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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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2 UNITED STATES OF AMERICA
3 NUCLEAR REGULATORY COMMISSION
4 TECHNICAL REVIEW TEAM
5

6 TECHNICAL INTERVIEW
7

8
9
10 Thursday, August 2, 1984
11 [REDACTED]
12

13 This interview was commenced at 9:50 a.m.
14

15 PRESENT:

16 MR. DICK WESSMAN, Technical Review Team Staff
17 Nuclear Regulatory Commission
18 Washington, D.C. 20555
19

20 MR. CHARLES HOFFMAYER, Technical Review Team Staff
21 Nuclear Regulatory Commission
22 Washington, D.C, 20555
23

24 MR. LARRY SHAO, Technical Review Team Staff
25 Nuclear Regulatory Commission
Washington, D.C. 20555
[REDACTED]

P R O C E E D I N G S

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3 MR. WESSMAN: For the record, this is an interview
4 of [REDACTED] for the purpose of clarifying some of the
5 concerns that Bob has raised to the NRC concerning activi-
6 ties at the Comanche Peak facility; primarily relating
7 to drilling in the concrete and possible cutting of rebar.
8 The location of this interview is at [REDACTED] home
9 in Fort Worth. Present at the interview are Charlie
10 Hoffmayer from the NRC, Larry Shoa from the NRC, and I
11 am Dick Wessman and I am from the NRC. Also present is
12 [REDACTED] As agreed, the interview is being transcribed.
13 And the NRC will ask [REDACTED] a few questions that we have
14 regarding the technical aspects of concrete drilling and
15 possible cutting of rebar. [REDACTED] I want to clarify your
16 current employment and your employment while you were at
17 Comanche Peak; so if you would, tell me briefly what
18 you're doing now and tell me briefly about your employ-
19 ment and your activities at Comanche Peak.

20 [REDACTED]: Well, now, basically, I'm just
21 picking up odd jobs wherever I can. I've turned in
22 several applications at several places and never called
23 again; never heard from since. As far as my position
24 out at Comanche Peak, I worked out there approximately
25 five years. [REDACTED]

[REDACTED]

And that went on for six, eight months. And then, I went into the inquesting rebar drill from Drillco; and I had that approximately -- I don't even know now. It was about eight, nine months, I think. And then, I went back into pipe supports in the containment/reactor one; and I stayed there until I was busted back in June of '82. I was busted back to my tools. And then, I did strictly layout working as a journeyman, layout man, in hanging pipe supports and and small boards.

MR.WESSMAN: When did you leave your employment at Comanche Peak?

[REDACTED]

MR. SHAO: You worked for TUDCO or you worked for Brown and Root?

[REDACTED] I worked for Brown and Root.

MR. WESSMAN: [REDACTED] we have looked at the statement that you made [REDACTED]

1 And we were also provided [REDACTED]
2 [REDACTED]

3 I think most
4 of the concerns that you raised in those documents were
5 quite clear and we were able to understand what your issue
6 is, and our technical review group that's currently on
7 the site now is going to pursue those and determine the
8 safety significance of these issues. We have a few
9 specific questions that we raised out of those documents,
10 and I'm going to let Charlie and Larry raise these
11 questions with you; and then, if you have additional
12 issues that you feel we should focus on, we want to know
13 that, too. So, Charlie, go ahead with your questions then,
14 if you're ready.

15 MR. HOFFMAYER: All right. [REDACTED] basically, my
16 questions center around your log, which was attached to the
17 [REDACTED] I believe you gave it to him
18 at that time. This is the same log; isn't it?

19 [REDACTED] Yes.

20 MR. HOFFMAYER: I'm sure you're more familiar with
21 it than I am. What I'm trying to understand is when
22 I look at the log -- It's a lot easier for you because
23 you obviously took -- It's very detailed. (Mr. Hoffmayer
24 hands log to [REDACTED])

25 [REDACTED] Let me get my glasses.

MR. WESSMAN: Let's go off the record.

(Off the record.)

MR. WESSMAN: We're back on the record now. Go ahead [REDACTED]

[REDACTED] This is a log that I kept when I was operating that Drillco machine in rebar cutting. Basically, it's a print number. It's a location as far as areas, such as safeguard, auxiliary, so forth; which is self-explanatory. This rebar cut is the rebar that I actually cut, the percentage of it that was cut, which way the rebar was running -- vertically, horizontally or north, south, east or west -- if it was a floor cut. This is the day and date that I cut them. And this is the position that I cut them in; whether it was -- (Referring to log and explaining to Mr. Hoffmayer.)

MR. HOFFMAYER: Well, do you mean -- like in some ways, you noted floor or wall, and that's what you were --

[REDACTED] Right. It's a position. And it also states what paper work I had to cut them. Basically, that's what that is.

MR. HOFFMAYER: Okay. That was my understanding of it. I guess -- the main thing I'd like to focus on right now is this column that says "rebar cut". Like say, going down the first page -- I'm trying to understand from this log -- sometimes you made cuts or you made drills

1 and you drilled holes and you didn't hit rebar where there
2 was none of it cut. In other cases, I can see clearly
3 that there are notations on here that says "ten percent
4 depth" ground indicated being cut.

