

FOSHEE & TURNER COURT REPORTERS

IN THE UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF ALABAMA
EASTERN DIVISION

WALTER OWENS, et al.,)
Plaintiffs,)
vs.) CIVIL ACTION NO.
CV-P-440-E
MONSANTO COMPANY,)
Defendant.)

COPY

DEPOSITION OF: DOUG RICH

In accordance with Rule 5 (d) of The
Alabama Rules of Civil Procedure, as Amended,
effective May 15, 1988, I, TAMMY JENNINGS
GREGORY, am hereby delivering to MS. LAURA RUTH
the original transcript of the oral testimony
taken on the 2nd day of November, 1999, along
with exhibits.

Please be advised that this is the same and
not retained by the court reporter, nor filed

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1 with the Court.

2 The deposition of Doug Rich was taken
3 before Tammy R. Jennings Gregory, commencing at
4 2:00 P.M. on the 2nd day of November, 1999, by
5 the Plaintiffs, at the law offices of Fite &
6 Miller, Anniston, Alabama pursuant to the
7 stipulations set forth herein.
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Tammy R. Jennings Gregory

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S T I P U L A T I O N S

IT IS STIPULATED AND AGREED by and between the parties through their respective counsel that the deposition of Doug Rich may be taken before Tammy R. Jennings Gregory, at the law offices of Fite & Miller, Anniston, Alabama on the 2nd day of November, 1999.

IT IS FURTHER STIPULATED AND AGREED that the signature to and the reading of the deposition by the witness is waived, the deposition to have the same force and effect as if full compliance had been had with all laws and rules of court relating to the taking of depositions.

IT IS FURTHER STIPULATED AND AGREED that it shall not be necessary for any objections to be made by counsel to any questions, except as to form or leading questions, and that counsel for

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1 the parties may make objections and assign
2 grounds at the time of trial or at the time said
3 deposition is offered in evidence or prior
4 thereto.

5
6
7 IT IS FURTHER STIPULATED AND AGREED that
8 the notice of filing of the deposition is waived.
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1 STATE OF ALABAMA, CITY OF ANNISTON,

2 NOVEMBER 2, 1999,

3 2:00 P.M.,

4
5 DOUG RICH,

6 having been first duly sworn, was examined and
7 testified as follows:

8
9 COURT REPORTER: Usual stipulations
10 okay?

11 MS. RUTH: Yeah.

12 MR. PECK: Fine.

13
14 EXAMINATION BY MS. RUTH:

15 Q. Mr. Rich, have you ever given a deposition
16 before?

17 A. No.

18 Q. No. Okay. Well, then let me give you the
19 long version of this, I guess.

20 You understand that when you give
21 an oath, it's the same as giving an oath in
22 the courtroom, and that you're required to
23 tell the truth under perjury if you don't?

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1 A. (Witness nods head.)

2 Q. Okay. Great. Let's see. Why don't we start
3 out with -- I think we're going to start out
4 tracing your work history. Do you work for
5 Monsanto right now?

6 A. Uh-huh (indicating yes).

7 Q. When did you begin working for Monsanto?

8 A. 1965.

9 Q. 1965. And where, what department did you
10 start in in 1965?

11 A. Niran department or parathion.

12 Q. Same thing; right?

13 A. Yeah, same thing.

14 Q. What did you do in that department?

15 A. I was operator.

16 Q. How long did you stay in that department?

17 A. From June till October. I got laid off.

18 Q. And you got laid off?

19 A. Uh-huh (indicating yes).

20 MR. PECK: Doug, one other thing
21 you have to do is you have to answer yes and
22 no because the court reporter has a hard time
23 with huh-uh (indicating no) and uh-huh

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1 (indicating yes). Okay?

2 THE WITNESS: Okay.

3 MR. PECK: It happens to everybody,
4 but one of us will try to remind you.

5 Q. (By Ms. Ruth) Were you laid off because they
6 were downsizing at the time or things got
7 slow?

8 A. I was kind of vacation relief, and so when
9 the vacation period was over in October, they
10 laid me off.

11 Q. Basically vacation was summer time?

12 A. Right.

13 Q. And then you started back in --

14 A. -- February of '66.

15 Q. February of '66. What did you do in the
16 interim?

17 A. I had two small jobs. Worked at Anniston
18 Foundry, and then I went to work at the
19 Anniston Army Depot, and I was working there
20 when they called me back in February.

