

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

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In the matter of:

Interview of John T. Hanze

Docket No.

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Location:

Pages: 1 - 17

Date: July 1, 1982

**TAYLOE ASSOCIATES**

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NUCLEAR REGULATORY COMMISSION

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Investigators: E. J. Power

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Owen Shackleton

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July 1, 1982

Palo Verde Nuclear Station

12-15 1

P R O C E E D I N G

2 INVESTIGATOR: This is an interview of Mr. John T.  
3 Hanze. Mr. Hanze is a level 2 QC engineer, employed by the  
4 Bechtel Power Corporation, at the Palo Verde Nuclear  
5 Generating Station.

6 This interview is taking place on July 1, 1982,  
7 and the interview began at 9:20 a.m. Present to conduct  
8 this interview from the U. S. Nuclear Regulatory Commission  
9 is Mr. E. J. Power, Investigator, and myself, Owen T.  
10 Hackleton, Investigator. Both of us are assigned to  
11 Region 5, in Walnut Creek, California, of the U. S. Nuclear  
12 Regulatory Commission.

13 Prior to recording this interview, I explained  
14 to Mr. Hanze the Federal statutes that apply to persons  
15 giving testimony to the Federal Government under oath, and  
16 Mr. Hanze agreed to give us testimony under oath, and was  
17 placed under oath by me.

18 Mr. Hanze, do you have objection to us tape  
19 recording this interview?

20 MR. HANZE: No, I do not.

21 INVESTIGATOR: All right, thank you. John, what  
22 I am going to do is go over a list of concerns that have  
23 been given to us, and get your comments. What your  
24 experience and observations have been since you have been  
25 working here at Palo Verde. Could you tell us presently

12-16 1 what your assignment is. Are you working on terminations,  
2 or cable pulling?

3 MR. HANZE: Cable pulling and terminations.

4 INVESTIGATOR: Both of them?

5 MR. HANZE: Basically I have been working --

6 INVESTIGATOR: (Knock at door) Come in.

7 MR. HANZE: Cable pulling. I work terminations  
8 you know, when I have the time. Basically, it is cable  
9 pulling.

10 INVESTIGATOR: John, in working on terminations,  
11 have you worked then with termination parts?

12 MR. HANZE: (inaudible)

13 INVESTIGATOR: John, do you know -- have you  
14 observed, heard or in any way gained knowledge that the  
15 wiremen, the electricians, the craft people, have been told  
16 by anyone to sign a termination card for work they did not  
17 perform?

18 MR. HANZE: I have not.

19 INVESTIGATOR: Gene, do you have any questions  
20 in that line?

21 INVESTIGATOR: Are you aware of any new  
22 termination cards prepared in the event that one was lost  
23 or misplaced, and so forth, and you went back to the  
24 craftsman (inaudible).

25 MR. HANZE: No, I have no personal knowledge.



12-17

1 INVESTIGATOR: Do you feel, from your observations  
2 in working with the wiremen, that they are not intimidated  
3 by their supervision?

4 MR. HANZE: No, not the ones I have worked with.

5 INVESTIGATOR: Do they appear to you in your  
6 observations that they have adequate time to perform their  
7 work?

8 MR. HANZE: Yes, they do.

9 INVESTIGATOR: How would you classify the quality  
10 of work that you are seeing the electricians perform?

11 MR. HANZE: I feel it is good quality work. The  
12 ones I have worked with have done their job well.

13 INVESTIGATOR: John, since you have been on  
14 board here, have you ever observed or heard of in a Class Q  
15 cabling being damaged either by welding slag or in any other  
16 way, and then being repaired without QC being present, or  
17 the proper documentation being prepared?

18 MR. HANZE: No, I haven't.

19 INVESTIGATOR: Any other method of damage.  
20 Have you observed or witnessed the repair of any cable like  
21 that. Class Q cable.

22 MR. HANZE: No.

23 INVESTIGATOR: John, what is your knowledge of  
24 splicing of Class Q cable. If a wireman came to you and  
25 said he had to splice some Class Q cable, what would be

12-18 1 your response?

2 MR. HANZE: My response is that it is not to  
3 be spliced.

4 INVESTIGATOR: And where do you get this  
5 direction from, John?

6 MR. HANZE: 13 EM 06.

7 INVESTIGATOR: In other words, what you are  
8 telling the Commission is that you have written procedures  
9 --

10 MR. HANZE: I have written procedures that says  
11 a class Q cable will not be spliced.

12 INVESTIGATOR: Have you ever heard of a situation  
13 here at Unit 1, specifically in a manhole outside of the  
14 spray pond where a wireman has been directed by his  
15 supervision to splace Class Q cable?

