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IN THE MATTER OF:
SWORN STATEMENT OF ROBERT MESSERLY

PRESENT AT THE TAKING OF STATEMENT: MR. RORERT MESGERLY, Witness; MR. B. BROOKS GRIFFIN; MR. RICHARD K. $\quad$.ERR, Interrogators; MS. JUANITA ELLIS MR. DAVID COGBIRN, Court Reporter,

SWORN ORAL STATEMENT IN QUESTION AND ANSWER FORM of ROBERT MESSERLY, taken before David Cogburn, a Court Reporter in and for the state of teaseat the United States Federal Courthouse in the city of Fort worth, County of variant on the $14 t h$ day of April. 2983 at 2:00 pom.. at which time the following proceedings were had:
PROCEEDINGS

MS. ELLiS: For the record, we should indicate that we have handed the NRC officials an April lith letter from CasE addressed to Edward Markey regarding this matter, and also a copy of an affidavit of J.R. Dillingham, $\mathrm{D}-\mathrm{i}-1-1-\mathrm{i}-\mathrm{n}-\mathrm{g}-\mathrm{h}-\mathrm{a}-\mathrm{m}$. And I believe Mr. Miserly has a copy of some documentation which he will be providing also to the NRC.

MR, GPIFFIN: Anything else, Ms.
Ellis?
EXAMINATION

BY MR. GRIFFIN:
Q Mr. Messerly, this investigation is being taken pursuant to the rules of the Nuclear Regulatory Commisiion and we are at the uss. Federal Courthouse, a part of the $0 . S$. Attorney's office, Room 524 in Port Worth, Texas. This is Thursday, April the 14 th, 2983 and were commencing this, it look ~ like, at 2:01 pom. Present for the NRC is Richard $K$. Herr, the director of office of investigations and myself, B. Brooks Griffin.

I understand, Mr. Miserly, that you are a former employee of Brown \& Root and were employed at Comanche Peak Steam Electric Station in Glen Rose,

Texas. Is that correct?
A Yes I was, uh-huh (affirmative).
And present with you is Ms. Juanita Ellis.

MR. GRIFPIN: Mg. Ellis, if Imight ask you, what is your role in relation to Mr. Messerly?

MS. ELLIS: All right. Mr. Messerly is one of the individuals which we had planned to call in hearings which have been postponed for the time being, at least, in the Comanche Peak operating license proceedings.
*R. GRIPFIN: All right. And you are here in his behalf?

MS. ELLIS: Well, yes. Be asked that
I come and join him so that he would have someone here that he felt comfortable with. Ee felt that he would feel a little more comfortable with someone else here.

MR. GRIFFIN: Do you represent hifin in any way other other than just an associate or in the manner you have already described?

AS. ELLIS: In the hearings - I'm not an attorney first of all. In the hearings, though I am CASE's primary representative and
as such do what an attorney, I should say, would do for CASE. And so to that extent I guess sort of quasi representative status. Q All right. Our purpose here today is to ask Mr. Miserly questions concerning an earlier statement that $I$ believe he made to you in which he identified a number of issues that are of concern to the NRC, and we would like to find out more specific details about these is cues. So my questions will be directed to you, Mr. Mesbeidy.

A Okay.
Q The first is cue I would like to go into is the use of a rebar drill or a drill at Comanche Peak that $I$ believe you have indicated was used, that you used in your job and was also used to drill through cement and rebarg is that correct?

A That's correct.
Q Would you mind telling me in more detail what this drill is?

A Well, it's like it says. They call it a rear eater, it's made by Drilco manufacturer who is out of Miami, Florida and it's a- well, they have a diamond tip on them or they have a real hard steel tip on them that cuts through other steel, concrete, anything else that gets in its way. And they are
operated by anywhere from a half to a three-guarter horse electric motor.

Q Okay. And did you use this machine in your capacity as an employee of Brown Root?

A Well, was foreman over the crew that used this machine.

Q All right. Did the use of this machine require documentation from --

A It did.
Q - from engineers?
A It did.
Q And these were Brown Rcotengineers?
A Right. Not Brown Root, they were Gibje and Bili . They are the ones that first started it when they first come on the job.

Q All right.
A A guy named Dean Fellinger is the one if you want his name.

Q Be was the one that issued --
A Be was the one that started out with me on the rebar drilling, and later it changed into fourteen different people if you want to know the truth about it.

Q What was his last name?
A Fellinger. He is still with Gibbs and

Hill and he is out of the Dallas office now. MS. ELLIS: I believe that's F-e-2-1-1-n-g-e-r. I have seen his name. THE WITNESS: DO you know who I'I talking about?

Q During the time that members of your crew used rear eater, did they make sure they hod this documentation?

A Most of the time yes, but there are times that $I$ was ordered by my superiors, a guy named kike Sanders, to order or go out the gate, as i stated in my affidavit before.

Q Are you saying he asked you or told you or ordered you to drill holes or use this drill in the manner in which it was to be used without documentation as required by procedure?

A I am saying that.
0 How many instances did this occur?
A I wouldn't ma mean, just to give you a number, I couldn't do it. Many times.

Q Okay--
A As far as number, you're going to say more than this or less than this, I cant give you a number. I won't give you a number because I don't have that much -- well, how can I aby it, I'muat
not there. The drill-- was ordered to loan the drill out at times. I was ordered to loan a guy a drill bit that he would go get a motor, drill motor out of the tool room and Id never see these three, four, five, six bits again. Now, how many holes were drilled with it there's no telling how much rebar was cut.

A man comes up and says, I want you to give so and so six drills, he's got a pipe hanger that has to go down or cable tray that has to go down - a cable tray support - and we have got three holes in it and we need the fourth one bad. And I went to my general for man at that time who was pete Mason, and $I$ told Pete, I said Pete, Mike keeps giving me these ciders to get this drill out, loan it out to drill holes that are not authorized. I haven't got the paperwork from Dean Fellinger. I said, what can $I$ do? Be said, man, he's my boss, what do you want me to do?

Q Do you know for sure that the people that you loaned this drill to did not acquire the documentation that they needed to stay within procedure and use this drill?

A I'm positive they did not get the procedure, because any time the procedure paperwork
came through it came directly to me fror. Dear. Fellinger and $I$ handed it to my men and seen that the job was done. Because there were areas out there that there wac - strictly was ilaegal at all to drill any kind of rebar or cut any kind of rebar, Relactor one was one of them. No rebar of any kind was allowed to be cut in that builidng anywhere.

0 Is this tho containment building?
A Containment building, Reactor One. Q What the NRC would like to know in this instance is the specific locations where holes were drilled without proper documentation. Is there any way that this information or these locations can be determined, reconstructed or anyplace we can go, anybody we can go talk to to find out specific locations?

A Let's see, Danny Brown bor rowed it several times to drill holes. He's still working out there. Other than getting ahold of Mike Sanders, Danny Brown is the only one $I$ can think of. And as far as sitting here and telling you locations, evidently you haven't been out to that plant.

