

SIXTH AFFIDAVIT

OF

JAMES E. HERRY, JR.

DATE: June 20, 1979

PLACE: Law office of Thomas M. Dattilo, 311 East Main Street,
Madison, Indiana.

TIME: 4:00 P.M.

PARENT: Thomas M. Dattilo, Attorney for Save The Valley,
Incorporated.

Mr. James E. Herry, Jr., the witness.

Mrs. Patricia S. Torline, the reporter

PATRICIA S. TORLINE
SHORTHAND REPORTER
RT. 6, BOX 2A
MADISON, INDIANA 47250

8011200 554

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2 The witness, JAMES E. HENRY, having been duly sworn by
3 the reporter to tell the truth, the whole truth and nothing but
4 the truth, testified as followed:

5 QUESTIONS BY MR. BATTING:

6 Q. State your name?

7 A. James E. Henry, Jr.

8 Q. Are you now or have you been an employee on or about
9 the proposed Marble Hill nuclear site?

10 A. I was employed there for nine (9) months.

11 Q. For whom?

12 A. For U.S. Testing, Incorporated, from Hoboken, New
13 Jersey.

14 Q. And what is the capacity or work of U.S. Testing?

15 A. U.S. Testing is the independent laboratory that supplies
16 test data on materials to be used by Public Service of
17 Indiana, the client, and Newberg Marble Hill for the
18 later use to determine whether or not the materials are
19 acceptable.

20 Q. What materials are you speaking of that are tested?

21 A. Concrete, grout, reinforcement bar, and they also do
22 soil for compaction purposes.

23 Q. What was your specific occupation in employment with
24 U.S. Testing?

25 A. I was a lab technician, Level I.

26 Q. What was your function?

27 A. I tested at various times concrete and re-bar, and I
28 was documented in various laboratory procedures for

1 the purpose of determining acceptability of materials.

2
3 Q. Now, do you recall any specific instances regarding
4 the testing of the materials that you were involved?

5 A. I can think that, most of all, other than specific,
6 it was the attitude taken by the company. Many times -

7 Q. Now, I am interrupting you - I'm sorry - but I want
8 you to speak with regard to what you know personally;
9 so you understand that?

10 A. Yes sir.

11 Q. And you are under oath?

12 A. Yes sir.

13 Q. So, go ahead.

14 A. I personally feel that I have documents that will prove
15 that poor grade concrete was used in certain structures
16 with the knowledge of Public Service Indiana, and that
17 certain testing apparatus on site are not new and of
18 a quality that could give an accurate account of the
19 materials. They have a machine called an LI-1000 which
20 has been re-conditioned. Several of the mandrels are
21 very badly worn.

22 Q. Several of the - ?

23 A. Mandrels; they're jigs used to bend the re-bar to a
24 45 or 90 degree angle to determine whether or not they
25 will pass the specifications written out by Sergeant
26 and Lundy.

27 Q. Now you mentioned Sergeant and Lundy; what is Sergeant
28 and Lundy?

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 2 A. Sergeant and Lundy write the specifications and establish
 3 guidelines, and - guidelines set forth by the A.S.T.M.,
 4 American Concrete Institute, and several other organi-
 5 zations who deal with materials and their quality.
 6 They are there to more or less interpret specifications
 7 and also write the specifications, and also change the
 8 specifications as the situations arise.

9 Q. Now, were there any particular Sergeant and Lundy speci-
 10 fications that were not complied with by U.S. Testing?

11 A. Yes sir.

12 Q. Would you be specific?

13 A. The testing of concrete is done in the field as it is
 14 made, and later cylinders are molded for the purpose
 15 of compression testing. These are tested at intervals
 16 set forth by Sergeant and Lundy. Sergeant and Lundy
 17 has written into the specifications that certain A.S.T.M.
 18 codes will be followed to the letter; they're very
 19 specific. They give what paragraph, what page, et
 20 cetera. The cylinders for one reason or another are
 21 not molded perfectly, and later need to be capped. The
 22 cap has a maximum thickness and - set forth in the
 23 A.S.T.M. - and it is impossible for certain cylinders
 24 to be tested within this specification because they
 25 can't be sawed. A cylinder saw is to saw the cylinder
 26 off at right angles, making it possible to cap either
 27 end of the cylinder so that it can be fed into the
 28 machine and tested properly. To my knowledge, at this

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2 since there is no such thing there; and when I did work
3 there, there was no saw and no correction factor being
4 used.

5 Q. If there is no saw available, does that affect the
6 quality of the inspection significantly?

7 A. The test cannot be considered completely accurate and
8 conforming with the specification if the cap is thick-
9 er than is specified, and this sometimes results in a
10 certain kind of break, a local break, at times. It's
11 specified on this document here, number 6. By the cap
12 being too thick, more pressure is exerted on one side
13 than the other, and you get inconclusive tests.

14 Q. What is -- what does PSI mean -- Strength PSI; what
15 does that mean?

16 A. Well, your machine gives you load and pounds; in other
17 words, it tells you directly how many pounds are being
18 exerted upon a specimen. This is recorded and then
19 a computation is used to find the area that's being --
20 that's in contact with the machine. This is then
21 computed to pounds per square inch.

22 Q. Now with respect to pounds per square inch, are you
23 aware of any instances in which the United States
24 Testing made determinations that the concrete in or
25 around the containment structure, or other category 1
26 or category 2 structures, was not up to par?

27 A. I can think of several. I'm looking at a document
28 right now that has a failing 90-day break; that was

changed. In the remarks at the bottom of the page, it was said that the cube was damaged while it was being made. The person that wrote this out was not in the employ of U.S. Testing at the time it was made, so there's really no way that he could assure that.

Q. Do you speak with personal knowledge of this situation?

A. Yes sir; I was there.

Q. Did you have any complicity in the situation, yourself?

A. I made aware the situation to the project supervisor, and also my direct superior who had changed the original data on the report. They said that it was - that whenever they had breaks that far apart that it was a rule of thumb to knock up the bottom by 10 percent, and if that wouldn't do it then they would say that the cylinder or the cube was damaged while it was being made or damaged thereafter.

Q. To the best of your knowledge this particular one item that says 4325 pounds per square inch, after 91 days from the first pour; has that concrete been changed on that particular area?

A. To my knowledge, no structure has been removed because of failing tests. Many structures are found later to have voids. They're now patched with gunnite; at one time they were patched with grout.

Q. Now the particular location we're talking about at this time is what?

A. The placement location was AM-346-7. It would indicate

1
2 that it was a wall at that particular elevation, prob-
3 ably used early in the year as a foundation for the
4 concrete to be poured upon top of the top of it. It's
5 used almost like a footer.

6 Q. Now, in which building on the site would this 11-3-6-7
7 be present?

8 A. It's a code that is used by Newberg. I'm not exactly
9 sure. It could possibly be the Auxiliary Building, it
10 could be any number of structures within a certain
11 area. This is just an elevation.

12 Q. Are you aware of any other instances of possible mis-
13 statements on quality control reports of United States
14 Testing?

15 A. Yes sir. I was present one day when a relative density
16 sample was misplaced or contaminated with other materials.
17 At the time we had just moved into the on-site labora-
18 tory. The relative density table had not been secured
19 to the floor. It vibrates quite rapidly and would
20 walk about if not anchored. Later, when it was anchored,
21 the sample had been misplaced or contaminated, and the
22 site supervisor suggested to a technician to go out
23 in the approximate area that the original sample had
24 been taken from and obtain another sample. The tech-
25 nician who was requested to do this had not obtained
26 the first sample, thereby making it next to impossible
27 to get a sample from the same area.

28 Q. Now, you have not been in the employ of U.S. Testing

1
2 for five (5) months. You are still working in and
3 around concrete, is that correct?

4 A. Yes sir.

5 Q. And you feel that the statements you have made today
6 are true and correct?

7 A. Yes sir.

8 Q. And of your own personal knowledge?

9 A. Yes, they are.

10 Q. Is there anything else you would like to say?

11 A. I'd like to say that on the whole U.S. Testing has a
12 very, very poor record in its attitudes; the technicians
13 are underpaid; they are required to do work which is
14 not within the scope of their responsibility.

15 Q. Can you be more specific?

16 A. I'd say mostly by people having a position of respon-
17 sibility who are there because that they get along
18 with their superiors, as opposed to being able to do
19 the quality work that is demanded in the specifications;
20 many, many people have been passed over for promotions.
21 They have had a very high matriculation rate of tech-
22 nicians, which leaves them with the constant problem
23 of having to train personnel to do the work. Many
24 times the personnel performing the tests have no prior
25 nuclear experience or prior testing experience, and
26 their data is really the only data taken. Public
27 Service of Indiana, to my knowledge, does very little
28 testing on their own, and it's all left up to the

independent laboratory.

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Q. One other question. Are you aware that the concrete core samples are to be kept in a specific location by United States Testing on the site?

A. To my knowledge, U. S. Testing has no core samples.

Q. Are you aware that core samples exist and are kept under someone's supervision at the Marble Hill site?

A. At the time I worked there I never saw a core sample. To my knowledge, there was no one working there that was documented in that procedure.

MR. DARRHO: No further questions.

CONCLUSION OF STATEMENT

C E R T I F I C A T E

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3 OFFICE OF NOTARIAL PUBLICS }
4 COUNTY OF JEFFERSON } ss:

5 I, Patricia S. Terline, do hereby certify that I am a
6 Notary Public in and for the County of Jefferson, State of In-
7 diana, duly authorized and qualified to administer oaths; That
8 the foregoing sworn statement of Mr. James E. Henry, Jr. was
9 taken by me in shorthand and on a tape recorder on June 21,
10 1979, at the law offices of Thomas M. Dattilo, 344 East Main
11 Street, Madison, Indiana; That this statement has been reduced
12 to typewriting by me and contains a complete and accurate trans-
13 cript of the testimony given by the witness; That the witness,
14 James E. Henry, was duly sworn by the reporter to tell the truth,
15 the whole truth and nothing but the truth prior to the taking
16 of said statement; That present at the taking of this statement
17 was Thomas M. Dattilo, Attorney for Save The Valley, Inc., Mr.
18 James E. Henry, the witness, and this reporter.

19 I do further certify that I am a disinterested party
20 in this matter.

21 WITNESS my hand and notarial seal this 21st day of
22 June, 1979.

23
24
25 Patricia S. Terline
26 Patricia S. Terline, Notary Public
27 Jefferson County, State of Indiana.

28 My commission expires May 30, 1980.

HENRY: These are all documents of U.S. Testing. They all indicate that the actual test specimens on in-place concrete in many, many areas-- category one areas and category two areas--all of these here--they're not all of them; as many as I could get a hold of--~~show that the concrete was not properly cured.~~ actual test specimens improperly cured,

DECKARD: Would it take an engineer or someone of your training to understand these?

HENRY: All the specification states is that concrete specimens will be ~~cured~~ until they are tested in a temperature range 60 to 80 degrees. Temperatures are recorded right here, and as you can see there isn't one in there that's between 60 and 80 degrees. This is 42 degrees, 48 degrees--near-freezing. ~~Some of them are well over a hundred.~~

DECKARD: ...at least I know that much.

HENRY: Gives the locations, the type of mix, the whole thing. I have a document which shows that Public Service of Indiana is well aware of this problem, and apparently unable to have anything done about it.

DECKARD: Is that document included in here?

HENRY: No, sir, I have it with me.

DECKARD: Now all these papers that you have given me here have to do solely with curing temperatures; is that right?

HENRY: There are actual test failures included in here.

DECKARD: Would it be possible for me to run through these and indicate those portions where the parts of each report which indicate a failure to meet specifications, talk about the curing which should be between 60 and 80 degrees...

HENRY: ...yes, sir. It is clearly stated.

JAN 24 1980

DECKARD: Let's take this first paper, for example. Is the curing the only problem on this?

HENRY: Well, it is incomplete right now. You can see this is the kind of concrete--it is 5500--it is required to have the strength of 5500 pounds per square inch at 91 days. This is partially completed, I got it out of a garbage can. That is why it is somewhat wrinkled up. The copy was made of it here, which is complete. These all here are ...

DECKARD: These meet specifications, required strength, pounds per square inch for 91 days?

HENRY: Yes, sir. Indicates the right dates, seven days, 28 days, 91 days. As you can see, these are above; there are test failures included in this collection right here.

DECKARD: Which one of these would be test failures?

HENRY: Well. Say for instance if these two figures here, were here instead... In other words, if any data is found to be less than 5500 (pounds) at 91 days...

DECKARD: Are all of these 91 days?

HENRY: No, sir. This is the identification set--this is the date they were made, these were dates they were supposed to be broken. These two are seven days; these two at 28 days; and these two at 91 days.

DECKARD: Now, at 91 days, it appears that they do meet specifications?

HENRY: Yes, sir.

DECKARD: Wouldn't that indicate then, that regardless of the curing temperatures, that they would meet specs at the end of 91 days?

HENRY: Well, sir, if curing was not important and not required, and not serious, (and they go to great lengths to secure these specimens), and to secure them properly, and cured improperly, which indicates a mis-handling of the specimens, and an inability of Public Service of Indiana to meet the specifications on that particular point.

DATILLO: Jim, let me interject this with the Congressman. You had a
with the failure available right here

HENRY: These are in order. He has No. 521, it is a specimen ID 521, if he would like me to find it, I can. I have one that is even stamped. As you can see, these are the technicians that tested;--someone tested the

seven day break; someone else tested the 28 day breaks. Neither one of these individuals are working there at this time, and at the time they were working there, I believe they were advised that certain test failures could possibly come back to them, and show that they had run the tests incorrectly, or that they were incorrectly trained.

DECKARD: Do you know who these people are?

HENRY: Yes, sir.

DECKARD: Are these all copies that I can have?

HENRY: They are all xeroxed copies of actual control documents.

DECKARD: On the back of specimen ID 521, I'm going to write down the actual names of the testers and initials right now.

HENRY: Yes, sir.

DECKARD: Who is GH?

HENRY: Gary Harrel.

DECKARD: Is he still with U.S. Testing?

HENRY: No sir he is not.

DECKARD: Why not?

HENRY: I believe he left for a better position with a better company.

DECKARD: Who is DHT?

HENRY: This is Daryl Hargrave-Thomas. All he did was check the computations.

DECKARD: Would he be in a position to know whether this report did not meet specifications?

HENRY: I believe he could...if he had looked at it, he could see that it did have a failure at the 91 day break.

DECKARD: What is his name again?

HENRY: Daryl Hargrave-Thomas.

DECKARD: Is he still with U.S. Testing?

HENRY: Yes, he is.

DECKARD: These other initials...

HENRY: That is Steve Cunningham. He is no longer with the company, either. He quit as a direct result of conditions in the compression laboratory.

DATILLO: Do you have personal knowledge of that?

HENRY: I was there when he quit.

DECKARD: He quit as a result of what?

HENRY: Conditions in the lab.

DECKARD: The testing lab? What kind of conditions?

HENRY: Yes, sir. At the time all the testing done on site, was being done out of a semi-trailer. There was no laboratory at that time for the compression. The machine set on a table and was pumped by hand because the electric motor did not work.

DECKARD: Why was the use of the semi-trailer unsatisfactory to him? Was it from the standpoint of his own personal working conditions? Or because of... did he quit as a matter of principle because of those types of conditions? Or was it just unsatisfactory...

HENRY: I hesitate to offer an opinion on that, but he did quit because of the unsafe and irregular conditions...

DECKARD: Where does he live now?

HENRY: I really don't know.

DECKARD: Was he from...

HENRY: He was from New Washington, Indiana. His brother still works for the company.

DECKARD: Then he might have some problems. New Washington, Indiana?

HENRY: Yes, sir.

DECKARD: Do you have any idea where Gary Harrel is?

HENRY: I think he is in Paducah; I'm really not sure.

DECKARD: How about Daryl Hargrave-Thomas?

HENRY: He still works there, and he lives in Hanover, Indiana.

DECKARD: Does he commute or what. Is Hanover close?

HENRY: Very close.

DECKARD: These initials...

HENRY: The last initials are Daryl Lanham. That is DHT and then DL.

DECKARD: Two people checked the 28 days. What is the last name?

HENRY: Daryl Lanham. He is presently site supervisor.

DECKARD: Is he still with them.

HENRY: Yes. U.S. Testing. He is a level III.

DECKARD: Where does he live?

HENRY: I think Jeffersonville.

DECKARD: Now tell me again specifically on specimen ID 521 what the violation is?

HENRY: Improper curing and also...

DECKARD: Improper curing temperatures?

HENRY: And also, the results of this break did not meet the specifications.

DECKARD: This shows that at 91 days, 6300--but the required strength is only 5500. Doesn't that show that they are actually exceeding specs, instead...

HENRY: The specification requires that both cylinders pass the 91 day inspection.

DECKARD: Well, I don't understand this document, then. You say both cylinders...

HENRY: They make six cylinders--two are broken at one date, two at 28 days, and two more at 91 days.

DATILLO: They were made the first day; they are not broken until the 91st day.

HENRY: They are cured until that time.

DECKARD: ~~So this cylinder is below specs?~~

HENRY: Yes, sir.

DECKARD: These are all xerox copies.

HENRY: Yes, they are all xerox copies. I made several copies of that because it did stand out. ~~This does not appear that way in the permanent log.~~ In the remarks area here, another individual...

DECKARD: ...now wait a minute. On specimen ID 521, what does not appear?

HENRY: ~~This document has been changed. In other words it was submitted in another form than you see it right now.~~

DECKARD: What specifically has been changed on the other document?

HENRY: This particular cylinder was marked...

DECKARD: ... the second cylinder which is 4325 pounds?

HENRY: Right, it was marked as being improperly molded. This note was made by...at the time, the level II over concrete, who was not working at the time it was made, and he stated to me later ~~that whenever you have a spread like this that generally, the bottom one is marked up 10 percent in order to appear that the test was run correctly.~~

DECKARD: Would both U.S. Testing and Public Service and Newburgh have copies of the same document?

HENRY: They are on their permanent records. Yes, sir.

DECKARD: All three companies would have copies of this document.

HENRY: Yes, sir. I would think so.

DECKARD: Would the document have been altered in all three cases?

HENRY: I would think so.

DECKARD: In other words it was altered by U.S. Testing before it was ever submitted.

HENRY: Yes, sir.

DECKARD: Indiana Public Service, NRC, Newburgh and so on.

DATILLO: Before you pass on, there is a point regarding Daryl Lanham that I think would be relevant. What did you say with regard to no NRC reports of Daryl Lanham?

HENRY: Mr. Lanham is presently site supervisor. At the time I started working there he was a level II Lab Technician; he was just doing testing like I was. At the time, we were not moved into the on-site laboratory. All this testing and compression were being done in a trailer. The cylinders were being cured in a trailer; they were being broken there.