16 MR. HANZE: I have no knowledge of that.

17 INVESTIGATOR: John, in working out on the  
18 site and in the observations and experience that you have  
19 had, have you come across any situations, or know of any  
20 situations, where cables have been properly terminated,  
21 and then brought off by QC, signed off by the craft,  
22 and then they come back later and find it has been de-  
23 terminated, and it may not be connected, or it may have been  
24 re-terminated, but not done in as neat of a fashion as  
25 it was originally performed?

12-19 1

MR. HANZE: Will you shut that thing off for  
2 a minutes.

3

INVESTIGATOR: Sure. (Tape recorder stopped)

4

INVESTIGATOR: While we were off tape, Mr.  
5 Hanze requested that I clarify my question, and in  
6 summary his response is that he has no firsthand knowledge,  
7 having witnessed any determinations being made by anyone  
8 other than under proper documentation and proper procedure.  
9 Is that correct, Mr. Hanze?

10

MR. HANZE: That is right. Right.

11

INVESTIGATOR: John, we have an allegation  
12 concerning the type of insulating material used on some  
13 of the terminations, and I am afraid probably it happened  
14 prior to your coming on board, because you came on board  
15 in August of 1981. But there was a period of time which  
16 we have established by fact, that they were using -- the  
17 electricians were using a material called Scotch Fill 2200  
18 on the terminations, and it was found that this material,  
19 due to the high temperatures that we have out here in the  
20 desert, in Palo Verde, that this material was melting and  
21 secreting its fluids down onto the cabling.

22

And then they changed approximately a year ago  
23 to a material called 130C. Are you familiar with what  
24 I am talking about?

25

MR. HANZE: No. Here again, basically -- I have



12-20 1 heard of it, but I am not basically familiar with it.

2 INVESTIGATOR: John, you came on board here as  
3 an older person compared to a lot of the young men that  
4 are here, and have a lot of years of experience in  
5 construction work. However, this was your first quality  
6 control-type position, is that correct?

7 MR. HANZE: That is correct.

8 INVESTIGATOR: Will you tell us what type of  
9 training you were given when you came aboard in August of  
10 1981?

11 MR. HANZE: I was taken through by George Palmara,  
12 and given training for approximately six weeks in race ways.  
13 And I was taken over by cable pull, and worked under Bill  
14 Burdick for approximately six weeks in cable pull.

15 INVESTIGATOR: Did you have a period of time  
16 where you were given documentation procedures to study?

17 MR. HANZE: Yes. During this period, we basically  
18 worked mornings in the field, and afternoons we would work  
19 in the office meeting (inaudible) procedures.

20 INVESTIGATOR: In your opinion, did you feel  
21 that by the time you were released to work on your own that  
22 you had been adequately trained?

23 MR. HANZE: I basically feel I was adequately  
24 trained in my job.

25 INVESTIGATOR: Did you have any kind of seminars,



12-21 1 or meetings, or updating, or refresher courses, or anything  
2 of that nature that you got on board?

3 MR. HANZE: Yeah, we have had updating on like  
4 DCPs, SWPs, and start-up work.

5 INVESTIGATOR: John, would you explain. A lot  
6 of people don't understand what DCP stands for?

7 MR. HANZE: Design change procedures.

8 INVESTIGATOR: And the other you gave us?

9 MR. HANZE: Start up work permit.

10 INVESTIGATOR: That SWP is start-up work permit.  
11 John, you have been out in the field for approximately a  
12 year here. Do you feel that you, as an inspector, are  
13 able to operate freely without any intimidation from the  
14 crafts or from the craft management?

15 MR. HANZE: Yes.

16 INVESTIGATOR: You have no -- you have suffered  
17 no bad experiences when you have tried to enforce -- I don't  
18 know if you have ever hung any red tags.

19 MR. HANZE: None.

20 INVESTIGATOR: You feel your relationship, then,  
21 with the crafts has been satisfactory?

22 MR. HANZE: I do.

23 INVESTIGATOR: John, have you participated in  
24 any hapotic (phonetic) testing?

25 MR. HANZE: No, I have not.

12-221

2 INVESTIGATOR: Have you observed or heard of  
3 Hapotic testing where it has been conducted in excess on  
4 one individual cable?

5 MR. HANZE: No, I have not.

6 INVESTIGATOR: What is your understanding, John?  
7 Have you had any training in hapoting, or what is required?

8 MR. HANZE: I have read procedures. I don't  
9 know -- like I basically said -- I have been in cable  
10 pulling since the say I went in the field. I just really  
11 haven't had a chance to get back to some of this stuff.  
12 Basically, I have read the procedures, but I don't --

13 INVESTIGATOR: Well, the important thing is you  
14 -- if you got into it, you would know where to go to look  
15 for the answers.