5 [REDACTED] Right.

6 MR. HOFFMAYER: What I'm trying to determine is,
7 in my view, looking down the log, is to be able to dis-
8 tinguish between when you cut rebar and when you just
9 drilled holes and did not cut rebar; and maybe -- Could
10 you clarify--like coming down this list, how would you
11 determine from here the first time you feel that you cut
12 rebar, as to the way it would be indicated?

13 [REDACTED] All right. The first cut; it was
14 a two and a half inch depth and it was running north and
15 south. (Referring to log.)

16 MR. HOFFMAYER: Okay. So, that's not a depth of
17 drill?

18 [REDACTED] No. That's where I hit the rebar at.
19 That's the depth I hit the rebar at. Okay. It was two
20 and a half inches in the concrete and it was running
21 north and south. And I didn't start keeping percentage -
22 wise until further back in the pages. (Referring to log.)

23 MR. HOFFMAYER: Yeah.

24 [REDACTED] And I think -- which all of us do
25 that, I think, when we have a log, you know, after we get

1 into it we realized we wanted to keep track of. Upper
2 supervision wanted to know approximately the amount of
3 rebar I cut out. All this is documented out there. All
4 this, I had paper work to do. Basically, this is what
5 the list is for.

6 MR. HOFFMAYER: So, on the second page, about the
7 middle, I start seeing notations: Depth four inches,
8 ten percent cut.

9 [REDACTED] Right. That means that I took out
10 ten percent -- I don't know if you've seen this machine,
11 but it's a hollow drill. It's like a piece of pipe with
12 drill bits on it, and when you drill it, whatever -- the
13 core of it stays in the drill, and when this core was
14 taken out after each hole, then I determined the amount
15 rebar and went through -- I can't even think of his
16 name now, but I went through the engineer that issued
17 the CMC's and stuff, and I would show him and he would
18 tell me what size rebar it was and then, I would determine
19 the amount percentage-wise to cut out of that rebar.

20 MR. HOFFMAYER: So, just to go back and clarify
21 this, this first one is an instance where you would say
22 that you cut rebar.

23 [REDACTED] Right.

24 MR. HOFFMAYER: But it doesn't indicate; for example,
25 like you did later, the percentage-wise cut.

1 [REDACTED] Right.

2 MR. HOFFMAYER: So, all of these on the first three
3 going down here -- or even say -- What is this? About
4 the tenth one down? The bottom of the first grouping.

5 [REDACTED] Yeah.

6 MR. HOFFMAYER: The 704. Now, that says -- What
7 would that say?

8 [REDACTED] Vertical at two and a half inches.

9 MR. HOFFMAYER: But does that mean, in this case,
10 you went down two and a half inches and you hit rebar?

11 [REDACTED] Right. And cut it.

12 MR. HOFFMAYER: Okay. And even in this grouping
13 here, these would be all the instances of cut rebar?
14 (Referring to log.)

15 [REDACTED] Right.

16 MR. HOFFMAYER: Okay. And the same with this
17 third grouping down where -- This is really more of a
18 notification for like, CMC 00979 -- In this case, you
19 kind of just wrote it across.

20 [REDACTED] Right. This one, I cut rebar.

21 This one -- This was more or less for to protect me
22 because my boss was wanting production and saying, "What
23 are you doing?" And he come back and this was to show
24 that I drilled eighty-one holes with a hilti gun. This
25 was twenty-six holes, drilled full depth with Drillco and

1 a hilti gun, but no rebar was cut. Well, it was just a
2 hilti bolt gun due to wire mesh. In other words, I hit
3 wire mesh in the concrete. (Referring to log.) And this
4 was twenty-five holes, drilled at full depth with full
5 core rebar removed. (Referring to log.) All right. All
6 rebar running east and west. What was done here, now:
7 These twenty-five holes that I drilled there, I got a
8 full core of rebar -- solid round core of rebar. So,
9 whatever rebar was running on these twenty-five holes,
10 I cut a full -- whatever size the hole was, I cut a full
11 bolt in that rebar. Now, see, the outer hole was like,
12 anywhere up to a inch and a quarter, but the actual inner
13 hole core I got out was actually an inch.

14 MR. HOFFMAYER: When you drilled in, you came out
15 with the metal.

16 [REDACTED] That's right. The full core of
17 metal.

18 MR. HOFFMAYER: So, that's what that would indicate?
19 (Referring to item on log.)

20 [REDACTED]
21 Right.

22 MR. WESSMAN: Now, this foregoing discussion is
23 all on the first page of the log sheet.

24 MR. HOFFMAYER: It seems after this as you went
25 on in the later pages, most of the time you cut rebar,
you indicated the percentage.

1 [REDACTED] Right.

2 MR. HOFFMAYER: I noticed mainly on the first page
3 that that didn't seem to follow.

4 [REDACTED] The first page was basically, they
5 didn't know what procedure they needed or what type of
6 work they needed to actually cut rebar. Some were cut
7 on an RFIC. Some were cut on a CMC. Some were cut on
8 a three part memo. Until they established what was legal
9 or what paper work was needed and who'd -- I think the
10 civil engineer is the one that issued the papers. They're
11 the only ones that could issue the paper and I couldn't
12 legally cut a hole until I got this piece of paper. I
13 mean, the plant manager couldn't come up and tell me to
14 cut a hole.