Q I have, yes.
A Well, I had access to every building on
that place. I have been in every building. I have cut rebar in every building but containment one, except the dam. Now, does that tell you anything? Now, to go tell you to go to a certain wall and see if the rebar is cut is impossible.

Q You understand what we'retrying to do with the information. We're trying to find out specific locations --

A Right.
Q - so that we can verify what you're saying. Let me ask you, in your statement that you made to Ms. Ellis, you identified a diary that you have kept and ia this diary - it's my understanding in this diary you logged in instances or times when this rebar eater was used to drill holes when you did not have the proper documentation; is that correct?

A No. This is - -
$1 \begin{aligned} & 0 \\ & \mathbf{A}\end{aligned}$ Was this just a work -

This goes from 9-7-78 to 10-17-79. This was the period in which $I$ was in charge of the rebar eater. And this documentaision, there's some of them most of them have documentation. It also has the CMC number, and like at the beginning it was a DCDDA or something. I got it wrote on there someplace.

DCDDK if what they etarted drilling rebar with. Then they find out this was not the right documentation. Then they changed it to a CMC, but When they first got it they were doing it on three-part memos.

Q But - -
A And this is every hole that I drilled, legal and illegal, and except for the ones where wy equipment -- I was ordered to loan my equipment out. Q All right.

MS. ELLIS: Just for the record, we probably should mention that Mr. Messerly is referring to a - looks like a twenty-four page listing which he had prepared of these different items and he will be giving that to you.

Q Is this complete rendering of this
diary --
A Uh-huh (affirmative).
Q So --
A It is in complete form.
MR. HERR: IE it marked? Yos bajd legal and illegal. Have you got the illegal stuff marked on it?

TBE WITNESS: No, I really haven't
but if it doesn't - it's going to have to be interpreted by me, which I'll try to explain to you or $I$ can tear off a page and y'all can look at a page --

MR. HERR: Perhaps take a blue pen or a red pen and we'll mark the illegal stuff. THE WITNESS: No, I wor't do that. I can't do that because I didn't keep that much of it. I mean, you can take a look and flip thiough it to see what it's talking about. I didn't do that - as far as that, if I had kept that $\dot{\alpha} i n d$ of a record, it would have been a separate record or something like that. Q Would any of these entries in this document lead us to the locations of where holes were drilled vithout authorization?

A It's very possible. It is very possible.
MS. ELLIS: If I can call your
attention to this third column here, it says "rebar cut" -- it's upside down. But in this column, this is where specific rebar was cut apparently and --

T日E WI'NESS: Yeah, what I did was, I marked down - thin was my own deal and my own idea, because there were certain areas that you
were supposed to take out a percentage of the rebar. If you cut a hole in the rebar it ehould have been reported and thus and so forth.

Q In those instances, did you report it?
A Yes, I'm legal. So is this thing.
0 Okay.
A But it gives the direction of the rebar, which way it was running, north, south, east, west. It gives the depth that $I$ cut the rebar and it also gives the percentage of rebar, just me looking at a piece of rebar and saying $I$ cut fifty percent, ten percent or if $I$ just nicked it, just whatever after the hole was drilled.

Q But on each of those entries, does it tell the location on the site out there?

A It tells you the location, what building, what print number it was taken off of or the hanger nusber itself. So all you got to do is look up that hanger number and it will give you the area and exact location of this particular hanger.

Q All right. So any - which column shows the authorization?

A This one here.
Q Okay. So if that column is left blank,
then thet would be an example?
A Not necessarily blank. I don't know how in the hell to put that without sounding silly.

Q We are going to need to identify - we're not interested in the ones that were done properly. We're only - we want to look at the ones that were done without documentation as required by procedure.

MS. ELLIS: We'rereferring to the fifth column now on the far right.

A No, there's really not no way of telling, not without looking up the hanger number and find out what was done on the hanger. You will just have to go over each individual hanger and check the CMC and see what was legal to cut and what was not legal to cut.

MS. ELLIE: You might mention, too, in this column the ones on the front page all seem to have items by them, but on several of them throughout the listing there were none. So it's not - each one of these items, in other words, doesn't have rebar cut necessarily. It's just as indicated on there. Q At this point $I$ was just trying to limit It to holes drilled without proper authorization, regardless of whether rebar was cut or just
concrete. If the drill was used improperly, we're tyying to identify those instances.

Can you think of any way with this document or any other documents you may know exist that would lead NRC inspectors to specific locations where holes were drilled without proper authorization? Do you gee vhat we're trying to get?

A I sec exactly what you'retrying to do. You're trying to make your job read easy and there's no easy way way to do it. I'm serious as hell there's just no easy way to go to it because you have so many things out there that's been like this, and for me to pinpoint and give you an exact area by this or any other means -- I might be able to walk out there and show you things if $I$ walk with you and say, this was done here and this was done here. But you're asking me to remember back three, four years, too, and if you have ever been in that area, if you go in there a week later it's all different.

Q I understand what you're saying. Can you think of any way that 1 can transmit this information to an inspector or to agroup of inspectors where we might be able to identify these? You're right, we are trying to make it easier in that we can't reinspect all the holes drilled at

Comanche Peak since its beginning, since the foundation was poured.

A This rebar didn't come in until this date here.

Q In other words, we want to address this potential problem.

A I can't think of the guy's name. There's one area down in the tunnel what they call the tunnel area, and he was forman over it when he borrowed that drill. He cut a bunch of rebar down in there and it would be a damn good place to start.

Q If we talked to this man, do you think be would be willing to tell us?

A I can't think of his mame. Yeah, I do. I really do. I'm trying to think of his name; I can't think of it.

Q If you cannot remember his name today would you mind giving us that name when you do cemember it?

A Be's still working out there. He got fired and he was -- he went into the pipe department at Green Hat now. He's a velder.

Q Do you think you vill remember the name eventually?

A If I don't I've got it at home I would
call you, but he might testify. And if you could get shold of a Richard montjar (phonetic), he was a man --

MS. BLLIS: Do you know how to spell
that?
A $\quad M-0-n-t$, something like that. It's pronounced Montjar, but he's in Germany now, I' ll tell you that much.

Q Now?
A Yes. Well, he married a girl in the service is the only reason -- well, he was a year ago. He might be back over here, now but he's married to a girl in the service.
$Q \quad$ Okay.
A But he worked and drilled a lot of holes illegally.

Q Now these illegal holes that you are referring to that he drilled, this was when the rebar was, or the rebar eater was on loan?

A No, he worked for me. But he was also around and could be a character witness to what $I$ am stating as to when $I$ was ordered to do this. And if you could pin that Danny Grisso (phonetic) down, Danny Grigeo used to work for me, too. And if you put $h i m$ on stand and square him in, he will either
perjure himbelf or tell you about holes he drilled when he was working for me and now he is in charge of that operation.