21 Q. So they gave you a call in February of '66
22 and asked you to come on back?

23 A. Uh-huh (indicating yes).

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1 Q. Where did you go in February of '66?

2 A. Aroclor department.

3 Q. Aroclor department. How long were you in the
4 aroclor department?

5 A. Until '72. I believe that's when they shut
6 it down.

7 Q. So you stayed there until they shut it down?

8 A. Yes, ma'am.

9 Q. We'll probably -- we're definitely going to
10 come back and talk about your time in the
11 aroclor department, but let's just finish
12 tracing your history up to date. Where did
13 you go in '72?

14 A. I went to the biphenyl department.

15 Q. Biphenyl department. We don't know much
16 about the biphenyl department either, so
17 you're the first one. You're going to have
18 to fill us in on that department.

19 How long were you in the biphenyl
20 department?

21 A. Let me think. Until 1979.

22 Q. 1979. Okay. And where did you go?

23 A. I went into the electrical department as

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1 electrician.

2 Q. I forgot to ask you. In the biphenyl
3 department, what did you do?

4 A. Operator.

5 Q. Operator. And you were an electrician after
6 that?

7 A. Yes, ma'am, for three years.

8 Q. Three years. Is that with maintenance?

9 A. Right.

10 Q. Maintenance. Now, did you -- I've heard some
11 idea that sometimes in maintenance, you were
12 divided among the south plant and the north
13 plant. Did you work all through the plant?

14 A. I was a shift electrician. I worked on my
15 off shift, so I worked the whole plant.

16 Q. Okay. And you were that for three years, so
17 brings us to about 1982?

18 A. No -- yeah, right, right. '82.

19 Q. What did you do starting in '82?

20 A. I went to the painter insulator group.

21 Q. Painter insulator?

22 A. Uh-huh (indicating yes), that's also in the
23 maintenance department.

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1 Q. Okay. And how long did you do that?

2 A. Until I believe it was 1985.

3 Q. 1985?

4 A. Yeah. I went to the P2S5 department then as
5 a chief operator.

6 Q. Okay. P2S5 is part of niran; is that right?

7 A. It was a department that supplied niran with
8 the department, yes. It was close to it.

9 Q. Okay. And then you were there until --

10 A. Let's see. Where did they send me then?
11 When Niran went out, they shut all these
12 departments down.

13 Q. What year was it again that niran went down,
14 '86?

15 A. '86 or '87 they shut niran down. I'm not
16 real sure. Then I went back to the biphenyl
17 department.

18 Q. Okay. That's around '86 or '87?

19 A. Yeah, somewhere in there.

20 Q. Okay. And how long were you there?

21 A. I worked there until -- I believe it was
22 1990.

23 Q. 1990. Are they still making biphenyl now?

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1 A. Yes, ma'am.

2 Q. And then in 1990?

3 A. I went -- I'm going to shorten this -- PNP
4 department, paranitrophenol. We call it PNP.

5 Q. And you were there until?

6 A. And I worked there until I went to my present
7 job which was in -- let's see.

8 Q. So about '95?

9 A. Yeah, '95.

10 Q. I want to ask you real quick -- and maybe
11 this is my own ignorance. I thought PNP was
12 a by-product of the parathion?

13 A. It is. It is.

14 Q. But you shut down niran, and they shut down
15 parathion?

16 A. No. Yeah, it shut down parathion, but PNP
17 goes in making poison, which that's what
18 niran and parathion is, but it also goes in
19 Anicin Three and Tylenol.

20 Q. Okay. That's good. Kills the pain, I
21 guess.

22 A. No, it's just -- I don't know how to explain
23 it.

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1 MR. PECK: Intermediary.

2 THE WITNESS: Yeah, intermediary
3 product. It can be important or something
4 good for you. Just according to how it's
5 mixed.

6 Q. (By Ms. Ruth) So you made it separately?

7 A. Uh-huh (indicating yes).

8 Q. I guess I thought it was -- at one point, was
9 it also a by-product of the production of
10 parathion?

11 A. No, it was -- we --

12 Q. Or it was an ingredient?

13 A. It's an ingredient. It and P2S5 was both
14 mixed together to make the poison, the
15 parathion, along with some more.