15 MR. HOFFMAYER: All right. Now, when I look through
16 most of this document, in most instances that I see when
17 I went through it, I see CMC's or a documentation that
18 corresponds to where you cut rebar.

19 [REDACTED] True.

20 MR. HOFFMAYER: Now, do you know of any instances
21 in this particular log where you could say where you
22 knowingly cut rebar and there was not a corresponding
23 document?

24 [REDACTED] That's the mistake I made out there.
25 I should have kept a log book on instances that wasn't legal.

1 This is ninety-nine percent legal. All this is legal
2 documentation. My mistake was not making a log on stuff
3 that I was ordered to do other than the legal stuff.

4 MR. HOFFMAYER: My problem when I look at this -- That
5 was my impression and I wanted to understand if I'm missing
6 something here.

7 [REDACTED] No. That is -- ninety-nine and
8 three quarter percent of that would be legal. I mean,
9 there's paper work and documentation backing all of that
10 up.

11 MR. WESSMAN: [REDACTED] we can take that then and go
12 back into each of them CMC's and find the results of the
13 engineering disposition and analysis for everyone of your
14 cuttings.

15 [REDACTED] There should be documentation on
16 every hole that is in that log because that is every
17 hole that I drilled legally.

18 MR. WESSMAN: Well, we can certainly test each example
19 of those and see whether there's a documentation problem.
20 Now, you say there are some that were not legal, to use
21 your term; do you have any specific locations you can
22 send us to or ways that we might try and assess the
23 significance of those that didn't get logged?

24 [REDACTED] Without going out there and putting
25 my finger on something, I doubt if I could -- It's been so

1 long since I've been out there and things change -- You
2 go work in a place a month and go back and you don't
3 realize there's anything being done in that month, but
4 you come back after a month and you say, "My God, where
5 did all this stuff come from?" But as far as saying,
6 "Go to wall A, wire Z," there's no way I could do that.

7 MR. HOFFMAYER: Which structures did you work on?

8 [REDACTED] I worked on everything out there
9 in the plant except the dam. I had access to every
10 building and cut rebar in every building except reactor
11 one or containment one; which is the same. That's the
12 only building that I did not cut rebar in.

13 MR. SHAO: Except containment one, you worked on
14 other concrete buildings.

15 [REDACTED] Right. That's the only building
16 I did not cut rebar in, to my knowledge. Now, I loaned
17 out rebar drills under orders, that went into that
18 containment building, and what was done, I couldn't tell
19 you because I wasn't there.

20 MR. SHAO: What was this other rebar? Rebar number
21 eleven or number eight -- not number eighteen, actually.

22 [REDACTED] Really, I don't know without looking
23 at the drawings. It just depends because we were down in
24 lower auxiliary building and safeguard building, 790
25 elevation. And I went over this with [REDACTED] I

1 think that was his name. He was the civil engineer. You
2 know [REDACTED]

3 MR. HOFFMAYER: I don't know him. I've seen his
4 name on some CMC's.

5 [REDACTED] He worked with one of the hanger
6 groups out there. He's an engineer. He's the one that
7 issued where to send them to.

8 MR. SHAO: He's the one that issued these --

9 [REDACTED] Right.

10 MR. HOFFMAYER: These CMC authorizations that I
11 said.

12 [REDACTED] Right. And we went down there
13 and that's when I went over the rebar and we were drilling
14 inch and a quarter holes, and when we went over the rebar
15 drawings, come to find out that the square part was less
16 than an inch. There was that much rebar down there and
17 we couldn't drill. This was when we were trying to drill
18 the holes for hanging cable tray supports with hilti drills.
19 They were just impossible. You'd drill seventy, eighty
20 holes and never get two out of four holes that went up
21 on the wall. And that's when they redesigned it and
22 went to a different deal and we started cutting rebar
23 down there.

24 MR. HOFFMAYER: All right. We brought up several
25 subjects at once. I'd like to get back to the log and

1 then, maybe we can get into this other.

2 [REDACTED] All right.

3 MR. HOFFMAYER: Just with regard to the log, do
4 you recall instances on this log where you cut rebar --
5 a lot of rebar in one area as opposed to --

6 [REDACTED] I can't remember the exact place,
7 but they called it a tunnel that come out of reactor one.
8 There was a tunnel down there. We had one hellacious
9 owner down there that cut just -- Well, they're humongous
10 plates going on the wall. They were an inch and a half,
11 two inch plates, and there were several hilti bolts that
12 had to hold those plates up, and they were having -- just
13 like I said before, they couldn't get a hilti drill in
14 there, so they called my rebar crew down there and we
15 drilled ungodly amount of holes down there in this
16 tunnel. Basically, they were just scattered around
17 everywhere. But this was -- in fact, this was the only
18 one where we did a majority. We went in this tunnel,
19 say a hundred feet long and just drilled rebar every-
20 where.