If you could pin him down, but that company has got him sewed down tight. Be's a puppet.

Q First of all, let me tell you, I'm not an engineer. I have an engineering or technical background, but let me see if I can phrase this.

In the holes that vere drilled by your crew members without proper documentation, can you remember any instances or did you witness any instances where damage was done to containment or any of these other areas where the drill was used that would constitute a safety or health hazard or poseible weakening of the structure?

A Well --
Q I know that's detailed.
A I'm not an engineer either. I have been in steel, I have been in supervision, I have been out there vorking. And when an engineer designs something, he designs it for that particular thing, for that particular strength. All right. If somebody comes in there and cuts part of that out without documentation, there's your answer. But I's
not an engineer.
Q So you'resaying, if I understand you correctly, you're saying that if it's done, then wo knows what the effect will be?

A Well, the engineer knows, the engineer that designed it. It he puts in fourteen rebars there and you cut out seven of them, then you have weakened half of them, what he designed it to hold. And $I$ have went down walls in that particular tunnel that $I$ was talking about and we were putting up to hold thirty-two inche lines down there. I wasn't, this guy was if i could think of his name. And we had to cut bunch of rebar down in there.

This was, I'm -- well, quote me if you want to, I think, I'mot sure, but $I$ think this was an area that wasn't supposed to have any rebar cut out of it.

Q All right. Let we ask you one more time because you have accused me of looking for the easy way. I would like to be able to walk out of this room todey and go find examples or instances of holes drilled down there without proper authorization. I hope there's some way we can figure cut how that can be done because we would like to follow up on this.

A If I could just think of one exact hole that I could remember. I know of three on the turbine deck, but $I$ 'll be damned if i can remember what area. There's another deal where $I$ would have to go out and it's completely changed over now, and it would be spot check between three or four hangers.

Q All right.
A In fact, out of the three or four, I think you will find a Bilti-bolt welded on the back side because they couldn't get a bode in the ground.

0 What would it take to refresh your memory as to a possible location?

A I have no idea. The documents you could get is - now, this viuld be Turbine one area whicn would cut it down quite bit. It's around them tanks that they covered with the aluminum siding and insulation. I don't know what tanks, what they are called, them big long tanks up on the turbine deck. And it was right alongside one of them tanks there that three holes rebar was cut in without documentation.

Q Was there anybody else present that might be able to further identify, help us identify this location?

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A There was Richard Montjar. I should have brought my time books with me. I'm not really sure if Danny Grisso was there or not.
Q Is it your personal belief that Grisso could identify locations?
A Yeah, I think he could, but I doubt if you will get him to do it.
Q Is he still employed by them?
A Yes, he's very much employed.
Q All right. Well, I'll tell you, let's move on. We have got several other --
HS. ELLIS: Perhaps if you had Mr.
Grisso appear under these circumstances, you know, swora with a stenographer and so forth, waybe it might enable him to say thinge that he might not feel comfortable saying not under oath.
A I seriously think Danny would. I have known Danny for quite few yeare. I went through a divorce with him and everything else when he was working for me. But right now that company has got him bought and paid for.
Q I can assure you the NRC is not bashful about going and asking, so we will --
MR. HERR: I bave one question I
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would like to ask. Did you see any of these people using the drill improperiy? I know you said you loaned them the drill out, but did you ever see them use it?

THE WITNESS: Oh, yeah.
MR. HERR: And that was during the
time frame --
THE WITNESE: That was during this time frame that this coverg.

MR. HEAñ: Okay, That's the only question I have.

Q Will that document thet you are providing us, will examination of this document, say, by an engineer, would it lead to any locations where such holes were drilled? Seems this fifth columas seere to be filled in.

A What I would do if I was you, I would go pull these CMC's and DCDDA all through it with an engineer, bump it againgt the number of the hanger and see what was authorized to cut and what was not authorized to cut, and then come back and bump it against this, like a hundred percent cut out and if that was really legal in that area to cut out a hundred percent.

Q Do you think, then, a random sampling
done like that is going to reveal instances of holes cut without authorization?

A Oh-buh (affirmative). I really do.
MS. ELLIS: It would seem to me on
that thisd column there where it shows the amount that was cut out, that it would be prudent at least to check all the ones where it says a hundred percent or maybe as much as fifty percent have been cut out.

A Because the way I understand that, on the first part, all this -- these DCDDA's and all chat and the three parts were all illegal.

Q You mean where it says DCDDA?
A Yes.
Q Those are illegal cuts?
A At the beginning they were, and then they changed it to CMC. Now, if thcy went back and covered their butts on that DCDDA I don't know.

Q If we checked all the ones that -- the DCDDA and checked that number it might lead us to locations?

A I would try that firgt and find out if this was a legal document, because according to Dean Fellinger the engineer, that was all wrong until he come up with the CMC -- talk Bob -- CMC idea that
had to be wrote by apecific engineer.
Q As I flip through here, I only see that DCDDA reccrded twice. Are bome of these other items also that type of number?

A All right. Bere's one that was wrote on an RPIC. That was illegal, too. And a DCDDA -MS. ELLIS: Are all of these numbers here, are those all --

THE WITNESS: They could be CHC's and they could be DCDDA's. I'm not real sure about Which they were. God, that's been, '78?

Q Right.
A I really need to sit down - I haven't looked at this other than a couple of days ago since I have been out of it, and i could probably sit down with somebody, and be glad to, to try to more or less interpret exactly how it was wrote and what it is.

Q Okay. We would greatly appreciate that.
A I would. I will; I'll be glad to do it. MR. GRIPPIN: Do you have anymore questions, Dick?

MR. EERR: NO.
Q Tell me now, you say, if I understand correctly that this unauthorized use of this rebar
eater, is it true you were threatened with termination if you failed to loan it out --

A If I failed to do anything that this man said as far as that rebar eater loan-out or drill bits or the whole operation or failed to drill something myself and my crew, I was told that I would be terminated if $I$ didn't do it.

Q Tell me what his name is again.
A Mike Sanders. You have to understand out there exactly what the deal was. At that time inal Goodson was the superintendent. Mike Sanders was, I guess, twenty-six, twenty-beven years old and had never done any $k i n d$ of work like that in his life and he was right underneath bal Goodson as a three-stripe general foreman. And fal Goodson had one thing out of his mouth, and that was production. He didn't come out and say it, but be didn't give a damn how you got it -

Q Okay.
A - as long as it shoved up on paper. Be vanted production, he wanted pipe hangers up, he wanted cable tray supports up and he wanted them on the wall and completed and bought off. He didn't give a dam how they were put up, and this is what Mike Sanders did. And in doing 60 , if they ran into
a problem, you've got to to figure some holes were drilled, a hunded and something holes for one hanger to try and find a decent spot to hang it without hitting rebar. This brings on frustration on the men, they go to their foreman, the foreman goes to Mike Sanders, Mike Sanders says go down and see messerly and drill the damn thing and put it up.

