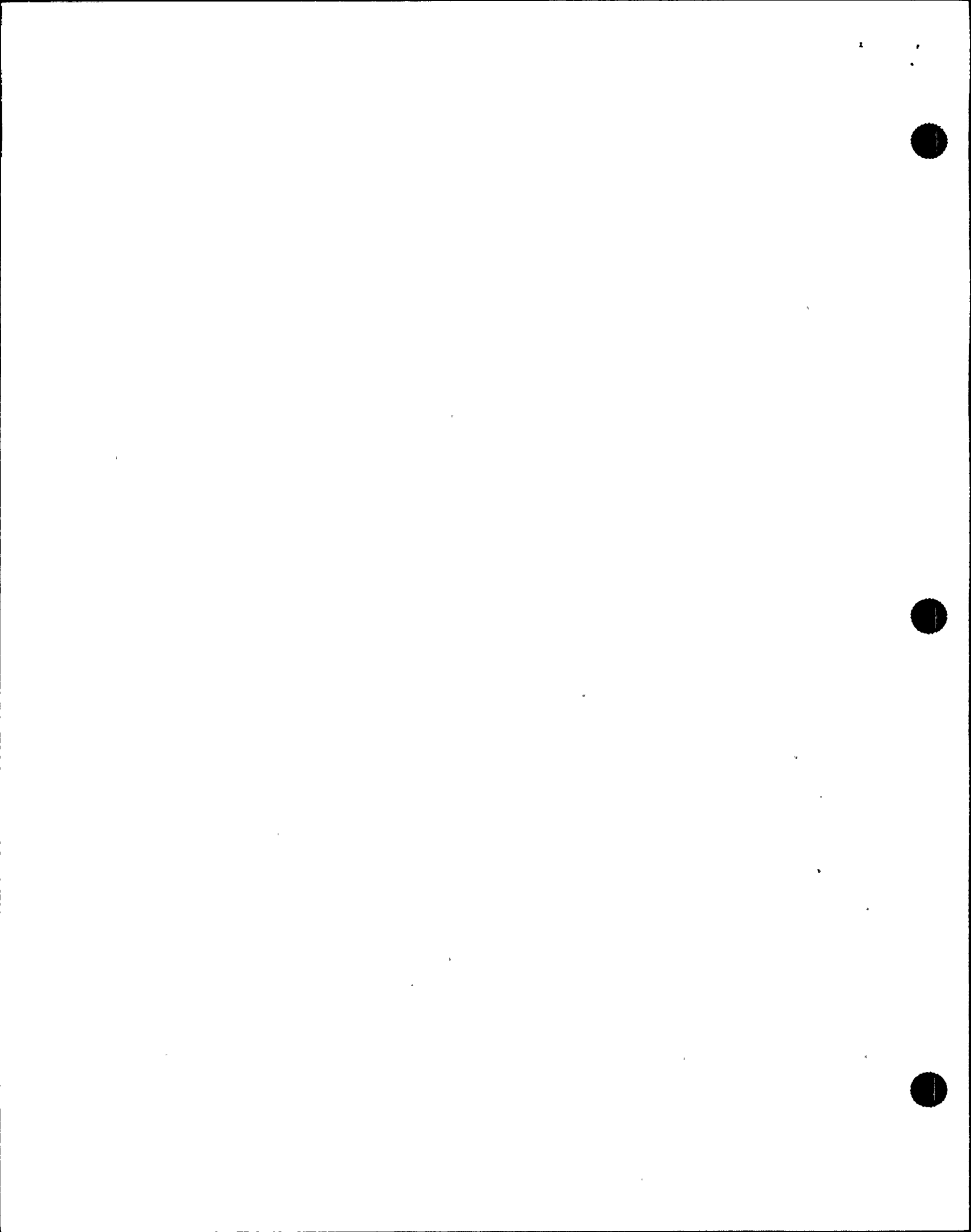
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19 as the breakers, PT's, CT's, visual inspections on the bus,  
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