16 MR. HANZE: Yes.

17 INVESTIGATOR: Okay. John, in cable pulling,  
18 back in what you are more familiar with, because you are  
19 working with it daily, do you know of any circumstances  
20 where cables have been damaged either by the dropping of  
21 a welding slag or by any other possible accident, and the  
22 cables have been repaired in place without QC being  
23 advised, or engineering being advised, or proper documenta-  
24 tion being prepared?

25 MR. HANZE: No, I do not.

INVESTIGATOR: What normally happens, John, when

12-23

1 a cable is -- I am always talking about Class Q, our  
2 interest is in the quality, safety-related cable. What  
3 happens, John, when a cable is damaged. What is the proper  
4 procedure?

5 MR. HANZE: The proper procedure is writing  
6 an NCR against the cable, and have it taken out.

7 INVESTIGATOR: Are you authorized as a QC  
8 inspector, can you write an NCR?

9 MR. HANZE: I certainly can.

10 INVESTIGATOR: And on your non-performance  
11 report, if you were to write one and it is found not to be  
12 legitimate, is it still maintained as a record here on  
13 this site?

14 MR. HANZE: Yes.

15 INVESTIGATOR: So you are telling me that every  
16 NCR, then, becomes a matter of documentation for the  
17 construction record.

18 MR. HANZE: Right.

19 INVESTIGATOR: We are going to stop just for a  
20 minute here while I change tapes.

12-B

21 This is a continuation of the interview of Mr.  
22 Hanze.

23 John, have you ever been involved in the quality  
24 control inspection, where the men -- the crafts are using  
25 conduit, and they are coming into some type of a junction



12-24 1 box, or a control panel, where the conduit has some kind  
2 of a slip joint with threads, and they use an O-Ring, and  
3 the O-Ring is to give the fitting water-tight integrity.  
4 Have you been involved in any installations like that?

5 MR. HANZE: (Inaudible)

6 INVESTIGATOR: The next issue I want to address,  
7 John, is the situation where we have core drilling, which  
8 is frequently done in a plant like this where they have to  
9 make new penetrations.

10 MR. HANZE: I have no experience in core drillings.

11 INVESTIGATOR: Do you know of any situation where  
12 there has been core drilling, and they have accidentally  
13 damaged the conduit?

14 MR. HANZE: No, I have no knowledge of that.

15 INVESTIGATOR: Where they have drilled into the  
16 wall, and hit conduit.

17 MR. HANZE: No.

18 INVESTIGATOR: Wasn't there one --

19 INVESTIGATOR: (Inaudible) received information  
20 that you might have possibly observed something that  
21 occurred down on the main steam building.

22 MR. HANZE: I don't know who said that, but no,  
23 I have no knowledge of --

24 INVESTIGATOR: It would be the 74 foot or the  
25 100 foot elevation.



k2-25 1

MR. HANZE: In main steam?

2

INVESTIGATOR: Right.

3

MR. HANZE: In which unit?

4

INVESTIGATOR: Unit 1.

5

INVESTIGATOR: There was a conduit that was hit

6

by --

7

MR. HANZE: Now, I have pulled a lot of cable

8

in there.

9

INVESTIGATOR: No, you weren't involved in it.

10

You were just present.

11

MR. HANZE: Present at the time? No, not to

12

my knowledge. If somebody did it and I happened to be

13

standing there, nobody said anything to me at the time,

14

so I have no knowledge of it. I don't remember ever

15

anybody ever core drilling at the time we were down there.

16

INVESTIGATOR: This would have approximately

17

six or seven months ago.

18

MR. HANZE: We were pulling down on the main

19

steam then, at Unit 1. But as far as me being there at

20

the time that it happened --

21

INVESTIGATOR: We don't mean when it happened.

22

You just learned of it. It was in the basement, between

23

the containment and the turbine building.

24

MR. HANZE: No, I have no knowledge.

25

INVESTIGATOR: Why I am asking you about this

12-26 1 is that we have an allegation, John, about some damaged  
2 conduit, and we are trying to find it, and the people,  
3 the names that we have been able to pick up by investigation,  
4 we have not yet been able to identify it. Do you know  
5 of any electrician by the name of Jerry Stuart?

6 MR. HANZE: I have no knowledge of a Jerry Stuart.

7 INVESTIGATOR: Bill Williams?

8 MR. HANZE: No.

9 INVESTIGATOR: Bob Lunk?

10 MR. HANZE: No.

11 INVESTIGATOR: Oswald or Ostead.

12 MR. HANZE: No.

13 INVESTIGATOR: Okay. Those names are not  
14 familiar to you. Okay.

15 MR. HANZE: I don't know where they got my name.

16 INVESTIGATOR: During this period of time that  
17 you were observing the cable pull, which crew was doing  
18 the cable pulling at this time?