16 Q. Okay. That was my confusion. So did y'all
17 make the PNP?

18 A. Right.

19 Q. Okay.

20 A. We make it from scratch, yes.

21 Q. All right. And then from -- and PNP is still
22 being made?

23 A. Right.

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1 Q. And now you're --

2 A. -- I'm in shipping department.

3 Q. Shipping department. What do you do for
4 them?

5 A. I work in the warehouse loading trucks,
6 unloading, drumming, filling up drums with
7 products.

8 Q. Okay. What I'm going to do now is take you
9 back to 1966, and we're going to talk about
10 your time in the aroclor department for a
11 while and then probably spend some time on
12 your time in the biphenyl department.

13 And I think those will be the two
14 major areas we go over. We've spent a good
15 amount of time talking to people who have
16 worked in parathion. We've got a good idea
17 how that worked.

18 Let's see. You said you were an
19 operator?

20 A. Right.

21 Q. What did you work on as an operator? Were
22 you on the chlorinators?

23 A. I run all the jobs in there. Yeah,

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1 chlorinators, stills, and acid department.

2 Q. Chlorinator, stills, and acid department.

3 And when you were working on the
4 chlorinators then, I understand that part of
5 working on the chlorinators you essentially
6 cook a sample with the chlorine -- you put
7 the chlorine and the biphenyl in it, and you
8 cook it until it had the appropriate amount
9 of -- percentage of chlorination, whether
10 you're making 1221 or --

11 A. Yeah, 42, 48, whatever.

12 Q. Right. And part of that process was you'd
13 take a sample?

14 A. Uh-huh (indicating yes).

15 Q. Is that right?

16 A. Right.

17 Q. And how -- can you describe for me what --
18 how -- what the process was for taking a
19 sample?

20 A. We got a beaker, went to the chlorinator and
21 filled it up and brought it back in the
22 control room, and we stirred it down to a
23 certain temperature --

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1 Q. I'm sorry. Is your beaker glass?

2 A. Yes.

3 Q. So a regular glass beaker like you'd have in
4 high school chemistry class?

5 A. Right, exactly.

6 Q. What is the -- is it a faucet or spout or,
7 you know, is it like a cooler spout on the
8 chlorinator?

9 A. Right. Coming off discharge out of the pump,
10 circulating pump. So you take a --

11 Q. Do you mind if I just ask you to draw it real
12 quick.

13 I'm going to pull a Larry on you.
14 Larry likes to do this. I'd hate to
15 disappoint Larry and come back without
16 pictures.

17 Could you --

18 A. I'm not an artist.

19 Q. That's all right. Neither am I.

20 A. (Witness drawing.) That's the chlorinator.

21 Q. Okay.

22 A. This is the pump. I'll put a "P" there. And
23 this product circulated back out of here and

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1 back --

2 Q. Right. And you had coils; is that right,
3 that ran through the chlorinator, the coils?

4 A. Right. With chlorine gas.

5 Q. Chlorine gas. I thought there was -- was
6 there not cool water that ran through there
7 to help manage the -- do you not remember
8 that?

9 A. Let me think. It's been thirty something
10 years ago.

11 Q. I know.

12 A. In fact, I'm not sure I'm right about that
13 pump. It may have had an agitator instead of
14 a pump. I know the stills had a pump.

15 Q. Well, I think we have heard that there was a
16 pump on there also from other people.

17 A. Yeah, I think it was. I think this had a
18 pump.

19 But it had a sample poured out, and
20 you just opened it up, and this was
21 circulating under pressure, and you filled
22 your beaker up.

23 Q. Now, was it rushing out? I mean, did you

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1 find that it -- would it rush out at you? I
2 mean, did you have to be quick?

3 A. No, you just gradually open it and just let
4 it slowly run --

5 Q. Oh, gradually.

6 A. Just like opening a faucet.

7 Q. So it turned on like a faucet?

8 A. Exactly.

9 Q. And it kind of come out at whatever pressure
10 you needed for it to come out at?

11 A. Right.

12 Q. And then you just turn it back off?

13 A. Uh-huh (indicating yes).

14 Q. So you didn't normally have a problem with --
15 did you have a problem with spills normally
16 through your samples?

17 A. No.

18 Q. No?

19 A. No.

20 Q. If a spill happened -- what would you do if
21 it came out too fast or you couldn't shut it
22 off?

23 A. Under the chlorinator here?

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1 Q. Uh-huh (indicating yes).

2 A. Put sand on it or stay dry or something like
3 that on it.

4 Q. What's stay dry?

5 A. It's just a product that absorbs anything,
6 you know, oil or any kind of chemicals, soaks
7 it up and you shovel it up.