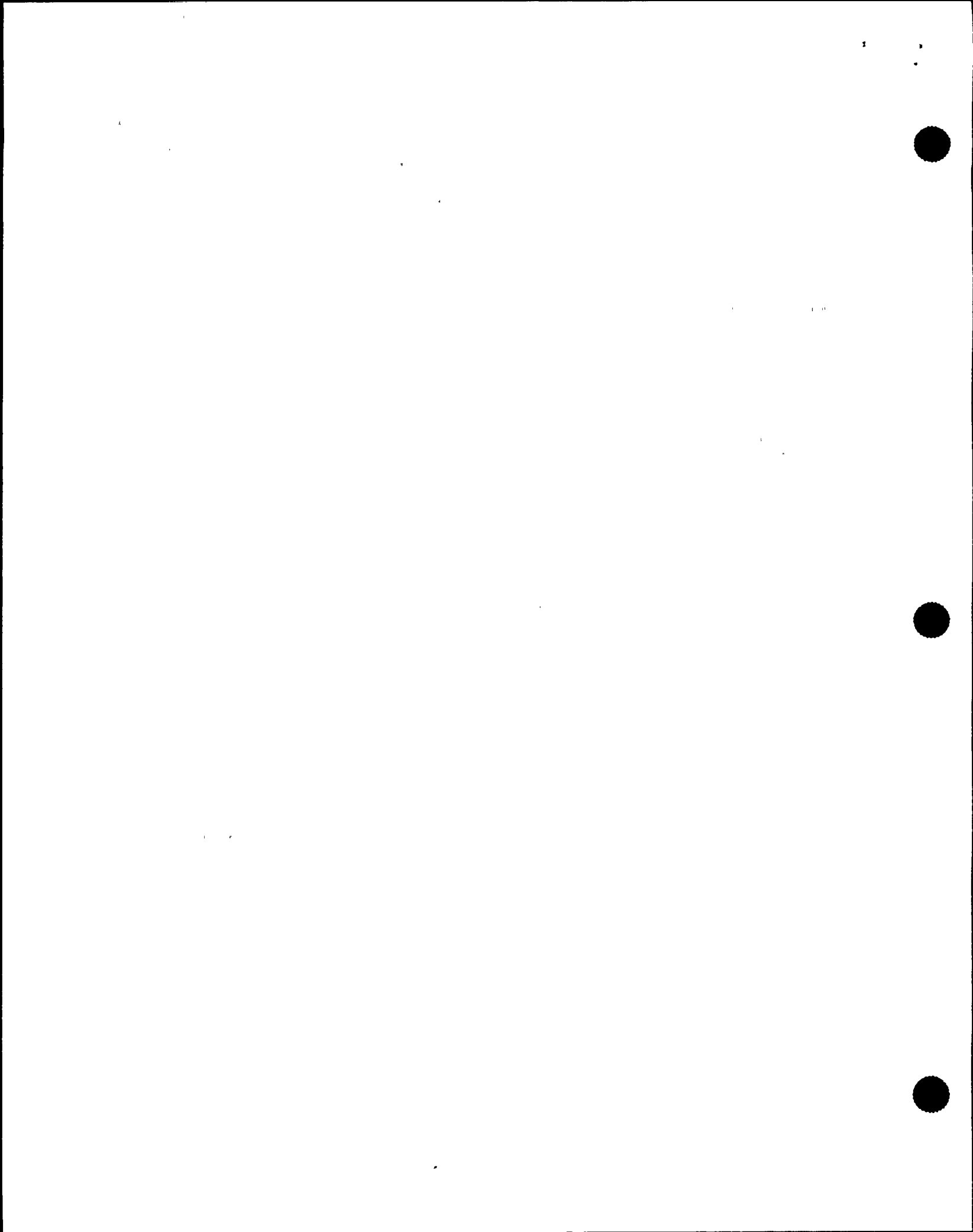
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14 but as far as how do you take the instructions? I mean who  
15 provides --