21 MR. HOFFMAYER: Let me show you this page. It's
22 the eighth page, and I guess the best way to denote it,
23 it's the fifth column. It shows CMC 3307. Is this
24 the area -- I've seen you mention before this tunnel
25 area, and I'm just trying to characterize it as -- I

1 noticed on this particular page and the following page --
2 as you can see, it's a substantial area where you did a
3 lot of cutting. Is this --

4 [REDACTED] It's possible. These numbers don't
5 mean nothing to me anymore.

6 MR. HOFFMAYER: I'm just trying to understand. I'm
7 not trying to pin you down in any way. If this is the
8 service water -- SWI must be service water.

9 [REDACTED] Okay. That's probably what it was.
10 Service water intake. I think that was one of the tunnels
11 that we done all this cutting in. I don't know if
12 they've done anymore since.

13 MR. HOFFMAYER: Because I noticed on a later page --
14 about three pages back, we had a series of CMC's labeled
15 3664 through 3669. They also appear to be the same
16 elevation -- the same general location as this, and I
17 believe -- I thought the word "tunnel" was noted here.
18 But that, in my looking at the log, seemed like an area
19 where there was quite a bit of cutting and I wanted to
20 understand from your point of view: Would that be an
21 area you would characterize as being a substantial amount
22 of cutting taking place?

23 [REDACTED] If it's in that tunnel -- If that's
24 the general area, then, yes, I done a lot of cutting down
25 there.

1 MR. WESSMAN: Are there some of these unauthorized
2 or illegal cuts in that tunnel area?

3 [REDACTED] To my knowledge, no. But when
4 you're running fifteen, twenty men, you don't know if
5 they're going to keep it up to snuff when you've got them
6 in -- like I say, I had that whole plant and I was just
7 on a dead run and you can't watch fifteen, twenty men
8 when you've got them scattered all over that job site.

9 MR. WESSMAN: Okay.

10 MR. HOFFMAYER: One other question I had about the
11 log is the next to the last page, and at the top of the
12 log, right below the first line, there's a notation
13 here which says, "Ordered to drill by [REDACTED]
14 floor, SWI". That's the only notation I noticed on this
15 log like that, and I was curious -- I also noted under
16 the rebar cut depth/direction column, right below that,
17 it says, "None" with a question mark.

18 [REDACTED] Like I said, that's ninety-nine
19 and something percent pure. And that would be one of the
20 -- I must have been mad that day and wrote that in there
21 at [REDACTED] because [REDACTED] is the one that I have stated several
22 times that I was ordered to loan out my drills, I was
23 ordered to drill several holes -- I'm talking in the
24 hundreds -- by him that was not authorized, and he was,
25 at that time, a three striper, which was above my two

1 striper, and I went to my two striper, [REDACTED] I
2 said, [REDACTED] he's ordering me to do this." He said,
3 "Man, what can I do? He's my boss." I said, "Well, he's
4 either ordering me to do it or hit the road. And I'm
5 not going to throw away a forty thousand dollar a year
6 job when I'm practically -- other than paper work, I'm
7 not doing nothing to earn it." And this would be one
8 of the deals in there where he ordered me to do it. This
9 was up on -- I can't remember where it's at that that
10 was. I think it was up on the deck; what they call a
11 turbin deck.

12 MR. WESSMAN: What's the last name of this individual

13 [REDACTED] that you were --

14 [REDACTED] He later resigned
15 and went back to welding. As far as I know, he's still
16 out there welding. He was under [REDACTED] only. That's
17 the only guy he had to answer to.

18 MR. WESSMAN: Okay.

19 MR. HOFFMAYER: But in this particular column, it
20 says, "None". The impression I have here is that you
21 did not -- you drilled those holes, but did not cut rebar.
22 Obviously, it's so many years ago, it's hard to remember,
23 but --

24 [REDACTED] '79. Yeah. It's a long time ago.

25 I can't honestly answer you because I don't remember. I

1 just don't remember.

2 MR. HOFFMAYER: One other thing that brings to
3 mind on this column: I noticed under the day and date,
4 in the right hand part of that column, there's a circled
5 number. I assume that that is the number of holes drilled
6 at this location; is that correct?

7 [REDACTED] Correct.

8 MR. HOFFMAYER: Now, most of the time, most of
9 these pages show that even -- On many cases, there are
10 ones, but there are other numbers.

11 [REDACTED] A lot of times, see, I'd be called
12 out on a job and they would have three holes in a four
13 holer plate, and all I'd have to do is get the fourth hole
14 and basically, hit it with the hilti drill, and then, I
15 would come out and they would issue the CMC to cut the
16 fourth hole because they had tried so many holes and
17 couldn't get it. That's why a lot of times, I'd go
18 out and set up and drill one hole and go about my business.

19 MR. HOFFMAYER: I think that's basically all I
20 have about the log. I have several other questions. One
21 thing I'd like to understand, when you made these drills
22 and you drilled to the rebar, this was the Drillco machine,
23 and I understand it has a water cooling device.

24 [REDACTED] True.

25 MR. HOFFMAYER: How long does that take, approximately,

1 on an average, to make a drill?

