

11/8/82 Interview at NRC Region IV Offices, Arlington, Texas between [redacted] and the U. S. Nuclear Regulatory Commission (NRC); present were:

Robert [redacted] 4  
missing

Stewart; Dan Tomlinson; and Richard Herr.

Pages: 1-6  
27, 29, 30 }  
31, 34

page 4 =

STEWART: "...if you have anything more you could add to this...what you're describing ..."

"Do you want a copy of this? Do you have a copy of that?" (To Mr. Stewart, then to [redacted] referring to [redacted] testimony and transcript from the September 1982 operating license hearings)

"Uh huh..."

(To Stewart) "I was wondering if you had a copy. I felt sure that you did."

STEWART: "Yeah. This is out of the transcript. Yeah. Down on, uh...let's see..."

"Down near line 20...it's O.K. if I record this...is that all right?"

STEWART: "No. Fine. Go right ahead."

STEWART: "Let's see if I can get a line and a page...on page 5552."

"O.K."

STEWART: "Now you said...let's see, it'd be line 2 where you said...well, 1, 2 and 3...800 foot [redacted], quality control cable, I guess you didn't finish the pull and it ended up [redacted] cable spreading room, the lower section of control room number one..."

"Yes, sir."

STEWART: "O.K. You said..."

"That would have been 800 plus."

STEWART: "...800 plus, O.K., that's immaterial. On line 6, 7 and 8 and 9, you said "Several weeks later, or a week later, in fact it was four days later, I went back to that location to check to see if it was spliced and I found out that it was spliced."

"Yes, sir."

STEWART: "Do you have a cable pull number or some way that we could locate that?"

"Well, of course not."

STEWART: "Well, I didn't know, uh, you know, pretty specific, said that it was a splice."

"Yes, sir. It was."

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STEWART: "O.K. Can you add anything more to this so/...you realize what's down there-- in the cable spreading room."

[REDACTED] "Yes, sir, right. Oh, I know."

STEWART: "And there's no way in the world we could find that..."

[REDACTED] "No, I couldn't go back...I could not go back right now and find that location. I can give you an estimate of the location, but right now you know as well as I do..."

PHONE RINGS, TOMLINSON ANSWERS, CONVERSATION MUFFLED IN BACKGROUND AS [REDACTED] CONTINUES.

[REDACTED] "...that when I left the cable in that tray was over a foot thick and it was in the middle, it was probably about six inches in the middle, so you know, who knows how much cable's on top of that now."

STEWART: "Do you have...you say it went to a relay panel..."

[REDACTED] "Yes, sir, in control room number one."

STEWART: "Do you know what relay panel that was?"

[REDACTED] "Negative."

STEWART: "And where it's located?"

70 [REDACTED] "I can give you an estimate of where it's located, but I don't know the panel and as far as I know, other panels could have been put up in that area, it could have been changed out cause they were constantly changing things."

STEWART: "Uh huh. Can you give me a sketch of where it might be located?"

[REDACTED] "I tell you what, do you have a layout of the cable spread room?"

STEWART: "No..."

[REDACTED] "You don't?"

STEWART: "Not right here. It would take us a while to get one. We normally don't..."

TOMLINSON: "If we had to keep the prints for all of the rooms on all of the sites that we go to, we wouldn't have room here on the 10th floor."

[REDACTED] "Well, I feel sure...I understand that. You know, I don't see how you can expect me to have all those drawings either..."

STEWART: "No, no, I'm not suggesting..."

[REDACTED] "...I do have a lot of them, but uh..."

STEWART: "that, I'm just asking if you can just draw a sketch to show what approximate location that relay panel's in."

"Uh huh."

[REDACTED] / That's still not going to tell you anything. I mean, I can give you all kinds of drawings. I tell you what, I'll go ahead and make a note of it and sit down and try and sketch it out. Let me put some more time and thought of it, sketch it out and I'll bring that drawing to you. How's that sound? Do you want to do that?"

STEWART: "Yeah, sure, anything that would help."

[REDACTED] "Cause I think I could make it a little more accurate than I can right here, cause I can think back and which panel it was, you know, how many panels in; I know it was, I think right now, it's the third panel from the aisleway, from the aisle, and there's..."

[REDACTED] "You all" (the NRC) "have access to those drawings, don't you?"

STEWART: "Oh, certainly."

[REDACTED] "You couldn't get a copy of the drawing and maybe get that to [REDACTED] and then could do that..."

[REDACTED] "Yeah, you could do that. I could make a sketch, then we could take that drawing and sit down and go over it. Do you want to do that?"

STEWART: "Yeah. We could..."

[REDACTED] "Control Room No. 1."

[REDACTED] "That might give you a little closer location..."

TOMLINSON: "You don't remember any names on the panel or any numbers or..."

[REDACTED] "No."

STEWART: "Let's see, you mentioned that there were two?"

[REDACTED] "Well, I know that there were two that we pulled that... I don't know if our last Q cable if it was spliced or not. But I know that I saw Q cable in the spread room and in Safeguard No. 2 -- No. 1 -- Safeguard No. 1 that was spliced. And the..."

STEWART: "You say in the Safeguards Building or in..."

[REDACTED] "Safeguard. Safeguard No. 1."

STEWART: "The room...the relay panel room or the..."

[REDACTED] "No. It's the...in a tray, uh..."

STEWART: "Oh, that was the tray name?"

PHONE RINGS WHILE [REDACTED] IS TALKING; TOMLINSON ANSWERS AND CARRIES ON FOLLOWING CONVERSATION WHILE [REDACTED] IS TALKING:

TOMLINSON: "Mr. Seidle's office; Tomlinson. Yes. Yes. Yeah, we're kinda involved right now...if I call you back? O.K. O.K. Very good. Thank you. I'll do it. Thank you."

STEWART: "As described in the PSAR?"

[REDACTED] "Yes."

STEWART: "Yeah. We'd have to go check it out."

[REDACTED] "O.K. Well, I can cross-section it for you."

STEWART: "O.K. I'll tell you what, since we don't have the other drawings and to avoid the repetition, let's get all of this stuff together, we'll make a note of what we want and then you can come back later and we can go through the drawings and ...."

7c [REDACTED] "I'll tell you what I came here for. I came here to find out what information that I give you and that you've already gotten, what you're going to do with it."

STEWART: "We're going to pursue it, if there's any possibility of locating these, you know, we're certainly not gonna go down there and inspect every damn cable in the cable splicing room to try to find a splice..."

[REDACTED] "Right. Well, I understand that. I understand that, you know, what you're looking for is factual information..."

STEWART: "Right..."

[REDACTED] "...so if that you can go by and that you can take care of..."

STEWART: "Absolutely."

[REDACTED] "...and the information that I have given you is items that either I was related with or that I know should be still there now. I mean, there's a hundred and one other items that's going on there or have gone on there that, you know..."

STEWART: "Well, I want to get these two subject matters down first, and then we can, let us know what else you saw or that's not in the testimony. You follow?"

[REDACTED] "Yeah."

STEWART: "O.K. I think we have established now that what we need is some drawings and elevations. We will get the control room No. 1 panel drawings since you don't have those. We will also get some elevation drawings..."

[REDACTED] "O.K."



STEWART: "...so you can help locate these trays."

[REDACTED] "O.K."

STEWART: "And you're going to provide...what are you gonna provide? You have some sketches you say of the..."

[REDACTED] "I'll just bring what I have and we'll sit down and..."

STEWART: "O.K."

STEWART: "O.K. You were transferred back into the drafting department?"

[REDACTED] "Yes, sir."

STEWART: "You were put on the Brown & Root hangers location known as the BRHL?"

[REDACTED] "Uh huh."

STEWART: "O.K. What specifically did you do there?"

[REDACTED] "I was given..."

STEWART: "Some isos?"

[REDACTED] "...some isometric drawings of..."

STEWART: "O.K., I guess..."

[REDACTED] "...Brown & Root hangers, no of piping that was to go up. I was given on another sheet how many hangers were to be hung on each spool, each piece of pipe, each section of pipe, and the type of hanger it was."

STEWART: "They were already identified on the spool or the isos?"

[REDACTED] "Yes, they were identified, and I was to locate them on the isometric drawings and make a redraw..."

STEWART: "O.K. Were the dimensions..."

[REDACTED] "...to go, to be issued to the field."

STEWART: "Were the dimensions already on it?"

[REDACTED] "Negative. No, there were no dimensions on it. I was to put them down there. I was just to place them on there; that's what I couldn't understand. I was just to place the hangers on the drawing, just to put them down on paper right then, then later on, after we had our production going, we were...they were turned back to us to put locations. I was given no other information to go by, I was to estimate the feet or the space in between that area of that hanger, just an estimate of what I thought was there, and, uh..."

STEWART: "Then the field crews would..."

"Then it was issued to the field."

STEWART: "Uh huh, and then they would go put the hangers up."

"Yes."

STEWART: "Did you go back and verify?"

"Yes, I did. I went out in the field and just out of curiosity -- I had a brother that worked out there as a pipe, uh what do you call it, just places the pipe up to each other..."

TOMLINSON: "fitter...pipe fitter?"

"Pipe fitter. And he showed me around some where the pipe that were hung and a couple of them were off a little bit, but all of them were within the estimates of where I placed them, where I placed the hanger on that piece of spool. You know, of course, there's so much up there, you know, they're gonna have to put that in a different...you know, they're hanging a little bit. ~~XXXXXX~~ they're either off maybe several inches or they may be off several feet, but there's so much junk on that ceiling or on the wall that they could not, you know they had to move it down, it was all as-built, and it came back, and sometimes we were issued as built drawings and changes to that Brown & Root hanger location."

STEWART: "But you didn't actually go out and do the as-built, somebody else did?"

"No. Somebody else did."

STEWART: "O.K. Do you know what the process is from there? The system?"

"No."

STEWART: "'Cause they are verified..."

"You mean the as-built drawings? Yes, they are, yeah, but they come back to me."

STEWART: "...Yes. But they use the as-builts to recalculate the seismic, O.K.?"

"Yes. But it's the same hanger number."

STEWART: "Yeah. I mean, is there something wrong with that?"

"Well, it was a different hanger. It was a different hanger that...the hanger numbers that I had put down on the paper and the type of hanger it was, if it was a shock hanger or if it was, you know, a direct support, then it was out there. That's what was hung. At least, that's what I saw. I know that as-built will go back and change that and they may change the type of shock, they may change the type of support and they may change it and never let us know. That could be. But what I saw is what I drew, what I put up. Now I'm not saying that all of them are that way."

STEWART: "What's wrong with that is what I'm saying?"

[REDACTED] "Because...what is wrong with it is why did they put this on me to put in the footage, why did they put this on me to put in the distance between the hangers? I had no information."

STEWART: "You've had four years..."

[REDACTED] "But I'm not an engineer, that doesn't mean -- that's not a damn thing. I'm not an engineer. I'm not qualified to put in this hanger."

I mean,  
STEWART: "Why aren't you? /you've had four years of drafting experience."

[REDACTED] "Sure."

STEWART: "And that's what a draftsman was to do."

[REDACTED] "As a draftsman, that's right, but..."

STEWART: "But you don't do any calculations, did you?"

"No."

[REDACTED] "Of course not."

STEWART: "O.K. You made a location. The location could have, or could not have, been exactly where you put it."

7c [REDACTED] "Those engineers went back and they used my drawings to put those supports in?"

STEWART: "Why, what's wrong with that?"

[REDACTED] "Could be nothing. That's why I'm here."

STEWART: "There is the process that you do the first phase of it. The craftsmen go and hang the hangers."

[REDACTED] "No, an engineer does the first part...first phase."

STEWART: "Well, the installation..."

[REDACTED] "All that information should have already been figured, should already have been done. I know that from experience from working with other hangers and other piping supports that all that information is already done, then it's given to the draftsman. A draftsman is not an engineer."

STEWART: "Yes. Well, the pre-installation is what I'm talking about. You're taking the engineer's work and converting it to a field work drawing."

[REDACTED] "That's true."

STEWART: "The workman goes and puts it in. Then there is a verification program that follows."

[REDACTED] "O.K."

STEWART: "O.K. The exact locations are known, then there is a recalculation made to make sure if they are moved that that is the right hanger, the right size, so I mean there is a very extensive as-built verification program that goes on."

[REDACTED] "Not when I was there."

STEWART: "Well, no. I mean, the plant was certainly not in that phase of construction by the time you were there. So I, you know, I'm trying to find a problem with the system."

[REDACTED] "Well, I ~~XX~~ don't think it's a problem. I think it's a situation that the reason -- what was the reasoning in having me go back and make an estimate between those hangers? I just stuck them on there. I just stuck them on this..."

STEWART: "No way could you do it otherwise than an estimate."

[REDACTED] "Why. Because you don't know how long that piece of pipe is. I know how many hangers are going in there, I don't know where the location of that hanger is going to be. I stuck them on there."

7c  
TOMLINSON: "It was a guess."

[REDACTED] "That's right."