8 Q. What -- does it look like sawdust?

9 A. Yeah, kind of.

10 Q. Kind of like sawdust?

11 A. Yeah, kind of like cat litter or --

12 Q. Cat litter.

13 A. -- something like that. But I believe we
14 used sand mostly on it.

15 Q. Mostly sand?

16 A. Just dry sand.

17 Q. Okay. So you take your sample, you said, in
18 the beaker?

19 A. Uh-huh (indicating yes).

20 Q. And you bring it to another --

21 A. Bring it up to the control room.

22 Q. Okay.

23 A. And stir it down to a certain temperature and

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1 put a hydrometer in it, and what that
2 hydrometer read was, you know, tells you when
3 the product was finished. Like you said 1221
4 or 42. It had different specs, you know.

5 Q. Okay.

6 A. Different degrees of chlorination according
7 to what product we was running.

8 Q. And it was called a hydro?

9 A. Hydrometer.

10 Q. Hydrometer. Okay. Does it look like a
11 thermometer?

12 A. It's a bulb type thing on the bottom with a
13 long glass up, and it's got numbers on it.
14 When you put it in the liquid, it'll sink
15 down, and you read the -- kind of like a
16 thermometer, but it floats.

17 Q. And you would -- would you have some kind of
18 chart that you'd match that -- whatever
19 number came up, you'd match it against what
20 you --

21 A. We had a range of when the product was
22 finished. If it was too low, you have to
23 keep chlorinating it. You had a pretty good

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1 range.

2 You could tell about when it was
3 finished by time. It was pretty close around
4 five minutes each batch. We kept a record of
5 it.

6 Q. Okay. And you kept a record of how long you
7 cooked each batch for?

8 A. Right.

9 Q. Where were those records kept?

10 A. We had them in the control room.

11 Q. Notebooks?

12 A. Pad thing. It was printed, you know, each
13 batch number and what it ran.

14 Q. And it would tell you what your chlorination
15 came out to or just whatever your hydrometer
16 read?

17 A. What your hydrometer read, which was amount
18 of chlorine.

19 Q. And if you had to sample it three times,
20 would it reflect in the book that you had to
21 sample it three times?

22 A. No, only the finished product.

23 Q. The finished product was the only thing it

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1 reflected in the book.

2 How is the chlorinator heated? How
3 did you cook it?

4 A. The chlorine heated it.

5 Q. The chlorine itself?

6 A. Right.

7 Q. When you were pumping the chlorine in, it was
8 hot, or is chlorine just naturally hot?

9 A. When I went to work there, we had a chlorine
10 department that made chlorine.

11 Q. Right.

12 A. And they would pump it over to us in a vapor
13 form. Later, we used cars with liquid, and
14 it went through a vapor and heated up into a
15 gas, and it went in here as a gas.

16 Q. So initially, it came over to you -- I mean,
17 was there -- did you go pick up -- how did
18 you get the gas, I guess, from the chlorine
19 department, I guess is the easiest way?

20 A. It was piped over.

21 Q. It was piped over. So there was actually
22 something that linked you all to the chlorine
23 department?

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1 A. Right.

2 Q. How far was the chlorine department?

3 A. It was right next to us. It was probably far
4 as here to across the street over there, ever
5 how far that is.

6 Q. Like the island part?

7 A. Yeah, where the parking lot is.

8 Q. Okay.

9 A. That's about the distance it was from our
10 department.

11 Q. And that would go -- that would come into a
12 central tank in your department that would
13 then pipe it into the different chlorinator?

14 A. It would come into a header.

15 Q. A header.

16 A. And then it'd just branch off and go to
17 different chlorinators we had.

18 Q. What does a header look like?

19 A. It's -- we'll, say this is the main line
20 coming from the chlorine department, and this
21 one would have little lines coming off,
22 smaller lines, and these would go to
23 different chlorinators.

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1 Q. And then how would it --

2 A. We called that a header.

3 Q. Where would it come in on the chlorinator?

4 Would it come in at the top or bottom?

5 A. No, it came in at the bottom. Go up through
6 the product.

7 Q. And then later -- you said later you brought
8 over actually liquid chlorine?

9 A. Yes. They shut the chlorine department down.
10 I don't know when that was, but we started
11 getting it in rail cars from another company.