Q I understand. Let's move on. You stated in your affidavit to CASE that you observed or witnessed the use of the polar (phonetic) crane to pull up a piece of thirty-two inch pipe; is that correct?

A That is absolutely correct.
Q I'm not an engineer; I don't understand the significance of this. Could you explain it to me, please?

A All right. What it amounts to is the main steam pipe has a condensation joint like for -expansion joint is what it's called. It's a huge hor $e$ ehoe type shape, and this thing is coming out of the turbine building. All right. This thirty-two inch main steam pipe, it's coming out -it's anchored in concrete all the way around it, it's a fixed object, you can't move it, right? It comes into this expansion joint, makes huge
horseshoe shape and it goes down into each one of the steam generators, which there's four of them, in the containment building.

It was attached through the wall and it was also attached to the steam generator in the compartment inside the containment building. Somebody come along after these pipes had been in there, because somebody else was hollering, production, production, production, and found out that the main steam line was six inches off of location on the vertical way and four inches on the horizontal way off of location. There is a guy -THE WITNESS: What was that guy's name? Have $I$ got his name down there?

MS. ELLIS: I don't think you have got a name in here.

A I'm hell on names today, ain't I? But what this gold hat did was ordered his people to raise it up with the polar crane. I cant remember the exact tonnage that was put on this because they had a big gauge on it that showed tonnage when you pull on it. A big round gauge looks like big clock, and whatever tonnage -- seemed like to me it was eighty-five tons, it was ungodly because everybody scattered when they seen that needle going up as the
crane was pulling on it. The reason l know this for a fact is because $I$ was pipe hanger foreman at that time between 860 and 905 elevation in the containment building. I had all of main steam and all of fourteen-inch feedwater lines that run all through that area.

Q Supports for them?
A I had all the pipe supports. And I had to undo my pipe supports, let him pull this up, Rez Eroom, which is a guy about -- I don't know, if you seen him you would think he's eight foot tall, but he's only about seven feet tall and four foot wide, I'm serious. Look him up out there, you will he's got a head on him that big around.

He was on three tons come-alongs pulling the horizontal way. And they put it into position and once they got intu position, I had to go back d change my pipe support dimensions and hold thet in position. When they cut the temporary ckup that they had welded to the stean generator oose, it flopped like fourteen inches and echoed arough that whole containment building.

0 So you're saying they pus this complete ipe under tension in this movement?

A (Nods head affirmatively).

Q And it was secured into the wall on one end and temporarily unsecured to the steam generators?

A It was temporarily secured, welded to the steam generators with temporary pipe. It's a thirty-two inch line that goes into the steain generators.

Q So the pipe was attached at both ends and the center portion or some portion in between the two ends --

A The expansion chambers is where they moved the pipe at.

Q And they were -- this is a complete unit, so it was put under tension; is that what you're saying?

A Yeah.
Q And then you put in the supports to hold it in thet position?

A The supports were already there. In fact, several of my supports could not be used no longer, that's how far they moved the pipe becaure I was allowed so many degrees for my pipe hangers to be off of dead center of that thirty-two inch main steam pipe. And when they moved it with these come-alongs, and the overhead crane -- several of my

[^0]pipe hangers had to be completely removed and started over again and redesigned to move over to the center of the pipe. They moved it six inches horizontally or six inches - damn it - six inches up vertically and four inches horizontally.

Q And yet the ends remained in the same place?

A (Nods head affirmatively).
Q Today would that same would it be in the same condition as far as you knew it was when it was -- when your supports were put back in place, or reconnected or -

A What do you mean, the same position?
Q In other words, is it still under
tension?
A I would say yeah. Because I know they did -- well, they moved from where it was welded to the steam generator with the temporary pipe. I would imagine now that they have the thirty-two inch pipe going down after they got it on its last location, that they have got permanent pipe in there now, which would still put where it comes through the wall in the same bind that it was originally when they done it.

Q When did this occur? Do you remember
what year?
A Bad to be right before I got fired, in that summer I'm pretty sure.

Q Summer of what?
A 82.
Q Summer of '82?
A Might have been earlier than that.
Q From the way you described it, sounds like everybody knew this was taking place?

A Hell, yes, anybody that was in the reactor. My general foreman, Ed Dean told me to get my people and get the hell out of 860 and go someplace and hide until that idiot got done.

Q Was there an engineer in charge?
A Hell, no, there wasn't no engineer up there. It was just that stupid gold hat that they got up there that they call the pipe fitters. A good friend of mine got fired -- what the hell was his name - he got fired once because of his - MR. HERR: What's his name, the gold hat?

THE WITNESS: Damn, I cant remember his name either. I should brought my paper; I had all that crap wrote down.

NR. BERR: Was he the guy in charge
of moving this thing, the goid hat?
THE WITNESS: Yeah.
MR. GERR: Is there any docimentation
on that?
THE WITNESS: To my knowledge, no. I knew the forman real well. Don't ask me his name. All of a sudden names escape me. I got his name at home, too.

Q You may not know the answer to this question, but just for my information, is it possible for all these people to be involved in what sounded like major operation and management all through the company not know that this event was taking place, including the engineers that would have -- might bave an opinion on any kind of movement of buch a large piece of material? I'm just asking your opinion.

A I want to give my opinion, but $I$ want to try and explain sometining to you. It's very possible, because you got no communication out there between the crafts. You have pipe engineer -- say you're a pipe engineer and $I$ an a cable tray engineer and so forth and so on down, just name any branch in there. We're sitting across from each other in the same office, but we don't tell each
other a dam thing. We don't talk to each other about coffee and yes, it was possible because your management out there, your upper management controls the place. If they want to do it, all they have to do is say, do it. Well, we haven't got the correct paper works. I don't give a damn, I said do it.

Now, what choice have you got? Xou're out there trying to make a buck and feed a family. You ain't got no choice and most of your upper supervision out there at that particular time, they were all a clique that came up from North Carolina and all buddy-buddies, and most of the upper supervision -- thow in the hell I ever got to be a supervisor out there $I$ doa't know because I don't know anybody and $I$ ain't got no kin out there, but that's what all your upper supervision was, and ninety percent of your foremen out there are the same way.

* I noticed that at one place in your affidavit here moving on to different subject now -- you talk about the fact that you reinstalled hangers on the feedwater system?

A Oh-huh (affirmative).
Q This wes, i guess, what, a major zework project?

A I would call it major rework. I wish I had them books. I would like to show you how wany times $I$ rebuile hangers out there.

Q The same hangers?
A Same hangers over and over and over again.

Q I've only got one question on this. You say you worked at that for a long time. Was the work done by your crew done properly as far as you know?

A Yes, sir. It was done exactly right, bought off by $O C$ and everybody else and somebody came through there and said, hey, they have been redesigned wrong, let's tear them down and redo them. And as far as $I$ know on December 7 th, 82 when I left there they were siill working on feedwater lines and $I$ had them all completed on the big feedwater that floods that whole containment area.