TOMLINSON: "Because you have no way of knowing until you go out and look at the actual run of pipe."

[REDACTED] "But I saw it, and it was there where I put it."

STEWART: "Well, that's fine."

TOMLINSON: "They got lucky; they didn't have to move something else to get to it then, or to be able to put it where you had it."

[REDACTED] "Well, I guess I made some money for the plant, didn't I?"

STEWART: "How many other draftsmen were doing the same thing you're doing?"

[REDACTED] "Between four and twelve [REDACTED]"

STEWART: "You feel unqualified as a draftsman?"

[REDACTED] "Negative."

STEWART: "So, you know..."

[REDACTED] "I feel unqualified in sticking in a location..."

STEWART: "...estimating where..."



[REDACTED] "...estimating a location. That's not my job."

STEWART: "Well, that's the job that was assigned to you, wasn't it?"

[REDACTED] "Yes, sir, that's true."

STEWART: "You know, I'm..."

[REDACTED] "No, it's you don't understand."

STEWART: "No, I think you don't understand the system."

[REDACTED] "I am not an engineer, and I don't know how heavy that piece of pipe is. I don't know what that load is carrying..."

TOMLINSON: "Who determined what hanger would be placed?"

[REDACTED] "I did."

TOMLINSON: "It was up to you..."

[REDACTED] "I stuck it on there."

7C TOMLINSON: "...to decide whether it was a rigid hanger, or a spring can?"

[REDACTED] "Oh, negative. No. That was already done."

TOMLINSON: "And the size of the hanger itself, who determined that? Did they give you a number that said it will be such-and-such a spring can?"

CULTON: "Yes. The numbers were already put down."

TOMLINSON: "That eliminates the engineering."

[REDACTED] "It doesn't eliminate the location."

TOMLINSON: "Within reason it does."

[REDACTED] "Well, does that mean that I could have stuck that hanger anywhere? I could have stuck them all together this far away on a 20-foot piece of pipe that was carrying an 8'?"

STEWART: "Well, I assume you have some reasonable thinking ability to say that that isn't going to be done."

[REDACTED] "Well, I'm glad you trust me."

STEWART: "Well, I don't know, uh. You just don't have the confidence in yourself to do it right, or what?"

[REDACTED] "Well, it's not that, sir, it's exactly what I've told you."

TOMLINSON: "How much latitude were you given in the placement of these hangers."

[REDACTED] "I don't understand."

TOMLINSON: "Well, you say that each one of the hangers had already been preassigned a number -- a type and number."

[REDACTED] "That's right. Yes, sir."

TOMLINSON: "When this came to you, it came to you as an isometric drawing with just a list of hanger numbers and types or was there some rough location given to you?"

[REDACTED] "No rough location at all."

TOMLINSON: "Were you given instructions..."

7c [REDACTED] "An isometric drawing from this isometric pipe drawing, O.K. Another list came in from the engineers with the hangers, the drawing number and the type of hanger it was, all that was on one sheet of paper. And this was on a sheet of paper. I was to go back and make re-draws -- or my group was -- to go back and make a re-draw of the hanger for the people in the field. They were given this same list of just the hanger numbers."

TOMLINSON: "The list of hanger numbers -- was it broken up by hanger types or was it put down in the order that the hangers would be installed from, say, a wall here to a wall here. Like you would be given a spring can, a spring can, a rigid support, a rigid support, another spring can, or would you have three spring cans in a row and two rigid supports in a row, or who determined the placement of these?"

[REDACTED] "I don't remember."

TOMLINSON: "Well, was it your decision to make where the hangers would go and in what order, but if you so desired you could put all spring cans at one end of the line?"

[REDACTED] "No, it was..."

TOMLINSON: "Then someone else had already done this?"

[REDACTED] "Yes."

TOMLINSON: "O.K. Their calculations were based on a rough placement of these hangers prior to your ever seeing the list. There is a post-installation that Bob was talking about that is a re-verification of this and they go back to the as-built drawings and they perform new stress calculations based on the as-built condition. Not what they thought they had and what you thought you had when you made the first drawing, it's what they come up with on the as-built drawings, the actual as-built drawings, where the hanger had to be because of other interference. Now, if it's a foot off, if it's four feet off, does this span allow for this type hanger to perform as it should, or do we have to redesign? Do we have to put another hanger some place in between? But you weren't doing the engineering though."

[REDACTED] "No. But you know, what I said is that I gave the approximate distance between the hangers, I put that in. No matter how long that spool was, no matter what angle it was at, I stuck it there. I put it in there. And I went out in the field to check it, if it was 18', if it was 6", if it was 20 plus feet, it was there. Almost every one of them I'll say was within less than a foot of the location that I put on that drawing."

TOMLINSON: "How many of these were anchored into base plates, or were installed in ceilings or in the walls?"

[REDACTED] "I have no idea."

TOMLINSON: "Because that would have a lot to do with where the hangers would be placed. The base plates were installed at the time the wall was installed or the ceiling was installed or the ceiling was installed in anticipation of attaching a hanger to it. So again, somebody had done this before."

[REDACTED] "That's great."

STEWART: "Have you been out in the field and noticed the plates with just numbers on them?"

[REDACTED] "Sure."

STEWART: "And those are hanger numbers."

7c [REDACTED] "Yeah."

STEWART: "And those are the ones that you located?"

[REDACTED] "Yeah."

STEWART: "On the pipe?"

[REDACTED] "Some of them were already there. Some of them were just already put up. Like this, whenever -- when I first hired on out there I was a scheduler and we were given -- a lot of the crews want to go ahead and to keep up with their schedule, they find the shortest distance between two points, O.K.? Because it makes them look good, it makes their crew look good if they put in their required 800 foot of pipe or they pull their, you know, 1200 foot of cable or 12,000 foot of cable, or whatever. It makes them look good. They're meeting their schedule. They don't give a damn if there's an HVAC unit coming in or if there's another pipe that comes in this location if they can get theirs in first regardless of anybody else as long as they meet their schedule. I had to go back and reschedule a lot because I found out that the competition out there in the field; one that I remember rerouting was an 8" pipe that went through and HVAC needed to come through -- you know, which one had priority. They were pretty much on the same level, you know, where the HVAC -- you know, the pipe was a priority, the HVAC could have been rerouted and HVAC unit went in first, so they had to tear it all back out and put in the pipe and reroute the HVAC."

STEWART: "NCR was written on it, is that correct? So that there was a decision made by engineering as to who had priority, the pipe or the..."



[REDACTED] "Probably was, I don't know for sure."

[REDACTED] to Stewart): "Do you know for sure?"

STEWART: "Oh, it's routinely done that way."

[REDACTED] "That's bullshit."

STEWART: "How many construction jobs have you been on? How many nuclear plants have you been on?"

7C [REDACTED] "None, sir, except Brown & Root. Construction, I've been on eight or ten."

STEWART: "So the only one you've been on is here at Comanche Peak?"

[REDACTED] "Yes, sir."

STEWART: "So, I mean..."

CULTON: "I went to all the meetings. I went to all the NCR meetings. I know what went on; I knew the people there. It's like this: If they wrote an NCR report up, it would go back to this guy right here. You know, you knew that that pipe wasn't supposed to go there. Why did you put it up? I had to meet my schedule. And, you know, he was going to take a long time, and I tried to force you a little bit so you could, you know, stay ahead, so you could keep up with your schedule. I asked you if you were going to put it up, and you said no. O.K., go ahead and tear it down and, you know..."

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STEWART: "...except at tremendous cost in labor while somebody sit around and ....that's why they tell them to go ahead and put it in..."

[REDACTED] "...they don't care. No."

STEWART: "...that an engineering decision will be made."

[REDACTED] "Then why wasn't it rescheduled? Why couldn't they do something else?"

STEWART: "It really didn't matter, did it?"

[REDACTED] "No, of course not. It doesn't matter."

TOMLINSON: "To us it really doesn't matter either because it's a money problem that you're talking and that's the least of our concerns. Our big thing is safety. Does it affect safety?"

[REDACTED] "I don't know. I'm not an engineer."

STEWART: "Well, uh..."

TOMLINSON: "How they reschedule...."

[REDACTED] "It's ya'll job to find that out. I just give you information. I'm not here to argue, I'm not here to fight. I'm here to give you some facts and let you deal with the facts. I'm here..."

STEWART: "Well, we'll certainly do that, but...."

[REDACTED] "It's fine. If this is right...if this is right, if this is routine for you to do this or...that's fantastic, I think that's great. I'm not here to argue that at all. Now, you know, if...cause I know that there's always, these drawings are always coming back, you know, they're always being rev'd and once they get to a rev. 10 they have to be redrawn again, and you know, those papers are filed somewhere. And as far as I know, those papers could be -- you know, a total redraw done on them. They could be thrown out. An engineer might have caught a hold of them and said, my God, hey, what is this? This is not right. Let's get rid of these, let's straighten this thing out. I feel that it is a possibility that that has happened, BUT how can I go back and check on it. That's where I asked you, that's where I asked [REDACTED], that's where I asked -- I gave some of my finer drawings to a group that I didn't really, I didn't agree with, that Armadillo Coalition at North Texas State when I went there. I heard of [REDACTED] group and I thought, there's a lady that I have to give these papers to."

TOMLINSON: "Well, I haven't heard anything that you've said yet that was wrong, as far as the hangers go."

[REDACTED] "That's great. Then we don't have to worry about it."

Tomlinson: "That's as far as the hangers go."

STEWART: "I mean, we want...yeah."

[REDACTED] "Let me ask ya'll something. You're making an awful lot of assumptions."

TOMLINSON: "That's the only way we would be able to locate what he had done. So, how many drawings would there be, let's say, on a run of pipe that had 5 hangers? The potential is there that you've got as many as 15 drawings. You've got the isometric for that, you've got possibly two or three pages on the larger hangers, you've got drawings for base plates, just any number of things could be there. Now, we could be talking, you know, talking a mountain of paper for someone to go through just to locate what he has done."

[REDACTED] "And you're saying that you don't have the personnel or the time to do it?"

TOMLINSON: "Ma'm, we've got five sites."

STEWART: "We have...there's checks and balances for all of this, not only from the construction side, installation side, then there's the verification program which is an engineering recalculation program. Everyone wants..."

[REDACTED] "Yeah, I understand all of that. But what I'm concerned about is whether or not this works. We don't think it works too well because of some of the things we've been told by people, and if you're not checking it out, how do you know that it's working?"

STEWART: "We do check that out. We..."

[REDACTED] "You haven't checked out what he's saying specifically, is what I'm saying."

STEWART: "I know routinely that's the manner in which it is done. Routinely. He's not separate."

[REDACTED] "If you don't have the time to go through the drawings and stuff, bring some of them here and I'll go through them and find some of the ones that he's done."

TOMLINSON: "I don't think Brown & Root would like the idea of us taking a bunch of their drawings off site."

[REDACTED] "Well, at the site."

STEWART: "I mean, for what purpose?"

[REDACTED] "To check out what he's saying, the things that he's concerned about. How are you going to know what...."

STEWART: "I'm telling you what he is concerned about is routinely done, not just him. There is checks and balances. Like he says,...."

[REDACTED] "It's routinely done to go in and estimate a spool of pipe..."

STEWART: "You have to...."

[REDACTED] "I know an engineer, what -- my father's an engineer. This is why...."

TOMLINSON: "But remember now, the base plates for those supports were in there before you ever saw the isometrics. The base plates were already installed. Someone...."

[REDACTED] "Not necessarily."

TOMLINSON: "An awful lot of them, I'll bet they were."

[REDACTED] "An awful lot of them were."

TOMLINSON: "Because, the walls and the ceilings and the floors were all there."

[REDACTED] "But in Unit No. 2, Safeguard No. 2 and the Steam Generator No. 2 was not there."

STEWART: "In No. 2. You know what they have in Unit 2? In that corridor? The wall is steel plated for hangers. That's the very purpose. The problems they had in Unit 1 locating hangers was tremendous. So in Unit 2 in the corridor they put a whole steel panel up rather than locate individual hanger inserts."

TOMLINSON: "Base plates...."

[REDACTED] "Are you talking inside the containment building?"

STEWART/TOMLINSON: "No. Safeguards."

[REDACTED] "Safeguards? O.K."

STEWART: "So, I mean...you know, there has been a tremendous amount of rework that has gone on in Unit 1 because of the location of hangers. Interferences, primarily. They've been...they're down now to about 4% rework, but at the initial onset, the location, the system in which they were locating them, they were wrong. So they had to rework."

[REDACTED] "I was there when that went on. I was doing it. That's the reason I was doing the locations, because it was, at that time it was all being redone. It was not like, you know, we couldn't use the same drawings we used in Unit 1. That's the reason I was doing this."

STEWART: "Well, would it satisfy you if we sat down and went step by step in what is done at the site in the verification program?"

[REDACTED] "Satisfy me? No."

[REDACTED] "You mean what is supposed to be done."

[REDACTED] "Cause I -- that's right. That's what you're...."