DECKARD: The cylinders were being cured in the trailer. What type of cylinders are these? What size?

HENRY: Six by twelve.

DECKARD: Core samples of the containment vessel itself?

HENRY: They test concrete no matter where it goes.

DATILLO: Instead of adding the pour, or instead of pouring into the forms, they will pour some of that concrete into the wheelbarrow where there are samples.

HENRY: These are later cured and kept until the date that there has been...

DECKARD: It is presumed that the strength of the test sample is representative of the strength of the substance.

HENRY: Yes, sir.

DECKARD: Now we are continuing to talk about the containment vessels, aren't we? Concrete in containment vessels?

HENRY: No sir. This placement location indicates that it was not in a containment area.

DECKARD: What is ICS?

HENRY: I think it is a column.

DATILLO: All of these different numbers refer to a specific location; not all of them are containment. However, he has a statement regarding the footing.

DECKARD: On specimen ID 521, Source Main Batch Plant--in other words this is a sampling of the concrete in the Main Batch Plant.

HENRY: No, Sir. The concrete is produced on site by Newburg at the Main Batch Plant, and then transported from the Batch Plant to the actual core location by truck, and then later to the specific areas by feeders, buckets, or direct...

DECKARD: On specimen ID 521, the concrete that is being tested or 511, is concrete that was poured where? At what location in the plant?

HENRY: This location.

DECKARD: AWS46-7.

HENRY: Yes sir.

DECKARD: Does the "W" mean anything to you?

HENRY: The "W" refers to a wall, and the 346-7 is an elevation at other locations on their map.

DECKARD: So we really can't be certain in all likelihood that this would be one of the containment vessels. Is that right?

HENRY: No sir. I don't believe...

DECKARD: ... not necessarily.

HENRY: Well if it was a containment area, it would be specified there as a containment area.

DECKARD: Do you have any containment area documents in here? As far as testing documents?

HENRY: Not to my knowledge.

HENRY: ~~But there are test failures for certain columns that are used to~~ columns used to vertical expense of concrete used to support a flooring ~~above that components will be resting upon generating components.~~

DATILLO: You made mention earlier tonight that certain areas of containment where there was defective concrete. Can you tell the Congressman where that is and what you know about it?

HENRY: Okay. This is a rough sketch of the plant. Unit One here, Unit Two here.

DECKARD: Containment vessels?

HENRY: Containment merely means that it is poured within the confines of this area. From there down. In one specific location right here, there was a pour one day when it rained very heavily; the concrete was transported

from the truck to the location by a series of belts, which are connected to the elements. I can think of one area which was in the very center where these are hollow-circulatory water cones from the center up to coil. There is one non-performance that I know of where out-of-spec concrete was placed here with the ...

DECKARD: ... in Containment Unit II.

HENRY: Yes, sir. ...with the full knowledge of Newburgh.

DECKARD: Who would have been the supervisor who would have been aware of ...

HENRY: John Ball.

DECKARD: Tell me everyone you know of who would have been aware of that problem?

HENRY: Well, everyone who was present during that, and anyone who reviews the actual reports, and processed reports.

DECKARD: Who was the supervisor when this took place.

HENRY: For which company?

DECKARD: For any of the companies--Newburgh, Public Service, U.S. Testing.

HENRY: Daryl Lanham was at the time acting site supervisor.

DECKARD: Would Daryl Lanham have been aware of that?

HENRY: Yes, sir. He would have had to review the paperwork.

DECKARD: Do you happen to know who the site supervisor would have been for Public Service?

HENRY: At the time, I believe it was ROBERT Peterson.

DATILLO: Did you advise Robert Peterson of the feedback?

HENRY: Not personally, but it was noted on the actual in-process report...

DECKARD: ... do you have a copy of that?

DATILLO: What did you do with that?

HENRY: I submitted it.

DATILLO: To whom?

HENRY: To my company.

DATILLO: Did you submit any copies to Robert Peterson?

HENRY: No, sir, but he was made aware of it.

DECKARD: But he was made aware of it. By whom?

HENRY: By myself. I have here... PSI had at one time monthly meetings with technicians at U.S.-Testing over problems that were happening in the field and it got to be so serious that we called a special meeting and this

is a reply to that meeting which was August 7, 1978. You can see the title says, "Proposed Actions to be Taken by PSI." The very first one if PSI QC Inspectors will stay with the category I concrete placement until they are completed.

DECKARD: What does that mean?

HENRY: That means that they were going to try PSI--PSI was going to see if they could get more people--more PSI engineers to actually be there, present during category I pours which would be in this area.

DATILLO: Tell us the difference between category I and category II. It sounds like something

HENRY: Category I--Categories are merely safety categories. They are really just geographical locations. This is a rough outlay of the plant-- I and II. This is what they call the "L" Wall.

DECKARD: What does that mean?

HENRY: It is just a wall that separates this area from this area.

DECKARD: Now, in category I, the containment vessels themselves are located?

HENRY: They are not category I. They are referred to as containment areas.

DATILLO: But they would be the same as category I wouldn't they?

HENRY: Right. Your specification goes from different levels, from site concrete to category II, from category I to ...

DECKARD: But what is this in the middle? Is that the auxiliary building or ...

HENRY: No, sir. That is the fuel handling section.

DATILLO: Which is as important as containment regarding safety. So category I and II both have to have the same prescribed methods for proper concrete curing.

DECKARD: Now what are the types of things that are contained in category II?

HENRY: Turbines, turbine slabs, the auxiliary buildings...

DECKARD: In other words, Category II is an area where safety factor, or at least nuclear contamination, is not a part of the safety factor. In other words, if something goes wrong in that area labeled Category II, you're not necessarily going to get emissions of radiation. We're concerned about Category I, right?

DATILLO: I don't agree. I think we're concerned with both Category I and II. What happens is that...as I correct...

DECKARD: Does any type of radioactive material, whether it's water or whatever it might be...

HENRY: Sir, I'm not an engineer--and I don't know the exact workings of the whole plant...

DECKARD: Well you see, if no radioactive material ever reaches the Category II area, as part of the process...

DATILLO: How about fuel? Take the fuel handling building itself.

HENRY: Storage pools.

DATILLO: It handles the fuel which is the radioactivity, so it's got to be, there has to be ...

DECKARD: So there are radioactive elements contained in both Categories I and II.

HENRY: I would say definitely in Category I.

DATILLO: Where do they unload the fuel?

HENRY: Well, the railroad comes in, crosses Highway 62 up here, comes on site. Here you have what they call the A-Cock unloading facility--it's a large series of platforms out there to unload very heavy... They refer to it as the A-Cock. I think that's the name on the structural steel. They unload components here, to my understanding. The fuel will then go to this area and through what they call fuel handling tunnels which are located on either side of the fuel handling section, below it.

DATILLO: I have the statements from the NRC Division 3 as to which building..

DECKARD: Okay. That's probably not as important right now. You know, what I really need... there's so much in these proposed actions sheets, there are so many initials and other kinds of technical things, what I really need is on each one an explanation of, first, what it means, and then two, the implications--the safety implications...

DATILLO: I have a response for what you need, the information. I'll see if I can get ahold of Dr. Cassaro.

DECKARD: Dr. who?

DATILLO: Cassaro. He's an expert on concrete.

DECKARD: Dr. Cassaro. Where's he located?

DATILLO: At U of L.

DECKARD: University of Louisville?

DATILLO: Yes. He's a professor over there.

DECKARD: Is he aware of these problems?

DATILLO: Not these specific ones...

DECKARD: Has he done any work for U.S. Testing, PSI or Newburgh?

DATILLO: No. He's an independent observer who has been requested by me to inspect the honeycombs at Marble Hill and he's the one who had turned down by PSI the list of...

DECKARD: PSI turned down Dr. Cassaro?

DATILLO: They refused to let him on the site. They had let him on the site, but they wouldn't let him on the site.

DECKARD: Who did you ask for permission for him to come on?

DATILLO: I asked the NRC first--they said they didn't have the authority; since PSI owned the land PSI would have to give the permission. I was denied permission to bring him independent onto the site.

DECKARD: Would you be willing to put in writing that type of thing? Because all we're relying on is a little tape recorder which may not even be picking you up.

DATILLO: Why don't you turn that off for a second. Just one second.

(Recorder off)

DECKARD: The time may come when it won't be confidential because if any action is going to be taken on any of this, obviously, it will eventually have to be made public.

DATILLO: OK. He has a request regarding confidentiality of those names, that he does not want to come out.

DECKARD: Confidentiality will be maintained throughout this entire time, until such time as I'm convinced in my own mind that there is enough documented evidence available to indicate falsifications of records, to indicate serious safety violations which carry implications for the possibility of emissions of radiation once that plant is in operation. Once I do accumulate such information, documented information, sufficient to prove what I've just said, then at that point I intend to go to the Chairman of the Energy Subcommittee that I'm a member of, for a Congressional hearing, and possible

subpoena power to subpoena some proprietary records of PSI, Newburg and U.S. Testing. At that point, everybody comes out of the closet. That's what it amounts to.

DATILLO: I've already asked to subpoena those same records but the NRC is sitting on their duffs.

DECKARD: Well, I think they'll continue to, too. I don't know if this will ever reach that far or not. I hope it does. And I'm looking for the information that'll make it possible to reach that point. But I can't go in and ask for a Congressional hearing and subpoena power without substantial, documented evidence. (Datillo receives telephone call here) I will go ahead and shut it off for awhile.

(Recorder off)

DECKARD: Because, as I say, I'm not going to do anything public on this until I'm certain that--because you see my neck will be on the line too when you go public. And I'm not going to stick my neck out until I'm sure I know what I'm talking about.

DATILLO: Let me ask you if you would stick your neck out on another area when you knew what you were talking about, without any great problems. Would you be willing to go public today and ask that Save the Valley be allowed to have an independent engineer look at the honeycombs on the site? Would you have problems...

DECKARD: Let me ask first, who did you make the request to for you and Dr. Cassaro with PSI?

DATILLO: To Jim Pope, the attorney at Plainfield for Public Service.

DECKARD: Jim Pope, the attorney for PSI at Plainfield, said that you could enter the site today with the NRC engineers.

DATILLO: Also with Mr. Cutshall.

DECKARD: Now. Why did he refuse, what reason did he give for refusing to let Dr. Cassaro come with you?

DATILLO: That it is not their general policy to allow visitors on the site.

DECKARD: I don't know how much of that we missed. So the attorney Pope did give you permission to go onto Marble Hill today with the NRC inspectors. He refused permission for Dr. Cassaro for what reason?

DATILLO: He stated that it was not their normal policy to allow visitors on the site; that Save the Valley already had one "potential" expert as they

called Mr. Cutchall, who would be going on the site, that there was no need for an engineer to go on it. I suggested that it's normal general rules of discovery that you be allowed to bring on your own experts. They said it was company policy, that they did not want to set a precedent in this particular incident and if they allowed me they would have to allow others. But I would hardly say they allowed newsmen to go on at all times that I would think that they would have less proprietary interest than a disinterested engineer who has already checked a particular defect.

DECKARD: Well, one thing I have been considering as we have been talking (and I want to go through the rest of this information before I make up my mind on this), is perhaps trying to go site today myself with Dr. Cassaro.

DATILLO: Well, would you do me a favor?

DECKARD: OK

DATILLO: With all due respect, you wouldn't object if I accompanied you?

DECKARD: No, I have no objection to that. They're already given permission for you to go on today, haven't they?

DATILLO: Right, but you may have the problem if you go on site. You know that you're going to have to sign don't you?

DECKARD: I'll sign it--the indemnification thing?

DATILLO: Yes.

DECKARD: I'll sign it, and if anything happens to me, PSI, I believe, will have a few problems on their hands. Simply because of the appearance of it. I don't believe PSI is that dumb to intentionally cause any kind of injury, serious injury, or even worse, to a United States Congressman in order to, the very appearance of it--they wouldn't risk that. I'll sign any indemnification. I've signed it to visit other plants.

DATILLO: No, don't mind if I hang onto your arm, do you (laugh).

DECKARD: No... Well, I don't know -- we'll make that determination later--we're waiting tape--this is my last tape. ~~xxxx~~ We'll have to go through this Proposed Action thing-- it's something that's going to have to be gone through at a different time, in order for me to be able to understand just exactly what it means... We can keep Mr. Datillo as a person who will be fully aware of any conversations you and I might have by telephone and at any meeting we might have personally Mr. Datillo would be present if possible. If it's possible for all of us to meet at the same time. You understand what I'm trying to say.

HENRY: Yes.

DECKARD: I don't intend to try to take this whole thing away from you...

HENRY: I understand. We couldn't work together--you and I wouldn't be this far.

DECKARD: ...What's your full name?

HENRY: James E. Henry, Jr.

DECKARD: Where do you live now?

HENRY: Lexington, Indiana.

DECKARD: What's the address there?

HENRY: I live there but my mail is sent to Madison. I have a post office box in Madison. It's Box 725, Madison.

DECKARD: Could I ask... is there any reason?

HENRY: Well, I just moved out there and I haven't changed my address yet. I just never got from Madison out there to Lexington.

DECKARD: What is your address in Lexington?

HENRY: State road 356. I know what rural route that is.

DECKARD: Do you have a telephone there?

HENRY: No sir, I don't.

DECKARD: How would one get in touch with you if needed to get in touch with you in a hurry?

HENRY: Through Mr. Datillo, you'd probably be able to contact me.

DECKARD: How could Mr. Daville be able to get in touch with you?

HENRY: He knows where I live.

(Daville in background described location of house)

DECKARD: Are you working out of your house?

HENRY: No.

DECKARD: What are you ...

HENRY: I'm just self-employed right now. I don't work for any specific ...

DECKARD: ...In other words, you work out of your house.

HENRY: Right.

DECKARD: Do you plan to have a phone put in any time soon?

HENRY: No sir.

DAVILLE: He has a couple of other points -- major points -- you should at least have a small run down.

DECKARD: Do you know what points he's talking about?

HENRY: Yes sir. I've made some notes here.

DECKARD: OK. Why don't we go ahead and talk about those then.

HENRY: Well, this is really not a very good place to discuss this because I've got a lot of documents and there's really no place to put ...

DECKARD: You want to go back to my room?

HENRY: That would be better.

(tape turned off)

DECKARD: We have some different documents out here now? Where do you want to start?

HENRY: We're looking for an actual test failure. That's a test failure for a vertical expanse right there...

DECKARD: ...This is a vertical expanse?

HENRY: A column. It's a support column.

DECKARD: This is one of the things/where ^{probably} they've already been cited. The NRC did cite...

HENRY: 109 nonconformances in Category I.

DECKARD: There were only 3 specific violations that the NRC cited. One was a honeycomb, one was this expansion thing -- I've got this written down somewhere--

HENRY: ...tension...

DECKARD: ...Yes, the tension thing. And using noncertified workers. Of course their response to that was that, well, we didn't use those people on this particular work until such time as they were certified. Well, who knows whether in fact they did. Now this test failure, I would suspect--we don't know for sure--may be one of those that the NRC cited in its report. If it isn't, this of course would be significant. In your opinion, this is, this particular document I'm looking at that shows the test failure, its placement location AC 3-6 25 to

49 AC346:3-37 date place 2/14/78. What's the document number?

HENRY: There's a report number on it, and the specimen identification ...

DECKARD: From what? 7000? Is that it? It's either 7000 or 7004.

HENRY: I recall a lot of 7004.

DECKARD: Box number 13, whatever that means.

HENRY: That's a cure box.

DECKARD: Date, place 7/14/75. This says date tested. On-date molded 7/14/75, date tested -- that's at the end of 90 days they failed. One cylinder is 5170, that should be 5175, the other is 3080, and it should be 5510. Let's see what else we've got here.

HENRY: I just wrote some points down here. I don't really know what interest you have in the ...

DECKARD: Go ahead and give them to me.

HENRY: First of all U.S. Testing had an attitude in their testing frequency. They are required to run certain specific quality control tests for every 50 yards placed. An air test, which will give you an idea of the amount of air entrained in the concrete, temperature and also a slump. Also there are frequencies depending on the size of the pour and the Category and the area and specific compression tests are made. We were instructed by U.S. Testing that it would be better to wait for a good truck. If you looked at a truck -- yes, these are random tests, you can run them anytime within the 50 yards. We were instructed to wait until we got a good load of concrete.

DECKARD: How do you know what is a good load of concrete?

HENRY: After a while it's possible to visually inspect concrete for certain things, properties. After a while, when you are experienced with concrete you can look and visually see that certain properties are out -- if it's obviously too spiky or too dry.

DECKARD: When you were given these instructions were they given?

HENRY: Yes sir.

DECKARD: Who gave you the instructions?

HENRY: The second site supervisor, Mr. Don Hudler.

DECKARD: Don Hudler? He's an employee of U.S. Testing?

HENRY: He was site supervisor. He is no longer with the company.

DECKARD: Why not?

HENRY: He left because of problems with himself and PSI.

DECKARD: Voluntarily or involuntarily?

HENRY: Voluntarily.

DECKARD: Do you know what his problems were with PSI?

HENRY: Mainly, I think, problems with personalities, and also differences in procedures. Mr. Hudler thought that certain tests were relevant and that PSI was agitating the workers -- surprise surveillances and badgering technicians to keep them guessing about whether they

HENRY cont.: were doing good work or not.

DECKARD: Is his name Don Hudler?

HENRY: Yes.

DECKARD: Where does he live?

HENRY: I have no idea. The last I heard about Don Hudler was I think he went to work for a calibration company in Texas. But like I say, this is just hearsay. I have no personal knowledge of where he is at this time.

DECKARD: Calibration tester in Texas? Were you present when these instructions were given?

HENRY: Yes sir. They were given to me.

DECKARD: And Don Hudler is the one who gave you these instructions?

HENRY: Yes sir.

DECKARD: Did he indicate to you who told him to tell you that?

HENRY: No sir. The situation arose because -- it was when I was just hired, maybe a month or so after I was out there. I was working in field concrete and actually performing the tests on the concrete as it was being poured. AND I HAD RUN A FREQUENCY, A TESTING FREQUENCY, WITH CYLINDERS ON A LOAD THAT HAD A VERY HIGH SLUMP.

DECKARD: What's a slump?

HENRY: A slump is a test in which the workability and consistency of the concrete is determined.

DECKARD: Were there any other instructions that Mr. Hudler or anyone else gave you in regard to using procedures that were not standard procedures? In other words, procedures which would not lead to the highest quality result?

HENRY: yes sir.

DECKARD: Can you give me these instances? Do you have notes on those?

HENRY: The main thing was that he specified, he explained to me why -- at the time I didn't really realize what the problem was and he explained to me that if you did take a test frequency on concrete and it did fail, then the theoretical procedure would be to remove the structure, and he said that by taking a test frequency, even though it was random, on a certain area that had these failing properties that later it would show up in the compression test and it wouldn't be giving them a fair reading.