16 MR. BARRETT: Right from the I&C tech. You know,  
17 because he is more knowledgeable. It's basically their  
18 equipment.

19 MR. IBARRA: You're assisting them in other  
20 words?

21 MR. BARRETT: We're assisting them. We're usually  
22 the support on the WR, you know support copy and the lead  
23 copy would go to the I&C department.

24 MR. IBARRA: Okay. As far as the daily checks on  
25 the transformers, finding out that the fans are running or



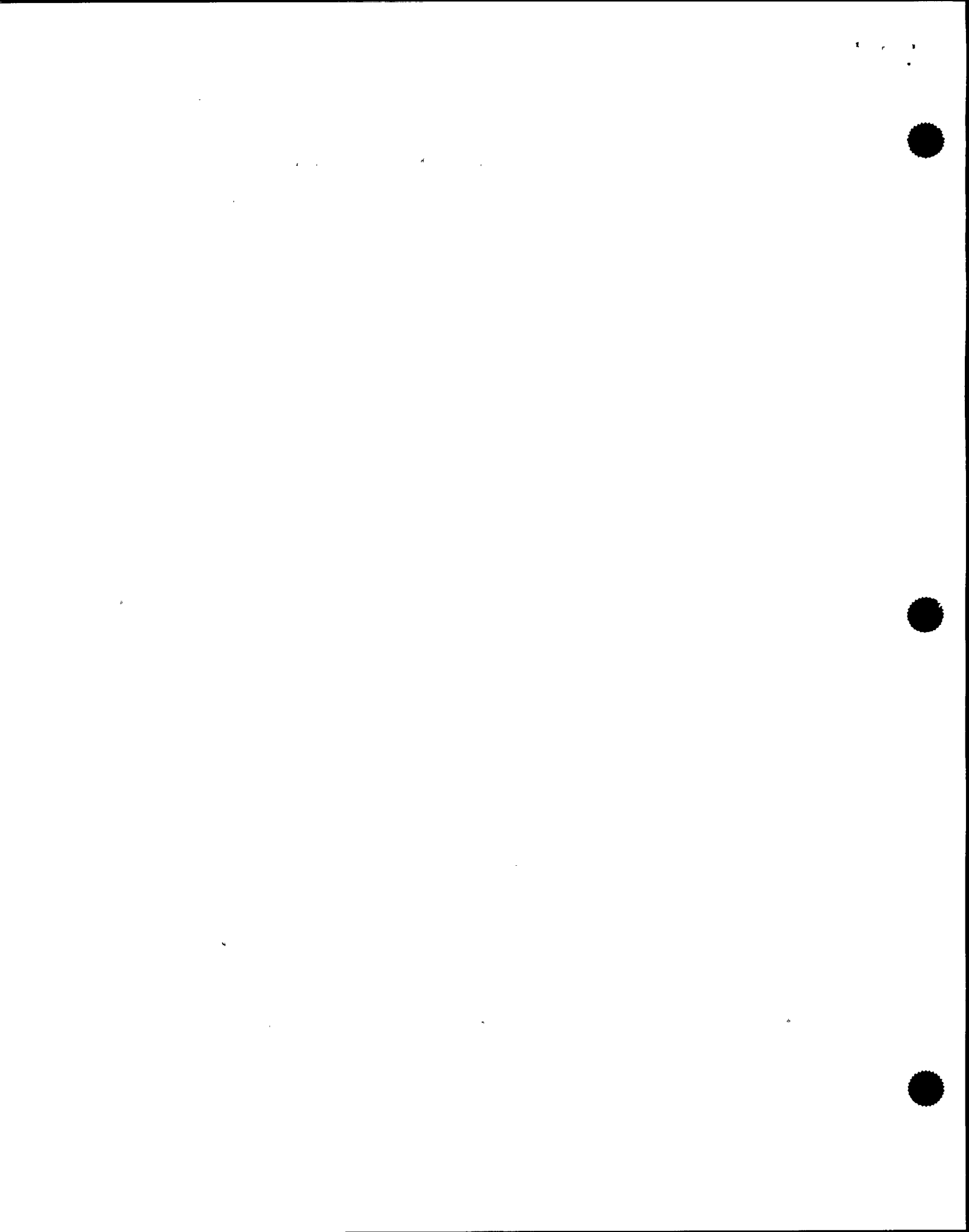
1 whatever other basal checks, do you all have anything to do  
2 with that or is that operations? Who does that, basal  
3 checks?

4 MR. BARRETT: We do, you know, a daily and we do a  
5 -- every -- seven days a week we do the transformer and  
6 switch yard checks and then OPS does some type of check.  
7 You know, I don't know what they do, on, I believe every  
8 shift. They go out in the yard and look at -- well,  
9 whatever parameters they look at, I don't know. I know they  
10 do go out in the yard.

11 MR. IBARRA: Okay.

12 MR. ASHE: Prior to this event, do you recall any  
13 specific anomalies with the main transformer, the electrical  
14 distribution system within your area of maintenance  
15 activities?