STEWART: "I know that it's what is being done. That's what we go down and inspect to see that their program is working. We don't go down and..."

[REDACTED] "I don't see how you can satisfy his concerns if you don't address specific concerns."



[REDACTED] "No."

STEWART: "There was nothing on the iso that would locate the hanger at all?"

[REDACTED] "No."

STEWART: "Not even approximate?"

[REDACTED] "No. I was given an isometric drawing and that's it. With the distance..."

Stewart: "...pipe number?"

[REDACTED] "With the pipe number, with a spool number, with the distance between the spool from one end to the other, from one valve to another. I knew that. I was given the information, No. 2, I was given the information of how many hangers was to go on this drawing. I did not know if it was supposed to go from left to right, right to left, I did not know what hanger was supposed to be hung between these distances. I could have stuck every one of these hangers just right in here, and then I -- my job was finished. Later on, this came back to me, verbal communication came to me from my supervisor which was to estimate the distance between each hanger that I and my group have located on the isometric drawings. We went back, we gave a rough estimate of how far apart the hangers were, put them in a box, each week they are issued to the field -- they were stamped and issued to the field."

STEWART: "Can you give me a system that you worked on? A name of a system? An iso? Some way that we can go back and do some checking...."

nc [REDACTED] "I can give you my crappy drawings that I have. I have, you know, like I said, the choice drawings that I have are given away to a professor at UTA, are given away to a professor at North Texas State that are in turn with the group the Armadillo radical coalition. They're the ones that have that."

STEWART: "Do you have duplicates...."

[REDACTED] "They're the ones that have that. What?"

STEWART: "Are they duplicates or what you...."

[REDACTED] "Yes, they are duplicates. They are just copies. They are not the drawings. They are just copies. I took those drawings -- a draftsman always saves some of his work, some of his finer work, a draftsman saves for the benefit of going back into another position that you, as an employer, would like to see what kind of work I do. You'd like to see how, you know, some of my ideas. I might be able to help you to, you know, to change some of your ideas. I might have a better idea. You might have a better idea. But you want to see my work... to see what kind of quality draftsman I am. So where am I supposed to get that information? On my own time drawing it? Well, that's fine and dandy, but 9 times out of 10, if you draw it on your own time, for you, I would do a fantastic job, I would do a very quality job of doing it. That's not what you want to see; you want to see production work. O.K., that's it, that's what you want to see."



TOMLINSON: "Let's go back to some of the things/you said a minute ago that you first...." <sup>that</sup>

[REDACTED] "That's what I did and that's what my group did."

TOMLINSON: "You turned over some of the drawings to a gentleman down here at UTA and another one at North Texas State..."

[REDACTED] "Yes, sir."

TOMLINSON: "...and you said that they, it was their opinion that this was not being done in the proper manner."

[REDACTED] "Yes, sir."

TOMLINSON: "Did they verify any of the stress calculations or find out that the hangers were in the wrong place, were not the proper strength, or did they find any fault with them?"

[REDACTED] "They found, for instance, that some of the hangers were -- had/improper welds, the wrong type of bevel weld, the -- some of the types of welds that they used in the location of stress were the wrong types." <sup>some</sup>

TOMLINSON: "Now this, if you could get me on to specifics on this..."

[REDACTED] "Well, I think I only -- we went through..."

TOMLINSON: "...then we're in my ball park."

[REDACTED] "...the last time I talked to you -- I'm not sure if he was an engineer, / I thought he was an engineer, / that looked at it. No, he was a welder down at the nuclear power plant in Glen Rose and he pointed out several of the welds that were wrong, they were improper welds..."

TOMLINSON: "...the design or the..."

[REDACTED] "It was design. It was the design on the hanger and on the base plate."

TOMLINSON: "If you can give me something specific on that..."

STEWART: "Did they have the loads and everything and everything for the weld design?"

[REDACTED] "I'm not sure they did..."

STEWART: "I mean, how did they say -- what was their basis that it was wrong?"

[REDACTED] "Some of the material I had written down some information off a piece of paper onto the drawings..." <sup>I had</sup>

STEWART: "You mean, they were stress calculations or..."

[REDACTED] "And it was for my benefit, you know, because it made the drawing look neat, it looked -- you know, I was going to keep it, you know, a copy of this drawing, just for my benefit. I didn't know what I was really putting down. I didn't know that that was, you know, the improper or the stress, where the stress load was, but when I took it to North Texas State, he gave it, the professor gave it to I felt an engineer, I don't know, somebody, and he came back and told me that they were improper stress loads. I don't know."

STEWART: "You said you had some rough sketches that you have..."

[REDACTED] "Just what everybody picked through."

STEWART: "Do you have them with you?"

[REDACTED] "No. Cause I was going to find out and see what you were going to do first. If you're not going to do anything, there's no reason wasting my time."

STEWART: "Well, I mean, if we weren't going to do anything, we wouldn't have called you in."

[REDACTED] "Well, I don't know that."

STEWART: "O.K. I mean, give us some credit."

7c [REDACTED] "Oh, yeah, I give you credit. I give you credit for being here, for making an attempt, you know, for giving Brown & Root, or not necessarily Brown & Root, I mean you know, the nuclear power plant in Glen Rose a headache."

STEWART: "We want it right..."

[REDACTED] "I want it right."

STEWART: "Our responsibility to see it safe...you know, that's our job..."

[REDACTED] "I'm paying for part of it; you're paying for part of it."

STEWART: "Right. Well..."

[REDACTED] "I know what went on there. You know, the people that I worked with knew what went on there."

STEWART: "I mean, I've been in the business for 30 years and I know construction."

[REDACTED] "That's good."

STEWART: "I know just every phase of it, and..."

[REDACTED] "That's great."

STEWART: "...I am concerned. And my fanny comes first, you know, as far as the health and safety of the public. So if it isn't safe for me..."

[REDACTED] "I'm not here to stop it. Believe this, I'm not here to stop, you know, the production of electricity at the nuclear power plant in Glen Rose. I'm here, like I said ten times, to give you the information that I have..."

STEWART: "Well, we certainly appreciate it."

[REDACTED] "...and if you work with it, that's fine and dandy. You know, if you can't do anything with it, then give it back to me where I can give it to my employer some day so he can look at it and see if he might want to give me a raise."

STEWART: "Well, I'm not going to keep anything you've got. All I want is to see it. I'd like to see it and maybe make copies of some of it if..."

[REDACTED] "Well, I'm very sorry that I can't give you the good stuff that I had. I don't know who has it at North Texas State. I will be up there later on this week and I'll go by and talk to the professor, and see if I can get..."

STEWART: "Well, if you can get some of the..."

7c [REDACTED] "...cause I'll tell him what's going on and, you know, I think it would be of benefit to him, both groups and myself."

STEWART: "Certainly."

TOMLINSON: "You're saying that the isometrics and the Langer lists were given to you by your boss. Could we get a name for him, please. It probably would be easy to go through him to get copies of things that you had worked on before. He would probably have some record of what you or your crew had done."

[REDACTED] "No, he's not there anymore."

TOMLINSON: "He's bound to have a replacement."

[REDACTED] "Yeah."

TOMLINSON: "And there's bound to be a record kept someplace."

[REDACTED] "...remember his name. I think -- did I mention his name here? I mentioned it back over here... [REDACTED] was my supervisor in the drafting department. I thought the scheduling department was fantastic, they had some very fine schedulers. I've been scheduling for -- this is my seventh year as a scheduler, and I still go by some of the techniques and I still pull out some of their little manuals on scheduling. I like it. I've scheduled at [REDACTED] for a year and a half as a production scheduler and I've given a lot of the information for some of the course that they had that I went through, courses that I took there onsite at the nuclear power plant, and that they are using at [REDACTED] right now. But that was fine. I thought the scheduling schedulers were very good. But at least that's what we issued the field. Now what you see could be something totally different from what I drew."



STEWART: "Well, what I'd like to get if possible is a typical or a sampling of your sketches. If you've got some old ones or you don't think they're that good, I'd like to see them anyway, just to get a sampling."

[REDACTED] "O.K."

STEWART: "You can be more specific on the drawings...."

[REDACTED] "O.K."

STEWART: "So if you can bring that back with you..."

[REDACTED] "If ya'll go through and find some of the things in this and they turn out to be all right, would you pursue it further?"

STEWART: "Well, it all depends..."

[REDACTED] "some of the others?"

STEWART: "...on what is being done in a manner so that we know there's a stopgap or a check point that what he's saying is overlooked."

[REDACTED] "Well, you know that they're going to say that there is, but it's a matter of whether it's working or not."

STEWART: "No, no, we don't just go verbally."

[REDACTED] "That's what I wanted to know."

STEWART: "We actually do the inspection ourselves. But again, it's only on a sampling basis, and if we have any doubts at all, then we put the burden of proof on them, particularly if we find some questionable area."

[REDACTED] "One thing that concerns me is, after taking such a strong position in the hearings for their getting a license, frankly is how close ya'll might look at some things at this point."

STEWART: "At this point?"

[REDACTED] "Uh huh. I don't mean to impune your integrity or anything like that, but, uh..."

STEWART: "No, no, I -- the thing is that..."

[REDACTED] "...it would be awfully hard to take a contrary position at this point."

STEWART: "...that the checks and balances...Not for us. By no means. We can shut a plant down just like right now if there's a concern of safety. So, the thing is trying to describe to you the checks and balances that go on, well, on every safety system in that plant. There's a tier of inspections. Right now, the start-up crews do their own system walk-down from as-built drawings, and they walk every inch of those lines. They have to, for one, I mean, that's



STEWART (continued): a requirement. Secondly, it's the best way to know a system if you're an operator. After the start-up crews go through and do their start-up checks, then the operations crews go through and do their own system walk-downs, and, you know, there's things caught, you know, not anything really significant other than like, not, is it San Onofre where they did find mirror images were wrong, you know, dual plans. But the checks and balances that go on are numerous, and that's in addition to our samplings that we do in every system in every plant in our region."

TOMLINSON: "Through safety systems."

[REDACTED] "When ya'll check this out, will ya'll be doing this yourselves, actually doing the checking out and everything yourselves?"

STEWART: "Oh, yeah."

[REDACTED] "You'll do it yourself? You'll walk it?"

STEWART: "Oh, absolutely. Absolutely. But I'm not going to walk 17,000 hangers, you know. I want to tie it down to try to get it to an area that you're concerned with in the time frame that you're..."

70  
TOMLINSON: "If we can take the things that you worked on and that you have concerns with and do these in depth, then we find that either there are things wrong or there're not things wrong. There's always the two possibilities. If we find that there is nothing wrong, then it goes away. If we find there are things wrong and you're right, then all of a sudden it becomes a major problem and then is when we go into other systems..."

[REDACTED] "I'm concerned about, you know, some of the drawings that I did, like I told you, but I'm more concerned about is some of the drawings that my group did."

TOMLINSON: "Can you give us names of the people that [REDACTED] so that we could pull the work that they did."

[REDACTED] "Yes. Because they, you know, a lot of them. I can't give you the names now. I will. I have--I also did the, you know, the special event drawings, anything that Texas Utilities came down to see the -- what do you call it -- rank of hierarchy of people in the departments. I did all those, where you put everybody's name down, and I kept a copy of it. I drew all of those.... made them real nice and pretty.... kept a chart of who's working for who. I did all those. So you can take those and make copies of those and go by the names, but you know, there's a hundred people before me and a hundred people after me that you don't see. All you see is the time span when I worked there. You don't see any other people that I worked with and you don't see..."

TOMLINSON: "Is that what you have here...is that what raises a major concern in your mind, is the time that you were there, what you did see?"

[REDACTED] "That's why I'm here."

TOMLINSON: "Those are the ones that we're interested in then."

STEWART: "Can you give us some dates?"

[REDACTED] "For what?"

STEWART: "That time span."

[REDACTED] "I can't recall them right now."

STEWART: "....a year? Was it one year, two years?"

[REDACTED] "

I had my copy of my resume, copy of my -- the day that I quit and walked out the gate, I got a copy of my report about me which you're not supposed to get, but I got it, and I'll let you just go ahead and make copies of everything that I have."

STEWART: "Well, we'd certainly appreciate it."

[REDACTED] "...and then you can see, see what I've got."

[REDACTED] "Once you've done this, will you let him know what you've done?"

STEWART: "Oh, absolutely."

TOMLINSON: "Yes."

70 [REDACTED] "This has been one of the problems with some of our witnesses. They've asked for things and never found out what happened to them. I know [REDACTED] in particular was very upset because he'd never been given a copy of the I&E Report in regard to his allegations."

TOMLINSON: "As a matter of course, he will not be given a copy of the report, but it will be filed in the PDR and it will be available. In the case of a special request, maybe we'll make a phone call and we'll tell them what the outcome was. But as far as mailing a copy of our report to an individual, that just isn't done."