DECKARD: Did you ever personally conduct a test in which the concrete failed, but yet no action was taken to rectify that failure?

HENRY: Many, many times. As I stated to Mr. Datillo, U.S. Testing has no objection power on site. In other words, they're actually doing the tests, determining the properties of the concrete, yet there's nothing that they can do to stop the test. They have to rely upon Newburg to keep concrete from being placed.

DECKARD: To the best of your knowledge, did U.S. Testing indicate these failures to PSIs and Newburg?

HENRY: I have no way of knowing. My paperwork was turned in and reviewed. What happened to it after that I had no knowledge except that several times I went back to look over existing logs to find information from a document that might have been misplaced. I noticed that my name had been misspelled on one of the documents, which would indicate to me that it wasn't my work. Also, every one of the reports ...

DECKARD: ...In other words, a report which you had initially made and which indicated a failure later became a report indicating that it had passed? Is that what you're saying?

HENRY: Yes sir.

DECKARD: And you're required to sign or initial every report you make?

HENRY: Yes sir.

DECKARD: Which one -- sign or initial?

HENRY: It depends upon which one it is. For concrete, for testing, it's initials--your original paperwork is signed.

DECKARD: And you have personally conducted tests which indicated failures. You later saw documents regarding those same tests which indicated they had passed, and the signature on the document was ostensibly yours but it was misspelled, your name was misspelled.

HENRY: On one of the early ones, yes.

DECKARD: Do you have any way of recalling specifically what those documents may have been? So in other words, if we would get into a discovery process we would know where to look to try to compare documents?

HENRY: No sir. As you can see on every piece of paperwork I did this mark appears in the top left hand corner. It's just to start the ink pen. ~~Whenever I would find papers I had~~ ~~covered in my reports would not be there.~~

DECKARD: Do you have any copies of documents which tests which were made by you and failed, which show failures, do you have any of those in your possession?

HENRY: no sir. At the time I wasn't really aware fully of what was going on.

DECKARD: This failure we mentioned a moment ago, this report number 7004 if that's what it is. It says QC representative notified Tom Keek, Bob Peterson. Time and date of notification 10/10/78. Reporting person R. Bruner. Is R. Bruner still employed by U.S. Testing?

HENRY: Yes sir.

DECKARD: To your knowledge, has Mr. Bruner been given the same instructions you said that you had been given that only the most favorable batches of concrete were to be tested?

HENRY: I couldn't offer an opinion on that. I don't know ...

DECKARD: ...Do you know Mr. Bruner?

HENRY: Yes, I do.

DECKARD: Have you ever talked to Mr. Bruner about these abnormalities in testing?

HENRY: Yes sir.

DECKARD: Did he express any opinion to you about them?

HENRY: Disfavor.

DECKARD: Do you think it's fair to say Mr. Bruner believes, of course he himself would have to personally give this, but in your opinion is it fair to say you believe he thinks that construction at Marble Hill is not being performed by the standards that it should meet. And that serious safety violations are involved?

HENRY: I think that Mr. Bruner was present many times in the field when poor quality concrete was put into the structures.

DECKARD: He was aware of it?

HENRY: I think he was.

DECKARD: Did he ever say anything about it?

HENRY: Everyone out there, to my knowledge, has brought these things, at one time or another, to the attention of the supervisor.

DECKARD: ^(either) Were you ever told, or do you know of anyone else ever told, by FBI, Washington, or U.S. Testing officials to change documents -- falsify documents?

HENRY: Yes sir.

DECKARD: Have you been told personally to falsify documents?

HENRY: It was suggested to me early on, and when it was apparent that I had no intention of doing that, that if it was easy to find someone else to do it, or they would do it themselves.

DECKARD: Who told you that?

HENRY: Mr. Daryl Larkin. He suggested at one time that I falsify a temperature log -- this is it. Like I said, at one time before our lab was completed on site, we worked out of a hoistway.

DECKARD: I'm going to mark on the back of this document you've just given me -- temperature log ...

HENRY: ...for curing room...

DECKARD: ...for curing room. Did you prepare this document yourself?

HENRY: No sir.

DECKARD: Who did, do you know?

HENRY: It's a xerox. It's posted. Every day, every working day...

DECKARD: There are some initials: AJS. Do you know who that is?

HENRY: Yes I do. It's the project manager for U.S. Testing Arthur J. Spertor.

DECKARD: What's his title?

HENRY: He is -- at one time was project manager of Marble Hill. He's presently at Black Fox, out in Oxley, as a site supervisor there.

DECKARD: Black Fox -- that's under construction now, too?

HENRY: Yes.

DECKARD: Well still with U.S. Testing?

HENRY: Yes.

DECKARD: On this temperature log for the curing room, you were specifically told to falsify ...

HENRY: ...As you can see, you have a running tally of temperatures that are being given, and then here you have a few skips, then there's a long span. The reason being that compression cylinders, the 91 day break cylinders, were temporarily being stored in the basement of this house in a makeshift cure room, because we didn't have a facility at that time. The pump that was used to supply the water for the mixed system lost its prime and for several days was inoperative. As a result the cylinders became bone-dry, the temperature was very, very high, and later we were instructed to wet down the cylinders, but that, in the back of the trucks on a layer of sand and transport them to the on-site laboratory. No mention, I don't believe, of this condition was made by the supervisor to the U.S.

DECKARD: Now, this document we're looking at now, the temperature log for the curing room, is this the document which has -- is this the actual falsified document? Or is this the document prior to falsification? ^{WCH/CH/LS} This document I found in the basement of the house at this time there is a permanent log for the cure room, and I believe very strongly that it ~~does not appear as it does there.~~

DECKARD: What makes you believe that?

HENRY: For one thing, I was approached by Mr. Sperber who suggested that I... he told me, to the best of his knowledge he believed that the cure temperatures were correct and that they'd been miscited and would I initial temperatures and fill it in -- pencil work it -- and I refused.

DECKARD: [What did he say when you refused?]

HENRY: [No problem.]

DECKARD: So this is the original document indicating noncompliance with standards. It's your belief based on requests that Mr. Sperber made to you that the document which would now be officially on file would indicate curing temperatures within standards.

HENRY: Also it would indicate that curing temperatures were recorded on dates when there was no one present.

DECKARD: How can we prove that? How can that be documented?

HENRY: You'll just have to take my word that that was the one I found in the basement and that there is a permanent log now, and I doubt very seriously that it's as open as this.

DECKARD: OK. Let's move on to something else then. Are those papers down there ones we've already looked at?

HENRY: All these represent, at one time when I worked out there we had a problem for a long time with the curing boxes. The curing boxes being used had no facility whatsoever for ~~keeping the cylinders cool.~~ As you know, when concrete hydrates it becomes hot.

DECKARD: Hysterical? When it began to suffer?

HENRY: As soon as cement and water are mixed you have hydration. It's a chemical process. From that point on, the concrete is supposed to be cured between 60 and 80 degrees in these boxes. The boxes were located all over the site. They had no ...

DECKARD: ...This curing was taking place in the semi trailer, is that right?

HENRY: Yes, until there was no room.

DECKARD: What type of equipment did this semi trailer contain in order to keep the interior at a constant degree between 60 and 80?

HENRY: There was a fan and also a mist system.

DECKARD: What kind of heat arrangement did it have.

HENRY: To my knowledge there was no heat element in that cure room.

DECKARD: During this period of time that this was taking place, what part of the year was it? Did it cover an entire year's period?

HENRY: Up until from the beginning of U.S. Testing's involvement on site until June or July when we did move into the permanent lab, I believe it was in July, testing was being done for compression in this trailer. There was a compression testing machine--the electric motor did not work and it was pumped by hand.

DECKARD: Do you know of any other instance where either you personally or someone else that you know of were specifically directed or suggested to falsify documents?

HENRY: I can think of one incident which I have personal knowledge of -- I heard the site supervisor suggest...

DECKARD: ...Who was?

HENRY: Mr. Dan's Lathan, who is still site supervisor. I heard him suggest to another technician, a lab technician.

DECKARD: ...who was that technician?

HENRY: I think his name was Dean, Dean Morris.

HENRY: He suggested to Dean that since a sample had been lost or contaminated, a relative density sample, that he should go out to the approximate area that this sample was originally taken and get another similar sample. Mr. Morris had not collected the original; so it was impossible to get a representative sample. The relative density ...

DECKARD: What kind of contamination would have taken place?

HENRY: The samples sat in trays for a long time, and I believe it was possible either for material to be lost or introduced into it which was not part of the original sample.

DECKARD: Just any kind of thing--any kind of object, (or liquid, or that's what you mean by contamination?)

HENRY: Yes sir.

DECKARD: Are there any other instances you can think of where it was suggested or ordered that proper standards not be met or records changed?

DEW: The Union and I go down to the site, I believe and stayed there.

DEW: You don't know what that company is?

DEW: No, I do.

DEW: Who is that?

DEW: No, I don't know.

DEW: Who is that?

DEW: He is at the time catch plant inspectors.

DEW: Is he still with U.S. Testing?

DEW: No.

DEW: Where is he?

DEW: He's still in the area. I think, I'm pretty sure he still lives in Dallas.

DEW: Why isn't he longer with them?

DEW: He was fired.

DEW: Why?

DEW: (I'm not really sure, I think they said he)

DEW: (I'm not really sure, I think they said he)

DEW: I think it was all over the report, the ash logs which he never had, so that knowledge, surrendered.

DEW: Mr. Willis, you believe, still has copies of what?

DEW: The ash logs, the ash logs?

DEW: In your opinion would these documents which you believe he may have include safety standard violations?

DEW: I have no personal knowledge of this. They mailed his check to the wrong address and he became quite upset about this -- they told him that he wouldn't get his check until he brought the logs back. And I think he expressed that he was not going to surrender them -- possibly for his own protection. (end of tape)

DECKARD: I believe we were talking about Mr. Willis. Where did we leave off?
HENRY: Mr. Willis, I believe, refused to surrender the documents even though they threatened his check being withheld. To my knowledge, they have never been returned and I have knowledge that the cement and fly-ash log was trying to be updated from existing...

DECKARD: ...now what do you mean by updated?

HENRY: Well Newburgh has tickets from the trucks as they come in - cement fly-ash is brought in on trailers, and frequencies are taken from that. There are frequencies on the cement fly-ash. Those samples are sent to Hoboken for testing.

DECKARD: You don't mean - when you say updated - possibly anything wrong. It is just a normal procedure. Would there be something wrong with their updating their records. That is what I am trying to get at.

HENRY: Not unless the circumstances surrounding it would have been secretive.

DECKARD: Do you believe the documents ^(to your understanding) Mr. Willis has will show serious safety standard violations?

HENRY: I have no knowledge of this.

DECKARD: Could they conceivably?

HENRY: Possibly.

DECKARD: Why would he want to hold them for his own protection?

HENRY: Possibly because he had missed a frequency and had failed to submit, when a frequency came about, whenever so many hundred thousand pounds have been delivered a sample would be taken from that and the samples mailed up.
[Hoboken]

DECKARD: Would that be serious enough to warrant him giving up a paycheck in order to keep those records?

HENRY: If it was a serious enough mistake.

DECKARD: You said earlier that you thought he was keeping the records for his own protection.

HENRY: Yes, sir.

DECKARD: Why do you make that assumption?

HENRY: It's just rumor, hearsay. I have no personal knowledge of specific reasons why these documents were not surrendered when they were requested. But I do know that they were later - they tried to get their existing records updated and filled in for the loss.

DECKARD: Now, let me ask you again. Do you have recollection of any other cases where any of the three companies involved - PSI, Newburgh, or U.S.

OF

Testing -- told any employee, suspected, that records be falsified or standards not be met.

HENRY: I know at the time I worked there, and probably to this date, there is no aggregate correction factor being employed in the usage and calibration of the air entrainment apparatus.

DECKARD: Now what does that mean in layman's terms?

HENRY: The aggregate correction factor is taken into account. The air entrainment is tested in a pot. It is calibrated for volume by noting the difference of a -- it is pumped to a certain pressure. When the pressure is released then the air, actually, in the paste, you will have a percentage. Now the aggregate correction factor accounts for the different kinds of aggregates used, and it specifically outlined that this should not be ignored. To my knowledge the aggregate correction factor was not used because it would employ a procedure that no one to my knowledge on site was familiar with, and it would cause extra computations for the technicians which could later cause a possible error. So there is a zero on all gauges at this present time?

DECKARD: Who would have been responsible for that?

HENRY: (Site supervisor is in charge of all procedures.)

DECKARD: He would have been aware of this? Mr. Lehner, right? Is this one of the factors that goes into the honeycombing problem?

HENRY: By having an inaccurate account of the air, it is one of the three specific tests taken for the actual in process as far as it is -- it could be any estimation taken from that. I really don't know. But I do know that it is incorrect procedure and it is being ignored.

DECKARD: To your knowledge, NRC regulations require this?

HENRY: Yes, sir. It is written into the specifications. The calibration of the air pots requires that an aggregate correction factor be taken from time to time.

DECKARD: Do NRC regulations specifically require curing temperatures between 60 and 80 (degrees).

HENRY: Yes, sir.

DECKARD: You are certain of that.

HENRY: It is common, a very common... I have publications from the American Concrete Institute, and also the Portland Cement Association, that the specs are taken from, that indicate that this temperature is common and it is standard to the industry.

DECKARD: Did you in your capacity have occasion or need to actually read the regulations of the Nuclear Regulatory Commission?

HENRY: We were required to read the QCF (Quality Control Program) of the company, and also the specifications, Y2850, Y 2722, and keep abreast, or keep up to date on any changes that are made on them.

DECKARD: Any other known or suspected violations of safety standards, either inadvertently or by direction of supervisors of either of the three companies.

HENRY: Yes, sir, at the present time the cylinders are made and finished off. They are supposed to represent a specific volume. They are finished off flatly. Supposed to be put into the box on a level platform. This is impossible in many cases because the actual bottom of the cure box is made of expensive metal, as it is filled with these heavy cylinders, they become tilted, which means as the concrete is still in a liquid or plastic state, they will be cracked. There is a procedure outlined in the specifications for capping and also for breaking of compression specimens that state no cap will exceed certain thicknesses. Now unless these cylinders are saved with the cylinder saw, which is also recommended in the specifications, it is impossible not to have a cap that exceeds this thickness. At times, I brought this problem to Mr. Daryl Lanham's attention, and he said that the company was working on it, but that they were limited to asking for so much money at a certain time and that a cylinder saw would be very costly and to my knowledge, at this time they still do not have one.

DECKARD: Any other examples.

HENRY: You might turn that off, and I will look over my notes.

DECKARD: Tell you what, before you begin to look over your records. Just for my purposes, can you tell me your background. Where did you go to high school?

HENRY: I went to high school in Madison, and when my mother remarried we moved to Florida, and I completed my high school education there.

DECKARD: Do you have any formal education, past high school.

HENRY: I had no engineering college credits, but I did attend college.

DECKARD: For how long?

HENRY: For one semester.

DECKARD: In what area of study?

HENRY: Social Science, minored in music.

DECKARD: How did you become acquainted with the technical aspects of this construction that you have been going over this morning?

HENRY: Well, sir, when I got out of school I went to work for the County, building fire trucks.

DECKARD: What counts?

HENRY: Hallstorough County in Florida. I later went into various trades, labor, boiler makers, and had stayed...

DECKARD: ...Did you serve apprenticeships?

HENRY: No, sir, I was admitted on permit because of my prior experience.

DECKARD: Prior experience in what?

HENRY: In Construction. I was a card holder in labor.

DECKARD: How much construction experience have you had, and in what areas?

HENRY: I have no nuclear experience beyond the nine months that I worked there, but on my own time I read, and have read many, many books upon construction and concrete.

DECKARD: Aside from the nine months that you spent at... When you applied for a job at U.S. Testing, how did U.S. Testing determine your qualifications to hold the position that you held as a tester?

HENRY: All people who have no previous... U.S. Testing does not account for any real experience other than testing experience or quality control experience. I entered employment there as a trainee. After my probation period on basis on the number of laboratory procedures and tests that I had acquainted myself with on my own time, I was promoted to Level I, and was working toward my Level II with the company.

DECKARD: How long did it take you to be promoted to Level I?

HENRY: It wasn't very long at all. But I did perform tests out there when I was a trainee, and many, many tests were performed by trainees.

DECKARD: Were you required to have any type of Nuclear Regulatory Commission certification for any of the work you did?

HENRY: We all went through a documentation process. You familiarize yourself with the written material, and then when you can satisfy company to whatever requirements they had at that time, you would be given responsibility to perform tests.

DECKARD: But prior to being promoted to Level I. When did that occur? That promotion?

HENRY: It was just a few months after I started out there. I think it was 90 days.

DECKARD: During your first 90 days of employment with U.S. Testing you were performing tests for official records?

HENRY: Yes, sir.

DECKARD: ... that regulations require Level I personnel to perform?

HENRY: Well, the way they got around that was - they would have a Level I? do the paper work, and that way only his signature or initials would appear.

on the permanent record, but the actual tests were being performed for times
No. 114, 115.

DECKARD: During that 3 month period, can you give me some of the names of the
people who were level I and who took your testing results and put them on paper
and either initialed or signed them as having been performed by themselves?

HENRY: Well, sir, the question itself I am not really sure I understand...

DECKARD: ...in other words, during your first three months of employment,
you weren't Level I, but you were doing some testing that only a Level I
person should do.

HENRY: That's what I was told.

DECKARD: Well in fact you did do that testing, and you gave your results
to a Level I person.

HENRY: Many times there was not a Level I present.

DECKARD: But the papers did have to be filed by a Level I.

HENRY: And reviewed.

DECKARD: Who are some of the people who at that time took your test results
put them on paper and signed their names to it as though they had done the
testing, when in fact you were the one who had done the testing.

HENRY: There is no one presently employed by the company at this time.
I think there are four people who are now working there who were there before
I was. In other words, all these technicians are gone, they are gone to
other jobs, other states...

DECKARD: These are the one you gave your test results to, to do, before your
were Level I? They were Level I, right?

HENRY: Right, or Level II.

DECKARD: And they submitted the documents in their own names?

HENRY: Yes sir.

DECKARD: Do you remember their names, whether they are with the company or
not?

HENRY: McWillis was a Level II at the time. There was a Dwayne Richards,
who was a Level I.

DECKARD: Dwayne Richards? He is no longer with the company?

HENRY: No sir.

DECKARD: Do you know where he is now?

HENRY: The last I heard Dwayne was working in New Jersey. I don't know the
name of the company.

DECKARD: Where is he originally from?

HENRY: I don't really know.

DECKARD: Is it a nuclear facility that he is working on in New Jersey.

HENRY: I don't believe so.