16 MR. BARRETT: Only -- I haven't, because I haven't  
17 done the yard readings. Just, you know, word passed around  
18 in the shop as far as the higher temperature on B  
19 transformer, you know, through doing the R readings, they  
20 said it was running higher than A or C. That's really the  
21 only thing. I knew there was a CT that had -- out in the  
22 yard that had moisture -- a little bit of moisture in it.  
23 And the moisture indicator was showing a little bit of red  
24 and besides that nothing. You know, I haven't been involved  
25 in it.





1 MR. IBARRA: Do you recall what timeframe they  
2 were talking about?

3 MR. BARRETT: probably -- you know, the weeks -- a  
4 couple of weeks preceding.

5 MR. IBARRA: Previous?

6 MR. BARRETT: Yeah. Previous.

7 MR. IBARRA: Okay. Okay, any other maintenance  
8 that you can think of that you do that are related to the  
9 UPS unit that failed or to any of the transformers in all  
10 three phases?

11 MR. BARRETT: Previous to the accident?

12 MR. IBARRA: No. That you routinely cover?

13 MR. BARRETT: Nothing really routine. As I say,  
14 usually if there is WR's and they need electrical support,  
15 you know, a lot of times if I'm available I'll work on it,  
16 but you know, there's nothing really routine like in a  
17 weekly type of thing that we do on the UPS's.

18 MR. IBARRA: Okay.

19 MR. BARRETT: There is -- like I say, they have  
20 procedures; there's like a quarterly. Quarterly rounds I  
21 just got done doing that not too long ago. That's where you  
22 just kind of look at the lights, and you know, check the  
23 screens for the cooling screens and stuff like that, but  
24 that's nothing really major.

25 MR. IBARRA: On the oil analysis, if you were



1 involved in that, what would be your role in it?

2 MR. BARRETT: Basically just taking the sample.  
3 All you do is you just need to get the -- they would hand  
4 you the bottles and the sampling tubes and stuff like that  
5 and you would just, you know, go out there and take the  
6 sample; and just fill out all the procedure and the forms  
7 that they send to Seventh North. That's where they do their  
8 oil analysis and just send it out to them. Then they send  
9 it back and then you record all the data that they found in  
10 the procedure and you close the procedure out.

11 MR. IBARRA: How long does it take for that  
12 analysis to come back?

13 MR. BARRETT: I'm going to say probably a couple  
14 of weeks before you get the -- you know, all the stuff back  
15 for Seventh North.

16 MR. IBARRA: Is it your group still responsible  
17 for sending it out there and getting it back?

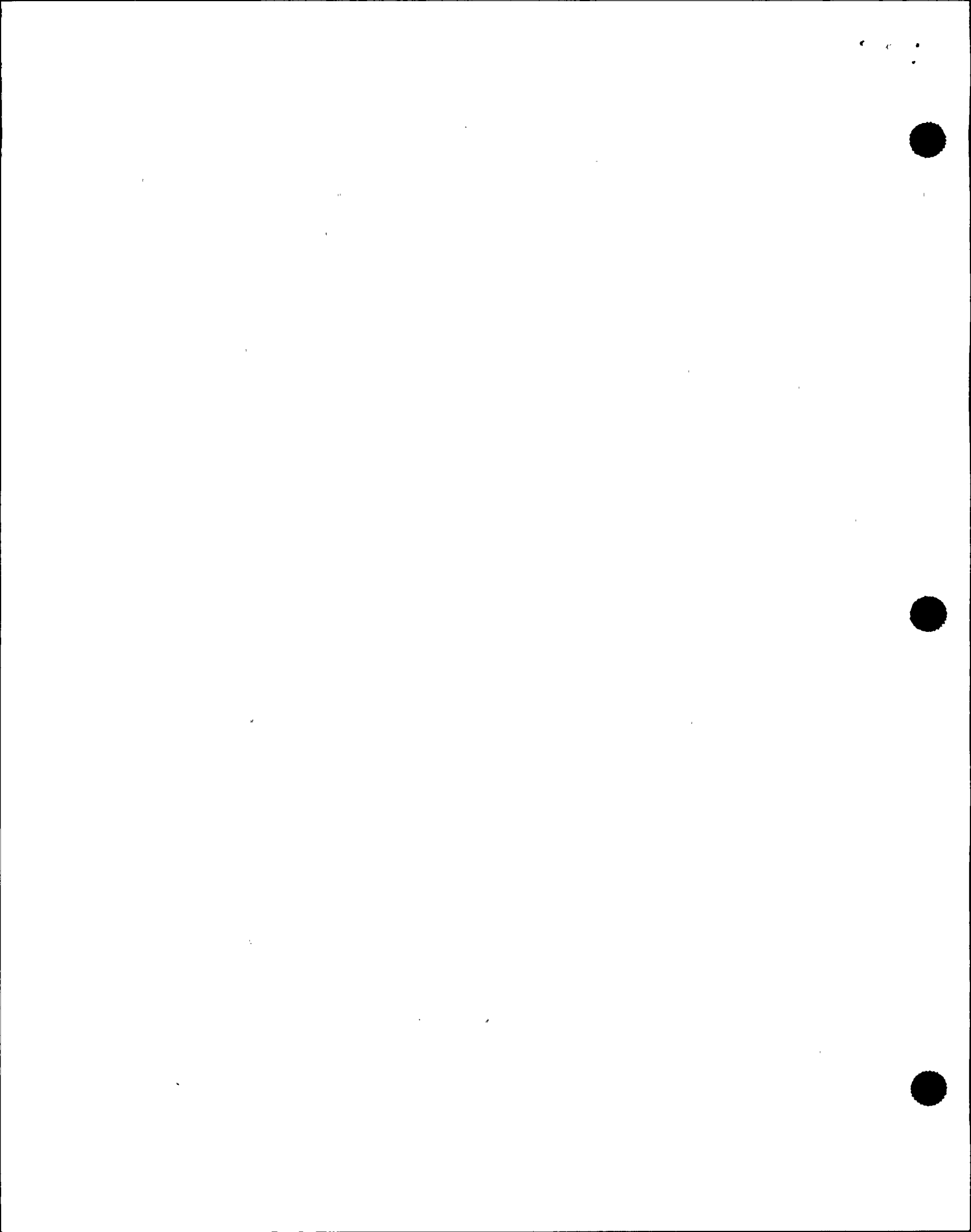
18 MR. BARRETT: Yep. Yep.