Q A different subject again. I notice in your report that you make reference to notice to employees. This is a notice-- I believe it's called a form thres NRC document?

A Yes.
MS. ELLIS: That's a two-folding
deal.
Q While you were employed at Comanche Peak, did you see any of these documents posted?

A Never, In the four and half, five years $I$ was out there, never did $\quad$ see one on any of the bulletin boards, and $I$ had access to that whole plant.

Q All right. If there had been one, do you think you would have noticed it?

A Yeah, because I was always looking for a deal. I read every pamphlet on all the bulletin boards when $I$ ain't got nothing else to do.

Q And what time period -- remind me, what time period were you employed out there?

A From February of 977 until December the 7 th of '82-- or 78 , I think. Well, in February of ' 83 I would have been out there five years.

Q All right.
A And a foreman four years and -- little over four years. or right at four years. I got foreman in June, I went to work in february. I made foreman and supervisor in June and $I$ was fired in June, so right at four years I was supervisor out there.

Q Okay. I want to ask you about the use of
s cuttirg torch on hangers. I don't personally know, is it improper to use a cutting torch to tear down or alter a hanger?

A Not to tear down and alter, but it's illegal to use it in be containment building where I was the entire supervision, when $\quad$ was hanging pipe supports. You drill everything and everything has to go on the wall according to the drill size. I took down a hanger -- took down several hangers that was put up by this general foreman out there that I tried to fire.

Q Which one is this?
A Oh, boy.
Q Was it your general foreman?
A No, he wasn't my general foreman. Ee worked for me. I tried to fire him while he was working for me.

Q You were a foreman?
A Yeah. They cadl them supervisore out there. You got a supervisor, a general supervisor, a three-stripe general supervisor and then a superintendent.

Q I see. Is a foreman higher than a general foreman?

A No. The general foreman's got two
stripes on his hat.
$Q \quad$ So this guy was your boes?
A Huh-uh (negative). He later made general foreman because he went out to Raymond Hebert's house and built him a little sun deck and a little porch and patio and all that, and then he became a general foreman overnight over in pipe hangers. I heard he got fired, which $I$ hope he did.

He had taken a torch and cut the back side of a tube out because a lot of boits are put in like this, the holes in the wall. They are supposed to be straight, ninety degrees off the wall. They're anchored in the wall, poured into the concrete. MS. ELLIS: Eichman inserts.

A Yes. And you go to hang a pipe hatiger on that and they give you a threaded piece of steel and you're supposed to stick it in there and it's supposed to come ninety degrees off the wall. Well, they come off this way and comt off that way and come off this way and this way --

MS. ELLIS: For the record, could you kind of try to describe those angles that you are talking about? That's kind of hard to do sometimes.

Q Let me just ask you, waybe it would be
more clear at least to me that -- were these, I think these are called anchor bolts or something like that?

A You got Richman inserts is what are in the concrete wall, poured in around the concrete. Q And you say these were installed at improper angles --

A Yes.
Q -- for the supports that they were to be attached to?

A Dh-huh (affirmative). HS. ELLIS: Off the record. (Discussion off the record.) (Brief recess.)

Q These bolts that you are discussing, do you know where they were located at the site?

A Are you talking about the Richman inserts?

Q Yes.
A Well, narrow it down between 860 and 905 . I had that whole elevation end all of your compartment rooms.

Q Well, do you know specific ones that were
A The only way $I$ could give you a specific would have -- my record of my hangers that $I$ done
and be able to say, well, this hanger or that hanger was done that way.

Q Would you have recorded the traveler for the hanger if one of these bolts or these inserts A No.

Q -- were improperly inctalled?
A No, because we drilled holes this way, ve drilled holes up, we drilled holes down due to the installation of the insert.

Q If you found an insert that was improperdy installed or not at the correct angie, did you drill these holes to repair it?

A No. You don't drills holes in concrete. Not in the insert.

MS. ELLIS: I misunderstood, so explain how that works with these deals. How do they get into the wall to start with?

THE WITNESS: They tie in the rebar
when they pour the concrete, and they got a piece of foam in ther to plug the hole, and all you do is dig the foam out and stick your
threaded rod in there.
MS. ELLIS: So rather Lhan drilling a hole to put them in to begin with, they have some kind of a form or somathing and they are
poured -- initially when they pour the concrete they are in there to start with?

THE WITNESS: Originally their plans were to put in so many inserts in a wall area or ceiling or whatever. They just put in a bunch of inserts; ever so many feet they put in an insert. And hopefully what they were hoping was they could come back and put a pipe support, a cable support or electrical support, whatever, a conduit and use these inserts that were put in there - which turned out they didn't use talf of them -- and they had to be grouted over the ones that-iweren't used or had to have a hole drilled in there by a Bilti drill in which they changed the entire operation on unit two and went to a solid steel wall imbedded in the concrete with studs welded right to the steel wall and the concrete poured around them.

Q Are you saying that they put this steel in the wall and started welding to that steel?

A Started welding directin unit two. It takes in safeguard two, auxiliary two, containment two.

Q Are you saying that the problem then that
we're discussing was in containment one?
A Yes.
Q Whece there was no steel wall --
A Well, they started on the - I think on the 905 pour, when they poured 905 floor and beams in there, they started putting steel in them. But from 905 , the bottom of 905 down, there wasn't any steel imbedded in the wall, just a few plates and stuff.

Q The use of the steel in the wall took the place of trese inserts because you could attach directly to the steel?

A Well. it had a sheet of steel there you could put whatever hanger you wanted to.

Q Okay. When your crew ran into these ingerte that were at the wrong angle, placed at the wrong angle, how did you attach the inserts normally or how did you attach your hanger to these?

A I drilled the hole in the tubing at an angle, whatever the angle was, because you don't bend inch and a half threaded rod. Normally you don't.

Q You drill a hole?
A Drill a hole at an angle, and then a have seen them put in documentation on some of the
hangers they put a tapered washer on it to allow for the angle that the threaded rod came out.

Q and then you say they grouted over the other hole?
A. Unused ones had to be grouted. You had a dimension from one hole to another that you could drill. There was a dimension in your nine pcint six documentation out there how close you could drill to a Richman ineert, how close you could drill to another Eilti-bolt or how close you could diril to another attachment or steel plate or whatever. There's all kinds in your nine point six.

Q Are you saying that these redrillings or these angled drillings into these inserts constituted a procedural violation on unathorized drilling?

A Well, there again, you can go bock to being that neither one of us are engineers. These inserts are tied to rebar with wire, ali right? To be at a hundred percent, they have to be surrounded by concrete a hundred percen, and they have to be ninety degrees off the wall. When you ctick something in it, it should be ninety degrees off the wall. If you have got this thing in thereat, say, at a ten-degree angle, you've not got the same
pulling capacity or coming out of the wall as you have if it'g straight.