12 Q. Rail cars from another company. They'd bring
13 in drums of it?

14 A. No, it was in a rail car, tanker.

15 Q. In a tanker?

16 A. Uh-huh (indicating yes).

17 Q. And how would it get from the tanker into --

18 A. It was piped up the thing called a vaporizer.

19 Q. As soon as it came in?

20 A. Yeah, we'd hook it up. You could open the
21 cars. We'd get eight cars at a time, and
22 put four on and open them up. They'd all go
23 in this central line, and --

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1 Q. So you operators -- the operators would do
2 that work?

3 A. Right.

4 Q. Okay.

5 A. And it would go into a vaporizer with steam
6 on it, and it would change that liquid into a
7 vapor, and it'd come out and go to this
8 header.

9 Q. Was the vaporizer inside or outside --

10 A. It was outside.

11 Q. -- of the aroclor building? It was outside
12 of it.

13 So -- I'm sorry. The rail tracks
14 that are right over there, is that where it
15 would come? I mean, would somebody bring a
16 train up those rail tracks?

17 A. Right, switching.

18 Q. The ones that run along Tenth Street there?

19 A. No, they was inside the plant. Yes, where
20 they'd come into the plant, yes.

21 Q. They'd come in the plant from over there?

22 A. Yes.

23 Q. And then you actually had rail tracks on the

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1 plant?

2 A. Right. Over in our department, they'd split,
3 and they'd put four chlorine cars on one side
4 and four on the other.

5 And we had big cat walks, and you
6 could hook these into a central line, and
7 it'd come over to the department.

8 Q. You don't happen to have those pictures of
9 the plant with you, do you?

10 MR. PECK: No.

11 MR. WRIGHT: Do you want to use one
12 of the earlier exhibits? These were in
13 Walker's Exhibit. This is 1 and 2.

14 MR. PECK: Walker?

15 (Discussion off the record.)

16 Q. (By Ms. Ruth) Do you mind drawing me a quick
17 block of the aroclor department and kind of
18 label a few buildings around it? Say this is
19 the plant. And let's say this is -- that's
20 202.

21 MR. PECK: It's not there. It
22 wouldn't have been there. You know, 202
23 wasn't there.

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1 MR. RUTH: The old 202.

2 MR. PECK: It wasn't there yet.

3 MS. RUTH: In '66?

4 MR. PECK: Huh-uh (indicating no).

5 MS. RUTH: Not the new one.

6 MR. PECK: Okay. It wasn't called
7 202.

8 MS. RUTH: Right. I'm going to let
9 him fill it in, and this being Clydesdale.

10 Q. Now, if you want to tell me where the
11 aroclor --

12 A. This is south?

13 Q. Right. That would be south. You might want
14 to put that on there so we know that later.

15 A. (Witness complies.) This is the property.

16 Q. Yeah, let's just say that's the property. I
17 doubt you guys have a square lot, but --

18 A. It's not square. Let's see. We'll say this
19 is coming in off 202 through the parking lot.
20 Office building.

21 Q. You don't have to put everything, just a few
22 things just to kind of give us --

23 A. That was the lab, and this was the aroclor.

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1 Q. Okay. Where would niran be from there?

2 A. It was on the backside of the plant.

3 Q. Okay.

4 A. Here would be niran (indicating).

5 Q. Okay. And then now where would your rail
6 car --

7 A. Tracks run like this (indicating). This is
8 the railroad. The chlorine tracks split.
9 Like I said, they put four cars here and four
10 here.

11 Q. And they would -- all four would be tank cars
12 full of liquid chlorine?

13 A. Right. I don't know how much they held. And
14 we used four at a time. We opened four cars
15 up and --

16 Q. How would you open it up? I mean, is there a
17 valve on there that you sort of screw a hose
18 onto?

19 A. Right. We had a common line going to the
20 department, and all these cars would hook
21 into that line, and you'd just start opening
22 them up one at a time until you got them all
23 on. And they would feed the department.

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1 Cars was under pressure.

2 Q. Where is the vaporizer?

3 A. Right here in the department.

4 Q. Just kind of attached on the -- is it
5 actually attached to the building?

6 A. It was freestanding kindly out from the main
7 building.

8 Q. How big is the vaporizer?

9 A. It wasn't real big. About twice as big as a
10 hot water heater, I guess.

11 Q. For a house, for a person's house?

12 A. Yeah, say a forty-gallon hot water heater.

13 Q. And you could be pumping off -- how big were
14 those tanks? How much would each of those
15 tanks -- a full tank car like?