2 [REDACTED] It depends on the size of the hole
3 or how -- I mean, if you know anything about steel, you
4 can get some termperate steel -- you can get some steel
5 in there that's just hard as can be, and you can go any-
6 where from fifteen minutes a hole to as much as -- there's
7 one hole down there in auxiliary that I burned out, I
8 think it was nine inch and a quarter drills that took me
9 like four hours to get to a piece of rebar, and these
10 drills were a hundred and something dollars apiece, and
11 there was -- I think it was nine drills that I burned out.
12 So, it varies. It just depends on the rebar and how long
13 it takes and your set up time. Are you talking set up
14 time or the actual drilling time?

15 MR. HOFFMAYER: Well, all. If one wanted to go
16 out and cut a rebar, from the time you would have the
17 machine and got to the point where you would achieve this
18 job?

19 [REDACTED] It would be anywhere from fifteen
20 minutes to two hours on the average.

21 MR. HOFFMAYER: Now, fifteen minutes would be
22 cutting a small rebar?

23 [REDACTED] Would be cutting a small rebar.

24 MR. HOFFMAYER: Anything of significant size, it
25 would take how long?

1 MR. MESSERLY: Oh, I would say anywhere from --
2 If it was, say, two inch diameter rebar, I'd say it would
3 take anywhere from forty-five minutes to two hours.

4 MR. HOFFMAYER: And that would be with water cooling?

5 [REDACTED] Right.

6 MR. HOFFMAYER: And how many people would that take?

7 [REDACTED] Usually, I sent two to three people
8 on a crew, on each machine.

9 MR. HOFFMAYER: Could one person do that, do you
10 think?

11 [REDACTED] Yeah. Without a machine.

12 MR. HOFFMAYER: Well, maybe clarify that. What
13 do you mean, "without a machine"?

14 [REDACTED] Well, let me find out where you're
15 trying to get at and --

16 MR. HOFFMAYER: Well, I'm trying to understand if
17 someone were doing this unauthorized, how big a group and
18 how long would it take him to achieve this?

19 [REDACTED] One man -- What you're trying to
20 get at, I think, is I stated several times that I loaned
21 these drills out. Your other NRC people said it was no
22 way in hell that they could drill a hole without the
23 water cooling machine. I called him a liar then. And I'll
24 take anybody out there right now and I'll take a half inch
25 drill motor, I'll take one of them drills and I will drill a

1 hole through rebar. And all you need is a bucket of water
2 and a plug in. That's all you need. Because I named
3 several people that I was ordered to give -- I don't
4 remember their names now, but I named several people out
5 there that I was ordered by this [REDACTED] to loan out
6 my drills. Now, where my water cooling machine may take
7 one drill, they might take a half a dozen drills to drill
8 the same hole. But I have seen it done out there. I
9 have seen it done with my own eyes where a man took a
10 half inch drill, a bucket of water, a paper cup, and sat
11 there and poured water on it and drilled a hole through
12 rebar.

13 MR. HOFFMAYER: And I take it, that was unauthorized.

14 [REDACTED] Definitely.

15 MR. HOFFMAYER: Is there any way to characterize
16 how many times this may have occurred?

17 [REDACTED] In the time I had it, I would say
18 in the hundreds of times of drill bits that I loaned out
19 that I know for a fact were drilled by actual holes that
20 [REDACTED] ordered my crew to drill with the machine.
21 There's hundreds of holes out there. They're scattered
22 all over out there from one side of the job site to the
23 other and all in between; except, I never worked in reactor
24 two or containment two and no holes were drilled that I
25 know of in reactor one or containment one.

1 MR. HOFFMAYER: So, when they borrowed this machine
2 to drill these holes, was it their intention to drill
3 through concrete or was it specifically their intent to
4 drill through --

5 [REDACTED] You don't need the machine to drill
6 through concrete. You've got hilti drills out there.

7 MR. HOFFMAYER: In other words, hilti drills are
8 more than adequate to drill through the concrete.

9 [REDACTED] More than sufficient.

10 MR. HOFFMAYER: It wouldn't be that someone would
11 like to do the job a little quicker and therefore, got
12 the better drill?

13 [REDACTED] This would not do it any quicker
14 than a hilti drill. The only thing this would drill,
15 if you ran into anything, the drill would go through
16 anything you hit.

17 MR. WESSMAN: [REDACTED] let me characterize and understand
18 this magnitude a little better. You said, to your knowledge,
19 over the period of time that you were out there, you
20 believe there are hundreds of these holes all over the
21 site. Now, you were there for several years and lots of
22 holes were drilled properly and with documentation. Can
23 you give me any feel for what "lots of holes" would be
24 that were done properly? Are we talking like ten thousand
25 or nine hundred or maybe literally a million holes? Do you

1 have a feel for the magnitude of holes that are done out
2 there?

3 [REDACTED] Man, no way. You're talking numbers
4 I can't count that high.

5 MR. SHAO: What percentage-wise? Very small
6 percentage?

7 [REDACTED] You mean correctly or incorrectly?