Q Let me ask you this, then. How many instances do you know of in which there were -many?

A Eow about ten that were right and the rest wrong.

Q Is that right?
A Now, that's the percentage.
Q What did QC said?
A $Q C$ never seen them. $Q C$ didn't see nothing but the finished product.

Q So the finished produrt they saw was a bolt sticking out that was attached to a hanger and it looked to be proper?

A (Nods head affirmatively). QC don't get in behind the hanger. You had one-inch plate that goes in behind, say -- for instance, we used a six-inch tube vertical on the wall and say we had two of these inserts. All right, we drilled completely through the tube, used a one-inch washer in the back of the tube, a one-inch washer in front of the tube and this one inch or inch and a half threaded rod went through the washer, the tube, the washer and into the wall.

Now, if it was at an angle, QC never sees this because there's a nut on top of that.

Q Weze the engineers aware of this manner of altering these inserts when they were at an improper angle?

A Man, I tell you what, I have been around a lot of places in my life but $I$ have never seen anything out there -- if they call themselves engineers -- I don't know what you'd call me, a nigger aviator, I guess. But I'm telling you, they don't communicate, they don't go out in the field. How in the hell can you solve any problem if you sit in this office and you don't go:out into the plant? That was their problem.

Q Would you mind telling me the original instance of this manner of correcting these, the angle of these inserts?

A Only way to correct it is not use it and drill around it and drill a straight hole. You don't put a Richman anchor in after the concrete is poured.

Q Who was directing that they do it, though?

A The Richman --
Q These redrillings.

A Your building department.
Q Who specifically? Somebody had to decide that it was going to be done this way. Do you know who?

A No. I imagine that comes from your original Gibbs and $B i l l$ drawings or something.

Q I'm talking about the variation, this changing the angle without -- to make it improper, where the angle is wrong.
A. I'm losing you someplace. I don't know what you're saying.

Q You're saying it's supposed to be at ninety degrees angles to the wall?

A yeah.
Q And you-all were changing the angles so it would fit --

A We weren't touching the Richman now. Only thing we did was take the threaded rod, and whatever angle it is, we would drill it at that angle so that it would come through the tube and When it come out the other side of the tube, it come out as close to center as we could get it.

Q When you talk about tube, are you talking about tube steel?

A Oh-huh (affirmative).

Q On the hanger?
A On the hanger. There was no way of changing the insert.

Q So the insert remained the same and the angle on the tube steel was changed?

A Wel, the holes through the tube steel was changed.

Q Okay. So does that mean that the tube steel had at least two holes in it, one of which was used and the other unused?

A No. No. I don't know how to describe that to you. Say that's the ingert. All right, you know me and my drawing. You got a piece of tube steel here. We're going to run this one horizontally. All right, looking at it, here is the hole in the front like so. All right, this back hole, we'll say that this angle runs this way to our left. The back hole, if you know anything about a print at all, might be drilled like that. Understand what $I^{\prime} m$ saying, looking straight through the tube?

Q I think so.
A Then this one here might be drilled like thus. But when it come out the front it was straight, so that means that this tube, if $I$ was
sticking it in the wall here, would be at this angle or -- no, this angle, in order to get out, and this here be at this angle and get out. But when you tighten on an inch-and-a-half screw, whatever gives I don't know, but it's flat on the front. And see, you got a big one-inch washer that goes here, the size of the tube and also on the back side of it to space it away from the wall.

Q Okay.
A So we don't change the insert.
Q And you are saying because it's not at the proper angle that it is less than whatever the load factor of its ability to support whatever weight it is supporting?

A Well, again, I'm not an engineer but if something is designed to go in a certain way and it's not there, it's not in that way, then it's not designed right. And it is a weaker point. Q Okay.

MR. EERR: Did you bring this to anybody else's attention.

THE WITAESS: yeah. It don't do no good.

MR. EERR: DO you know who you brought it to?

THE WITNESS: Or, you could Just about mention anybody else's name of my superiors from Hal Goodson to Mike Sanders to Mike Robinson to Ed Dean to Jim Starkey. There's a jewel you ought to bang. MR. HERR: What did they say when you brought it to their attention?

TEE $\mathrm{HITNESS}:$ Do you want a quote? "Eang the damn thing". What do you do? And that is all my upper supervisors. you don't know how glad $I$ am to be away from that place. I ain't got no job, but I'z still glad to be away from it. I've never seen anything in my forty-three years on earth run like that place. Q Can you think of any way that we can identify specifics again of hangers that were, where these holes werz improperly --

A I tell you what. I junt about bet you, Mr. Griffin, I'm telling you what I bet you. Just go out there and pull any damn etudded rod out of there, pull three of them and two of them is crooked.

Q And these were never addressed by QC from that inspection?

A There's no way of checking it. No way of
knowing what angle that thing is in there unless you pull the hanger off and screw straight rodin there and look at it. But I would say, I would just damn near bet you that out of three rods you get two of them that's crooked.

MS. ELLIS: Just to be sure I
understand, when you look at this straight, on like QC would come and look at it, everything looks all right from the front and all of the port that you are talking about that's at an angle is, in effect, hidden?

THE WITNESS: Its inside the
concrete. Nobody knows it. It's inside of solid concrete.

Q Can you think of any way that we can identify particular areas where this was done? Is this all the areas that don't have steel plate against the wall?

A No. Most of the places that had the threaded rod would be in the compartments, compartments one, two, three and four, and then you have a lot of your other buildings, safeguard and auxiliary, they all got the threaded rod imbedded inserts.

Q Okay.

A
But in the containment itself, you would. probably find them in the compartments would probably be the major part of them.

Q All right. Let's go back to this, the use of the cutting torch. Is that --

A That's what $I^{\prime} m$ saying. This hanger in these compartments, if they didn't have enough intelligence to find out what $k i n d$ of angle it is and how to drill the hole from the back and make it come out center from the front, what this foreman done out there or general foreman on nights, what he done was take torch and cut about a three-inch hole. And you can see, if I cut -- if I got this angle here and say we have another one here and the back was at another angle, we just cut that sucker out like that so we can move that thing any way we want to to get it started.

Q How do they fill in the hole or is it --
A They don't filliting it's covered with a washer. The only reason $I$ found it out, the hanger that was particularly put up by this guy was designed wrong. I kad to go down there and tear it down. And I went to my superior Ed Dean and I said, what are you going to do about this? I mean, I got my butt tore up yesterday because $I$ put something in
wrong or because one of my men had forgot to grout behind a plate. I got called up to the front office about a plate I put up three or four years ago. Ano it wasn't grouted, the holes uasn't grouted behind the plate. And $I$ was called in and told if they found one more hanger like that that $I$ was going out the gate. I said, Raymond, what the hell are you talking about? I can't stand there and watch fifteen men every five minuter put up every plate, and you're going to fire me for something that happened four years ago, fireme.