16 A. I'm not real sure. Twenty thousand gallons
17 probably.

18 Q. Uh-huh (indicating yes).

19 A. They would last several days.

20 Q. Okay. So you would turn them off and turn
21 them on as you needed it? As you all --

22 A. No, they stayed on.

23 Q. They just stayed on?

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1 A. Uh-huh (indicating yes).

2 Q. And as they were -- essentially, it would get
3 sucked out as the vaporizer started to go
4 down and not be full because it was getting
5 drawn into the process?

6 A. Right.

7 Q. And then it would start to draw from the tank
8 cars?

9 A. Uh-huh (indicating yes).

10 Q. Okay. And what did you have in the way of
11 safety really when you're dealing with this?

12 A. With chlorine?

13 Q. Yeah. Anything?

14 MR. PECK: Object to the form of
15 the question. You can answer.

16 Q. (By Mr. Ruth) You can answer.

17 MR. PECK: I just objected to the
18 form of the question. You can answer it.

19 THE WITNESS: Oh. Okay.

20 MR. WRIGHT: Just one of those
21 lawyer things.

22 THE WITNESS: Now, what was the
23 question again?

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1 Q. (By Ms. Ruth) Were you wearing masks or
2 gloves or anything at that time?

3 A. Yeah. You're supposed to wear a high face
4 gas mask, and, of course, we had regular
5 leather gloves we wore.

6 Q. And you'd wear that as you went to go turn
7 the valve on?

8 A. Right.

9 Q. And then would there be some -- any ongoing
10 measures taken -- once you guys turned it on
11 and walked away, you said it -- the valves
12 would remain open for four days,
13 approximately?

14 A. Maybe not.

15 Q. Maybe not. Give or take?

16 A. I don't know how many days, but it would last
17 for more than one day. Four cars would last,
18 you know -- according to how fast we -- how
19 many chlorinators were on and how fast we
20 used them.

21 Q. So would that area be blocked off at that
22 point?

23 A. No.

FOSHEE & TURNER COURT REPORTERS

1 Q. No. Just people would know if they went over
2 there to dome their mask?

3 A. Right. Most time it was when we was
4 connecting and disconnecting cars.

5 Q. Are these -- do people still use these rail
6 tracks for plant area?

7 A. No, they're gone.

8 Q. They're gone?

9 A. We still have rail tracks, but those
10 particular ones are --

11 Q. -- are gone?

12 A. Yeah, been taken up.

13 Q. But y'all still use rail tracks to bring
14 other supplies?

15 A. Yeah. Each department's got rail cars that
16 feed them.

17 Q. Did those go when the aroclor department shut
18 down?

19 A. I'm not sure. I don't know how long they
20 stayed after it's been closed down. Of
21 course we quit getting chlorine in because
22 that was the only department that used it.

23 Q. Wouldn't need it. Yeah. Okay.

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1 Now, under the pumps -- and I'm
2 sorry. You said -- I'm just remembering real
3 quick -- you said you didn't remember when
4 you switched over to liquid chlorine as
5 opposed to just piping it over from --

6 A. -- from the department. Let me say this:

7 When the chlorine plant was here --

8 Q. Actually, that would be useful to put that on
9 there. That was the chlorine plant, and so
10 now that's where you'd be piping it over --

11 A. Right.

12 Q. -- into there?

13 A. This old track that came, we did have two
14 chlorine cars if something happened to this
15 plant and they had to go down that we could
16 switch.

17 Q. Switch into that?

18 A. Yeah. Yes. But after it went down, these
19 two cars were not big enough, and they built
20 a new one. We could put eight cars.

21 Q. What happened to that over there?

22 A. I'm trying to think. That track may still be
23 in, but it's not used for anything like that

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1 now.

2 Q. This is because I've never worked any place
3 industrial I think, but when you pull in --
4 okay. As the train pulls in -- and it's got
5 -- how many tank cars does it have on it at
6 this point? Train pulls in, does it back in?

7 A. Switch engine.

8 MR. PECK: Switch engines.

9 MS. RUTH: Switch engines?

10 MR. PECK: As opposed to, you know,
11 it's not a whole locomotive.

12 THE WITNESS: They just came and
13 switched in.

14 Q. (By Ms. Ruth) Okay. And then do they take
15 these tanks off the car, or does the thing
16 just sit there braked?

17 A. When these four ran empty, we switched to
18 these four.

19 Q. Yeah.

20 A. Cut these off and disconnected them. And
21 then when the railroad come in, they would
22 pull these out and put four more in.