19 MR. IBARRA: Did they keep track of what's out  
20 there and what's coming back?

21 MR. BARRETT: Um hm.

22 MR. IBARRA: So you tag the oil sample.

23 MR. BARRETT: Yep, the bottles are all tagged,  
24 they've got little tags that go with the procedure. You tag  
25 them all and you wrap them and you have the data sheets



1 available with them, and you just send them out and they  
2 send them back when they're done. And you just, you know,  
3 take the data that they have and put it on your procedure.  
4 So, this is a companywide procedure or companywide thing  
5 that they do. And we have a site procedure that we can  
6 apply to it. So we just, you know, end up taking all their  
7 data and putting it on our procedure and closing out our  
8 procedure.

9 MR. IBARRA: Okay.

10 MR. ASHE: Your analysis are, or maybe your  
11 opinion of the higher temperature was on the B phase, does  
12 that indicate anything to you? What would be your opinion  
13 of that?

14 MR. BARRETT: Without -- my opinion? About the  
15 only thing I would do, would be take an oil analysis. I  
16 mean, if you didn't see any gas, you know, combustible gas,  
17 increase and the temperature was the only thing, I would  
18 probably have the TRD for the temperature switch caled,  
19 because, you know, they could go on a cal. There was no  
20 other problems before this with them. So, you know, if I  
21 saw something like that, you know, I would look at the other  
22 intercaves, look at an oil sample, you know, gas sample and  
23 stuff like that.