DECKARD: Any other names?

HENRY: Bill Willis was a Level 11. Jeff Curo.

DECKARD: Do you know where Mr. Curo is now?

HENRY: I have no knowledge where he is.

DECKARD: Do you know where he is originally from?

HENRY: Pasadena.

DECKARD: Any other names?

HENRY: Tom Schluenger.

DECKARD: He is no longer with U.S. Testing?

HENRY: No sir he is not.

DECKARD: Do you know where he is?

HENRY: I think he is working for South Texas Project in South Texas.
It is a nuclear facility.

DECKARD: Is that the one you mentioned a while ago?

HENRY: No sir, Black Fox is in Oklahoma.

DECKARD: So he is working on a nuclear project in South Texas?

HENRY: Yes sir. He was a Level 11.

DECKARD: Who is he working with in South Texas? U.S. Testing? Is it a testing firm?

HENRY: Yes, it is another testing lab.

DECKARD: Do you know the name of that testing firm?

HENRY: No sir, I don't. It might be Pittsburgh. In fact I take back what I said, I think it is PILL.

DECKARD: Pittsburgh Testing Laboratory.

HENRY: Yes sir. I'm not sure of that, but I am sure that he went to work there.

DECKARD: Any other names.

HENRY: There were a lot of people.

DECKARD: These four people - Bill Willis, is still with U.S. Testing...

HENRY: No sir it is not.

DECKARD: Oh, he is gone too. Do you have any knowledge why these four are no longer with U.S. Testing. Let's take Bill Willis first.

HENRY: He was fired.

DECKARD: For what reason?

HENRY: They said attendance.

DECKARD: Do you have reason to believe there was a different reason?

Mr. Willis didn't get along with the personnel office...

DECKARD: It was a personality thing.

HENRY: Yes sir.

DECKARD: There was no particular objection on his part as to procedures that led to his dismissal?

HENRY: I think he just eventually got fed up with the company and left like the rest.

DECKARD: But basically you believe that ^{it was a} personality problem with Willis, and not a matter of principle over testing procedures. How about Dwayne Richards?

HENRY: Dwayne Richards left for more money. Jeff Curd left for more money, and Tom Schlumphurger left for more money.

DECKARD: Okay, did any of these four when you submitted these testing results during your first three months of employment, did any of them ever make any statement to you in regard to the impropriety of handling it this way?

HENRY: When I first started working out there they were in dire need of technicians. U.S. Testing does not pay very much; at the time there were many days when there was only one person per pour, and they would tell us when we were trainees, that if we saw someone like Dave Swuter, who is a PSI engineer, or someone like that, that we should just wash equipment, which is basically what is going on out there now.

DECKARD: Wash equipment?

HENRY: The testing equipment comes in contact with the concrete and has to be kept clean after every test so that you don't have any buildups.

DECKARD: Did any of them ever have any kind of statement, or make any statement regarding the fact that you were performing testing that under, well I suppose NRC regulations, that you were performing testing you weren't qualified to...

HENRY: They said that we didn't have enough experience but they were working on a way to get around that.

DECKARD: Can you remember any specific conversation with any of these four people - Willis, Richards, Curd or Schlumphurger - where they indicated they knew that because of your inexperience at that time that you shouldn't be doing what you were doing, but nevertheless, we have technician shortage so...

HENRY: Yes sir. That was the main thing right there. They had a very difficult time acquiring technicians because people who had the experience - nuclear experience, prior testing experience - could go work for another company.

DECKARD: Did any of them ever express any concern about what was being done then?

HENRY: I believe that --like I said, this is only an opinion--but it was discussed many times. I was promised a level 2 in six months that didn't occur. People that were less qualified, in my estimation, than me, were promoted because they got along and they played ball.

DECKARD: Did you ever at any time express your concern to a supervisor about any of the things that we have discussed up to this point, where procedures weren't followed properly?

HENRY: Yes sir, I have a document right here which my name appears upon which is an official verification, I guess, that I had expressed concern and that there was no way for them to deny them and that right here--number 13-- it says "John Kaufman, safe-shooter and project construction group representatives are to meet with Jim", that was me, "Ken and Darrow of USI, to further discuss concrete problems."

DECKARD: This is on the document "Proposed Action to be Taken by FSI in Response to US Testing Personnel Concerns" ?

HENRY: Yes sir, there was a special meeting called.

DECKARD: What were these concrete problems? Go ahead--special meetings called.

HENRY: The meeting was called for many reasons. We were required to do specific tests in specific areas. These tests, like I said, the whole plant is laid out, depending upon where the area is, the specs apply to that. If we don't know, or didn't have any knowledge of air entrainment was required or freeze thaw was required or things like that, we couldn't establish actual test criteria. This is a copy of an In-Process report, it requires that you know whether it is a thin section, a moderately-massive section or massive section.

DECKARD: This is the containment area?

HENRY: All areas. Containment included. It requires that you know the category the mix design number, the allowable limits of the slump are determined upon ^{limits} temperature, the allowable and extreme values for the air entrainment, the air content, has to do with whether or not freeze thaw protection is required. If a structure is exposed to the elements, then freeze thaw is required. ^{Many} many times we would be sent out into the field with not enough equipment or personnel to handle it.

DECKARD: To handle what?

HENRY: To handle the requirements of this document right here.

DECKARD: The document that you are holding is the one that says that In-Process

Concrete Test Report, dated March 1976, down in the lower left-hand corner, OCT3-2. Is that how you identify this document?

HENRY: Yes sir. All documents merely refer you back to the quality control program.

DECKARD: Now tell me, what were the safety standard violations / or did they occur (Get me put it that way), and if so, what were the safety standards that resulted violations from the problem you have just described

HENRY: OK. On this document here which is the one I have shown you before, the Proposed Actions, it shows that PSI will expedite issuance of a letter concerning information needed by USI for concrete placements, that is, category-1, freeze thaw, etc. Unless we had that information, you couldn't establish acceptance criteria for the actual area, and if that wasn't established then it would be possible for concrete that couldn't comply with it to be placed.

DECKARD: So in other words, what might be criteria for thick concrete, which I presume would be containment concrete, is that right?

HENRY: A massive section merely means its thickness, and the thicker the structure, the temperature requirements are changed because, as I said, the larger the structure, the more concrete is hydrating, the higher the temperature will increase as a result of the chemical process.

DECKARD: What, do you know of any specific cases where criteria were applied that didn't apply to the type of...

HENRY: I think I know what you're saying. In the Aycock Unloading Facility, which I mentioned earlier, there was no Newberg -quality assurance personnel present which means that whatever concrete arrives would be placed because US Testing has no rejecting powers.

DECKARD: You didn't know where that concrete came from?

HENRY: It all comes from the batch plant.

DECKARD: Yeah, but you didn't know where it was going to go? The technicalities of this are causing a problem in asking questions. I am not completely certain in my own mind what exactly the problem is that you are describing to me.

HENRY: First of all the very most basic requirement of quality control is that you have established acceptance criteria. If you don't have that then you can't have quality control. You can't have one without the other.

DECKARD: What occurred that caused you not to have accepted.. what was the term again?

HENRY: Acceptance criteria.

DECKARD: Yes, acceptance criteria.

HENRY: We had... I'll refer you to another thing here... The thing is that we would get, eventually, at one time, we would be sent out on a pour. You would put your equipment on the truck, they would take you out there, they let you out. You would have paperwork, and this that and the other. And if you didn't know the things that I discussed, you couldn't establish acceptance criteria. In other words, you had no way to gauge exactly what was going on.

DECKARD: What did you do in that kind of case?

HENRY: The one in the Apock, as a result of us not being aware, or myself being aware--I was there by myself--that there was no Newburgh QA there and no PSI man there after the first truck, there was no way that we could keep the poor quality concrete from going into the structure. Now, we could test it and we could get the results, but without knowing the acceptance criteria we wouldn't know if it was passing or failing.

DECKARD: Did you do any of those tests during your first three months of employment?

HENRY: Yes sir.

DECKARD: And then the results were submitted by other people, and I believe we have mentioned their names already haven't we? For the record?

HENRY: Some of them.

DECKARD: Some of them. Can you give me some more names then?

HENRY: Whoever was available. Like I said, that was about it as far as concrete.

DECKARD: These four names that you gave me awhile ago: Willis, Richards, Kurd and Schlumberger?

HENRY: and myself. We were the Concrete Department. Many many times there would be more pours than we had people and sometimes people from the lab would have to come in.

DECKARD: Is there anything else you want to add about this particular...

HENRY: This whole meeting took place because we didn't have any communication between the batch plant and the field. The company did not have enough radios. Many times I would be doing paperwork for maybe, four points of placement, in other words, there were four different locations that concrete was being entered into the pour, with a testing crew on each one. Now, without radio contact it was impossible and many times we didn't even have visual contact to let the other teams know that they were supposed to be testing a specific truck.

DECKARD: Who conducted this meeting?

HENRY: It was held between the entire, everybody in the lab, everybody that works for US Testing that could make the meeting, met with Mr. Robert Peterson and Mr. David Shuter.

DECKARD: Who are they?

HENRY: They were working for Public Service, Indiana, Quality Control. They were on-site engineers.

DECKARD: Robert Peterson and who?

HENRY: David Shuter.

DECKARD: And they are both Quality Control with PSI? How do you spell Shuter's name? SHUTER... And they conducted the meeting?

HENRY: Yes sir. (end side 3)

DECKARD: Tell me what they told you.

HENRY: This reply is dated August 7th, 1978. It was the day before, maybe two days before. But it was between the 3rd and the 2nd.

DECKARD: So the PSI people are meeting with the US Testing people.

HENRY: Yes, at our request.

DECKARD: At your request. Why did you request it?

HENRY: Because many of the technicians felt that they were unable to do their job without cooperation between the different contractors.

DECKARD: Who was the person from US Testing who made the request to PSI.

HENRY: You mean for the meeting itself?

DECKARD: yes.

HENRY: It was a joint request by myself, and several other technicians. It was not any one person.

DECKARD: Who was your supervisor at the time at US Testing?

HENRY: Daryl Lanham.

DECKARD: Was Daryl Lanham aware that you had requested the meeting.

HENRY: Yes sir, he set it up.

DECKARD: In other words, he agreed that the meeting should be held.

What was his attitude about the meeting? Well, no... He agreed.

Let's continue. What happened at the meeting?

HENRY: The way it was set up, we met in one of PSI's larger offices and we went around the table starting with Daryl, who had no comments whatsoever. It went around the table and many of these comments here were brought to their attention.

DECKARD: In the Proposed Actions to be Taken by PSI in Response to DST Personnel Concerns.²

HENRY: Yes sir. The first one "PSI C" image tests will stay with Category 1 concrete placement until they are complete" and at the time they were off, many times they weren't there at all, which meant that we had to deal with Newburg, which was next to impossible. We got very little cooperation from Newburg. They thought we were just in the way, a technicality, and many times our results were not taken seriously and Newburg and Sargent Lundy, many many times cooperated. I am sure, on findings ways of getting around.

DECKARD: Who is Sargent Lundy?

HENRY: Sargent Lundy is another contractor on the site responsible for actual writing out of the specifications. Like I said, PSI was requested to stay with the Category 1 placement until they were completed. They were very very rarely there and almost never in a Category 2 area.

DECKARD: After this meeting did this situation improve?

HENRY: Not immediately, no sir.

DECKARD: But it did eventually?

HENRY: Yes it did, "PSI to give NST authority to reject concrete and to witness Newburg Marble Hill adding water to the concrete." That has not changed.

The company still has no rejection power whatsoever. It is left up to Newburgh.

DECKARD: Which company has no rejection power.

HENRY: US Testing.

DECKARD: In other words, if US Testing tells Newburgh that something doesn't meet standards, US Testing has no authority to require Newburgh to make a change necessary to meet the standards.

HENRY: All we did was to furnish them with the information and it was their decision. We requested that they install field tile drainage under the fine aggregate storage pile. The storage pile sits on the ground. It is nothing but a large pile of sand which is directly exposed to the elements. It is constantly wet in the center. Many times, as the larger pours would go on, the batch plant operator that would be operating the in-loader actually furnishing the sand to the batch plant would get into wet spots which would increase the slump and eventually cause the concrete to go out of specs. Segregation in the coarse aggregate storage pile, there stockpiles are termed by Portland Cement Assn., is generally unacceptable, and to my knowledge they are in same shape as they were.

DECKARD: May I throw in a question here? As a layman, your knowledge of the technicalities involved, your expertise in this area seems to be valid. I am of course a layman and can easily be snowed. How confident are you to this point, everything you've told me would stand up under the scrutiny of

a highly trained construction engineer, specifically a nuclear construction engineer. Are confident that what you've told me would stand up under his critical evaluation of it?

HENRY: Yes, sir. The same information everybody reads - the ASTM's and the Portland Cement Association bulletins and the books that are put out, it is all the same information.

DECKARD: Do you have copies of all that information where ... I hope to be able to transcribe what we have put on tape ... do you have copies of those standards from Portland and Lehigh and so on, where it would be possible once it is transcribed to put on the paper the exact location in those company's documents which would verify what you have told me.

HENRY: Yes sir.

DECKARD: Let's move ahead.

HENRY: The rest of it is mostly about the cure boxes, and they pose a serious safety hazard. First of all, they were constructed out of heavy materials. I can think of one the lid was so heavy that it took two people to lift it. Now these are boxes that we have to be in and out of every day - maybe once a hour or more. The cylinders are stored in them. PSI was really not very helpful at all. They have right here - it says: PSI QC to review status of existing cure boxes on site and stay on construction to get them completed.

DECKARD: Let me ask you this. The lids may have been heavy, but how does that involve safety standards?

HENRY: Well, one person was injured because the lid fell on his head.

DECKARD: Okay, but here we are talking about more of an OSHA-type situation, than we are ...

HENRY: Right. The whole thing with the cure boxes is they are there for a reason. The curing of the cylinder is a process that takes place immediately after they are molded. You are very careful to put them intact in the cure boxes which are suppose to keep them within 60 to 80 degrees. Now there were available air conditioned cure boxes and I think one design was submitted by an employee of the company for a cure box which would work. Before they spent the money for air conditioning, they used ice. They put ice in the bottom of the cure box and a piece of expanded metal over the top. There was no ventilation possible, and as I have shown you many many of the cylinders were cured in near freezing temperatures. I myself have personally taken cylinders from boxes that were ... I had to dig them out of the ice and these were cylinders that were less than 24 hours old.

DECKARD: Does the heaviness of these lids, does that mean there may have been occasions where a tester would be required to get in, but wouldn't, is a case of that problem?

HENRY: Yes, sir. It got to the point where we got no cooperation from Newburgh whatsoever. Supposedly according to this, PSI construction to avoid signing off on concrete placement notifications until cure box and VIT personnel are present, and it says that they will do it on category 14. On category 24 it was not possible.

DECKARD: Okay, does that cover most of the points on that document?

HENRY: On the proposed actions. Yes sir.

DECKARD: Let's move onto something else.

HENRY: You're asking about my knowledge. In the 9 months that I worked for U.S. Testing, this document indicates that this is the only mistake that was found to be directly made to me.

DECKARD: It was a mistake that was your responsibility?

HENRY: The mistake was a missed frequency, in other words, a test was not made within a 50 yard period of time because we did not have radio contact with another point of placement.

DECKARD: 50 yards?

HENRY: 50 yards. Yes, every 50 yards of concrete have to be tested.

DECKARD: Yes. Internal corrective Action Request Test Frequency. Copies went to PSI, Hoboken Files, Site Files, Jim Henry, E. Zadina, D. Edley. It says on 6/19/78, a testing frequency was missed on ^{pour number} 7 AS3466, a math error was made prior to placement of ticket No. 3958, causing a testing crew to believe that they had performed the required test at 351 yards, the error was not discovered in time to correct it. This says 351 yards, you just said 50 yards. What is the difference?

HENRY: Well, in a 351 yard pour, you would theoretically have approximately 7 series of frequencies - every 50 yards you would perform these tests. Now in this case there was more than one point of placement which means that four, up to five concrete trucks could be discharging simultaneously, which represents 45 yards. A concrete truck can discharge very rapidly. Now I was told to - now this is an internal corrective action - in other words this mistake was mine officially, yet it was because we did not have radios at that time, the batteries would last a shift.

DECKARD: ON what particular part of the plant was this mistake made?

HENRY: I believe it was a slab.

DECKARD: What is a slip?

HENRY: It is horizontal - must like a driveway or a patio, or a very large scale.

DECKARD: What part of the plant? The containment building.

HENRY: No sir. It was Category II area, I believe; possibly the auxiliary building.

DECKARD: What did they say to you about this mistake? Did they say exercise more caution when adding yardage; notify PSI. That was the extent of the action?

HENRY: Right. This is just an official slap on the wrist. I write this up myself.

DECKARD: Did it cause you any real problems; did they raise cash with you?

HENRY: No, they really couldn't, because it wasn't my fault, and they said it was a yardage error, and that it would be very non-serious, everybody gets I-CAS's and the only thing I would have to be was be more careful adding the yardage.

DECKARD: How many of the 50 yard intervals was missed? One, two or 3?

HENRY: Just one.

DECKARD: So in other words you went from point A to point B, which was approximately 100 yards, when there should have been a test made right in the middle?

HENRY: We went 51 yards.

DECKARD: What do we have now.

HENRY: I have here a copy of New York Times article in which Pittsburgh Testing Laboratory and Research Control were charged with negligence for falsifying concrete reports. The exact same thing which we are speaking about right here. I don't know if you remember or not ...

DATILLO: Is that relevant to this particular inquiry, or is it additional information?

HENRY: Well it relates, I would say.

DECKARD: Specifically to Marble Hill? How does it? It is two different companies, two different plants.

HENRY: Yes sir, but the same mistake is being made. For instance, I showed you the cylinders are broken at intervals 7, 28, 91 days.

DECKARD: In order to save tape, we will simply make reference to this New York Times article, and at a later date I will read the article.

DATILLO: I also have the one's rejected those particular pieces of concrete in a West Virginia plant which could possibly be available.

DACILLO: Want the names put in there now?

DECKARD: Yes, we can.

DACILLO: Her name is Ruth [redacted], presently of 4235 South State Street, Indianapolis, 46207, 317 758 0108.

DECKARD: Who is she?

DACILLO: She is a wife of a law student from Indiana University Law School, who was a concrete tester at the West Virginia plant. That is the only relevance it has.

DECKARD: Do you want some more time to look at your notes before we go on?

HENRY: At this time, I have no more documents in my own personal possession that would indicate any real proof in black and white that would show that these things did occur. But like I say I worked there for 9 months, I filled out literally thousands of these reports, I covered pours every day, sometimes two or three.

DECKARD: Do you have any recollection of how many test failures occurred during your employment there - in 9 months?