8 MR. SHAO: Incorrectly.

9 [REDACTED] Incorrectly, I would say as much as
10 twenty percent -- incorrectly holes -- in the time that I
11 had the Drillco machine. I would say as much as twenty
12 percent. See, what y'all don't realize -- [REDACTED]

13 [REDACTED] You
14 are pounded in your head down there constantly, daily,
15 hourly: Production. Production. Production. That's
16 what you're screamed at. And you go out -- and that one
17 page says that I drilled eight-seven holes. I have
18 drilled as much as a hundred holes on a four bolt pattern
19 and not got a bolt pattern that I could get past QC within
20 the tolerances they allowed you in your specifics -- what,
21 6.9. Now this is the frustration you got and you've got
22 a foreman and a supervisor that you contended saying,
23 "Man, I want it on the damn wall. I don't care how you
24 do it. Just get it up there." This is what I screamed
25 from the beginning. Nobody realizes the pressure unless

1 they go out there and sit down underneath that supervision
2 you've got out there. And a guy will do anything to get
3 that up and get that man off of his back.

4 MR. SHAO: They just try to rush you, huh?

5 [REDACTED] You're pushed constantly. And that
6 man's sitting up there -- Everybody answers to somebody
7 else. But the man that's doing the actual work is the
8 one suffering. Because he's drawing that payroll. He's
9 got a family. He's making thirty-five, forty thousand
10 dollars a year, and he's going to do what he's told.
11 And if he can shorten -- I've sat there and watched hilti
12 bolts being welded on the back of the plates so they
13 could make a tort. But I'm talking out of my sense --
14 why would I make up anything like this? I ain't making
15 no money at it.

16 MR. WESSMAN: Okay. Let's go back to the other
17 questions that you have, if we can, Charlie.

18 MR. HOFFMAYER: You may have answered this and
19 maybe we can go over it if you have. With regard to
20 yourself or your own crew, most of what you've done is
21 documented, but I guess you did say earlier that you did
22 do a lot of drilling and didn't document it here.

23 (Referring to log sheet.)

24 [REDACTED] Yes. I did.

25 MR. HOFFMAYER: Okay. That drill through rebar.

1 [REDACTED] Right.

2 MR. HOFFMAYER: Now, in terms of what's in this
3 log as opposed to what you drilled that was undocumented,
4 is there some way of characterizing the amount?

5 [REDACTED] No. Except, I would say -- I keep
6 falling back on hundreds, but I would say my crew actually
7 drilled maybe five percent of these holes. All these holes
8 are correct. But I'd say five percent more that I was
9 ordered personally by my crew to drill. Now, this is
10 just by my crew only.

11 MR. HOFFMAYER: But from this log, the number of
12 holes that were drilled -- If we added up all the rebar
13 that you cut, you'd say maybe about another five percent
14 of the amount that you cut would be unauthorized?

15 [REDACTED] Unauthorized cutting that I didn't
16 have the paper work for and was ordered to do so by the
17 same [REDACTED]

18 MR. HOFFMAYER: This log is pretty sequential in
19 terms of the days. Well, I shouldn't say this, but my
20 impression is it's a pretty accurate documentation of the
21 time that you spent there.

22 [REDACTED] True.

23 MR. HOFFMAYER: Okay. So, within each day, you
24 may have cut one or -- Well, whatever the five percent
25 comes out to be extra, during this time period or was it

1 another time?

2 MR. MESSERLY: I would say daily, I cut -- I was
3 told to cut; within a six day period, I would say four
4 days of that six day period, I might have one or two hol-
5 daily that were illegal -- my crew -- under orders.

6 MR. HOFFMAYER: All right. I won't attempt to
7 ask you where and when because -- I mean, we've asked you
8 this so many times and --

9 [REDACTED] I can't. I've been asked by
10 everybody and there's just no way. Things change. You're
11 talking '79 when I done this and they have also had the
12 same knowledge out there and the people that has ordered
13 knows where it's at and they've had chances to change it.

14 MR. WESSMAN: Let me ask that question a slightly
15 different way. Can you think, perhaps, of any particular
16 single example of one of these unauthorized cuts where,
17 by virtue of other circumstances or disagreement or some-
18 thing, that this sticks out in your mind and you might
19 point us to that particular singular example?

20 [REDACTED] The only one I can think of would
21 be over there on the turbin deck around them big tanks
22 that are covered; they got that aluminum covering on them;
23 the tanks on top of the turbin deck. I don't know if --
24 they might be under roof by now, but there was several in
25 there that I damn near got in a fight with [REDACTED] over

1 drilling the holes, where you got a look-out here and
2 a look-out there and start drilling holes; and we had a
3 big argument and my whole crew was over there, and there
4 were several drilled in that area; I'd say maybe twenty-
5 five holes drilled in that area on that turbin deck that
6 were nondocumented holes.

7 MR. WESSMAN: Do you recall which end of the turbin
8 deck? Were they near the generator end of the turbin or
9 the turbin --

10 [REDACTED] Well, it would be near the -- them
11 tanks run this way down through there, and then, the turbin
12 is over here on turbin one, and it would be in that general
13 area where them long tanks are. And there was also about
14 five I know that hilti bolts are welded on the back side
15 in order to get a tort to in that same area.

16 MR. WESSMAN: Is this at the end of the turbin deck,
17 closest to the reactor building or at the far end of the
18 turbin deck?