[REDACTED] "Well, if he had even known what it was or anything...he wanted to find out what had happened and I think he made that pretty clear, and...this, to me, is one of the problems. I think there's a real communications breakdown between the NRC and people who make allegations, and we've talked to an awful lot of people who wouldn't come to the NRC with an allegation under any circumstances because they don't believe you'll do anything about it."

[REDACTED] "I was reluctant to come here. That's the reason that I brought [REDACTED] and the reason that I...you know, I even went down to the little hearing that you had. I was reluctant to do anything about it. I was more inclined to go ahead and just give all the information to the radical group or somebody like that that might at least hold this up and say, hey, this is wrong, bugger. This is what's going on, this is what is...you know, the problem is there now."

Stewart: "Yeah, I can see you've got your time span here. You said you started work in [REDACTED] in order to go back to school."

11/5/82 NRC

Interview

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"That's about right."

"And then later came back to work..."

"Negative...."

(HAD TO CHANGE TAPE)



[REDACTED] "....which it was for my benefit. My supervisor thought it was a good idea because of the past experience that I have and I intended and intend to become a mechanical engineer, or really right now a civil engineer, and to work in construction. I have...I live on a farm, lived on a farm all of my life, so I know how to wire something together and keep it running, but I've also worked in construction for six years as a scheduler, you know, same time for a total of seven years, production field one year."

STEWART: "O.K., well, how soon can you get this information back to us?"

[REDACTED] "When do you want it?"

STEWART: "As soon as you can. We'll have to get some drawings also. Can you come back Friday?"

70 [REDACTED] "There's another aspect of this that kind of bothers me. I think after talking to [REDACTED] just recently, we feel like [REDACTED] testimony should be part of the record, and as you know, these limited appearance statements don't really, you know, mean all that much in the record because they're not sworn statements, they're not cross-examined on them or anything like that. I really feel that some of the things ~~XXXXXX~~ need to be in the record, especially about the Q cable being spliced, because there's nothing officially in the record even though we've got allegations from the [REDACTED] about the same sort of thing. There's still nothing officially in the record about this. I think it needs to be there. One of the things I'm concerned about, frankly, is that if [REDACTED] gives you the names of some of these people and says, you know, to look at this; you go out and investigate it and talk to them, then they're veiled in this cloak of secrecy, whereas if we present the information in the hearings and [REDACTED] names names in the hearings, then we could ask that the Board subpoena these people and the records and go from there and it would be part of the public record. We ran into that problem with the [REDACTED] Now, [REDACTED] tried to tell the Board Chairman what [REDACTED] really meant about that -- they never at any time meant to say that the people who were interrogated who were being accused of doing things wrong should not be brought forward in the hearings or that confidentiality was, in their opinion, being offered to them. So we have a very weird sort of situation in that regard. This decision will have to be [REDACTED] for sure, but that's one of the problems that I've got with some of this right now."

"Well,

STEWART: /You know this is being adjudicated right at this point as to naming names, and I don't wanna any comment about it one way or another. But, no, I think that we've got a good beginning here and that we can start off and if we can get these drawings, information that you have and sit down and try to locate these splices, uh..."

[REDACTED] "O.K. Some of the drawings that I have at UTA, I'm going to talk to a professor today about them, then I'll get back with you on those."

STEWART: "O.K."

[REDACTED] "Before I give you anything I want to talk to two other people and and what papers I give you you'll get."

STEWART: "Well, all we wanna do is make copies..."

[REDACTED] "It'll be about five minutes before I need to leave...."

STEWART: "O.K. Let's...how soon can you call me on that?"

[REDACTED] "...if there's anything else... /on what?"

STEWART: "On the...when you can..."

[REDACTED] "On the drawings?"

STEWART: "Yeah."

[REDACTED] "How about day after tomorrow?"

STEWART: "That's fine."

[REDACTED] "Wednesday?"

STEWART: "Wednesday is fine."

[REDACTED] "About what time? How about..."

STEWART: "Well..."

[REDACTED] "Wednesday. It'd be, it'd have to be in the afternoon. Three o'clock?"

STEWART: "Fine."

[REDACTED] "O.K."

STEWART: "And in the meantime, you said you'd seen other things that you noticed, why don't you give us a run-down on those, what you can remember or recall?"

[REDACTED] "Well, why don't we just hold off on that right now, and then..."

STEWART: "No, I don't mean now, I mean in the meantime..."

[REDACTED] "O.K."

STEWART: "You can just make notes on what you're concerned with."

[REDACTED] "O.K."

STEWART: "O.K.? You say you've got to get going to class?"

[REDACTED] "Uh huh."

[REDACTED] "I haven't really had a chance to talk to [REDACTED] It may be that [REDACTED] situation will be different from the [REDACTED] anyway. It may be that if [REDACTED] has someone that [REDACTED] thinks has not done work correctly or [REDACTED] concerned that may not have done work correctly, and [REDACTED] says, 'Joe Blow, down there, didn't give a damn about the way things were done and I don't think [REDACTED] did it right, or there's a good possibility he didn't do it right,' and we give you that name and you go check with Joe Blow and he says, 'Why, I always did everything right; everything's beautiful,' and that's confidential then between you and him and we never get to even hear about it or to cross-examine him or anything like that..."

STEWART: "Normally we don't talk to him if we know specifically. If we have specifics, we can track these things down. When people talk in generalities, what can we do?"

TOMLINSON: "...a lot of cables, a lot of hangers, an awful lot of people, the proverbial needle in the haystack. We really have to have something that will pin it down a little closer than that. There's a cable at Comanche Peak, or there's a hanger at Comanche Peak."

[REDACTED] "Right."

70 [REDACTED] "The information that I've given you, is it pretty much common, do you get this all the time? Or am I pretty much an isolated case, I'm one out of the hundreds of people that work there, that just happened to realize that that was the Q cable that was spliced? Or that was the, you know, that they're crowding the trays, or that they're doing something?"

TOMLINSON: "You're in a better position to answer that than we are." (to Herr)

[REDACTED] "How many people come by here and talk to you like this?"

HERR: "Yeah, and <sup>my answer</sup> I may tend to identify various people and I don't know if I'd like to answer that or not...."

[REDACTED] "Well, you don't have to mention any people, just give a percentage... just give an idea of how many people come by and talk to you..."

[REDACTED] "Well, not names. All he wants is just -- he just wants to know if he's just an isolated case."

[REDACTED] "...that's all I care about."

HERR: "No."

TOMLINSON: "No."

STEWART: "No."

[REDACTED] "Do you get a lot of people, a few people, ten, twenty? Less?"

HERR: "Somewhere in there."

(laughter)

[REDACTED] "Ten, twenty, or less."



HERR: "I have one question I'd like to ask you on the Q cable. Is there a way you can take a Q cable and splice it and it be all right?"

[REDACTED] "Yes, sir, it's probably true. But that's not what the contract says."

HERR: "....I just wanted to know if there's a way and you're aware of that way."

[REDACTED] "I am not an electrician."

TOMLINSON: "I've got another question on that. When you're talking about cable, is it a factory-spliced cable or is it a site-spliced cable?"

[REDACTED] "No. Site-spliced."

TOMLINSON: "Site-spliced."

[REDACTED] "That is right. It was a site-spliced cable, it was not a factory-spliced cable."

TOMLINSON: "O.K."

HERR: "How did you recognize it?"

[REDACTED] "I pulled it. I'm telling you the cable that I pulled."

7c STEWART: "No. Recognized exactly where it was spliced?"

[REDACTED] "Yes, sir."

STEWART: "What did it look like at the time you saw it? Had it been a finished splice?"

[REDACTED] "Oh, it was very nice, very neatly done..."

(TELEPHONE RINGS)

[REDACTED] "...very well done splice. They did a very good job..."

TOMLINSON (answering phone): "Seidle's office. Tomlinson."

[REDACTED] "...of splicing it, but..."

TOMLINSON: "Oh, we're just about closing up."

[REDACTED] "...my understanding of the contract that they had with Q cable was that there was no splicing..."

TOMLINSON: "Hang on just a second."

[REDACTED] "...whatsoever."

TOMLINSON: "What color was the cable?"

[REDACTED] "I don't recall."

TOMLINSON (into telephone): "He says he doesn't recall the color."

[REDACTED] "Green, yellow, orange, black..."

TOMLINSON (into telephone): "O.K. Uh huh." (Hangs up telephone)

[REDACTED] "They had all colors, all different colors, but I know at that time, I -- hell, it's been, what, two years ago, three years ago? I don't remember. At that time I had worked on six different sites pulling, you know, pulling cable, routing it, routing it conduits."

HERR: "Did you write this up -- when you saw this, did you write it up as a nonconformance or bring it to anybody's attention?"

[REDACTED] "Negative. Are you kidding?"

HERR: "I don't kid very much."

[REDACTED] "Well, I'm sure you don't, sir, but I expressed that as a -- I didn't mean that as a wise comment, but as a person in the field, as a worker in the field, you didn't do that because [REDACTED]"

nc [REDACTED] that worked as a pipe fitter made an attempt to write up a nonconformance report and made his life in jeopardy And when you're working out with that many people, you had -- I'm not going to say a low class -- you had people that were coming from a \$3.00 an hour job that they were happy with at one time and then jumped up and made \$8.00, \$10.00, \$12.00, \$13.00, \$14.00 an hour; you weren't going to take that job away from them. If you wrote that nonconformance report up, in turn, not just that one person but that crew would be jeopardized."

HERR: "Are you telling me that nonconformances aren't written out there in your department?"

[REDACTED] "No, sir, I'm not telling you that."

HERR: "What are you telling me? Your brother didn't write one because he was afraid of getting beat up. That was an isolated case..."

[REDACTED] "That happened, sir..."

HERR: "...or is that the feeling..."

[REDACTED] "...that happened outside all the time..."

HERR: "Is that a feeling throughout the department that you..."

[REDACTED] "Yes, sir."

HERR: "...worked for?"

[REDACTED] "Not -- that's a feeling that's throughout the plant."

HERR: "So therefore, if that feeling persisted, there wouldn't be any non-conformances written."

[REDACTED] "I know that on the containment No. 1 door, the -- what's it called? the pressure door, airlock, there was a faulty weld on that door that was reported and four people were fired. And out in the parking lot, there was a good fight going, and it was due to that."

HERR: "Did you participate in the fight?"

[REDACTED] "No, I ran like hell."

HERR: "Did you know it was a fight over that and not over some girl?"

[REDACTED] "Yes, sir."

HERR: "Well, how many nonconformances are written down there? Do we have any?"

STEWART OR TOMLINSON: "Oh, are you kidding?"

[REDACTED] "Hundreds. Thousands."

HERR: "Thousands....we're talking about a five-year period."

STEWART (to [REDACTED]): "You've been looking at them, you've been sorting through them."

[REDACTED] "I may be the most expert person here on that."

STEWART: "Right. How many is there? Did you ever count them?"

[REDACTED] "There's a few thousand...however..."

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HERR: "Probably good management practice. Besides that, probably you said you saw thousands?"

[REDACTED] "Probably, I imagine, three or four thousand."

HERR: "Three or four thousand?"

TOMLINSON: "That's a decent number."

HERR: "So I guess there're not too many people who feared for losing their job if they write a nonconformance."



[REDACTED] "Also, you need to look at what has been written up and what hasn't been written up also."

HERR: "See, if this is a problem, I've investigated these things before..."

[REDACTED] "I think in certain areas you'll find some things written up and some things not."

HERR: "...and I've found some of them to be true in some departments. I would only be concerned if it was true in your department. But it's obviously not true throughout the whole plant, so I can dismiss 95% and concentrate on the other 5%."

[REDACTED] "Well, if you want to dismiss 95% of it, then that's fine..."

[REDACTED] "I think I'd have to...."

[REDACTED] "All I know was the feeling throughout the plant. I went down there as a very green person. I didn't know what was going on. I didn't know, so I had to follow everybody, I had to talk to other people. My crew -- you know, we were a small group but you always heard, you know what's going in a construction plant, you know where you are in the percentage of completion from the start to the completion, you just know it. You're putting it up, you're doing it."

nc [REDACTED] "There's a lot of things that happen down there -- if somebody tells you you've got to be very very careful, that can be taken a lot of different ways, and you don't have to always be told 'I'm going to beat the hell out of you in the parking lot if you do this' to know that that's what they mean. And as far as what's written up, I think that that's something else that bothers us, but I don't know if we really want to get into all that right now."

HERR: "Yes, but you're telling me that you didn't write this question up because you felt intimidated and threatened, and if you...."

[REDACTED] "No, I felt at that time it would probably be repelled, be pulled back, but it was too long -- it was a full spool, they'd have to go back..."

HERR: "So you didn't report it because you felt that it was going to be repelled."

[REDACTED] "At that time, I probably did. In fact, maybe I can come back and say I really didn't care. I had the idea in my mind that I cared but I wasn't overly concerned, I had other problems going on outside of my..."

HERR: "What has changed your thinking?"

[REDACTED] "Sir?"

HERR: "I mean, could they have pulled that and you not known about it?"