HENRY: No.

DECKARD: Were there very many? Few? We do know of one?

HENRY: Test failures for what, sir?

DECKARD: Anything, regarding construction of the Marble Hill plant, which would indicate that proper safety standards weren't followed, and therefore it resulted in a test failure.

HENRY: Well, a test failure is... U. S. Testing tests the concrete as it is being poured. A slump is out of spec, an air content is out of spec, a temperature is out of spec, is a failure; but that does not insure that the concrete will not be placed. They have a thing called "tighter" "unintelligent" sampling which at the time I worked there allowed for 5 known out of spec trucks to be placed before anything was done. Their way around that was to place 5 bad trucks. When they had one that was good, they would go in and put in a couple of yards, maybe place another truck with another couple of yards.

DECKARD: When did this occur?

HENRY: During the time I worked there. During the summer specifically.

DECKARD: You mean it occurred more than once?

HENRY: Yes sir, it was a day to day problem, and part of that was the reason for the request of the personnel with PSI.

DECKARD: Has that problem been corrected?

HENRY: I really don't work there anymore.

DECKARD: By the time you left had it been corrected?

DECKARD: Shouldn't that show as a test failure? Using test concrete?

HENRY: It is recorded on an inprocess report.

DECKARD: A moment ago you showed me a test failure document that we already made reference to, 700A or 7001A, whatever that is, this occurred during your employment. Right?

HENRY: Yes sir.

DECKARD: Did anything else like this occur during your employment? Where they stamped on it test failure?

HENRY: Yes sir.

DECKARD: Do you have any estimate of how many times it occurred during your employment?

HENRY: Several per month.

DECKARD: What corrective action was taken as a result of this test failure?

HENRY: To my knowledge at the time I worked there, no removal, say for instance, this column, to my knowledge, this column is still there, and it says one yard placed, but as I expressed to Mr. Datillo, there is no way that you can look into the inside of a concrete truck and gauge exactly how much concrete has been placed. That is left up to Newburgh to decide. It could have been more, it could have been less.

DECKARD: So you don't have any definite way of proving whether this test failure resulted in corrected action.

HENRY: The test failure was reported to Tom Keats and Bob Peterson. It probably appears that way in the log. In the permanent log I have no way of knowing, but to my knowledge no structure was ever removed because it had failing concrete.

DECKARD: Would you have been in a position to know whether it would have been removed?

HENRY: Yes sir. I was in the field every day.

DECKARD: How could you have been able to tell whether this particular column which falls below the strength standards had been removed. How would you have been able to tell?--

HENRY: You would be able to see them chipping the structure away, removing the re-bar and then it would have to be repoured, theoretically.

DECKARD: It involves pretty massive type of correction.

HENRY: You would have to halt further progress until supposedly these are corrected.

DECKARD: Test failure during your employment occurred several times a month?

HENRY: To the best of my recollection.

DECKARD: Would all the rest of the test failures you recall also have involved such obvious measures that you would have known whether they were corrected?

HENRY: I would think so. So instance the fuel handling section was probed when I was there. The main batch plant broke down. There was a time period close to an hour, maybe longer, before the back up plant was able to operate, and the back up plant has no facility to (unintelligible) into ^{the} concrete, and as a result of that temperatures stayed high the rest of the pour. We stay on site for sampling for temperature for hours. This fuel handling section is still there. Honeycombs that appeared on the outside of the structure which were visually apparent were replaced with grout.

DECKARD: How many NRC inspections occurred while you were employed there?

HENRY: About five or six.

DECKARD: Were you part of those inspections? Did you play any role in it?

HENRY: I was surveilled by them in my capacity as a technician.

DECKARD: In other words you accompanied them during whatever it is...

HENRY: No sir. The NRC would supposedly come out for a surprise inspection, and of course, everybody knew when they were going to be there, and they knew what logs they were going to be examining and generally people would be advised.

DECKARD: How did they know that?

HENRY: I have no way of knowing that.

DECKARD: Who advised you that they were going to appear?

HENRY: I would hear from people talking that the NRC was going to be here on such and such date, and to clear up the lab, to recalibrate the scales, to get the dust off of everything. They threw away slump cones at one time that they had been using up to that point.

DECKARD: Who else is aware that those two slump cones were thrown away? Because of an impending NRC visit?

HENRY: The site supervisor at that time was Daryl Lanham; he told me, and at the time lab sheets to throw them away.

DECKARD: There was never any time during your employment a truly surprise NRC VISIT?

HENRY: Not to my knowledge.

DECKARD: Can you tell me of any specific examples of where test failures or honeycomb problems where cosmetic efforts were made to cover up that honeycomb problem so the NRC wouldn't be aware of it?

HENRY: It was a rule of thumb for the honeycombs to be patched with grout. At the time they were even performing all the tests on the grout there.

were required. At this time...

DATILLO: Who are they who weren't performing...

HENRY: U.S. Testing.

DECKARD: So if you had a honeycomb problem the workers were instructed to cover up the honeycombs with grout so that it wouldn't be apparent to the NRC, is that right?

HENRY: It makes the outside of the structure look alright.

DECKARD: That order was given by whom?

HENRY: The construction and patching was done by Newburg. A lot of it on the weekends.

DECKARD: Were you ever present on the weekend when this was done? Did you ever observe them putting grout over honeycombs?

HENRY: Yes sir.

DECKARD: Was this cosmetic surgery good enough that even an expert couldn't tell that it had been made?

HENRY: When you pour a slab and remove the forms, either it is smooth and without honeycombs, or it has honeycombs. In the event of the fuel handling section, there was, like I said, when grout was placed on the open area to keep the concrete alive, as they put it, so that it wouldn't set up and they had a cold joint.

DECKARD: Did this ever occur on the containment area itself? The two containment areas - the main containment area where the reactor is?

HENRY: I can think of one instance where a non-conformance was supposedly reported. The thing that happened was that concrete finishers were taking the concrete - we take a sample with a wheelbarrow - we test it and we dump it out. Concrete finishers were coning and getting the concrete out of these piles and using it to patch up areas. I'm sure that it happened in containment. I wrote the notes examining one of them myself.

DECKARD: Note to whom?

HENRY: I didn't write it out. I did write it out on the inprocessing report, but to my knowledge no extra notes that were attached to inprocess reports were actually submitted in the permanent log.

DECKARD: Is it common knowledge that these efforts were made to cover up deficiencies because of an NRC visit that was about to come about?

HENRY: It was to the testing personnel.

DECKARD: Some of the names we mentioned -- Willis, Richards, Curd, Schlumpburger - would all be aware of this. Harrel, Hargrave, Cunningham, Lanhan - they would all be aware that this coverup took place?

HENRY: They probably tested some of the grout that was used to do it.

DECKARD: In other words, they obviously would have had to be aware.

HENRY: They would have had to review the paper work.

DECKARD: Would they have known why they were doing it?

HENRY: I doubt it.

DECKARD: Well, is it normal procedure to cover up honeycombs with grout anyway?

HENRY: That was their procedure at the time, yes sir.

DECKARD: Is that accepted procedure, in the nuclear industry. Is this a peculiar thing?

HENRY: I for one took for granted it was because they were doing it.

DECKARD: I am trying to establish whether Newburgh Construction deliberately concealed deficient construction practices.

HENRY: I would say since a lot of the work was done on weekends and on third shift, and that sort of thing, many of the areas ... whenever you had a honeycomb it would be yellowtagged by QA inspector, and then the slab would be put under scrutiny. I have heard that when you have that problem you are suppose to take pour samples.

If the outside of the slab looks okay that is fine as far as the visual, but it occurs on the outside I would think it only logical to assume that it would occur on the inside as well.

DECKARD: Honeycombing is not unique to Marble Hill. Even the NRC admits that. What I am trying to establish. Well Tom you know what I am trying

DATILLO:
to establish. / I know...but I'm not sure that thing by the NRC is a factual statement. I think Dr. Cassaro will tell you something else.

DECKARD: Well I don't know. But for the moment let's assume that it is true. So honeycombing may or may not be unique to Marble Hill. What I am trying to establish is whether concealment of the honeycombing in order to get approval of the NRC is unique to Marble Hill. And so far we haven't come up a smoking gun if you know what I mean.

DECKARD: I am reading the letter to Daryl Lanham of U. S. Testing Company from E. L. Shuter of Public Service Company. "I would like to take this opportunity to thank you and your on-site personnel for their time and cooperation in assisting the Nuclear Regulatory Commission during their recent inspection which yielded no findings against U.S. Testing. During the exit conference, the NRC commended U.S. Testing significantly since their last visit." What this document indicates is that during the previous visit there was in fact no laboratory at all. Is that correct?

HENRY: It was a house that the company had purchased about two miles from the site, it was not actually on the site, and adjoining semi-trailer which was owned by the company.

DECKARD: In your opinion, these conditions of this house and semi-trailer would that in itself constitute a violation of safety standards?

HENRY: I don't know about that. The only thing I can say is that it was impossible when we had a dust problem, there are very delicate scales, and they had to be cleaned constantly. There was dry wall and that sort of things.

DECKARD: I am looking at a letter now to Daryl Lanham of U.S. Testing Company

END OF ALL TAPES

CONFIDENTIAL - SECURITY INFORMATION
A REVIEW OF THE CASE WITH CONCRETE TESTING

- June 26, 1979 Representative Deckard met with NRC HQ personnel, discussing their work in general areas alleged to be deficient. The source of these allegations by name or detailed information concerning the allegation was not provided.
- July 28-27, 1979 In response to the above, the U.S. Army Waterways Experiment Station (Corps of Engineers) was contacted by the NRC and performed a detailed inspection of 107 facilities.
- August 22, 1979 The Louisville Courier-Journal publishes specific information concerning the USG allegations.
- August 28, 1979 A package of statements and documents concerning the allegations is sent to the Department of Justice by Representative Deckard.
- September 21, 1979 Region III, NRC received copy of the August 28, 1979 package through NRC HQ from the Department of Justice.
- November 29, 1979 Region III personnel coordinate a planned interview of the alleged with the New Albany FBI office.
- December 20, 1979 (approx.) Mr. Dattilo called New Albany FBI, and advises that he is the alleged's lawyer.
- December 21, 1979 New Albany FBI personnel visit Mr. Dattilo's office and are advised by him that the alleged preferred not to have NRC personnel present when he is interviewed.
- December 31, 1979 The alleged was interviewed at Mr. Dattilo's office in New Albany, FBI personnel without NRC representatives.
- January 3, 1980 Mr. J. Foster (RIII, NRC) calls Mr. Dattilo and requests his assistance in contacting and arranging an interview with the alleged.
- January 4, 1980 Mr. Foster of RIII writes Mr. Dattilo and requests his assistance in arranging an interview with the alleged.
- January 21, 1980 New Albany, FBI personnel provide the alleged's address and telephone number to RIII NRC.
- January 23, 1980 Mr. Foster of RIII contacts the alleged and the alleged indicates that he was willing to talk to the NRC on December 31, 1979 but "you turned me down". That is, he refused to talk to him. He was advised that this was incorrect. He also indicated that Mr. Dattilo was representing him, and that all communications should go thru Mr. Dattilo.

January 22, 1980 Mr. Foster of RIII contacts Mr. Dattilo requesting his assistance in arranging an interview with the allegor. Mr. Foster of RIII contacted the allegor and was told that calling him directly without going thru Mr. Dattilo was causing him distress.

January 23, 1980 Mr. C. Barth an attorney for the NRC in Washington, D.C. calls Mr. Dattilo to request his assistance in arranging an interview with the allegor.

February 1, 1980 Mr. Murray and Mr. Lieberman, attorneys for the NRC office in Washington, D.C., called Mr. Dattilo requesting his assistance in arranging an interview with the allegor.

February 4, 1980 Mr. Lieberman again calls Mr. Dattilo to request assistance in arranging an interview with the allegor.

February 21, 1980 Mr. Foster of RIII calls Mr. Dattilo to request his assistance in arranging an interview with the allegor and mentions that the issuance of a subpoena is being contemplated.

March 17, 1980 The subpoena is issued for the allegor to appear on March 31, 1980. RIII personnel contact the allegor and advised him of the subpoena. He states that he will comply with it.

March 19, 1980 An airline ticket and travel information is sent to the allegor.

March 30, 1980 Mr. Foster of RIII calls Mr. Dattilo and Mr. Dattilo indicates that the allegor will not appear in response to the subpoena. He states that this is a "joint decision".

March 31, 1980 The allegor does not appear in response to the NRC subpoena.

May & June NRC pursued enforcement of the subpoena through the Federal District Court in Mobile, Alabama through the Department of Justice. Allegor had left the jurisdiction of the Court and moved to Texas in the Armed Forces.

June 17, 1980 Arrangement made for voluntary interview to be conducted with the allegor in Louisville, Kentucky on this date after the U. S. Air Force issued travel orders for the allegor and the NRC paid expenses for travel.

-R047

PROJECT NO. 1098

REPORT OF CONCRETE QUALITY

Date Placed 8-2-78

033

Placement Location AW-346-7

PLANT DATA Source MAIN BATCH PLANT Cement LEHIGH PORTLAND
Mix SSE1 Specification SSE1 Safety YES NO Req. Strength 5500 PSI AT 91

TEST DATA AT PLACEMENT Ticket No. 3256, 57-58 Truck No. 8
Slump NA inches Air Content NA % Unit Weight N/A lbs/ft³ Temperature Concrete 42.0
Time of Molding 11/2 MINUTES AT 9 YARDS Molder By J.M. Cund Temperature Air 97
Initial Curing 72% to 75% Stripped 6-3-78 Initial Cure 6-4

COMPRESSIVE STRENGTH DATA ASTM C 39-71

Specimen Identification	Date Molded	Date Tested	Age	Total Load in Pounds	Cyl. Diam.	Cyl. Area	Break Time*	Strength PSI
S2	1-2-78	6-1-78	7	17,200	4"			4300
R		6-9-78	7	18,100	4"			3280
		6-28-78	28	27,200	4"			6800
		6-30-78	28	28,400	4"			7100
V		9-1-78	7	25,200	4"			6300
S21		9-1-78	7	17,300	4"			4320 (K)

Standard Cylinder				Equipment Identification			
<input type="checkbox"/> 6" x 12"	<input checked="" type="checkbox"/> Cube	<input type="checkbox"/> Core	<input type="checkbox"/> Other	Make	Model	Cal. Expiration	Date
Age (Days)	Tested By	Checked By	Notes	YES	NO	1/2	
7	GH	DHT			✓	ETA 1.0	9-19-78
28	SMC	DHT			✓	ETA 1.0	9-19-78
91	WH	KE			✓	322	8-22-78
				Remarks			
				* CUBE DAMAGED			

Type of Break 1-Conical 2-Full Shear 3-Column

Site Project Supervisor [Signature] DATE 9-9

FORM C-1 (11/77)

Bechtel

7-14-78

AC 240-3011 AC 240-3012

Bechtel Plant

Lehigh Portland

5510 PSI

5500

TEST NO. 701
Specimen No. 6083

Truck No. 3

Site: 8' x 8' x 8' (approx)
Age: 2.8

Unit Weight: NA 11.1503

Time of Molding: 11:30
Hours at: 2
Yards: 10

Molded By: Bill Thomas

Temperature: Air 85

Initial Curing: 70° to 104°

Stripped: 7-14-78 at 908 hrs

Initial

COMPRESSIVE STRENGTH DATA ASTM C 39-71

Specimen Identification	Date Mailed	Date Tested	Age	Total Load in Pounds	Cyl. Diam.	Cyl. Area	Break Type	Strength
753	7-14-78	10-12-78	90	147,500	6.03	28.54	4	5170
753	7-14-78	10-13-78	90	145,000	6.03	28.54	4	5080

TEST FAILURE

By: ~~Tom Kuck~~ Bob Peterson

TIME & DATE OF FAILURE: 11:00 10-10-78
REPAIRS: Bruner

Standard Cylinder <input checked="" type="checkbox"/> 6" x 12" <input type="checkbox"/> Cube <input type="checkbox"/> Core <input type="checkbox"/> Other				Equipment Identification	
Age (Days)	Tested By	Checked By	Year Adopted	Criteria	T.D. No. / Call. Extension
90	RB	KA	YES	N/A	322 / 8-22-78
					Remarks
					Cyl. made because of 8 in. cyl placed

Type of Break: 1=Control 2=Full Shear 3=Column 4=Shear-Cone 5=Cone-Split 6=Local

Site Project Supervisor: Bill Thomas DATE: 10-16-78

DATE SUBMITTED: 10-16-78

0718785024
0411795050

NO. 715

DATE 1979

INITIALS

PART I - IDENTIFICATION

1. NAME: *Thomas Kueck*

2. ADDRESS: *1000 ...*

P.O. NO. *...*

3. DESCRIPTION OF THE COPY: *...*

4. DATE OF THE COPY: *...*

5. OTHER INFORMATION: *...*

Original Copy

APPROVED: *Thomas Kueck*

PART II - VERIFICATION

1. I have examined the original and the copy and they appear to be identical. *Received by straight copy of 1/25/79 ... receipt as is*

1/25/79
4/1/79

Thomas Kueck

2. The copy is a reproduction of the original. Acceptable Not acceptable

Thomas Kueck *7-17-75* *R.S. Peterson* *7-17-75*
N-111 O.A.S. DATE FBI O.A.S.

PART III - IDENTIFICATION

1. NAME: *U.S. Army ...*

2. ADDRESS: *...*

Thomas Kueck *4-2-75* *R.S. Peterson* *4-2-75*
N-111 O.A.S. DATE FBI O.A.S.