24 MR. ASHE: Is it common that the RTD's go out of  
25 calibration?



1 MR. BARRETT: I'm not really sure, you know I know  
2 they -- anything goes out of cal after a while.

3 MR. IBARRA: Whenever you take this data, who  
4 reviewed it or who would typically review this data?

5 MR. BARRETT: Systems supervisor.

6 MR. IBARRA: Okay. There's a form for it that you  
7 give them and --

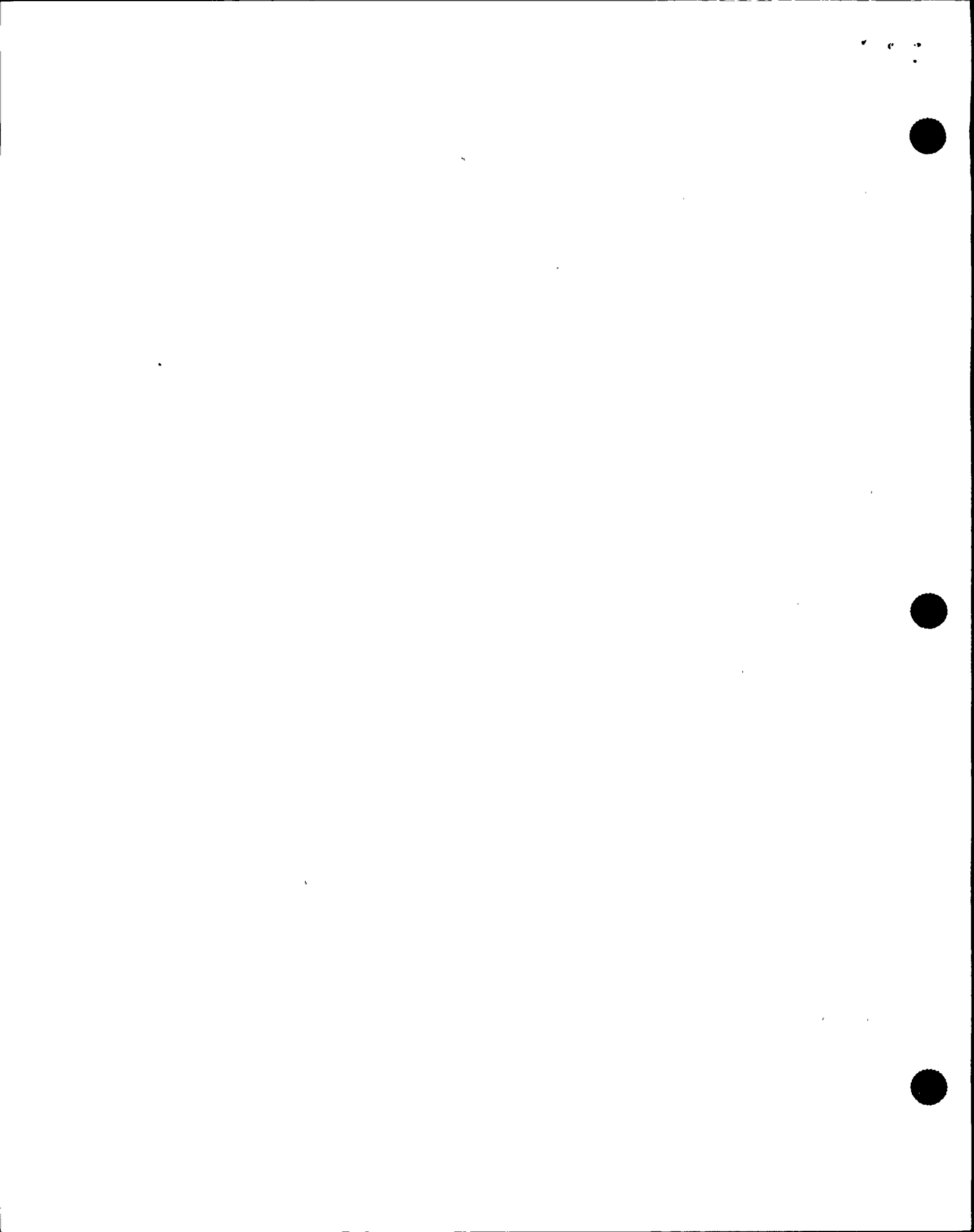
8 MR. BARRETT: When you get done, anything you  
9 know, you know, after you do your rounds, you would write a  
10 WR, if it needed corrective maintenance. And anything that,  
11 you know, you thought was wrong, they would go out and  
12 check; but at the end of the procedure when they close out,  
13 they would sign off that they reviewed the whole procedure  
14 and checked, you know, checked all the figures and stuff  
15 like that.

16 MR. IBARRA: Have you been involved with the  
17 collecting some of the data so they can assess it as of  
18 today?

19 MR. BARRETT: No. The only involvement I've had  
20 in the transformer so far was determining it, you know, over  
21 the weekend. I worked on Saturday.

22 MR. IBARRA: What did you do?

23 MR. BARRETT: Determined B transformer, that's the  
24 only data -- you know the only thing I've done as far as  
25 that equipment.





1 MR. IBARRA: Any work for the UPS?

2 MR. BARRETT: Nope.

3 MR. IBARRA: Okay.

4 MR. ASHE: Is there any other information that you  
5 would like to provide during this interview? That's related  
6 to your actual work activities as it might relate to this  
7 event?