[REDACTED] "Very true. All these drawings could be redone and properly relocated. If that's true, that's fine and dandy, but there's no way that they're going to let me in that gate right now and find out."

HERR: "...I just wanted to know, that's all."

[REDACTED] "I would like to find out. You know, if I could go down there and I could scrounge through some of that cable to see if it's been spliced, you know, it seems like that's all I'm basing my comments on, is that cable and, you know, a few of these drawings, a few hundred of these drawings that I've drawn, which is a very small fraction of what is really going on there. [REDACTED] I spilled my guts out to [REDACTED] one time and [REDACTED] was going 'My God, I don't believe what I'm hearing!' But what you want is facts, what you want is what I had or I have on a piece of paper."

[REDACTED] "All that he's talked to you about here is what he can pretty well prove or that he has concerns about that is provable."

STEWART: "Well, like I say, I think we can't do much more now until you get, you know, try to tie this stuff down a lot closer than what it is."

[REDACTED] "When you get this done, if you went and found that there were problems, would those specific problems be addressed or would a thorough investigation then follow if there were problems?"

2  
TOMLINSON: "A little of both. Because it would be done in two stages. First, we would locate the things that he has said; there would be a report written on that. Then there would probably be some action taken. I hate to use the words stop work or anything else, but some action would be taken and then it would go much further."

[REDACTED] "It's getting close to that time..."

[REDACTED] "Yeah..."

[REDACTED] "I need to go ahead and run. We can continue this later on if you like, if you feel that there's enough information for you or the information that I'm going to continue to give you. We can meet some other time, but I need to go ahead and get to my class. What was your name again, you're...?"

STEWART: "Bob Stewart."

[REDACTED] "And you're...?"

TOMLINSON: "Dan Tomlinson."

[REDACTED] "Dan Tomlinson?"

TOMLINSON: "T-o-m-l-i-n-s-o-n."

[REDACTED] "And you're...? It'll still pick up, sir."

[REDACTED] "Richard Herr."

[REDACTED] "It'll pick up very well." (referring to his tape recorder)

HERR: "Richard Herr."

[REDACTED] "Richard Hart?"

11/8/82 NRC [REDACTED] Interview

CASE ATTACHMENT 10 - Page 35

HERR: "Herr."

[REDACTED] "Herr."

[REDACTED] "Richard Herr."

7C



11/8/82 Interview at NRC Region IV Offices, Arlington, Texas between [REDACTED] and the U. S. Nuclear Regulatory Commission (NRC); present were: [REDACTED]

Robert [REDACTED]

Stewart; Dan Tomlinson; and Richard Herr.

Pages: 1-6 } Category 1  
Page 27, 29, 30 }  
31, 34 }

where is page 42

missing

STEWART: "...if you have anything more you could add to this...what you're describing..."

[REDACTED] "Do you want a copy of this? Do you have a copy of that?" (To Mr. Stewart, then to [REDACTED] referring to [REDACTED] testimony and transcript from the September 1982 operating license hearings)

[REDACTED] "Uh huh..."

[REDACTED] (To Stewart) "I was wondering if you had a copy. I felt sure that you did."

STEWART: "Yeah. This is out of the transcript. Yeah. Down on, uh...let's see..."

[REDACTED] "Down near line 20...it's O.K. if I record this...is that all right?"

STEWART: "No. Fine. Go right ahead."

STEWART: "Let's see if I can get a line and a page...on page 5552."

[REDACTED] "O.K."

STEWART: "Now you said...let's see, it'd be line 2 where you said...well, 1, 2 and 3...800 foot [REDACTED], quality control cable, I guess you didn't finish the pull and it ended up [REDACTED] cable spreading room, the lower section of control room number one..."

[REDACTED] "Yes, sir."

STEWART: "O.K. You said..."

[REDACTED] "That would have been 800 plus."

STEWART: "...800 plus, O.K., that's immaterial. On line 6, 7 and 8 and 9, you said "Several weeks later, or a week later, in fact it was four days later, I went back to that location to check to see if it was spliced and I found out that it was spliced."

[REDACTED] "Yes, sir."

STEWART: "Do you have a cable pull number or some way that we could locate that?"

[REDACTED] "Well, of course not."

STEWART: "Well, I didn't know, uh, you know, pretty specific, said that it was a splice."

[REDACTED] "Yes, sir. It was."

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[REDACTED] "I don't recall."

TOMLINSON (into telephone): "He says he doesn't recall the color."

[REDACTED] "Green, yellow, orange, black..."

TOMLINSON (into telephone): "O.K. Uh huh." (Hangs up telephone)

[REDACTED] "They had all colors, all different colors, but I know at that time, I -- hell, it's been, what, two years ago, three years ago? I don't remember. At that time I had worked on six different sites pulling, you know, pulling cable, routing it, routing it conduits."

HERR: "Did you write this up -- when you saw this, did you write it up as a nonconformance or bring it to anybody's attention?"

[REDACTED] "Negative. Are you kidding?"

HERR: "I don't kid very much."

[REDACTED] "Well, I'm sure you don't, sir, but I expressed that as a -- I didn't mean that as a wise comment, but as a person in the field, as a worker in the field, you didn't do that because [REDACTED]

[REDACTED] that worked as a pipe fitter made an attempt to write up a nonconformance report and made his life in jeopardy

And when you're working out with that many people, you had -- I'm not going to say a low class -- you had people that were coming from a \$3.00 an hour job that they were happy with at one time and then jumped up and made \$8.00, \$10.00, \$12.00, \$13.00, \$14.00 an hour; you weren't going to take that job away from them. If you wrote that nonconformance report up, in turn, not just that one person but that crew would be jeopardized."

HERR: "Are you telling me that nonconformances aren't written out there in your department?"

[REDACTED] "No, sir, I'm not telling you that."

HERR: "What are you telling me? Your brother didn't write one because he was afraid of getting beat up. That was an isolated case..."

[REDACTED] "That happened, sir..."

HERR: "...or is that the feeling..."

[REDACTED] "...that happened outside all the time..."

HERR: "Is that a feeling throughout the department that you..."

[REDACTED] "Yes, sir."

HERR: "...worked for?"

[REDACTED] "Not -- that's a feeling that's throughout the plant."

HERR: "So therefore, if that feeling persisted, there wouldn't be any non-conformances written."

[REDACTED] "I know that on the containment No. 1 door, the -- what's it called? the pressure door, airlock, there was a faulty weld on that door that was reported and four people were fired. And out in the parking lot, there was a good fight going, and it was due to that."

HERR: "Did you participate in the fight?"

[REDACTED] "No, I ran like hell."

HERR: "Did you know it was a fight over that and not over some girl?"

[REDACTED] "Yes, sir."

HERR: "Well, how many nonconformances are written down there? Do we have any?"

7c STEWART OR TOMLINSON: "Oh, are you kidding?"

[REDACTED] "Hundreds. Thousands."

HERR: "Thousands....we're talking about a five-year period."

STEWART (to [REDACTED]) "You've been looking at them, you've been sorting through them."

[REDACTED] "I may be the most expert person here on that."

STEWART: "Right. How many is there? Did you ever count them?"

[REDACTED] "There's a few thousand...however..."

[REDACTED] "I got to sit in on the meetings as a scheduler, as a planner/scheduler. I had the opportunity to sit in on some of the meetings where they discussed some of the nonconformance reports. When they felt that there was a problem somewhere, they tried to talk it out before it was formally written up, can we go ahead and get this thing taken care of? That happens on every site. They try and go ahead and see what they can do to settle it before it's formally written up."

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ELECTRICAL CERTIFICATION REPORT

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3. ELECTRICAL ABBREVIATIONS KEY

A	Eye Examination
B	Embedded Conduit, 11.3-21
C	Conduit Raceway, 11.3-23
D	Cable Tray, 11.3-24 ✓
E	Lighting, 11.3-25 ✓
F	Cable Pulling, 11.3-26 ✓
G	Megger, 11.3-27
H	Termination, 11.3-28 ✓
I	Separation, 11.3-29 ✓
J	Random, 11.3-30
K	Equipment, 11.3-31
L	Hilti Bolt, 11.2 ✓
M	Ductbank and Manhole Inspection, 11.3-3
N	Inspection of Cable Repairs, 11.3-34 ✓
O	Inspection of Fire Detection System, 11.3-36
P	Inspection for Penetration Seals, 11.3-37
Q	Installation of Class 1E Equipment, 11.3-38
R	Storage and Leak Rate Testing; Electrical Penetrations, 11.3-39
S	Class 1E Elec. Post Const. Verification, 11.3-40 ✓
T	Electrical Soldering, 11.3-41
U	Instrument Racks, 11.3-42
V	NIS Triaxial Cable, 11.3-43
W	Inspection of Field Installation of Fire Barrier Material, 11.3-44 ✓
X	Thermo Lag Fire Protection Coating, 11.3-45
Y	Install. of Elec. Conductor Seal Assy., 11.3-46
Z	Installation of Limit Switches, 11.3-47 ✓
ZA	Verify Auxiliaries to Westinghouse Valves, 11.3-48
ZB	Installation of Conax Module Assemblies, 11.3-49
ZC	Cable Grip Support Installation, 11.3-50 ✓
ZD	Electrical Inspection of Heating Triax EPA Modules, 11.3-51
ZE	Electrical Inspection of Reseating, Removal & Installation of Electrical Penetration Modules, 11.3-52
ZF	Surface Preparation of Electrical Penetration Assembly Weld Neck Flanges, 11.3-53

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LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	TD	WE
ADAMS			A	LII	01/07/03			
			U*		11/29/03	11/29/04		
			C*		11/29/03	11/29/04		
			D*		11/29/03	11/29/04		
			E*		11/29/03	11/29/04		
			F*		11/29/03	11/29/04		
			G*		11/29/03	11/29/04		
			H*		11/29/03	11/29/04		
			I*		11/29/03	11/29/04		
			J*		11/29/03	11/29/04		
			K*		11/29/03	11/29/04		
			L*		11/29/03	11/29/04		
			M*		11/29/03	11/29/04		
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			V*		11/29/03	11/29/04		
			W*		11/29/03	11/29/04		
			X*		11/29/03	11/29/04		
			Y*		11/29/03	11/29/04		



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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	ME
ADAMS	R.	[REDACTED]	Z*		11/29/83	11/29/84		
			ZA*		11/29/83	11/29/84		
			ZB*		11/29/83	11/29/84		
			ZC*		11/29/83	11/29/84		
			ZD*		11/29/83	11/29/84		
			ZE*		11/29/83	11/29/84		
BIELESS	R.	[REDACTED]	A	L11	01/13/84	01/13/85		
			B*		12/07/83	11/22/84		
			C*		01/04/84	11/22/84		
			D*		01/04/84	11/22/84		
			E*		01/06/84	11/22/84		
			F*		11/22/83	11/22/84		
			G*		11/22/83	11/22/84		
			H*		11/22/83	11/22/84		
			I*		11/22/83	11/22/84		
			J*		12/07/83	11/22/84		
			K*		01/06/84	11/22/84		
			M*		12/07/83	11/22/84		
			N*		11/22/83	11/22/84		
			U*		01/06/84	11/22/84		
			P*		01/06/84	11/22/84		
			Q*		11/22/83	11/22/84		
			K*		12/09/83	11/22/84		
			S*		11/22/83	11/22/84		
			T*		12/09/83	11/22/84		

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LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	CO	WE
BIESS	R.	[REDACTED]	U+		01/07/84	11/22/84		
			V+		11/22/83	11/22/84		
			W+		01/09/84	11/22/84		
			X+		12/03/83	11/22/84		
			Y+		01/09/84	11/22/84		
			Z+		11/22/83	11/22/84		
			ZA+		00/00/00	00/00/00		
			ZB+		01/09/84	11/22/84		
			ZC+		11/22/83	11/22/84		
			ZD+		01/09/84	11/22/84		
			ZE+		01/09/84	11/22/84		
			ZF+		03/29/84	11/22/84		
BOWLES	J.	[REDACTED]	A	LI	08/08/83	08/08/84		
			B		02/21/84	02/21/85		
			E		12/05/83	12/05/84		
			F		09/30/83	09/30/84		
			G		11/22/83	11/22/84		
			H		11/22/83	11/22/84		
			I		12/15/83	12/15/84		
			L		01/30/84	01/30/85		
			N		10/18/83	10/18/84		
			O		12/05/83	12/05/84		
			P		02/15/84	02/15/85		
			S		01/09/84	01/09/85		
BUCKIN	S.	[REDACTED]	A	LI	12/29/83	12/28/84		

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LAST-NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
BUCKIN	S.	[REDACTED]	B		06/13/84	06/13/85		
			C		01/12/84	01/12/85		
			D		02/01/84	02/01/85		
			F		02/01/84	02/01/85		
			H		01/16/84	01/16/85		
			I		01/16/84	01/16/85		
			L		06/13/84	06/13/85		
			N		01/12/84	01/12/85		
			S		01/25/84	01/25/85		
			W		02/27/84	02/27/85		
			Z		06/13/84	06/13/85		
			ZC		02/01/84	02/01/85		
BURNS	S.	[REDACTED]	A	LII	11/02/83	11/02/84		
			B+		06/21/83	06/20/84		
			C+		12/18/81	06/20/84		
			D+		06/20/83	06/20/84		
			E+		02/24/82	06/20/84		
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			G+		08/24/82	06/20/84		
			H+		04/23/82	06/20/84		
			I+		01/31/83	06/20/84		
			J+		01/26/82	06/20/84		
			K+		04/24/83	06/20/84		
			L+		02/15/82	06/20/84		
			M+		06/21/83	06/20/84		



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LAST NAME ..... FI ..... SOCIAL SECURITY ..... CERT. DATE ..... CERT. EXP. .... ED ..... WE .....  
BURNS ..... S. ....