PART V - CHECK-OFF COPIES

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COPY

COMBATIVE ACTION VERIFIED:

Thomas Kueck *4-9-79*
O.C. IIF DATE

CLOSED:

Thomas Kueck *4-9-79*
N-111 O.A.S. DATE

CURING ROOM TEMPERATURE Log

DATE	TIME	high	low	actual	init.
7-31-78	1400	75	73	75	IC/DHT
8-1-78	0700	76	73	74	IC/DHT
8-2-78	1330	74	72	72	IC/DHT
8-3-78	0900	76	74	76	IC/DHT
8-4-78	0800	76	73	76	IC/DHT
8-5-78	0900	75	73	74	IC/VLL
8-6-78	SUNDAY				
8-7-78	0800	76	73	75	IC/KRC
8-8-78	0830	75	72	74	IC/ K L J H
8-9-78	1000	74	72	73	IC/KRC
8-10-78	0800	75	74	74	IC/KRC
8-11-78	0830	76	72	75	IC/KRC
8-12-78	0800	75	73	75	IC/KRC
8-13-78	SUNDAY				
8-14-78	0800	74	72	73	IC/JRS
8-15-78	0900	75	73	73	IC/L J H
8-16-78	1000	76	73	75	IC/JRS
8-17-78	0830	75	73	73	IC/KRC
8-18-78	0930	76	74	74	IC/RB
8-19-78	SATURDAY				
8-20-78	SUNDAY				
8-21-78	0900	74	74	74	IC/RB
8-22-78	0930	74	74	74	IC/RB
8-23-78	0700	74	74	74	IC/RB
8-24-78	0900	74	74	74	IC/RB
8-25-78	1500	74	72	72	IC/RB
8-26-78	SATURDAY				

CURING ROOM TEMPERATURE Log

DATE	time	high	low	Actual	init.
10-20-78	1300	70	70	70	TC/RB
10-21-78	SATURDAY				
10-22-78	SUNDAY				
10-23-78	1400	72	64	69	TC/RB
10-24-78	1400	72	69	71	TC/RB
10-25-78	1230	72	69	70	TC/RB
10-26-78	1400	74	69	72	TC/RB
10-27-78	1400	72	72	72	TC/RB
10-28-78	SATURDAY				
10-29-78	SUNDAY				
10-30-78	0800	72	69	70	TC/RB
10-31-78	1500	70	66	70	TC/RB
11-1-78	0800	70	70	70	TC/RB
11-2-78	0900	70	70	70	TC/RB
11-3-78	1200	70	70	70	TC/RB
11-4-78	SATURDAY				
11-5-78	SUNDAY				
11-6-78	1600	70	70	70	TC/GD
11-7-78	1620	73	69	70	TC/GD
11-8-78	0930	76	69	71	TC/GD
11-9-78	0930	76	70	72	TC/GD
11-10-78	1100	73	70	71	TC/GD
11-11-78	SATURDAY				
11-12-78	SUNDAY				
11-13-78	1330	77	74	74	TC/GD
11-14-78	0730	77	74	75	TC/GD
11-15-78	0800	79	70	72	TC/GD
11-16-78	0900	77	73	74	TC/GD

DATE	TIME	HEIGHT	LOC
6-20	1800	75	71
6-21	0800	74	71
6-21	1200	74	74
6-22	0700	74	72
6-23	0800	74	72
6-23	1500	75	72
6-24	1100	73	72
6-26	0700	74	72
6-27	0930	72	72
6-28	1400	72	72
6-29	0800	75	75
6-30	0800	74	72
7-30	1200	75	72
7-3	0700	74	72
7-5	1100	75	72
7-10	1500	74	72
7-11	1500	75	72
7-14	1500	76	72
9-17	1500	70	65

6-20	1500	75
6-21	1500	74
6-21	1500	74
6-22	1500	74
6-23	1500	74
6-23	1500	75
6-24	1500	75
6-24	1500	75
6-27	1500	75
6-28	1500	75
6-29	1500	75
6-30	1500	74
7-1	1500	75
7-2	1500	74
7-3	1500	75
7-5	1500	75
7-5	1500	75
7-10	1500	74
7-11	1500	75
7-12	1500	74
7-13	1500	75
7-14	1500	75
7-17	1500	74
• 7-18	1500	75
7-20	1500	74
7-21	1500	74
7-24	1500	75

I, Arthur J. Sperber, make the following written statement to Mr. James Foster, who has identified himself to me as an Investigation Specialist of the NRC. I understand that I do not have to make a statement, and that any statement I do make may be utilized in legal proceedings.

I am Project Manager for U. S. Testing at the Marble Hill construction site, and have filled the position of Site Manager at various times.

When I first worked as Site Manager at Marble Hill, U. S. Testing facilities consisted of a trailer and small house (trailer located next to house). A concrete cylinder curing room was located in the trailer and house basement, and I initially found that temperatures were not being monitored. This condition was noted and a nonconformance report issued by Public Service of Indiana. In response to this report, I instituted a temperature log.

Mr. Foster has advised me, and I have been read from a transcript that Mr. James Henry, Jr. has stated that I requested him to enter, or initial as correct, missed temperature readings (falsify) into this log. I never ordered or requested Mr. Henry to enter any such information into the curing room log.

I was not aware of any missed temperature readings for this log or any "penciled-in" or falsified readings in the log.

My evaluation of the basement of the small house indicated that it maintained a stable temperature within requirements without regulation.

EXHIBIT IX

Page 1 of 2

On some occasions, the mist pump did lose its prime, and had to be reprimed. However, concrete cylinders did not, to the best of my knowledge, become "bone-dry" nor were they subjected to high temperatures.

I am unaware of any falsification of the fly ash sampling log, but was aware that some test frequencies were missed during an individual's employment. I believed that these missed samples had been properly identified and dispatched.

I have read this statement, consisting of two typed pages, and made corrections where necessary. It is a true statement to the best of my knowledge and belief.

Witness: /s/ James E. Foster Signed: /s/ Arthur J. Sperber Date: _____

/s/ F. C. Hawkins

State of Indiana }
County of ~~Madison~~ } 55

I, James Henry, of legal age & being duly sworn, state:

1. That I was employed by U.S. Testing Company on the Marble Hill site from March, 1978 till December, 1978.
 2. That I had occasion to advise NRC Region III investigator Gallagher of
 - 1) failure of Newbery to comply with contract specifications regarding concrete,
 - 2) use of improper rebar & techniques,
 - + 3) that U.S. Testing was using some untrained personnel, in mid to late 1978.
- Further affidavits sought.

James E. Henry Jr.

Subscribed & sworn to before me this 10th day of September, 1979.

By Commission Expires:
2-13-83

Thomas M. Dettler

Affidavit

State of Indiana

County of Jefferson SS:

I, James Henry, of legal age & being duly sworn, state:

1. That I was employed by U.S. Testing Company on the Marble Hill site from March, 1978 till December, 1978.

2. That I had occasion to advise NRC Region III investigator Gallagher of
1. Failure of Newberg to comply with written specifications regarding concrete,
2. Use of improper vibration techniques,
& 3. That U.S. Testing was using some untrained personnel, in mid to late 1978.

Further affiant sayeth not.

James E. Henry, Jr.

Subscribed + sworn to before me
this 1st day of September, 1979.

Thomas M. Dattilo

My commission expires:
2.13.83

300 7TH STREET, S.W., REPORTERS BUILDING, WASHINGTON, D.C. 20024 (202) 554 2345

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MR. FOSTER: Let's go back on the

record.

Q Okay, Jim, if we can kind of take up where we left off for lunch. In your interview by the FBI you mentioned that some of the methods used to place concrete you felt caused segregation.

A Yes, sir.

Q Could you give us some additional information on that?

A You are familiar with what the trimmie tube is?

Q Yes. And Frank is much more familiar than I am.

A Okay. I believe the specification reads that it is three feet, if I am not mistaken.

MR. HAWKINS: That is close enough.

A (Continuing) A combination of that and some of the forms were narrow, some of the walls. They would tend to pile up the concrete in the corners and then put the vibrators in at an angle in order to make it flow, as opposed to moving the trimmie unit in a steady rhythm from side to side in placing their courses.

Also there were times when you could observe, as I pointed out to Mr. Gallagher, the people that would have their vibrators in too long or that would

1 throw them, as opposed to moving from one place to the
2 other. In other words, they would just kind of pitch
3 them out and let them fall and then drag them in.

4 MR. HAWKINS: May I ask how far --
5 you mentioned the trimmies, or the end of the elephant
6 trunks. What height were they dropping the concrete out
7 of the end of the trunk?

8 WITNESS: I have seen people -- there
9 was usually one man assigned to the bottom or two,
10 depending upon how long the drop was, that sometimes
11 would have to reach above their heads to stand out.

12 MR. HAWKINS: We are talking about
13 a free fall of concrete unconfined. In other words, it
14 is not confined within the bounds of the elephant trunk
15 itself, it is a free fall higher than a man?

16 WITNESS: Yes, sir.

17 MR. HAWKINS: Did you, at times if
18 they were dropping it that far, did you identify what
19 you thought was segregation due to that height of drop?

20 WITNESS: Well, the paste in the
21 aggregate, when it would fall from that height, it would
22 strike the tie rods, some of the bars that went from side
23 to side, it would splatter. And sometimes the aggregate
24 would bounce out of the flow itself.

25 Q Okay. Other than that, was there

1 anything in the placing methods that would have caused
2 segregation or placing methods that caused problems?

3 A As I mentioned before, the -- zone
4 of the wall forms had the tie rods. It would have meant
5 picking the trimmie and the boom up and dropping it and
6 picking it up and dropping it in between these. Whereas
7 you could see it stay in one spot for -- in other words,
8 you couldn't hardly be placing a foot or two at a time.
9 And people would stick the vibrators in, make the pile
10 flow from one side to the other, and then pick the trimmie
11 up beyond it. In other words, it wouldn't go from this
12 slot up to the next slot. It would be picked up, moved
13 three, four slots, and then dropped back down and stay.

14 MR. HAWKINS: How far would you
15 judge that, on the average; if you remember any specifics,
16 what is the furthest you recall in actually slumping the
17 concrete or the -- in other words, from a pile -- between
18 piles, what is that distance?

19 WITNESS: Six to eight feet.

20 MR. HAWKINS: Six to eight feet?
21 How high were the piles?

22 WITNESS: It would depend, say for
23 instance, if they were pouring a slab, something that
24 wouldn't be two feet in its entire depth, they might have
25 a -- the concrete would collect in one corner, maybe four

1 feet.

2 MR. HAWKINS: In other words, twice
3 the depth of the slab they were pouring?

4 WITNESS: Yes, sir.

5 MR. HAWKINS: Do you remember any
6 specific instances where you saw that happen?

7 WITNESS: I can remember once that
8 I was standing on the edge of the hole. It was the same
9 day that the boom dropped on one of the Kreeter cranes.
10 Mr. Gallagher and I believe Dave Shuter were there. They
11 were observing the pour from the side. And our crane
12 was broken down. The operator was out of the crane itself,
13 and the boom dropped and fell on one of the lights that
14 they had on the edge.

15 MR. HAWKINS: Okay. So basically,
16 to summarize your concerns, if I understand them, they
17 are that they were piling concrete --

18 WITNESS: That they were placing
19 the concrete with the vibrator, as opposed to the placing
20 it with the trimmie.

21 MR. HAWKINS: But these piles that
22 you are referring to were on the average of six to eight
23 feet apart?

24 WITNESS: Yes, sir.

25 MR. HAWKINS: And then they would

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1 slump the piles together?

2 WITNESS: Yes, sir.

3 MR. HAWKINS: Okay. Would they --
4 did you observe then, did they go back and vibrate the
5 entire horizontal lift that was created by slumping the
6 two piles together?

7 WITNESS: I don't recall.

8 MR. HAWKINS: That is all I have
9 right now, Jim.

10 Q Okay. I want to come back to a
11 couple of points a little bit later on if I might.

12 A Another -- and I think this also
13 pertains to placement mentioned, foreign matter entering
14 some of the pours. I didn't fully understand that and I
15 hope you will be able to explain a little bit more fully.

16 A Well, sir, the stockpiles were
17 located on the ground by the batch plant. They weren't
18 situated on a pad of concrete. At times the operator
19 that would load the hoppers at the batch plant would scoop
20 too low into the pile. Sometimes pick up soil along with
21 the sand, the coarse aggregate. This would make its way
22 into the concrete and, as you probably know, soil and
23 concrete don't mix too well, and when it came out you
24 could see chunks of soil, especially when it went up the
25 belt from the hopper it would be washed out of the paste -

1 place on the joint; do you recall how long that was?

2 WITNESS: No, sir.

3 MR. HAWKINS: Did they -- were you
4 aware of them checking the vibrators or something of that
5 sort to see if they had actually obtained a cold joint?

6 WITNESS: No, sir.

7 MR. HAWKINS: Okay.

8 Q Okay. Since we are getting out of
9 the area on placing concrete, you mentioned speaking
10 with one of our inspectors. And I am very much interested
11 in getting some details on that.

12 A Are you speaking about Mr. Gallagher?

13 Q I believe so.

14 A Okay. From time to time, as you
15 know, the NRC would come out there and look around. Some-
16 times they would ask you questions. I believe I asked
17 more questions of them than they did of me. And I asked
18 Mr. Gallagher what he thought about this and that and the
19 other just to clarify a few things. I had asked the same
20 questions of Newburg and got answers and some of the
21 questions I put to PSI, and I got answers from them. I
22 merely wanted to see what the Nuclear Regulatory
23 Commission had to say about some of the things they were
24 doing.

25 Q Okay. Did Gene answer your questions

1 A He said that -- I talked to him for
2 a time and then I believe there was a Hawkins or Hockings,
3 possibly?

4 Q There is an inspector, Francis
5 Hawkins.

6 A With red hair?

7 Q Uh-huh.

8 A Okay. I asked him about the -- in
9 other words, was this an isolated case or did other
10 construction companies have this same kind of problems
11 that Newburg did.

12 Q Uh-huh. Do you recognize Mr. Hawkins?

13 A I don't know if I would or not.

14 Q This is Mr. Frank Hawkins by my side.

15 A How do you do?

16 MR. HAWKINS: Pretty good.

17 Q Okay. And what sort of responses
18 did you get from Mr. Gallagher?

19 A They said that most of it was noted
20 and that they had similar problems sometimes from one
21 plant to the other. That working conditions of the
22 testing labs were similar and that they weren't first as
23 far as considerations. In other words, you more or less
24 had to follow the pour and do whatever it was that they
25 wanted you to do, wherever it was, whether it was rain or

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1 shine, in a hole or in a flat spot, et cetera.
2 Q Okay. Were you unsatisfied with
3 his response?
4 A It was unsettling in that I knew
5 then that my position as an employee out there was really
6 insignificant and that there really wasn't a whole lot
7 that would be done about it.

8 Q Did you outline any specific
9 concerns to Mr. Gallagher?

10 A The thing about the vibration in the
11 concrete seemed to -- I guess he noted that. I think he
12 and Dave Shuter had discussions on it. The -- they were
13 spraying a -- I believe a curing agent on one particular
14 date. It was being done improperly. He made Mr. Shuter
15 aware of this.

16 Q Okay. I am not sure that I got an
17 answer to my question. Did you point out what you
18 believed were improper practices to Gene Gallagher?

19 A Yes, sir.

20 Q Okay. Specifically?

21 A The vibration, the cure boxes.

22 MR. HAWKINS: What about vibration?
23 Let's do them one at a time.

24 WITNESS: Okay. We were standing on
25 the edge of the hole and there was one fellow that was --

1 had a vibrator and he was smoking a cigarette and the
2 vibrator had been in for maybe half a minute or so, and
3 he finally pulled it out and gave it a throw to another
4 spot. And I don't remember if he took down his hat number
5 or what, but it seemed to make a little bit of an impact
6 on him.

7 Q Uh-huh. Okay. Gene observed this
8 gentleman doing the vibration?

9 A Yes, sir.

10 Q All right. Did he respond to you
11 any way after that? Did he say he had looked at it, or
12 get back with you?

13 A I believe he made some sort of a
14 comment to that effect. In other words, he just didn't --
15 it didn't slide off of him. He did make -- he did see
16 the fellow doing it. We discussed mostly the thing with
17 Newburg, that Newburg and U. S. Testing just couldn't
18 seem to agree upon what was to be done, when it was to
19 be done. And that some of us were unsure as to what our
20 role was.

21 Q Okay. Now you mentioned cure boxes.
22 What kind of things did you talk about?

23 A The temperature, the availability,
24 that some of them were not as safe as they could be.

25 Q Okay. And did Mr. Gallagher talk to

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1 you about this, go take a look at them; what happened?

2 A We spoke briefly on it. He just kind
3 of came by and spoke with some of the people on the crew
4 and went on.

5 Q Okay. Were there any other things
6 that you discussed?

7 A If you are indeed MR. Hawkins, or
8 Hockings, whatever --

9 MR. HAWKINS: I have a driver's
10 license with me.

11 WITNESS: That won't be necessary.
12 You do remember possibly a conversation we had where we
13 were sitting literally in a hole, a gravel hole, and
14 testing --

15 MR. HAWKINS: I am trying to recall.
16 I -- lately I have thought that I am losing my mind. That
17 may be part of it. I really can't recall it. I am sorry.

18 WITNESS: You don't ever remember
19 speaking with me?

20 MR. HAWKINS: To be honest with you,
21 no. Was your hair longer then?

22 WITNESS: Oh, yeah.

23 MR. HAWKINS: I honestly don't. I
24 probably wouldn't recognize you anyway.

25 WITNESS: I had a beard also.

1 were never --

2 MR. HAWKINS: You have to remember
3 you are in a construction site too.

4 WITNESS: Well, I have been on one
5 or two, but never a nuclear site. And I found out when
6 I got there that just about everything was different.

7 MR. HAWKINS: I do recall what you
8 are saying now. And he didn't follow up?

9 WITNESS: Well, from time to time
10 we would -- at least we didn't have to move the cure boxes
11 and level them and didn't have to run around trying to tel
12 Newburg where they were and to bring them to us. General
13 they were delivered to where we were working. There would
14 be enough of them to contain all the cylinders we were
15 required to make.

16 Q Jim, do you recall if you spoke to
17 Mr. Hawkins and Mr. Gallagher on the same date?

18 A No. As I recall, I only spoke with
19 you once. Whereas Mr. Gallagher, it seemed that he was
20 out there several times.

21 Q Okay. Have you ever seen copies of
22 any of our inspection reports?

23 A No, sir.

24 Q Okay. So if there had been some
25 follow-up action on some of the things that you pointed

1 out you might not be aware of that?

2 A What kind of follow-up action are you
3 speaking of?

4 Q Well, if you don't receive a report
5 you may not know what an inspector leaves as an open item
6 or notes as an item of non-compliance.

7 A Well, I was aware that at one point
8 there were, I think a 100 non-conformances in one particu-
9 lar category at one time. I don't remember if that was a
10 cumulative or whatever.

11 MR. HAWKINS: I believe you are
12 referring to licensee non-conformances --

13 WITNESS: That is possible.

14 MR. HAWKINS: -- or PSI non-conformances
15 which are completely different from the non-compliances we
16 issue.

17 MR. FOSTER: There will be in a
18 typical nuclear project, hundreds and in some cases
19 thousands of non-conformance reports before the project
20 is completed, as a normal course of events.

21 WITNESS: Uh-huh.

22 Q Okay. In general, and of course
23 with Frank here also, were you disappointed in the response
24 of the NRC inspectors?

25 A Well, I guess it was not so much

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1 disappointed in your performance as it was the -- what I
2 am saying is that when the NRC would come around it was
3 more like when OSHA came around. People would clean up
4 the walkways for a time and the trash barrels and skip pans
5 would be seen flying back and forth. The crane operators
6 would shim their booms before they went to lunch, et
7 cetera. And then when it was over things pretty much
8 went back to normal.