And then $I$ go down there and $I$ report something like this to my general foreman. He reports to Raymond Bebert -- well, this same guy is the one that built the little sun deck or whatever you want to call it at Raymond bebert's house.

MR. EERR: What's his name?
THE WITNESS: Raymond Bebert.
MR. BERR: No, the guy that did the building.

TRE WITNESS: That's the name $I$ can't remember.

MR. EERR: The night foreman?
TRE WITNESS: Be was the general
foreman. I sold him a car. Hell, he used to

De a good friend of mine. I don't have nothing against the guy except he don't know nothing. Q Can you think of anybody else that we can go talk to that can identify some hanger where they specifically remember that this was done, these cuts were made in the tube steel?

A Let me go home and I can give you a call and $I$ can give some names. If they are going to talk I don't know. If they are still out there, ninety-nine our of a hundred of them are in the clique and they ain't going to talk unless they are utterly threatened, because their jobs are on the Line. Hell, they are making thirty-five, forty thousand dollars a year for doing nothing and they ain't going to come over here and take a chance on losing their job. Several of them are still there. I think about seventy-five percent of my crew is there. But if they would talk, I don't know. Q Okay.

MR. GRIFFIN: Off the record. (Discussion off the record.)

Q Now, you say the fellow that was drilling the holes with the drill, is that this guy -

A The one $I$ was drilling for. He was foreman in that area. I was drilling holes for him.

Q And his name is Nathan?
A Nathan Eammers or something like thet, Bammers.

Q And Eammers might know specific holes drilled -

A True.
Q -- with the rebar eater?
A Yeah. If you could corner him, I think he would go.

Q All right. Now, the use of the cutting torch on this tube steel, you say this was at the direction of the general foreman?

A No. Ee vasn't a general foreman at that time.

Q He became --
A He became general foreman later. He was boy, I tell you what, if you could get in my print shack out there and get my log that $I$ kept on every damn hanger $I$ got in there, I could tell you who worked on it, the name of the perscn that worked on it and when he done it. I kept a daily log, but I turned that over to the new foreman. When they busted me back, I give him that so he would have a record of all the hangers put up. In that log is all the feedwater hangers that were reworked and why
and who the person that worked on them, because if anything ever fell back I went to each of them men and said, why was it done this vay. Because when you got two or three guys bere and two or three guys here ano two or three guys here and so forth and so on, you can't be at every place at one time.

But if you could get ahold of that log that was in my print shack, I can narrow them hangers down real close for you.

Q How many would thete be?
A Every hanger between $\$ 60$ and 905 that $I$ put up. Every CT line, every main steam line, feedwater line. It shouli still be in my print shack.

MR. HERR: Who did you give the log to?

THE WITNESS: Here we go again. I'r not very good on names as you found out. I can give you his name, too, because 1 got it in my time book. He was my lead man for me for about six months. He was an ex-foreman down there; bis foreman lacted about month before they busted him back.

MR. $B E R R$ : When did you give it to him?

TEE WITNESS: When I got fired -- ro, no, in June of 82 when they busted me back is when $I$ gave himeverything in that print shack except that document you got there, wich was none of his business that $I$ took with we.

MR. EERR: And you weren't fired until when?

TAE WITNESS: December 7 th.
MR. EERR: Of '82?
THE WITNESS: 182 .
MR. HERR: He had it six months?
TEE WITNESS: He had it six months, and everybody liked the way $I$ kept that log because they could go right to that book and open it up and it would tell what percentage of that hanger was done, who vorked on it and the rework and CMC's and so forth on it.
 book?

TEE WITNESS: No, it was a notebook with paper in it, a regular black notebook.

MR. HERR: Three ring?
ThE WITNESS: Yeah. And in there is everything $I$ have done in four years out there. MR. HERR: Was there any printing on
it?
THE NITNESS: No. Yeah, it would just have -- let's see, I forget what I had on the front of it. I had this whiteout that you use on typing paper. I had something printed on that, main steam or containment one hangers or something like that. I don't remember what it was. You cant mise my shack.

MR. EERR: Where was your shack located?

THE WITNESS: It was located or 860 but now it's outside of the entrance to containment one. It's a bright red shack out there. I painted it bright red because I got in trouble for putting a Christmas tree on it one year. And it's got ry name all over it, Bot Miserly, 8895.

MR. GEIPFIN: Do you have any more questions?

MR. EERR: Is there anything else outside of your affidavit that you wish to go into or describe to use at this time?

THE WITNESE: No, Well, I don't really know. If you are going to get into something besides what $I$ have discussed
already, I know it's been brought up before, but if you can get ahold of a guy named Red… I gave you his name the other day. I ain't got it with we. I wish I had his address. He vas a weld tech out there and be can tell you about a lot of that welding. That's a nother name I'll have to get for you. I have got it on one of my affidavits or something. And there's $E$ Joe Gray that was a welding foreman out there that done a lot of welding illegally without documentation, such as lugs on pipes without purge, and -

HR. HERR: Did he tell you this? THE WITNESS: I seen him do it. MR. HERR: Can you give me the
location?
THE WITNESS: It was down on the 832 elevation. Roy Estes was foreman at the time, and you might get ahold of a guy named Gary Hill who was foreman down on 808 elevation which had some bad lugs welded on by Joi Gray illegaliy. Ed Dean was general foreman and they done it on the sly, Raymond bebert knew about it.

MR. EERR: Who gave the order?

THE KITNESS: Raymond Hebert. KR. EERR: He gave it to Dean, and Dean passed it --

TEE WITNESE: Dean then passed it to Joe Gray because he was the foreman. He would go down there and do it and didn't want any of the weldere to know about it.

MS. ELLIS: Was there anybody else maybe on the crew that you know of --

THE WITNESS: Joe Gray's crew or my crew?
*S. ELLIS: -- that would have known about this particular thing that you are talking about?

TEE WITNESS: Other than Joe Gray and there's another name $I$ need to find out. I can give you a bunch of names on stuff that was done wrong down theze that was seen by ther or stuff like that. The only thing you can do is if they are still working down there - I keard Joe Gray got fired, too.
Q Okay. Why don't we wrap this thing up? We discussed three issues outside of just those notices posted, and we have asked you or you have mentioned names or knowledge of names of
people, although you cannot recall the names right at the moment regarding the use of this rebar eater, the polar crane, that incident and the use of these torches to cut hangers. And do you agree that you will call me and let me know --

A I do.
Q -- fill in these names with these situations as you have described them - -

A Yes.
Q -- so we can put a complete package together?

A I can give you every name that was in the rabar crew from the time $I$ hadit. I have my time books at home. I kept my own time books.

Q We are looking for people that know about these instances of illegal or improper or work done out of procedure.

A These are all the people that vere doing it. My entire crew was.

MR. EERR: They were doing that at your direction --

THE KITNESS: At my direction, but several of them were there when mike sanders came down and ordered me to do so. And when your superiors tell you to do something and
your job is on the line, that's what you dio. NR. HERR: These improper weldings $y$ Gray and some of these, did they tell you that they had actually done it improperiy?