N+	04/23/82	06/ /84
U+	07/01/82	06/ /84
P+	05/24/82	06/ /84
Q+	11/26/83	06/ /84
R+	06/20/83	06/ /84
S+	06/27/83	06/ /84
T+	06/20/83	06/ /84
U+	09/14/83	06/ /84
V+	10/21/82	06/ /84
M+	07/21/83	06/ /84
X+	06/30/83	06/ /84
Y+	06/20/83	06/ /84
Z+	07/22/83	06/ /84
ZA+	07/22/83	06/ /84
ZB+	07/22/83	06/ /84
ZC+	06/20/83	06/ /84
ZD+	11/09/83	06/ /84
ZE+	11/02/83	06/ /84
A	01/10/84	01/10/85
B+	12/01/83	12/01/84
C+	12/01/83	12/01/84
D+	12/01/83	12/01/84
E+	12/01/83	12/01/84
F+	12/01/83	12/01/84
G+	12/01/83	12/01/84

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7/06/84

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LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
CANACHU	A.	[REDACTED]	II*		12/01/83	12/01/84		
			I*		12/01/83	12/01/84		
			J*		12/01/83	12/01/84		
			K*		12/01/83	12/01/84		
			L*		12/01/83	12/01/84		
			M*		12/01/83	12/01/84		
			N*		12/01/83	12/01/84		
			O*		12/01/83	12/01/84		
			P*		12/01/83	12/01/84		
			Q*		12/01/83	12/01/84		
			R*		12/01/83	12/01/84		
			S*		12/01/83	12/01/84		
			T*		12/01/83	12/01/84		
			U*		12/01/83	12/01/84		
			V*		12/01/83	12/01/84		
			W*		12/01/83	12/01/84		
			X*		12/01/83	12/01/84		
			Y*		12/01/83	12/01/84		
			Z*		12/01/83	12/01/84		
			ZA*		12/01/83	12/01/84		
			ZB*		12/01/83	12/01/84		
			IC*		12/01/83	12/01/84		
			LD*		03/03/84	12/01/84		
			LE*		03/09/84	12/01/84		
			LF*		04/23/84	12/01/84		

COMANCHE PEAK CTS SYSTEM REPORT  
INSPECTOR CERTIFICATION MATRIX MASTER REPORT

03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
CREEK	J.	[REDACTED]	A	LIT	01/13/84	01/13/85		
			B+		11/10/83	10/26/84		
			C+		09/23/83	10/26/84		
			D+		11/17/83	10/26/84		
			E+		11/08/83	10/26/84		
			F+		10/26/83	10/26/84		
			G+		01/31/83	10/26/84		
			H+		01/31/83	10/26/84		
			I+		06/08/83	10/26/84		
			J+		08/03/83	10/26/84		
			K+		11/07/83	10/26/84		
			L+		03/30/84	03/30/85		
			M+		11/10/83	10/26/84		
			N+		01/31/83	10/26/84		
			O+		11/08/83	10/26/84		
			P+		11/16/83	10/26/84		
			Q+		01/31/83	10/26/84		
			R+		11/04/83	10/26/84		
			S+		03/09/83	10/26/84		
			T+		11/07/83	10/26/84		
			U+		11/19/83	10/26/84		
			V+		10/07/83	10/26/84		
			W+		09/28/83	10/26/84		
			X+		11/04/83	10/26/84		
			Y+		11/07/83	10/26/84		

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DOE 2/10/77



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CUMMINGS PEAK IS SYSTEM REPORT  
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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FT	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	ME
CREEK	J.	[REDACTED]	Z+		02/15/83	10/26/84		
			ZA+		05/24/83	10/26/84		
			ZD+		11/14/83	10/26/84		
			ZC+		10/10/83	10/26/84		
			ZD+		11/10/83	10/26/84		
			ZE+		11/10/83	10/26/84		
CRISS	H.	[REDACTED]	A	LII	12/01/83	12/01/84		NOT CERT.
			B+		[REDACTED]	[REDACTED]		
			C+		11/22/83	11/22/84		
			D+		01/19/84	11/22/84		
			E+		11/22/83	11/22/84		
			F+		11/22/83	11/22/84		
			G+		11/22/83	11/22/84		
			H+		11/22/83	11/22/84		
			I+		11/22/83	11/22/84		
			K+		02/27/84	11/22/84		
			L+		[REDACTED]	[REDACTED]		
			M+		[REDACTED]	[REDACTED]		
			N+		11/22/83	11/22/84		
			U+		11/22/83	11/22/84		
			P+		02/28/84	11/22/84		
			Q+		02/02/84	11/22/84		
			R+		04/03/84	11/22/84		
			S+		11/22/83	11/22/84		
			T+		03/01/84	11/22/84		

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COMANCHE PERMITS SYSTEM REPORT  
I INSPECTOR CERTIFICATION MATRIX MASTER REPORT I

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ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CR	LEVEL	CERT. DATE	CERT. EXP.	ED	ME
CRISS	II.	[REDACTED]	U*		03/02/84	11/22/84		
			V*		11/22/83	11/22/84		
			W*		11/22/83	11/22/84		
			X*		01/12/84	11/22/84		
			Y*		03/06/84	11/22/84		
			Z*		11/22/83	11/22/84		
			ZA*		03/07/83	11/22/84		
			ZB*		03/07/83	11/22/84		
			ZC*		11/22/83	11/22/84		
			ZD*		12/13/83	11/22/84		
			ZE*		03/09/84	11/22/84		
DAVIS	L.	[REDACTED]	A	LII	01/04/84	01/04/85		
			B*		11/01/83	10/26/84		
			C*		03/14/83	10/26/84		
			D*		07/27/83	10/26/84		
			E*		04/07/83	10/26/84		
			F*		01/25/83	10/26/84		
			G*		02/24/83	10/26/84		
			H*		04/04/83	10/26/84		
			I*		04/28/83	10/26/84		
			J*		03/24/83	10/26/84		
			K*		11/04/83	10/26/84		
			L*		02/22/83	10/26/84		
			M*		11/04/83	10/26/84		
			N*		03/14/83	10/26/84		

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COMANCHE PEAK JTS SYSTEM REPORT  
I INSPECTOR CERTIFICATION MATRIX MASTER REPORT I

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
DAVIS	L.	[REDACTED]	01*		04/07/83	10/26/84		
			P*		04/29/83	10/26/84		
			Q*		10/31/83	10/26/84		
			R*		11/04/83	10/26/84		
			S*		10/31/83	10/26/84		
			T*		11/07/83	10/26/84		
			U*		11/01/83	10/26/84		
			V*		04/29/83	10/25/84		
			M*		10/31/83	10/26/84		
			X*		11/04/83	10/26/84		
			Y*		11/07/83	10/26/84		
			Z*		10/31/83	10/26/84		
			ZA*		11/07/83	10/26/84		
			ZB*		11/07/83	10/26/84		
			ZC*		07/28/83	10/26/84		
			ZD*		11/09/83	10/26/84		
			ZE*		11/02/83	10/26/84		
FLURES	E.	[REDACTED]	A	LII	01/10/84	01/10/85		
			B*		12/01/83	12/01/84		
			C*		12/01/83	12/01/84		
			D*		12/01/83	12/01/84		
			E*		12/01/83	12/01/84		
			F*		12/01/83	12/01/84		
			G*		12/01/83	12/01/84		
			H*		12/01/83	12/01/84		

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( INSPECTOR CERTIFICATION MATRIX MASTER REPORT )

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
FLURES	E.	[REDACTED]	I+		12/01/83	12/01/84		
			J+		12/01/83	12/01/84		
			K+		12/01/83	12/01/84		
			L+		12/01/83	12/01/84		
			M+		12/01/83	12/01/84		
			N+		12/01/83	12/01/84		
			O+		12/01/83	12/01/84		
			P+		12/01/83	12/01/84		
			Q+		12/01/83	12/01/84		
			R+		12/01/83	12/01/84		
			S+		12/01/83	12/01/84		
			T+		12/01/83	12/01/84		
			U+		12/01/83	12/01/84		
			V+		12/01/83	12/01/84		
			W+		12/01/83	12/01/84		
			X+		12/01/83	12/01/84		
			Y+		12/01/83	12/01/84		
			Z+		12/01/83	12/01/84		
			ZA+		12/01/83	12/01/84		
			ZB+		12/01/83	12/01/84		
			ZC+		12/01/83	12/01/84		
			ZD+		12/01/83	12/01/84		
			ZE+		12/01/83	12/01/84		
FORD	W.	[REDACTED]	A	LIT	01/10/84	01/10/85		
			B+		12/01/83	12/01/84		



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COMANCHE PEAK JES SYSTEM REPORT  
INSPECTOR CERTIFICATION MATRIX MASTER REPORT 1

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
FORD			C*		12/01/83	12/01/84		
			D*		12/01/83	12/01/84		
			E*		12/01/83	12/01/84		
			F*		12/01/83	12/01/84		
			G*		12/01/83	12/01/84		
			H*		12/01/83	12/01/84		
			I*		12/01/83	12/01/84		
			J*		12/01/83	12/01/84		
			K*		12/01/83	12/01/84		
			L*		12/01/83	12/01/84		
			M*		12/01/83	12/01/84		
			N*		12/01/83	12/01/84		
			O*		12/01/83	12/01/84		
			P*		12/01/83	12/01/84		
			Q*		12/01/83	12/01/84		
			R*		12/01/83	12/01/84		
			S*		12/01/83	12/01/84		
			T*		12/01/83	12/01/84		
			U*		12/01/83	12/01/84		
			V*		12/01/83	12/01/84		
			W*		12/01/83	12/01/84		
			X*		12/01/83	12/01/84		
			Y*		12/01/83	12/01/84		
			Z*		12/01/83	12/01/84		
			7A*		12/01/83	12/01/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	ME
FORD	N.	[REDACTED]	ZB*		12/01/83	12/01/84		
			ZC*		12/01/83	12/01/84		
			ZD*		03/08/84	12/01/84		
			ZE*		03/09/84	12/01/84		
FORD	J.	[REDACTED]	A	LII	05/30/84	05/30/85		
			B*		12/01/83	12/01/84		
			C*		12/01/83	12/01/84		
			D*		12/01/83	12/01/84		
			E*		12/01/83	12/01/84		
			F*		12/01/83	12/01/84		
			G*		12/01/83	12/01/84		
			H*		12/01/83	12/01/84		
			I*		12/01/83	12/01/84		
			J*		12/01/83	12/01/84		
			K*		12/01/83	12/01/84		
			M*		12/01/83	12/01/84		
			N*		12/01/83	12/01/84		
			O*		12/01/83	12/01/84		
			P*		12/01/83	12/01/84		
			U*		12/01/83	12/01/84		
			R*		12/01/83	12/01/84		
			S*		12/01/83	12/01/84		
			T*		12/01/83	12/01/84		
			U*		12/01/83	12/01/84		
			V*		12/01/83	12/01/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	ME
PORT	J.	[REDACTED]	M+		12/01/83	12/01/84		
			K+		12/01/83	12/01/84		
			Y+		12/01/83	12/01/84		
			Z+		12/01/83	12/01/84		
			ZA+		12/01/83	12/01/84		
			ZB+		12/01/83	12/01/84		
			ZC+		12/01/83	12/01/84		
			ZD+		12/01/83	12/01/84		
			ZE+		12/01/83	12/01/84		
CLUYER	H.	[REDACTED]	A	LI I	04/12/84	04/12/85		
			B+		09/02/83	09/02/84		
			C+		09/02/83	09/02/84		
			D+		09/02/83	09/02/84		
			E+		09/02/83	09/02/84		
			F+		09/02/83	09/02/84		
			G+		09/02/83	09/02/84		
			H+		09/02/83	09/02/84		
			I+		09/02/83	09/02/84		
			J+		09/02/83	09/02/84		
			K+		09/02/83	09/02/84		
			L+		09/02/83	09/02/84		
			N+		09/02/83	09/02/84		
			N+		09/02/83	09/02/84		
			D+		09/02/83	09/02/84		
			P+		09/02/83	09/02/84		