9
10 There were a lot of things that I
11 brought up to PSI. And I really didn't see a notable
12 change in the attitude of Newburg, and with their coopera-
13 tion with us. But to tell you the truth, I can't under-
14 stand, with the many things that I saw out there, why it
15 is that I didn't hear more about what the NRC was doing.
16 In other words, I didn't feel the effects there. My
17 company, for instance, in my estimation, had a lot of
18 people working that didn't have any prior testing experien-
19 whatsoever. Some of us didn't have any prior construction
20 experience. And yet they turned them loose to perform
21 tests, et cetera. And it kind of made me wonder why that
22 would be allowed and yet why I would have such a difficult
23 time in obtaining a Level 2, even though I was doing a
24 Level 2's work. See what I am saying?

25 Q All right. And I am certainly not
here to justify anything the licensee or U. S. Testing has

1 done, but since we are talking about things in general
2 terms, I think that we somewhat expect that, as a typical
3 inspector, when people are aware that we are coming they
4 will try and, by human nature, put on a good showing
5 while the inspector is there. I would logically expect
6 such a thing.

7
8 Someone who was not in the stream
9 of our reports and discussion with management might well
10 not be aware of any of our impact other than seeing us
11 on site every once in a while. And at least one of our
12 findings for the site was that in many cases things that
13 were identified, it took some time to have them rectified.
14 So I understand what you are saying.

15 Is there anything else concerning
16 your discussions with NRC inspectors that you wanted to
17 talk to me about?

18 A In what area? Or just in any area?

19 Q Any area you have in mind.

20 A I suppose my main question to you now
21 since I do have this opportunity, is why is it that your
22 being there was so brief, and that you didn't manage to -
23 for instance, did you ever see the old laboratory while it
24 was in operation?

25 Q Okay. Perhaps I will take a second
to explain. I am not an inspector, Jim. I am an

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1 are -- what that location was referred to.

2 Q Okay. My understanding is that is
3 a wall rather than a column.

4 A Yes, sir.

5 Q Okay. All right. Fine.

6 MR. FOSTER: Do you want to address
7 that now?

8 MR. HAWKINS: Why don't we take a
9 break?

10 MR. FOSTER: Okay. That sounds like
11 a good . . . Please, if we may, off the record.

12 [Whereupon, a short recess was had.]

13 * * * * *

14
15 [Following the recess, the appearance
16 being the same as heretofore, the
17 interview resumed, as follows:]

18 MR. FOSTER: Back on the record if we
19 can.

20 Q Jim, let me, if I may, make -- be
21 certain that we have any and all information about concern
22 that you have passed on the NRC inspectors.

23 I guess my impression was that we had
24 covered any information you might have, but I want to make
25 doubly sure that we don't miss anything during this

1 opportunity.

2 So I ask you again if there is some
3 question I haven't asked you, some piece of information
4 concerning your contact with the NRC inspectors, that you
5 describe it to me now.

6 A As I said before, I discussed things
7 that were happening that day. Things that bothered me
8 personally about my particular job and the job that
9 Newburg was doing. And I just wanted to verify, to get
10 a third opinion, to see if I was as dense as I was led to
11 believe. And that was more or less the reason I was
12 asking the questions that I did.

13 As far as -- the major matters I
14 was concerned with, I didn't see a lot of change in
15 Newburg. And up until the time I left there were still
16 mistakes that were made from time to time.

17 Q Okay.

18 A Still things that happened. And
19 right now I guess my only question is the things like the
20 logs for tinsel steel. It always struck me as funny
21 that no one ever had a retest failure. And the possibility
22 if I was -- this is just conjecture, of course, but if I
23 were manufacturing rebar and trying to sell as much as
24 possible, and making it as best I could for the amount of
25 money that I was being paid, and I had a test failure for

1 one heat, it seems like I could go back and look and see
2 what other heat did well, and maybe introduce that as a
3 sample. Because it always struck me as funny, as things
4 would consistently break --

5 Q Okay, Jim.

6 A -- until the retest, and then
7 everything would be fine.

8 Q If we may, and if there is more that
9 needs to be discussed on that, let us get back to it
10 sometime in the future.

11 A Fine.

12 Q I had one question concerning the
13 contact with the NRC inspectors, and I don't really see
14 much reference to it either in the transcript of your
15 sworn statement to Mr. Dattilo, the transcript of interview
16 with Mr. Joel Deckard, or the record of interview produced
17 by the FBI.

18 Have we been provided with all of
19 the statements that you have made concerning NRC inspectors?

20 A As far as I know.

21 Q Okay. Shall we proceed on to 521?

22 W. HAWKINS: Sounds like a good idea
23 to me.

24 Q All right. In all of the various
25 transcripts of interview with you there is a good deal of

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I think that about concludes the points that I wanted to cover. I wanted to make available to you some time on the record to cover any points that for some reason we may have not gleaned from the various statements and transcripts. Perhaps other policies or procedures by U. S. Testing that you had concerns about and that we have not otherwise covered.

A There was a letter that we received after one of your visits, from Dave Shuter, that stated that the lab was gam up and that they had presented no findings. This disturbed me to some degree, as there were at any given time things that could have been found. I don't think it is really a matter of the technicians being totally at fault and irresponsible. I don't mean to say that at all. It is just that there are -- there were times when there was chaos. Especially in the time we were moving from one place to the other. And as I said before, we were in a constant state of changing personnel and being shuffled from one job area to another. And -- that is -- that is about it.

Q Okay. I believe -- and I hope you will correct me if I am wrong -- that this letter was included as one of the documents in the package that Mr. Deckard had.

A That is correct.

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Q And I have seen that letter. It was very short. Congratulating Mr. Lanham on having weathered an NRC inspection, basically.

A Yes. It was identified 0912785004. And I have a note here that says, "This reply would indicate that either the NRC didn't know about problems at 1036, or these problems were not reported to them by the proper supervisory personnel."

MR. HAWKINS: I was in the exit meeting. In fact, Gene Gallagher and I were the ones that made that comment. And I believe our precise comment to the licensee at that time was that we saw substantial improvement from the time -- from previous -- well, from previous conditions of the laboratory. So we did see substantial improvement. That is the truth. And we made that statement. In the areas that we looked at we saw no problems that we felt were substantial enough at that time to warrant any escalated enforcement action. Not escalated, but any enforcement action on our part.

WITNESS: At any time did -- upon any of your visits, either by yourself or Mr. Gallagher or any of the other NRC individuals that did come by from time to time, at any time do you know if Darryl Lanham himself, did in fact bring forward discrepancies about the company that we worked for or possibly intercompany

1 discrepancies?

2 MR. HAWKINS: Not that I am aware of.
3 I can only speak for myself.

4 WITNESS: Yes, sir.

5 MR. DATTILO: Is it your opinion,
6 Mr. Hawkins --

7 MR. FOSTER: I would have to review
8 the file before --

9 WITNESS: I was just curious, really.

10 MR. DATTILO: Is it your opinion,
11 Mr. Hawkins, that from, say approximately July of '78,
12 that there was improvement in the vibrating techniques
13 of the Newburg workers?

14 MR. HAWKINS: I don't see how it
15 would be possible for me to address that because I didn't
16 even work with the -- for the NRC until September or late
17 August of '78.

18 MR. DATTILO: So then that was Mr.
19 Gallagher?

20 MR. HAWKINS: It must have been. We
21 weren't referring to vibrating techniques of Newburg. We
22 were referring to testing methods and equipment and
23 personnel at U. S. Testing, which was completely separate
24 from Newburg.

25 MR. DATTILO: Well, is it correct

1 that -- or do you have information that the Office of
2 Inspection and Enforcement with Region III, that you knew
3 of the improper vibrating techniques going on at Marble
4 Hill by the Newburg workers in the summer of '78?

5 MR. FOSTER: Tom, I am going to have
6 to refer you to the inspection reports for that period
7 of time. Beginning, I believe, with 7802, which are down
8 in the public document room. And while not wanting to
9 be rude, I can't answer your question personally. Not
10 even having been associated with the site, and I really
11 would like to, if possible, get more information from Mr.
12 Henry, if we have missed any.

13 MR. DATTILO: Well, no, I do believe
14 that this goes along with your original questions concerning
15 Mr. Gallagher. That is why I think it is important. I
16 believe that you may find that Mr. Kepler has sent a
17 letter to my office with regard to this matter, admitting
18 that the NRC was knowledgeable of the problems in vibrating
19 And my only question was, I had assumed that Mr. Hawkins
20 was available along with Mr. Gallagher in the summer of
21 1978. If he wasn't, then certainly he would have a
22 problem in answering that question. Possibly it would be
23 more properly directed to Mr. Gallagher.

24 MR. HAWKINS: Your question, when it
25 is addressed to me, I am afraid is out of line, since I

1 was working for a private corporation at that time.

2 MR. DATTILO: Possibly. But you did
3 deal with Mr. Henry at one time or another at a different
4 time other than the summer of 1978?

5 MR. HAWKINS: Yes.

6 MR. DATTILO: Okay. I don't have
7 any other questions.

8 MR. HAWKINS: So he says.

9 MR. DATTILO: At least you remember
10 the content of the discussion. Thank you.

11 MR. HAWKINS: Sure.

12 MR. DATTILO: Thank you for having
13 this here in Louisville.

14 MR. FOSTER: Before we close, Jim,
15 was there anything else?

16 WITNESS: No. I would just like to,
17 for my own information, and make sure that I did, in fact,
18 speak with an NRC inspector named Hawkins or Hockings at
19 one time in the field. And that I did speak with a Mr.
20 Gallagher at some time when I worked out there. I can't
21 be completely specific about which day it was, but as far
22 as Mr. Hawkins, I can specifically show him on your
23 exhibit there, I think, where the conversation took place.

24 MR. FOSTER: That is fine. I have
25 been with the NRC Region III office for some four some odd

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1 years and Mr. Frank Hawkins is the only gentleman with a
2 last name even vaguely similar to that that I have ever
3 been acquainted with. This has to be he.

4 WITNESS: Yes, sir.

5 MR. POSTER: Okay. I do have with
6 me, and either this evening or tomorrow, and I will make
7 the choice yours, I am at your disposal. I have the
8 concrete break sheets that were generated during your
9 employment with U.S.T. And we will also be available
10 for any other discussion you want to have with us.

11 For the sake of the economy, I would
12 like to close the record of the statement and interview
13 under oath at this time, if you don't have anything else
14 that you wish to discuss with us on the record.

15 WITNESS: I believe that is all.

16 MR. POSTER: All right. Please let
17 the record be closed.

18 [Witness excused.]

19
20 [THE TIME BEING 5:00 P.M., THE RECORD WAS CLOSED.]

21 * * * * *

22
23 [REPORTER'S NOTE: The exhibits
24 referred to throughout the interview,
25 as Exhibits #1 through #9, are
attached hereto and made a part
hereof.]

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PROPOSED ACTIONS TO BE TAKEN BY PSI IN RESPONSE TO UST PERSONNEL CONCERNS

1. PSI QC inspectors will stay with Cat. I concrete placements until they are complete.
2. PSI to give UST authority to reject concrete and to witness N-MH adding water to the concrete.

This item has been taken under advisement. However for the time being, PSI Construction will make every effort to have field engineers available at the Cat. II concrete placements to better coordinate N-MH's work.

3. PSI to request that N-MH install field tile drainage under the fine aggregate storage pile.
4. PSI to request that N-MH maintain a water spray continuously over the coarse aggregate pile during concrete production.

The water spray problem may stem from a shortage of construction water currently available. Therefore, spraying water during the day may not be feasible at this time but will be pursued as soon as possible.

5. PSI will meet with UST and N-MH to discuss segregation in the coarse aggregate storage pile.
6. PSI will expedite issuance of a letter concerning information needed by UST for concrete placements (i.e., Cat. I or Cat. II, freeze-thaw required, and massive, moderately massive or thin section).
7. PSI QC will plot daily and incoming coarse aggregate gradation test results to establish trends.
8. UST-personnel in batch plant and lab are to better coordinate information concerning FM test results on fine aggregate.
9. PSI QC to review N-MH track record pertaining to estimating concrete placement yardages and have N-MH take appropriate actions as necessary.
10. Problems encountered by UST personnel on Cat. II work are to be brought directly to the attention of Bill Muensterran. Cat. I problems are to be brought directly to the attention of Dave Shuter.

If UST has any problems that are reported to PSI to which they do not feel adequate attention has been given, they should report these conditions to Bob Peterson or Dick Brown. UST problems should be reported to PSI as soon as possible.

11. PSI QC to review status of existing cure boxes on site and stay on
12. PSI QC to plot initial curing temperature versus cylinder compressive strength to verify that initial curing temperature has not had an adverse effect on concrete strength.

13. John Coffman, Dave Shuter and Project Construction Group representatives are to meet with Jim, Ken and Russell of UST to further discuss concrete problems.
14. PSI to inform N-NEH that N-NEH is responsible for placing ice in the cure boxes, not UST.
15. PSI Construction to avoid signing off on concrete placement notifications until cure boxes and UST personnel are present. PSI QC to do this on Cat. 1 pours.
16. PSI Construction to be more cooperative in aiding UST to determine elevations of soils work and backfill.
17. PSI Construction to contact N-NEH about first aid on night shifts.
18. PSI QC to discuss with UST management the possibility of having first aid training for UST personnel on site.

RSP/vrh
8-7-78

Q: James Foster and Francis Hawkins performing an interview with Individual "H" of the Marble Hill site. Today's date is July 9, 1980. I am interviewing Individual "H" concerning a test that was performed at the United States Testing Laboratory to determine the maximum amplitude of the relative density table. I would like to ask you to make a sworn statement in this regard. Is that acceptable?

A: Yes.

Q: I will ask you to raise your right hand. Do you swear that the information you are about to provide is true and correct to the best of your knowledge and belief?

A: Yes, sir, I do.

Q: Okay, thank you. Individual "H", you and I have been discussing a test form and a resultant graph that was made by personnel in U.S. Testing and we have been discussing some anomalies in the form and in the resulting graph. I wonder if you would go through the points that we have been discussing about the test form and the graphs.

A: Point 1 is that the test wasn't begun in the 80's; it was begun somewhere in the 70's. According to the test, it was started at 82.

EXHIBIT XIII

1 of 4

Q: By the 70's you are speaking to the rheostat setting on the relative density table?

A: Yes, sir.

Q: Thank you.

A: Okay, and the results on a maximum amplitude - there would have been more than four test points on the form to determine amplitude.

Q: So the form that has been submitted to PSI has four test points and you believe that there were more than these four test points performed?

A: There should have been.

Q: From what you have said, do you recall performing more than four test points?

A: Yes, I do.

Q: Can you tell me what happened after you had provided your initial test results to Mr. Lanham ?

A: He advised me that there were some mathematical errors and that he had to make adjustments for them.

EXHIBIT XIII

2 of 4

Q: Did he describe the nature of these errors or adjustments?

The figures that are the sheet that was provided the PSI as part of the formal record, are these to your recollection, the results from your test?

A: No sir.

Q: The signature on the document - is this your signature?

A: It's my name, but not my signature.

Q: Have you discussed this piece of paper with Mr. Lanham?

A: No sir, I have not.

Q: The graph that was generated on the basis of the test results in the sheet we are discussing, does it appear as the rough draft that you indicated you generated when you finished your test?

A: It would not have indicated whether my figures were no.

Q: On your best recollection, what was the optimum rheostat setting that you established in your test results?

A: In the high 70's, low 80's - very low 80's.

EXHIBIT XIII

3 of 4

Q: Are there any other details concerning this test form and graph that you want to bring out?

A: No.

Q: I will close this sworn statement then. Thank you very much.

EXHIBIT XIII

4 of 4

Q: This is James Foster of the NRC interviewing Mr. Darrel Lanham of the United States Testing Company at the Marble Hill site with Mr. Francis Hawkins present. Today's date is July 9, 1980. Darrel, I would like to ask you to make a sworn statement in regard to some tests of the lab that we have been discussing. Is this acceptable with you?

A: Yes, it is.

Q: Darrell, if you would please, raise your right hand. I swear that the information which I am about to provide is truthful and accurate to the best of my knowledge and belief.

A: I swear that the statement and the information that I am about to provide is truthful to the best of my knowledge and belief.

Q: Okay, Darrell we have been discussing some tests that were done on the relative density table at the United States Testing Lab, both some old tests and some tests that are reasonably recent, and we have been discussing in particular some tests to determine the maximum amplitude, the most optimum rheostat setting on the relative density table, and I would like to go over some of the points that we have been discussing. For the original set-up of the relative density table, what rheostat setting was used?

A: As best as I can remember the rheostat setting was about 100.

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Q: And when was this changed?

A: It was changed after Dave Shuter checked our table and thought that the table was not working to its best ability and wrote an FNR No. 45 and we responded to it by running a series of tests on the table to try to establish a maximum amplitude.

Q: And you and I have been discussing the documents found in PSI's file number FNR-45 which include your answer to FNR-45 and a second test and letter, sheet of paper, however it be characterized, that the company did. We have been particularly discussing this second test, and I wonder if you would please, in your own words, tell me the background of this second test?

A: The second test was run basically for my own information. I was interested in seeing what the difference would be, if any, in the maximum amplitude settings in the old lab that we were in to the new lab. Individual "H" was the technician that ran the test and gave me the information. At that time when I looked at his results and compared it to the graph that we had already made up for the response to the FNR, I was that the weights or the densities were much lower than the ones that I had on that graph. I was interested at that time to see what the curve was in relation to - the two curves - compare them to see how they how they fit together with - to see what kind of a sine curve I was going to get and so I took

EXHIBIT XIV

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the information that he had given me and adjusted the weights of the density, dry densities, up to approximately the same weights as I have in the response to the FNB.

Q: Darrell, were you ever - do you have or have you been able to locate any of Individual "H's" original test results?

A: No I have not. The original test results that I had used that he had given me, I had scribbled on so much that I just threw it away because it was not really of any importance to me.

Q: Do you recall how many test points were on the test that Mr. Morris did?

A: There would have to be four or six. I guess just four. Yes, four points.

Q: You mentioned that you adjusted the densities of the results that Individual "H" provided. What was the reason for this?

A: I thought at that time that - to be able to accurately compare the two curves on the graph that I would have to have approximately the same density ranges, but that was because of my ignorance of the subject at that time. Now I realize that I didn't have to adjust it to be able to do it.

Q: How did you do this adjustment?

A: I recalculated the figures that were on the original report to try to get approximately the same percentage over the four points to raise it up to meet the other curve and it involved adjusting the whole information that we have here, except for the initial dial readings.

Q: If I can, I would like to refer to the test paper as Exhibit A to this statement and the graph following it as Exhibit B. Looking at the graph which was generated on the basis of the test results, when you did your adjustments, did you change any of the numbers for the thermostat setting?

A: No I didn't.