19 [REDACTED] You know where that overhead crane
20 is that goes over the turbin?

21 MR. WESSMAN: Yeah. But it moves back and forth
22 on rails.

23 [REDACTED] That's what I'm talking about. If
24 you was --

25 MR. HOFFMAYER: This is unit one; right?

1 MR. MESSERLY: Yeah. I have done nothing in unit
2 two. I never have worked anything over there in unit two
3 other than maybe when I got busted back in June of '82.
4 I went over there and hung a couple of small board hangers
5 in the auxiliary, safeguard and up on top of that -- whatever
6 they call it now; I don't even remember. But all of my
7 work was done in unit one, completely in one. But getting
8 back to that, where that overhead crane is -- if you're
9 standing with your back to the reactor and looking at that
10 overhead crane, about mid-ways down where them tanks are
11 running, is where them holes were drilled. It would be
12 sort of on your right hand side, looking at that overhead
13 crane.

14 MR. WESSMAN: Okay. I understand the location
15 you're describing, I think.

16 [REDACTED] That's all changed in there now,
17 I guess. I haven't been there.

18 MR. HOFFMAYER: If you're at the turbin building,
19 looking at the reactors --

20 [REDACTED] No. Your back's to the reactor
21 and you're looking at that overhead crane that goes back
22 and forth on a railroad tracks; it would be to the right
23 of that, where them long tanks are. They got some kind of
24 a stainless steel covering on them or something. I don't
25 even know what they're used for, but there are several of

1 them tanks, and right along side of them tanks, in between
2 them tanks is where several --

3 MR. HOFFMAYER: Okay. Were these holes drilled --

4 [REDACTED] In the floor.

5 MR. HOFFMAYER: -- to support? Do you know what
6 the holes were there for?

7 [REDACTED] I have no idea. Because when we
8 were up there, the tanks were just there. There was no
9 lines run through them or nothing, so I don't know whether
10 they were -- just small pipe hangers is what they were.
11 They were for pipe. Some kind of pipe that went to them
12 tanks.

13 MR. HOFFMAYER: And these were being drilled into
14 the floor?

15 [REDACTED] Right. They was in the floor of the
16 turbin deck. This was all outside at the time.

17 MR. HOFFMAYER: Okay. The only other question,
18 I guess, is going back to -- I think you've characterized
19 to me how much you think may be extra that you may have
20 drilled. On the other hand, you loaned out -- Did you
21 loan out the drill bits or the actual Drillco machine?

22 [REDACTED] Ninety percent of the time, it was
23 the drill bits.

24 MR. HOFFMAYER: Which were installed into the hilti
25 gun?

1 [REDACTED] No. They weren't using the hilti
2 gun. What they would do; they made several apparatuses
3 You had a thing that screwed on the end of these drills.
4 Actually, these water cool drills that I used just had a
5 water chamber, going through a half inch drill motor, and
6 they went into the hollow end of this drill bit and there
7 was an adaptor that fit on these and the water went through
8 there, so it went directly down in toward where the drill
9 was cut. All right. They take these adaptors down off
10 the bolt that fit the end of my drill which I think was a
11 half inch bolt that screwed on these drill bits, and they
12 would cut the bolt head off and stick them right into a
13 drill motor.

14 MR. HOFFMAYER: Okay. I guess he's probably already
15 answered this --

16 MR. WESSMAN: You want to go off the record for a
17 minute?

18 MR. HOFFMAYER: Yeah. Let's go off the record
19 because I hate to ask the same question over.

20 MR. WESSMAN: Okay. Let's go off the record.

21
22 (Off the record.)

23 MR. WESSMAN: Let's go back on the record. And
24 [REDACTED] would you clarify for us your opinion as to the
25 percentage of unauthorized holes that you may have drilled

1 and the total percent of unauthorized holes that you feel
2 may exist out there.

3 [REDACTED] Okay. I would say I drilled seventy-
4 five percent, and I would say under crafts, fifteen percent
5 illegal holes.

6 MR. SHAO: Yeah. But they're not added, though.
7 See, your five percent, their fifteen percent averages ten
8 percent if you drilled half of them.

9 [REDACTED] No. I'm saying twenty percent total.

10 MR. WESSMAN: Let me say it a different way, [REDACTED]
11 In your mind, twenty percent of the holes drilled out
12 there are unauthorized holes; of that twenty percent,
13 you contributed five percent and others contributed
14 fifteen percent.

15 [REDACTED] Yeah.

16 MR. SHAO: That doesn't make sense to me. If you --

17 MR. WESSMAN: Let's talk about it later. I think
18 I understand what we're saying.

19 MR. SHAO: You mean that you drilled five percent
20 of the total holes and others drilled fifteen percent of
21 the total holes --

22 MR. WESSMAN: Giving you twenty percent.

23 MR. SHAO: He says five percent of what he drills.
24 It's different from fifteen percent what others --

25 MR. HOFFMAYER: Can we back up a minute? First of

1 all, we're talking about like the period that's represented
2 by this log, which is probably running from like [REDACTED]
3 [REDACTED] that's a little over a year
4 when you were involved in doing this, and during that time
5 period, this is the record of all the rebar that you
6 drilled, and you feel that you drilled maybe in excess of
7 that, about another five percent, not recorded on this log.