COMANCHE PEAK JTS SYSTEM REPORT  
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ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
GLOVER	II.	[REDACTED]	Q*		09/02/83	09/02/84		
			R*		09/02/83	09/02/84		
			S*		09/02/83	09/02/84		
			T*		09/02/83	09/02/84		
			U*		09/02/83	09/02/84		
			V*		09/02/83	09/02/84		
			W*		09/14/83	09/02/84		
			X*		09/02/83	09/02/84		
			Y*		09/02/83	09/02/84		
			Z*		09/02/83	09/02/84		
			ZA*		09/02/83	09/02/84		
			ZB*		09/02/83	09/02/84		
			ZC*		09/02/83	09/02/84		
			ZD*		09/29/83	09/02/84		
			ZE*		09/23/83	09/02/84		
			A	LI	11/02/83	11/02/84		
			B*		11/11/80	04/ /84		
			C*		07/02/82	04/ /84		
			D*		04/11/83	04/ /84		
			E*		09/03/82	04/11/84		
			F*		03/02/82	04/11/84		
			G*		05/05/82	04/11/84		
			H*		02/14/83	04/11/84		
			I*		09/03/82	04/11/84		
			J*		02/24/82	04/11/84		

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COMANCHE PEAK JTS SYSTEM REPORT  
( INSPECTOR CERTIFICATION MATRIX MASTER REPORT )

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	ME
HARDING	S+	[REDACTED]	K+		04/25/83	04/ /84		
			L+		05/06/82	04/ /84		
			M+		04/27/83	04/ /84		
			N+		07/28/81	04/ /84		
			O+		03/31/82	04/ /84		
			P+		06/16/83	04/ /84		
			Q+		11/26/83	04/ /84		
			R+		04/27/83	04/ /84		
			S+		02/01/83	04/ /84		
			T+		04/25/83	04/ /84		
			U+		04/26/83	04/ /84		
			V+		04/27/83	04/ /84		
			W+		07/28/83	04/ /84		
			X+		04/28/83	04/ /84		
			Y+		09/24/82	04/ /84		
			Z+		08/26/82	04/ /84		
			ZA+		09/30/82	04/ /84		
			ZB+		05/17/83	04/ /84		
			ZC+		05/18/83	04/ /84		
			ZD+		11/09/83	04/ /84		
			ZE+		03/09/84	04/ /84		
HOLMES	N.	[REDACTED]	A	LEE	11/02/83	11/02/84		
			B+		09/12/83	09/12/84		
			C+		09/12/83	09/12/84		
			D+		09/12/83	09/12/84		

03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
HOLMES			E+		09/12/83	09/12/84		
			F+		09/12/83	09/12/84		
			G+		09/12/83	09/12/84		
			H+		09/12/83	09/12/84		
			I+		09/12/83	09/12/84		
			J+		09/12/83	09/12/84		
			K+		09/12/83	09/12/84		
			L+		09/12/83	09/12/84		
			M+		09/12/83	09/12/84		
			N+		09/12/83	09/12/84		
			O+		09/12/83	09/12/84		
			P+		09/12/83	09/12/84		
			Q+		09/12/83	09/12/84		
			R+		09/12/83	09/12/84		
			S+		09/12/83	09/12/84		
			T+		09/12/83	09/12/84		
			U+		09/12/83	09/12/84		
			V+		09/12/83	09/12/84		
			W+		09/12/83	09/12/84		
			X+		09/12/83	09/12/84		
			Y+		09/12/83	09/12/84		
			Z+		09/12/83	09/12/84		
			ZA+		09/12/83	09/12/84		
			ZB+		09/12/83	09/12/84		
			ZC+		09/12/83	09/12/84		

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COMMONWEALTH OF MASSACHUSETTS  
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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
HOLMES	R.	[REDACTED]	ZE+		11/09/83	09/12/84		
			ZE+		09/23/83	09/12/84		
HUNTER	J.	[REDACTED]	A	LII	02/02/84	02/02/85		
			B+		11/29/83	11/23/84		
			C+		11/23/83	11/23/84		
			D+		11/23/83	11/23/84		
			E+		11/23/83	11/23/84		
			F+		11/23/83	11/23/84		
			G+		12/06/83	11/23/84		
			H+		11/23/83	11/23/84		
			I+		11/23/83	11/23/84		
			J+		11/23/83	11/23/84		
			K+		12/06/83	11/23/84		
			L+		11/23/83	11/23/84		
			M+		11/29/83	11/23/84		
			N+		11/23/83	11/23/84		
			O+		11/23/83	11/23/84		
			P+		12/06/83	11/23/84		
			Q+		12/07/83	11/23/84		
			R+		12/07/83	11/23/84		
			S+		11/23/83	11/23/84		
			T+		12/07/83	11/23/84		
			U+		12/12/83	11/23/84		
			V+		12/14/83	11/23/84		
			X+		12/14/83	11/23/84		

COMANCHE PEAK JTS SYSTEM REPORT  
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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	ME
HUNTER	J.	[REDACTED]	ZA*		12/14/83	11/23/84		
			ZB*		03/07/84	11/23/84		
			ZC*		11/23/83	11/23/84		
			ZD*		03/08/84	11/23/84		
			ZE*		03/09/84	11/23/84		
MARS	P.	[REDACTED]	A	LI	09/14/83	09/14/84		
			C		11/20/83	11/20/84		
			D		02/21/84	02/21/85		
			H		09/30/83	09/30/84		
			I		12/20/83	12/20/84		
			J		12/07/83	12/07/84		
			M		10/07/83	10/07/84		
			P		01/17/84	01/17/85		
			S		01/16/84	01/16/85		
			Z		11/03/83	11/03/84		
PILLER*	J.	[REDACTED]	A	LI	04/12/84	04/12/85		
			B*		11/04/83	10/26/84		
			C*		08/25/83	10/26/84		
			D*		11/03/83	10/26/84		
			E*		11/08/83	10/26/84		
			F*		09/27/83	10/26/84		
			G*		06/13/83	10/26/84		
			H*		04/25/83	10/26/84		
			I*		04/15/83	10/26/84		
			J*		08/25/83	10/26/84		



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I INSPECTOR CERTIFICATION MAINTENANCE REPORT 1

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	CD	ME
MILLER*	J.	[REDACTED]	X*		08/25/83	10/26/84		
			L					
			M*		11/04/83	10/26/84		
			N*		05/19/83	10/26/84		
			O*		11/08/83	10/26/84		
			P*		11/08/83	10/26/84		
			Q*		05/03/83	10/26/84		
			R*		11/04/83	10/26/84		
			S*		05/18/83	10/26/84		
			T*		11/07/83	10/26/84		
			U*		11/01/83	10/26/84		
			V*		11/05/83	10/26/84		
			W*		09/20/83	10/26/84		
			X*		11/04/83	10/26/84		
			Y*		11/07/83	10/26/84		
			Z*		07/25/83	10/26/84		
			ZA*		11/07/83	10/26/84		
			ZB*		11/07/83	10/26/84		
			ZC*		09/28/83	10/26/84		
			ZD*		11/09/83	10/26/84		
			ZE*		11/02/83	10/26/84		
			A		01/27/83	07/26/84		
			C		11/20/83	11/20/84		
			D		03/08/84	03/08/85		
			H		08/12/83	08/12/84		

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COMANCHE PEAK TS SYSTEM REPORT  
( INSPECTOR CERTIFICATION MATRIX MASTER REPORT )

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ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	ME
MILLER**	T.	[REDACTED]	I		09/29/83	09/29/84		
			J		10/26/83	10/26/84		
			N		10/29/83	10/29/84		
			S		09/29/83	09/29/84		
			W		09/29/83	09/29/84		
			ZC		08/24/83	08/24/84		
MORROW	B.	[REDACTED]	A	LI I	04/23/84	04/23/85		
			B*		12/13/83	12/13/84		
			C*		12/13/83	12/13/84		
			D*		12/13/83	12/13/84		
			E*		12/13/83	12/13/84		
			F*		12/13/83	12/13/84		
			G*		12/13/83	12/13/84		
			H*		12/13/83	12/13/84		
			I*		12/13/83	12/13/84		
			J*		12/13/83	12/13/84		
			K*		12/13/83	12/13/84		
			M*		12/13/83	12/13/84		
			N*		12/13/83	12/13/84		
			U*		12/13/83	12/13/84		
			P*		12/13/83	12/13/84		
			Q*		12/13/83	12/13/84		
			R*		12/13/83	12/13/84		
			S*		12/13/83	12/13/84		
			T*		12/13/83	12/13/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
MORRIS		[REDACTED]	U+		12/13/83	12/13/84		
			V+		12/13/83	12/13/84		
			W+		12/13/83	12/13/84		
			X+		12/13/83	12/13/84		
			Y+		12/13/83	12/13/84		
			Z+		12/13/83	12/13/84		
			ZA+		12/13/83	12/13/84		
			ZB+		12/13/83	12/13/84		
			ZC+		12/13/83	12/13/84		
			ZD+		12/13/83	12/13/84		
			ZE+		12/13/83	12/13/84		
MC GAUGHY	R.	[REDACTED]	A	LI I	11/02/83	11/02/84		
			B+		09/12/83	09/12/84		
			C+		09/12/83	09/12/84		
			D+		09/12/83	09/12/84		
			E+		09/12/83	09/12/84		
			F+		09/12/83	09/12/84		
			G+		09/12/83	09/12/84		
			H+		09/12/83	09/12/84		
			I+		09/12/83	09/12/84		
			J+		09/12/83	09/12/84		
			K+		09/12/83	09/12/84		
			L+		09/12/83	09/12/84		
			M+		09/12/83	09/12/84		
			N+		09/12/83	09/12/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
MCCAUGHY	R.	[REDACTED]	O+		09/12/83	09/12/84		
			P+		09/12/83	09/12/84		
			Q+		09/12/83	09/12/84		
			R+		09/12/83	09/12/84		
			S+		09/12/83	09/12/84		
			T+		09/12/83	09/12/84		
			U+		09/12/83	09/12/84		
			V+		09/12/83	09/12/84		
			W+		09/12/83	09/12/84		
			X+		09/12/83	09/12/84		
			Y+		09/12/83	09/12/84		
			Z+		09/12/83	09/12/84		
			ZA+		09/12/83	09/12/84		
			ZB+		09/12/83	09/12/84		
			ZC+		09/12/83	09/12/84		
			ZD+		09/12/83	09/12/84		
			ZE+		11/02/83	09/12/84		
			ZF+		03/29/84	09/12/84		
			A		08/01/83	08/01/84		
			B+		08/18/83	10/26/84		
			C+		10/11/83	10/26/84		
			D+		11/03/83	10/26/84		
			E+		08/15/83	10/26/84		
			F+		04/14/83	10/26/84		
			G+		03/23/83	10/26/84		

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COMANCHE PEAK J.S. SYSTEM REPORT  
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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
D*GRANDY	J.	[REDACTED]	H*		08/18/83	10/26/84		
			I*		09/29/83	10/26/84		
			J*		09/18/83	10/26/84		
			K*		11/03/83	10/26/84		
			L*		08/18/83	10/26/84		
			M*		11/04/83	10/26/84		
			N*		08/18/83	10/26/84		
			O*		08/18/83	10/26/84		
			P*		11/08/83	10/26/84		
			Q*		10/31/83	10/26/84		
			R*		11/04/83	10/26/84		
			S*		10/31/83	10/26/84		
			T*		11/07/83	10/26/84		
			U*		11/01/83	10/26/84		
			V*		11/08/83	10/26/84		
			W*		10/31/83	10/26/84		
			X*		11/04/83	10/26/84		
			Y*		09/15/83	10/26/84		
			Z*		10/31/83	10/26/84		
			ZA*		09/30/82	10/26/84		
			ZB*		11/07/83	10/26/84		
			ZC*		10/07/83	10/26/84		
			ZD*		11/09/83	10/26/84		
			ZE*		11/02/83	10/26/84		
OLIVER	H.	[REDACTED]	A	LI	03/16/83	03/16/84		