THE WITNESS: I have seen them do it. Any time you weid a stainless steel lug on, you have to purge o line after a certain size. If you don't purge it, it causes a sugar coating on the incide and sucks that pipe into the piece of steel that you are welding. So what you have is you have a void area inside of a slick steel piece of pipe, just a sunk-in area. The stainless - on stainless it just sucks it right into that lug you're welding. Were taiking about a little lug like half an inch long arid maybe three-eighths of an inch high. What it is, it's a lug that keeps the pipe frow doing this motion. You weld like four lugs on this side, fuur iugs on this side around a pipe, and you put a clamp in betweesi it end struts back to a fixed object on the wall and it stops that pipe $f$ rom going in this motion or up and down, whichever way the pipe ie located. MS. ELLIS: And the purpose of it is to keep the pipe from moving?

THE WITNESS: Right. Q Wouldn't that show up on a radiograph?

A It should.
Q And aren't such thinge radiographed before they are finally accepted by QC?

A No. On a stainless you get a - hell, they run that dye test on it.

MR. HERR: Penetrant test?
t日E WITNESS: Yeah, penetrant.
That's the only thing, as long as the weld is pretty and all that, it will pass penetrant. But that's all on the inside.

HR. EERR: Do you know one way or the other whether these are involving safety-related or nonsafety-related, or do you know offhand --

THE WITNESS: No, I'm not nuclear power plant -- it's all put in there for something. Now, what particular thing this did, I don't know -- I couldn't be honest with you and tell what you it did without remembering the line.

MR. EERR: The exact location.
TEE WITNESS: The exact locaticn and line number. If you had the line number I'd
tell you what it did.
MS. ELLIS: faE it like in the containment?

TEE WITHESS: Everything I cone was in the containment. Everything I have mentioned here, except for the rebar eater, concerns the containment building in Reactor One, which the reactor is inside containment one. But everything $I$ have mentioned in here has happened in here that have personally seen done.

MR. EERR: Do yon have anything else you wish to add?

TEE WITNESS: No. I'll give you a 11st of names.

MR. HERR: Thank you very much, Kr. Messerly.
(End of statement).

STATE OF TEXAS
COUNTY OF DALLAS

This is to certify that $I$, David Cogburn, reported in shorthand the proceedings had at the time and place set forth in the caption hereof, and that the above and foregoing 62 pages contain a full, true and correct transcript of said proceedinge.

Given under my hand and seal of office on this the $\qquad$ day of $\qquad$ . 1983.
David Cogburn, Notary public
in and for the State of Texas
County of Dallas

My Commission Expires on December $30,2985$.

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| ＝ | Sw－1010．0．9 6 cis | 7855 |  |  | 3666 3667 |
| － |  | $75^{\prime} 6^{\prime \prime}$ | y， | $1-70^{\circ 0}-78$ | 3667 |
| － |  | 785 ＇6 | N5 uecrure | 1－1\％\％9 | 3668 |
| － |  | 783.6 | \％\％ | 1－7\％－9 | 3668 |
|  |  | 785 | 920 | ，－－80－79 | 3669 |
|  |  | 7856 | 为 | 1－10．29 | 3669 |
| ＝${ }^{2}$ |  | $785^{\circ}$ | $\sim \sim$ | 1．10－7 | 3669 |
|  |  | 790 | ～$\sim \sim \varepsilon$ | 1．2．169 16 | ¢6¢¢ |
|  |  | 740 | ～o |  |  |
|  |  | 7401 | noue | 1－5积－79 | 2rruck |
| － | C5，1－06－033－542R | 810. | newa |  |  |
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|  |  | － 790 | nerc |  |  |
|  | － | 790 | Nave | $1.750-19$ | －ijor |
|  |  | 810 | Niory |  |  |
|  | 2602 | 790 | Nutity ${ }^{\text {For }}$ | 1－750 | Wsino |
|  | 2602 | $740^{\prime}$ |  |  | Wrak |
|  | 48，－0．048．086 | $750{ }^{\circ}$ | No |  | Yext |
|  | 5227 | $810{ }^{\prime}$ | nowe | 1－74．79 | ats |
| － |  | 7456 | nove ， | 1－74E9．4 | cae smom |
| － |  | ${ }_{7}^{765}$ | nowe 1 | 1－4\％74． | Etax |
| － |  | 5 | vone 1 | 1－M， | Ax armer |
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| －－ |  |  |  |  | $1-17.74$ |
| － |  |  |  | － | 1－18－79 |
|  |  | ter vorues， |  |  | in matat |
|  | wt Ricient |  |  |  |  |
















11.TERVIEKIIS

NAME
Gary D. Alford Heriberto Bermea Hollis D. Bogart Rex $A$. Broom:?

Daniel K. Brown
Thomas M. Commons

Edwin S. Dean

Roy 0. Estes
Dean $A$. Fellinger

Danny K. Grisso
Nathan D. Hammett
James D. Hilum

Raymond H. Hebert
Eli Holmes
Billy R. Jones
Ronald D. Mckee
Donald hi. Mason
Charles E. Neagle
Michael E. Sanders

Jimmy R. Starkey

Tommy J. Thompson
PRESENT
POSITION,

Electrical termination
Pipe hanger fitter Pipe hanger helper
PROC:
POSIT10:
Pipe hanger fitter

Pipe hanger foreman
Pipe fitter
TUGCO mechanical helper
Piping Design Services, Inc. engineer

Pipe hanger general foreman

Pipe hanger fitter Pipe hanger foreman
Drava Constructors, Gibbs \& Hill engr. Inc., construction project manager

Cable tray supports Hanger drill crew fitter

Pipe hanger foreman
Start-up support

Pipe hanger superintendent

Pipe hanger welder
Pipe hanger fitter
Pipe foreman
Pipe hanger general foreman

Pipe hanger fitter Pipe hanger foreman
Lead welder Pipe hanger lead general foreman
Pipe hanger fitter Pipe hanger general foreman

Pipe hanger welder
Pipe welder

DATE
INTERVIEWED
5/04/83
S16:10
Sh 'ja.
STATEsMEN:
yes
5/10/83 yes
$5 / 04 / 83$ yes
5/05/83 yes
$5 / 06 / 83$ yes
Results of
5/06/83 Interview
5/05/83 \&
$5 / 10 / 83$ yes
5/04/83 yes

5/09/83 yes

5/03/83 yes
5/03/83 yes
5/03/83 yes

5/05/83 yes
5/10/83 yes
5/03/83 yes
5/05/83 yes

5/03/83 yes
5/04/83 yes

5/03/83
yes

5/04/83 yes
5/03/83 yes

The signed, sworn statements are maintained in the 01FO:RIV, and the testimony of individual witnesses is available to NRC personnel.



[^0]:    Stanley, Harris, Rice 741-4567