8 MR. BARRETT: No. Nothing I can think of.

9 MR. IBARRA: Thank you. I say terminate.

10 MR. BARRETT: Okay. Thanks.

11 [Whereupon, at 3:21 p.m., the taking of the  
12 interview was concluded.]

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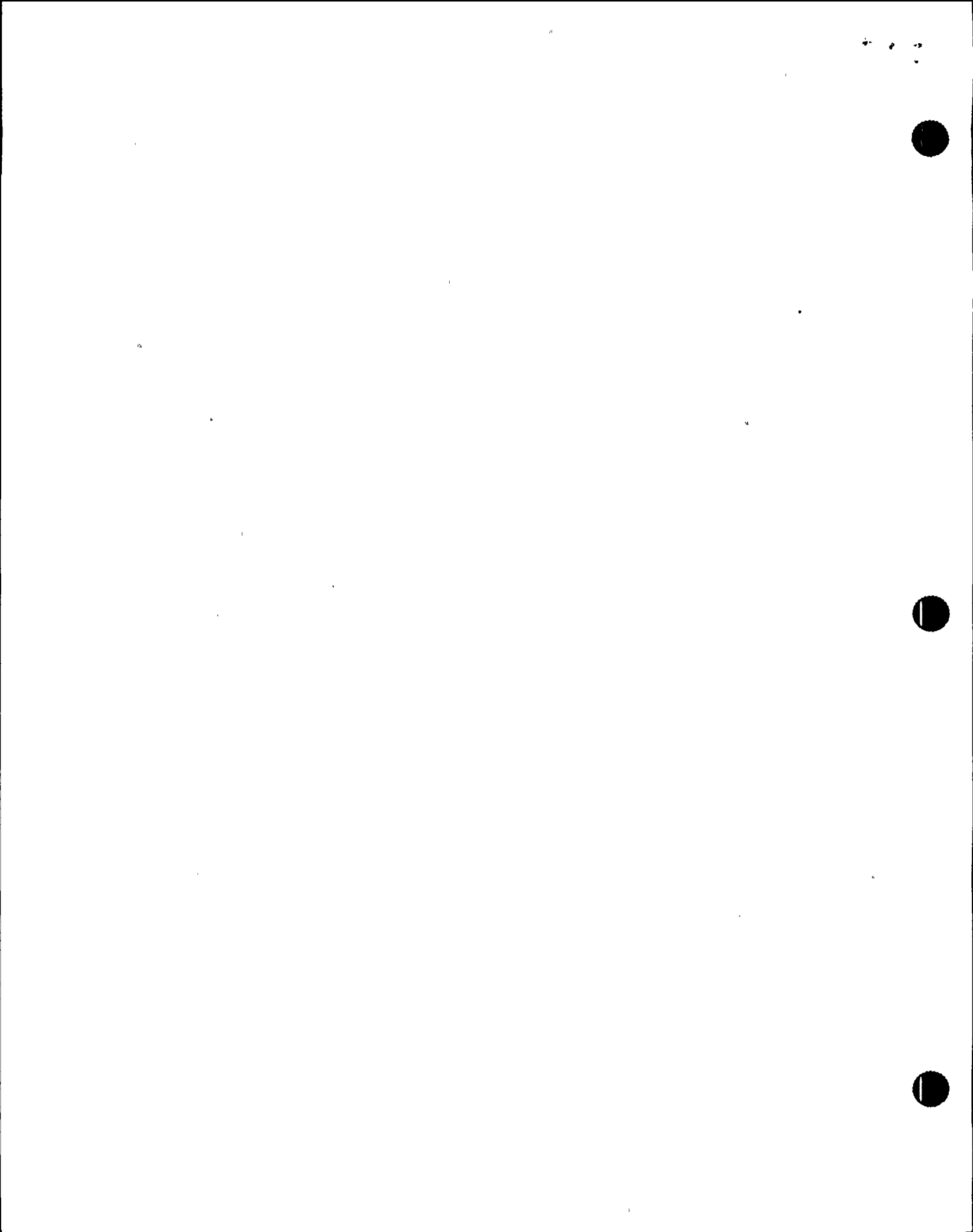
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REPORTER'S CERTIFICATE

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

in the matter of:

NAME OF PROCEEDING: Int. of DAVE BARRETT

DOCKET NUMBER:

PLACE OF PROCEEDING: Scriba, N.Y.

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.



IAN ROTHROCK

Official Reporter  
Ann Riley & Associates, Ltd.