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ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	AD	WE
OLIVER	D.	[REDACTED]	D+		12/14/83	12/14/84		
			C+		12/14/83	12/14/84		
			D+		12/14/83	12/14/84		
			E+		12/14/83	12/14/84		
			F+		12/14/83	12/14/84		
			G+		12/14/83	12/14/84		
			H+		12/14/83	12/14/84		
			I+		12/14/83	12/14/84		
			J+		12/14/83	12/14/84		
			K+		12/14/83	12/14/84		
			L+		12/14/83	12/14/84		
			M+		12/14/83	12/14/84		
			N+		12/14/83	12/14/84		
			O+		12/14/83	12/14/84		
			P+		12/14/83	12/14/84		
			Q+		12/14/83	12/14/84		
			R+		12/14/83	12/14/84		
			S+		12/14/83	12/14/84		
			T+		12/14/83	12/14/84		
			U+		12/14/83	12/14/84		
			V+		12/14/83	12/14/84		
			M+		12/14/83	12/14/84		
			X+		12/14/83	12/14/84		
			Y+		12/14/83	12/14/84		
			Z+		12/14/83	12/14/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CLMT.	LEVEL	CERT. DATE	CERT. EXP.	FD	ME
OLIVER	0.	[REDACTED]	ZA*		12/14/83	12/14/84		
			ZB*		12/14/83	12/14/84		
			ZC*		12/14/83	12/14/84		
			ZD*		12/14/83	12/14/84		
			ZE*		12/14/83	12/14/84		
BAIRD	P.	[REDACTED]	A	LET	11/02/83	11/02/84		
			B*		04/09/84	04/09/85		
			C*		04/09/84	04/09/85		
			D*		04/09/84	04/09/85		
			E*		04/09/84	04/09/85		
			F*		04/09/84	04/09/85		
			G*		04/09/84	04/09/85		
			H*		04/09/84	04/09/85		
			I*		04/09/84	04/09/85		
			J*		04/09/84	04/09/85		
			K*		04/09/84	04/09/85		
			L*		04/09/84	04/09/85		
			M*		04/09/84	04/09/85		
			N*		04/09/84	04/09/85		
			U*		04/09/84	04/09/85		
			P*		04/09/84	04/09/85		
			U*		04/09/84	04/09/85		
			R*		04/09/84	04/09/85		
			S*		04/09/84	04/09/85		
			T*		04/09/84	04/09/85		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
RAIDON	P.	[REDACTED]	U+		04/09/84	04/09/85		
			V+		04/09/84	04/09/85		
			W+		04/09/84	04/09/85		
			X+		04/09/84	04/09/85		
			Y+		04/09/84	04/09/85		
			Z+		04/09/84	04/09/85		
			ZA+		04/09/84	04/09/85		
			ZB+		04/09/84	04/09/85		
			ZC+		04/09/84	04/09/85		
			ZD+		04/09/84	04/09/85		
			ZE+		04/09/84	04/09/85		
ROBERTS	A.	[REDACTED]	✓A		11/01/83	11/01/84		
			✓C		01/25/84	01/25/85		
			✓D		01/04/84	01/04/85		
			✓E		01/25/84	01/25/85		
			✓F		01/25/84	01/25/85		
			✓H		11/22/83	11/22/84		
			✓I		11/23/83	11/23/84		
			✓L		05/10/84	05/10/85		
			✓M		01/04/84	01/04/85		
			✓S		01/04/84	01/04/85		
			✓W		02/27/84	02/27/85		
			ZC		02/17/84	02/17/85		
SAFFER	H.	[REDACTED]	A	LI	11/30/83	11/30/84		
			B+		11/10/83	10/26/84		



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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	LO	ME
SAFFER	11.	[REDACTED]	C+		03/07/83	10/26/84		
			D+		10/06/83	10/26/84		
			E+		11/17/83	10/26/84		
			F+		06/04/83	10/26/84		
			G+		06/13/83	10/26/84		
			H+		12/16/82	10/26/84		
			I+		05/10/83	10/26/84		
			J+		03/24/83	10/26/84		
			K+		11/16/83	10/26/84		
			L+		03/28/84	10/26/84		
			M+		11/10/83	10/26/84		
			N+		12/16/82	10/26/84		
			U+		11/09/83	10/26/84		
			P+		11/16/83	10/26/84		
			Q+		11/16/83	10/26/84		
			R+		11/19/83	10/26/84		
			S+		05/10/83	10/26/84		
			T+		11/15/83	10/26/84		
			U+		11/15/83	10/26/84		
			V+		03/24/83	10/26/84		
			W+		11/17/83	10/26/84		
			X+		11/14/83	10/26/84		
			Y+		11/10/83	10/26/84		
			Z+		05/10/83	10/26/84		
			ZA+		11/14/83	10/26/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
SAFFER	H.	[REDACTED]	ZB+		11/14/83	10/26/84		
			ZC+		10/10/83	10/26/84		
			ZD+		11/10/83	10/26/84		
			ZE+		11/10/83	10/26/84		
SAXON	C.	[REDACTED]	A	LI	07/27/83	07/27/84		
			C		10/11/83	10/11/84		
			D		11/08/83	11/08/84		
			E		01/04/84	01/04/85		
			F		08/10/83	08/10/84		
			G		10/28/83	10/28/84		
			H		10/11/83	10/11/84		
			I		11/23/83	11/23/84		
			J		10/19/83	10/19/84		
			L		10/31/83	10/31/84		
			M		01/04/84	01/04/85		
			O		11/20/83	11/20/84		
			Q		02/22/84	02/22/85		
			S		01/04/84	01/04/85		
			ZC		10/11/83	10/11/84		
TAGGART	L.	[REDACTED]	A	LI	02/02/84	02/02/85		
			B+		04/18/83	04/18/84		
			C+		03/07/83	04/10/84		
			D+		04/20/83	04/20/84		
			E+		05/16/83	04/20/84		
			F+		04/22/83	04/22/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
TAGGART	L.	[REDACTED]	G*		03/07/83	04/07/84		
			H*		02/04/83	04/07/84		
			I*		04/19/83	04/07/84		
			J*		03/07/83	04/07/84		
			K*		02/02/83	04/07/84		
			L*		02/11/83	04/07/84		
			M*		04/18/83	04/07/84		
			N*		02/03/83	04/07/84		
			O*		04/20/83	04/07/84		
			P*		04/21/83	04/07/84		
			Q*		02/02/83	04/07/84		
			R*		02/02/83	04/07/84		
			S*		04/22/83	04/07/84		
			T*		04/25/83	04/07/84		
			U*		04/26/83	04/07/84		
			V*		04/27/83	04/07/84		
			W*		07/22/83	04/07/84		
			X*		04/28/83	04/07/84		
			Y*		03/07/83	04/07/84		
			Z*		05/01/83	04/07/84		
			ZA*		05/02/83	04/07/84		
			ZB*		05/16/83	04/07/84		
			ZC*		05/18/83	04/07/84		
			ZD*		09/29/83	04/07/84		
			ZE*		11/02/83	04/07/84		

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## ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED
TAYLOR	M.	[REDACTED]		(1)	06/08/84	06/08/85	
					01/12/84	01/12/85	
					10/10/83	10/10/84	
					10/31/83	10/31/84	
					01/16/84	01/16/85	
					10/06/83	10/06/84	
					02/28/84	02/28/85	
					12/15/83	12/15/84	
					07/05/83	07/05/84	
					10/04/83	10/04/84	
					12/01/83	12/01/84	
					10/19/83	10/19/84	
					11/21/83	11/21/84	
					12/01/83	12/01/84	
					11/29/83	11/29/84	
					07/26/83	07/26/84	
					11/20/83	11/20/84	
					03/23/84	03/23/85	
					12/27/83	12/27/84	
					02/22/84	02/22/85	
					03/30/84	03/30/85	
					11/03/83	11/03/84	
					06/22/83	06/22/84	
					11/03/83	11/03/84	



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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
VILLARREAL	H.	[REDACTED]	E		01/11/84	01/11/85		
			F+		08/22/83	08/22/84		
			G		08/22/83	08/22/84		
			H		09/29/83	09/28/84		
			J		08/22/83	08/22/84		
			N		08/22/83	08/22/84		
			U		10/06/83	10/06/84		
			V		10/18/83	10/18/84		
			W		02/23/84	02/23/85		
			ZC		10/25/83	10/25/84		
			A	LIT	09/19/83	09/19/84		
			B+		09/01/83	09/01/84		
			C+		09/01/83	09/01/84		
			D+		09/01/83	09/01/84		
			E+		09/01/83	09/01/84		
			F+		09/01/83	09/01/84		
			G+		09/01/83	09/01/84		
			H+		09/01/83	09/01/84		
			I+		09/01/83	09/01/84		
			J+		09/01/83	09/01/84		
			K+		09/01/83	09/01/84		
			L+		09/01/83	09/01/84		
			M+		09/01/83	09/01/84		
			N+		09/01/83	09/01/84		
			O+		09/01/83	09/01/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	PI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	ME
VERRE	S.	[REDACTED]	P+		09/01/83	09/01/84		
			Q+		09/01/83	09/01/84		
			R+		09/01/83	09/01/84		
			S+		09/01/83	09/01/84		
			T+		09/01/83	09/01/84		
			U+		09/01/83	09/01/84		
			V+		09/01/83	09/01/84		
			W+		09/01/83	09/01/84		
			X+		09/01/83	09/01/84		
			Y+		09/01/83	09/01/84		
			Z+		09/01/83	09/01/84		
			ZA+		09/01/83	09/01/84		
			ZB+		09/01/83	09/01/84		
			ZC+		09/01/83	09/01/84		
			ZD+		03/08/84	09/01/84		
			ZE+		11/02/83	09/01/84		
			A	LII	11/02/83	11/02/84		
			B+		09/12/83	09/12/84		
			C+		09/12/83	09/12/84		
			D+		09/12/83	09/12/84		
			E+		09/12/83	09/12/84		
			F+		09/12/83	09/12/84		
			G+		09/12/83	09/12/84		
			H+		09/12/83	09/12/84		
			I+		09/12/83	09/12/84		

WHITEHEAD

M.

03.

## ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
WHITELINE AD		[REDACTED]	J*		09/12/83	09/12/84		
			K*		09/12/83	09/12/84		
			L*		09/12/83	09/12/84		
			M*		09/12/83	09/12/84		
			N*		09/12/83	09/12/84		
			U*		09/12/83	09/12/84		
			Q*		09/12/83	09/12/84		
			K*		09/12/83	09/12/84		
			S*		09/12/83	09/12/84		
			T*		09/12/83	09/12/84		
			U*		09/12/83	09/12/84		
			V*		09/12/83	09/12/84		
			M*		09/12/83	09/12/84		
			X*		09/12/83	09/12/84		
			Y*		09/12/83	09/12/84		
			Z*		09/12/83	09/12/84		
			ZA*		09/12/83	09/12/84		
			ZB*		09/12/83	09/12/84		
			ZC*		09/12/83	09/12/84		
			ZD*		11/09/83	09/12/84		
			ZE*		09/23/83	09/12/84		
			ZF*		03/29/84	09/12/84		
			A	LII	12/15/83	12/15/84		
			B*		09/01/83	09/01/84		
			C*		09/01/83	09/01/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
WHEATMAN	R.	[REDACTED]	D*		09/01/83	09/01/84		
			E*		09/01/83	09/01/84		
			F*		09/01/83	09/01/84		
			G*		09/01/83	09/01/84		
			H*		09/01/83	09/01/84		
			I*		09/01/83	09/01/84		
			J*		09/01/83	09/01/84		
			K*		09/01/83	09/01/84		
			L*		09/01/83	09/01/84		
			M*		09/01/83	09/01/84		
			N*		09/01/83	09/01/84		
			O*		09/01/83	09/01/84		
			P*		09/01/83	09/01/84		
			Q*		09/01/83	09/01/84		
			R*		09/01/83	09/01/84		
			S*		09/01/83	09/01/84		
			T*		09/01/83	09/01/84		
			U*		09/01/83	09/01/84		
			V*		09/01/83	09/01/84		
			W*		09/01/83	09/01/84		
			X*		09/01/83	09/01/84		
			Y*		09/01/83	09/01/84		
			Z*		09/01/83	09/01/84		
			ZA*		09/01/83	09/01/84		
			ZB*		09/01/83	09/01/84		



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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
WHITMAN	R.	[REDACTED]	FC+		09/01/83	09/01/84		
			2D+		11/09/83	09/01/84		
			ZE+		11/02/83	09/01/84		
			A	LII	09/21/83	09/21/84		
			B+		11/04/83	10/26/84		
			C+		09/01/83	10/26/84		
			D+		11/03/83	10/26/84		
			E+		09/01/83	10/26/84		
			F+		08/22/83	10/26/84		
			G+		08/22/83	10/26/84		
			H+		08/22/83	10/26/84		
			I+		08/30/83	10/26/84		
			J+		08/22/83	10/26/84		
			K+		11/03/83	10/26/84		
			L+		08/22/83	10/26/84		
			M+		11/04/83	10/26/84		
			N+		08/22/83	10/26/84		
			O+		08/22/83	10/26/84		
			P+		11/08/83	10/26/84		
			Q+		10/31/83	10/26/84		
			R+		11/04/83	10/26/84		
			S+		08/01/83	10/26/84		
			T+		11/07/83	10/26/84		
			U+		11/01/83	10/26/84		
			V+		10/21/83	10/26/84		

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03. ELECTRICAL CERTIFICATION REPORT

LAST NAME	FI	SOCIAL SECURITY	CERT.	LEVEL	CERT. DATE	CERT. EXP.	ED	WE
WIGGS		[REDACTED]	M*		10/26/83	10/26/84		
			K*		11/04/83	10/26/84		
			Y*		11/07/83	10/26/84		
			Z*		08/22/83	10/26/84		
			Z*		11/07/83	10/26/84		
			ZB*		11/07/83	10/26/84		
			ZC*		11/01/83	10/26/84		
			ZD*		11/09/83	10/26/84		
			ZE*		11/02/83	10/26/84		