19 MR. HANZE: Bob Horn was the lead. James Anglin,  
20 I believe his name is, was the foreman. He was the cable  
21 pulling foreman. Like I said, most of my work was in  
22 cable pulling.

23 INVESTIGATOR: Do you know whether or not  
24 (inaudible) is still around?

25 MR. HANZE: I understood -- now this has been four

12-27 1 months ago, I think, or five -- I understood they went to  
2 3. I don't know if they are still down there or not.

3 Like I say, I am out in this field most of the  
4 time and I don't have time to roam around.

5 INVESTIGATOR: John, have you worked in Unit 2  
6 at any time.

7 MR. HANZE: I am working Unit 2 right now.  
8 I have been working in Unit 2 since the latter part of  
9 December.

10 INVESTIGATOR: Okay. What elevations have you  
11 worked in primarily? All over?

12 MR. HANZE: I just finished the same pull that  
13 you were referring to that I was on in the main steam in  
14 Unit 1. Approximately between sixty and seventy thousand  
15 feet of cable.

16 INVESTIGATOR: John, the next concern I want  
17 to address, and I am not asking you if you have firsthand  
18 knowledge, but have you heard of it; we have been told  
19 that down in the lower elevations in that area there has  
20 been some problems in the working relationship between  
21 the craft and some of their foremen, and also between some  
22 of the craft and some of the QC inspectors. And what is  
23 allegedly being done, is you have these (inaudible) brackets  
24 that support the cable trays and also support the piping.  
25 Do you know what I am talking about?

12-28 1

MR. HANZE: Yeah.

2

INVESTIGATOR: I haven't been down there, but I am

3

told these unit struts are welded to embedded plates. You

4

have probably seen them as you walked around.

5

MR. HANZE: Yeah.

6

INVESTIGATOR: The allegation is that because

7

of the animosity that has built up between some of these

8

groups, that some of the craftsmen are disengaging some of

9

the unit struts and putting them on in a fashion that is

10

not the way they were designed after they have been bought

11

off by QC.

12

And the reason being is to get the QC inspectors

13

fired, or the foreman in trouble. Have you heard of any

14

stories like this?

15

MR. HANZE: No, I haven't heard anything like

16

that. They probably wouldn't say anything to me, because

17

I would probably jump all over them. Like I said, I have

18

no knowledge of that.

19

INVESTIGATOR: You by chance don't happen to

20

know a Richard Hamlin, do you?

21

MR. HANZE: Richard who?

22

INVESTIGATOR: Richard -- it looks like

23

H-a-m-e-l-i-n.

24

MR. HANZE: No.

25

INVESTIGATOR: Someone told us they thought you



12-29 1 might have been aware --

2 MR. HANZE: Like I said, I may have been in the  
3 building at the time when it happened, I don't know. But  
4 whether I was actually at the level where it happened --  
5 I don't know, does it give the level there? I was up and  
6 down from the bottom floor of that place to the top floor,  
7 so I may have been in the building at the time, but I have  
8 no knowledge of (inaudible).

9 INVESTIGATOR: The last issue I want to address  
10 John is one that we face all over the United States, and  
11 it is a big problem, and it has nothing to do with  
12 construction directly, but it is the use of controlled  
13 drugs on site, and the allegation is that the use of  
14 drugs out here is exceedingly high. Have you, in the year  
15 you have been on site, have you observed the use of  
16 Marijuana or any of the other well known drugs like hashish  
17 ---

18 MR. HANZE: I will be honest with you and say I  
19 have heard about it, but I have not seen it.

20 INVESTIGATOR: No one has approached you to sell  
21 you anything?

22 MR. HANZE: No way.

23 INVESTIGATOR: Have you smelled Marijuana smoke  
24 in the work areas.

25 MR. HANZE: I have not.

12-30

i INVESTIGATOR: Gene, I have no further questions.

2 MR. HANZE: To tell you the truth, I don't know  
3 if I would know it if I smelled it.

4 INVESTIGATOR: Most of these drugs are used by  
5 teenagers up to about age thirty. By that time the monkey  
6 would seem to learn their lesson quick.

7 John, in summary, how would you characterize  
8 the work you have observed going on here in Palo Verde.

9 MR. HANZE: The work that I have observed, I  
10 feel, is up to quality standards.

11 INVESTIGATOR: John, we thank you very much  
12 for your patience in bearing with us and assisting us in  
13 trying to resolve issues that have been given to us, and  
14 we will bring this interview to a close.

15 The time is now approximately 9:48 a.m and  
16 the date is July 1, 1982.

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MILLERS FALLS  
ERASE  
COTTON CONTENT