Q: This curve, however, is adjusted upward on the basis of the adjustments you made to the densities?

A: That's right.

Q: What was the purpose of this test overall? Was this to be submitted?

A: Not originally. It was original for my own information. I was interested in comparing the two curves to see if there was any difference in the fluctuation of the electricity that would make a difference in the sine wave.

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Q: As a result of your adjustment of the final densities, are any of the numbers reflecting dial readings, average dial reading, initial dial, height, volume change - are these actually measured numbers?

A: No, they weren't measured numbers - they were calculated.

Q: The signature that indicates Individual "H" down at the bottom of the page, is that his signature?

A: No, I wrote his name on there to identify who ran the tests.

Q: Following that, the signature of the Level II technician, is that an actual signature?

A: Yes, it is an actual signature.

Q: The signature of yourself, Mr. D. Lanham, I note that that is done in a different pen than was used to make Individual "H's" signature. Is there a particular reason for this?

A: They were done at different times.

Q: Okay, Mr. Hawkins, does anything come to mind that I haven't covered?

EXHIBIT XIV

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Q: Would you explain to me the sequence of events where you asked Individual "H" to sign this piece of paper?

A: After I had adjusted the weights and everything to it and came up with the curve that I wanted that would combine the two curves together, I took it back to him and asked if he would sign it and he refused to sign it because they were not his figures or his writing and I tried to explain to him at that time that it was for my own information, but he would not listen to what I was saying. He was, I guess, angry with me because I had changed it. That is just an assumption, okay? But he refused to sign it.

Q: I see. Whether from adjusted figures or not, does the test report and graph accurately portray the optimum rheostat setting that was found from this test?

A: Yes, it does. The rheostat setting - the actual point, 85.4, I cannot attest to, but I do know that it was around 85. Okay?

Q: We have been given information that there was another test reflecting an optimum rheostat setting somewhere in the high 70's. You have shown me another test which indicates results in this area. Can you give me some information on it? Let's make this Exhibit (C) to the statement, please.

EXHIBIT XIV

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A: Okay, this test was also run by Individual "H". It's on 33 stone, and the maximum amplitude on this material came up to be about 79. - something - I am not really sure - but we called it 80. But it was in the high 70's, the actual reading, so our rheostat settings only have one increment. They don't have the sub increment, so we had called it 80.

Q: Does this mean that when doing a relative density test on 33 stone you would use a different rheostat setting?

A: Yes, you would use 81.

Q: And for the number 53 stone?

A: At this time we would use 88, because of the lab results that we have, then we used 85.

Q: The 88 number is based on recent tests?

A: Yes, we have done three recent tests, one last night, one on March 29, 1980, and one on June 16, 1980 and they all came out 88.

Q: In your opinion, the test which reflects an optimum rheostat setting in the high 70's, would that be the one reflecting tests on No. 33 stone?

A: There is a very good possibility because of the fact that there was confusion about this test on the 33 stone. My present lab chief thought that this was 53 stone test and then last week we had a discussion about this test and who checked into the logs and it was found to be 33 stone, not 53 stone. She was concerned that we had been running the relative density tests at 85 all this time and she thought it was 79, so then we checked it and it was not 53, it was 33 stone.

Q: So there was some misunderstanding that an earlier test on 53 stone indicated the rheostat setting in the 70's?

A: That's right.

Q: All right. Mr. Hawkins, any questions? Okay, Mr. Lanham, thank you very much. I will close this statement now.

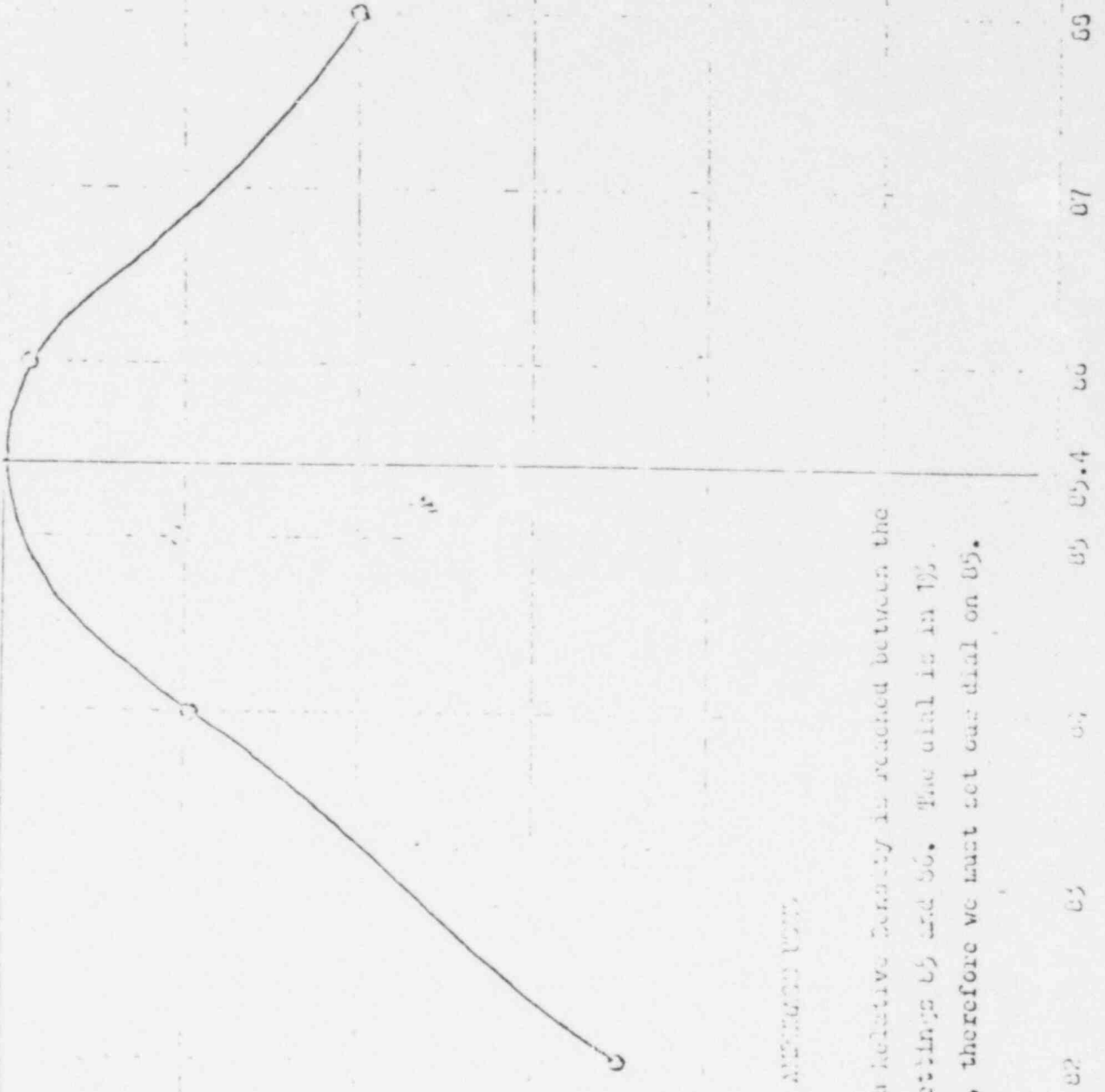


FIGURE 10 - APPROXIMATE VALUES

The Maximum Relative Sensitivity is reached between the theoretical settings 05 and 06. The dial is in 1/2 increments, therefore we must set our dial on 05.

33 stone

DATE 4/12/79

Date 4/12/79

PROJECT: WOODRIDGE HILL N.G.S. AUTH. NO. NA
 SAMPLE LOCATION: A10 T1 No. 1-A C-10-10 SPECIAL

MOISTURE DENSITY

Trial No.			1	2	3	4
Weight, lb	Mold (tare) and soil, dry	W ₁	57.05	56.89	58.15	56.98
	Mold (tare)	W _m	20.00	20.00	20.00	20.00
	Soil, dry	W _s	37.05	36.89	38.15	36.98
Max dry density (lb/cu ft) = W _s /V		γ _d	74.40	74.08	73.61	-
Max dry density, average						

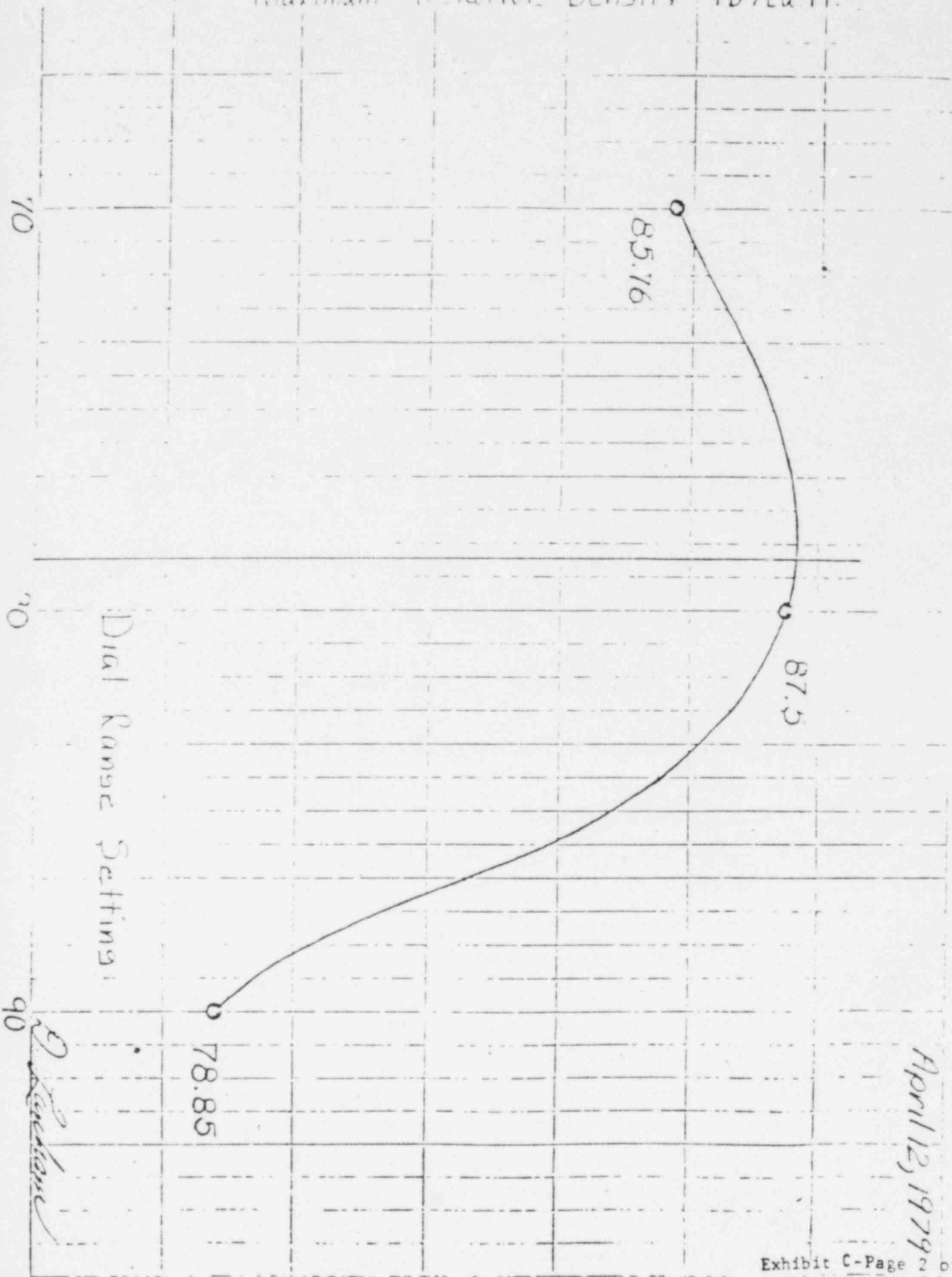
"WATTS" DENSITY

			70	78	80	90
Compaction Method						
Trial No.			1	2	3	4
Height, in	Water height	H ₁	0.583	0.25	0.691	-
	Soil height	H ₂	0.751	0.53	0.777	-
	Water height = H ₁ - H ₂	H ₁₂	0.667	0.39	0.34	-
	Water volume	V ₁	1.858	0.58	0.58	-
	Water volume = V ₁ - V ₂	ΔV	1.191	0.819	0.74	-
Vol., cu ft	Vol. = (π/4) × D ² × H ₁	ΔV	0.066	0.045	0.052	0.059
	Vol. = (π/4) × D ² × H ₂	V	0.432	0.453	0.436	0.464
Weight, lb	Mold (tare) and soil, dry	W	57.05	56.89	58.15	56.98
	Mold (tare)	W _m	20.00	20.00	20.00	20.00
	Soil, dry	W _s	37.05	36.89	38.15	36.98
Max dry density (lb/cu ft) = W _s /V		γ _d	85.76	81.43	87.50	79.25
Max dry density, average						

CLASSIFICATION		EQUIPMENT	I.D. NO.	CALIBRATION
MOLD				
DIAMETER	10.49	R.D. TASC & Equipment Scales	228.6	4-6-80
VOLUME	VM 0.448		271.0	6-1-8-79
WEIGHT	WM 20.00 lbs			
END AREA	AM 0.66 ft ²			

SOILS TECHNICIAN: Dean Mason Date: 4/17/79
 LEVEL II TECHNICIAN: James P. Cole Date: 4-13-79
 COP-10.3 (6/78) SITE PROJECT SUPERVISOR: James P. Cole Date: 4-13-79

Maximum Relative Density 1b/cu ft.



April 12, 1979



RELATIVE DENSITY ASTM 2049

Minimum and Maximum Density Determinations

Date 4/12/79

Project MARBLE HILL N.G.S. (1036)

WK. AUTH. NO. NA

Sample Location Acid Tanks Unit No. 0/A

Sample No. SPECIAL

MINIMUM DENSITY

Trial No.			1	2	3	4
Weight, lb	Mold (or tare) and soil dry	W	59.15	58.22	57.63	
	Mold (or tare)	W _m	20.00	20.00	20.00	
	Soil, dry	W _s	39.15	38.22	37.63	
Min dry density, lb/cu ft = W/V		γ _c	78.61	76.75	75.56	
Min dry density, average			lb/cu ft			

MAXIMUM DENSITY

Mold No.			82	84	86	
Condition of surface			Over-dried		moisture	
Trial No.			1	2	3	4
Height, in	Initial reading	h ₁	1.521	1.144	1.299	
	Final reading	h ₂	1.434	1.151	1.207	
	Average soil = (h ₁ + h ₂) / 2	h _{avg}	1.478	1.148	1.253	
	Initial reading	h ₀	1.858	1.858	1.858	
	Height change = h ₀ - h _{avg}	Δh	0.380	0.710	0.605	
Vol., cu ft	Volume change = (2 h 22) x Δh	ΔV	0.021	0.039	0.033	
	Volume of soil = V _m - ΔV	V	0.477	0.459	0.465	
Weight, lb	Mold (or tare) and soil dry	W	59.15	58.22	57.63	
	Mold (or tare)	W _m	20.00	20.00	20.00	
	Soil, dry	W _s	39.15	38.22	37.63	
Max dry density, lb/cu ft = W _s /V		γ _c	82.08	83.27	80.92	
Max dry density, average			lb/cu ft			

CLASSIFICATION

MOLD		EQUIPMENT	T.D. NO.	CAL. EXP. DATE
DIAMETER	10.99	R.D. TABLE & Equipment SCALES	228.6	4-6-80
VOLUME	V _M 0.498		271.0	6-28-79
WEIGHT	W _M 20.00			
END AREA	A _M 0.66 ft ²			

SOILS TECHNICIAN
LEVEL II TECHNICIAN

Deann Morris
James E. Kelly

Date 4/12/79

Date 4-13-79

CCP-10.3 (8/78)

SITE PROJECT SUPERVISOR

John L. ...

Date 4/12/79

April 12, 1979



The dial range setting that will be used on this material is (80)

Dial Range Settings

D. Latham

78 79 80 81 82 83 84

CURING ROOM TEMPERATURE LOG

DATE	time	high	low	actual	init.
9-23-78		Saturday			
9-24-78		Sunday			
9-25-78	1500	80	70	76	IC/RB
9-26-78	1000	75	72	73	IC/RB
9-27-78	0900	73	73	73	IC/RB
9-28-78	1300	74	73	74	IC/RB
9-29-78	1200	74	71	72	IC/RB
9-30-78		Saturday			
10-1-78		Sunday			
10-2-78	1300	74	69	69	IC/RB
10-3-78	1000	72	72	72	IC/RB
10-4-78	1300	72	72	72	IC/RB
10-5-78	0900	74	72	72	IC/RB
10-6-78	1130	74	71	72	IC/RB
10-7-78		Saturday			
10-8-78		Sunday			
10-9-78	1300	74	69	70	IC/RB
10-10-78	1000	72	70	72	IC/RB
10-11-78	1300	72	70	72	IC/RB
10-12-78	1300	74	69	74	IC/RB
10-13-78	1000	74	72	72	IC/RB
10-14-78		Saturday			
10-15-78		Sunday			
10-16-78	1300	74	69	69	IC/RB
10-17-78	1300	69	69	69	IC/RB
10-18-78	1300	69	69	69	IC/RB
10-19-78	1000	70	69	70	IC/RB

CURING ROOM TEMPERATURE LOG

DATE	TIME	high	low	actual	INIT.
8-27-78	1000	SUNDAY			
8-28-78	0900 1000	76	72	74	IC/RB
8-29-78	0900	74	72	74	IC/RB
8-30-78	0700	75	72	74	IC/DL
8-31-78	0800	76	72	74	IC/DL
9-1-78	0830	74	72	72	IC/DL
9-2-78	0700	72	70	72	IC/DL
9-3-78	0700	73	72	72	IC/JDL
9-4-78	0700	74	70	73	IC/JEH
9-5-78	0730	76	70	74	IC/DL
9-6-78	0900	76	72	72	IC/DL
9-7-78	0800	74	70	70	IC/RB
9-8-78	0800	74	70	70	IC/RB
9-9-78	1200	72	70	70	IC/RB
9-10-78		SUNDAY			
9-11-78	1000	80	69	78	IC/RB
9-12-78	1000	82	70	79	IC/RB
9-13-78	0800	80	70	76	IC/RB
9-14-78	1145	76	74	74	IC/RB
9-15-78	1200	74	72	72	IC/RB
9-16-78	1300	74	74	74	IC/RB
9-17-78		SUNDAY			
9-18-78	1300	74	74	74	IC/RB
9-19-78	1700	74	74	74	IC/RB
9-20-78	1500	74	74	74	IC/RB
9-21-78	1300	74	74	74	IC/RB
9-22-78	1300	74	72	72	IC/RB