8 [REDACTED] Right.

9 MR. HOFFMAYER: Okay. Now, my understanding was
10 that when rebar was drilled, most of the time, the orders
11 to drill rebar were given to you.

12 [REDACTED] True.

13 MR. HOFFMAYER: Now, that's why I'm a little
14 confused. If other people borrowed your drill and were
15 out drilling rebar, what percentage of what are we
16 talking about? In other words, were they drilling holes?
17 They were authorized to drill holes; if they hit rebar,
18 then they'd have to come back to you through the chain
19 which would eventually get back to you.

20 [REDACTED] That's true.

21 MR. HOFFMAYER: Okay. Now, on occasion, they maybe
22 would not do that; they would go borrow a drill and go
23 drill it themselves without authorization. That's what
24 we're talking about; right?

25 [REDACTED] Right.

1 MR. HOFFMAYER: So, that's where I get confused
2 with this twenty percent now. Can we go off the record?

3
4 (Off the record.)

5 MR. WESSMAN: Let's go back on the record. Let's
6 talk about the number of drills that you may have used
7 during a one year period. [REDACTED] can you give us any feel
8 for how many drills you may have ordered during a one
9 year period?

10 [REDACTED] I really can't tell you how many
11 drills I ordered.

12 MR. WESSMAN: Would you say you had ordered several
13 thousand or several hundred?

14 [REDACTED] I would say it would be in the
15 thousands.

16 MR. WESSMAN: Would we be talking numbers in excess
17 of ten thousand or excess of fifty thousand? Those are
18 big numbers.

19 [REDACTED] No. I don't think there was ten
20 thousand drills ordered.

21 MR. WESSMAN: Okay. Give me a feel for how many
22 drills may have been stolen or taken out of your shack
23 over this one year period?

24 [REDACTED] I would say no more than five percent.

25 MR. WESSMAN: Can you give me a feel for how many

1 drills might have been borrowed from you under the orders
2 of some other individual?

3 [REDACTED] Well, I include this in that five
4 percent.

5 MR. WESSMAN: You would include the borrowed drills
6 in the five percent that somehow left your shack, whether
7 they were borrowed or stolen?

8 [REDACTED] Right.

9 MR. WESSMAN: All right.. Now, give me a feel for
10 if a man uses a drill cutting machine properly and appropriately
11 cools the drill bit, how many cuts would he be likely to
12 get with a single drill bit?

13 [REDACTED] Three to five holes. Now, let me
14 clarify. That's depending on the size of the drill and
15 what size rebar you hit and what percentage of the rebar
16 you're cutting.

17 MR. WESSMAN: So, perhaps in the worst case, if he
18 hit a lot of rebar, he may only get three holes. If he hit
19 almost no rebar or just a small bit of rebar, he might
20 get as many as five holes?

21 [REDACTED] Five or better. But if he hit a
22 solid piece of rebar and we took out the middle and it
23 happened to be a case harboring a piece of rebar, he might
24 not get one hole out of the drill.

25 MR. WESSMAN: Okay. I think we can look at that as

1 evaluators and now come up with some feeling for the
2 quantity of holes that might have been drilled either
3 illegally or with borrowed drills or with stolen drills,
4 and we'll attempt to make an assessment as to where they
5 might be. Do we have any other questions on rebar drilling?

6 MR. HOFFMAYER: No.

7 MR. WESSMAN: [REDACTED] as we said when we started, we had
8 looked at your other statements and we think things
9 are pretty clear from other documents that have been
10 provided to us. Do you have anything further that you
11 want to share with us at this point and get on the
12 record of this discussion?

13 [REDACTED] Not really. I think my other
14 statements plainly state seventy-five, eighty percent
15 of what I've said out there before.

16 MR. WESSMAN: Do you feel we've adequately covered
17 your concerns in our discussion today?

18 [REDACTED] Yeah. I do; on the rebar.

19 MR. WESSMAN: Do you have any other concerns that
20 you may not have identified to other folks with the NRC
21 or to CASE that you want to raise with us today?

22 [REDACTED] I can't think of any.

23 MR. WESSMAN: Have you given this statement to us
24 today freely and voluntarily?

25 [REDACTED] I have.

1 MR. WESSMAN: Well, we appreciate your time,
2 Let's go off the record.

3
4 (Whereupon this interview was
5 concluded.)
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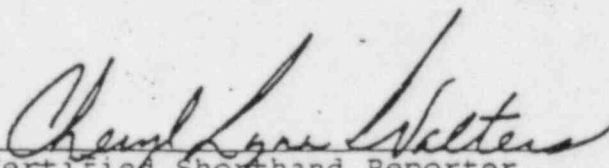
CERTIFICATE OF PROCEEDINGS

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

In the Matter of: COMANCHE PEAK, TECHNICAL INTERVIEW
Date of Proceedings: Thursday, August 2, 1984
Place of Proceedings: [REDACTED]

were held as herein appears, and that this is the original
transcript for the file of the Commission.

Cheryl Lynn Walters
Certified Shorthand Reporter


Cheryl Lynn Walters
Certified Shorthand Reporter