23 Q. Okay.

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1 A. We'd hook them up and then wait until we
2 needed them, and then we'd open the valves
3 up. We just switched from one bang to
4 another.

5 Q. And do you know what happened to these two?
6 Did we finish answering that?

7 A. After this department went down, they quit
8 using these and built this new chlorine dock
9 and never used that one again.

10 Q. That dock just went away?

11 A. Right.

12 Q. And they got rid of the tanks that were over
13 there?

14 A. Right.

15 Q. And like I said, you don't remember the year
16 they stopped piping it over?

17 A. I don't remember when the chlorine plant went
18 down. I sure don't. Not exactly.

19 Q. Do you think it was before or after the
20 expansion of the aroclor facility?

21 MR. PECK: Object to the form of
22 the question.

23 THE WITNESS: The expansion?

FOSHEE & TURNER COURT REPORTERS

1 Q. (By Ms. Ruth) Do you not remember the
2 expansion?

3 A. Well, they put in a tank farm after I went
4 there and added some chlorinators. Is that
5 what you --

6 Q. I think that's what -- yeah, what I'm
7 referring to.

8 A. No, I don't remember.

9 Q. Okay. Okay.

10 MS. RUTH: I was trying to take
11 notes on where I've already taking notes and
12 I realized I wasn't doing myself a service
13 because I couldn't read what I was writing
14 down. I'm counting on you.

15 Q. Now, we -- under these pumps, from what we've
16 heard at least early on, the pumps tended to
17 leak. Do you agree with that?

18 MR. PECK: Object to the form of
19 the question. You can answer.

20 I'm objecting because she's
21 characterizing someone else's testimony, so
22 I'm objecting to the form of the question.
23 You can answer what you recall.

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1 THE WITNESS: Yeah. Truthfully, I
2 don't remember the chlorinator pumps having
3 any problem much with leaking.

4 Q. (By Ms. Ruth) Oh, you don't?

5 A. No. We had some -- well, I won't get into
6 that, but on the chlorinators, I don't
7 remember those giving us any trouble.

8 Q. No? Do you remember using packing, something
9 called packing, around the pump to --

10 A. Not on the chlorinator.

11 Q. Not on the chlorinators. Where did you use
12 the packing?

13 A. They was on the aroclor stills.

14 Q. On the stills?

15 A. Uh-huh (indicating yes).

16 Q. Okay. We can actually move over to the -- do
17 you remember any drip pans or anything like
18 that under the pumps there?

19 MR. PECK: You mean on the
20 chlorinators?

21 Q. (By Ms. Ruth) On the chlorinators. I'll try
22 and finish up with the chlorinator. That's
23 not to swear I won't think of a question

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1 later about it, but --

2 A. I don't remember --

3 Q. You don't remember if there were drip pans
4 under --

5 A. -- whether there were or not. It's been so
6 long ago.

7 Q. So finishes up here at the chlorinator, and
8 then y'all figure out -- take your sample and
9 figure out you've got what the product you
10 want?

11 A. Uh-huh (indicating yes).

12 Q. And what happens next?

13 A. When the product is finished?

14 Q. Yeah.

15 A. It was pumped through what we call a blow
16 tank.

17 Q. Pumped through a blow tank?

18 A. Uh-huh (indicating yes).

19 Q. How would it be pumped? Can you -- and where
20 do you put the blow tank?

21 A. The circulating line had another line coming
22 off -- I done forgot how it was valved up.
23 But anyhow, you would open a valve going this

FOSHEE & TURNER COURT REPORTERS

1 way and close this one, and then this would
2 come out and go over and go in --

3 Q. Kind of like a bypass idea?

4 A. Yeah, it'd block it from here, and then it'd
5 pump it empty and go in a blow tank.

6 Q. Okay. What is a blow tank?

7 A. It was used -- the blow tank was used -- it
8 had air blowing up through it, and it would
9 -- I believe it blowed the HCL off of it.
10 It's a type gas in it.

11 Q. Uh-huh (indicating yes).

12 A. By-product.

13 Q. Could you just draw the blow tank?

14 A. It was just a tank. We had four of them for
15 different products like this (indicating).
16 And according to what product we was using in
17 this one, it would just come down and go into
18 it if it's the one we was using for this
19 product.

20 All right. Some more chlorinators
21 may be making another product, and it'd go to
22 another blow tank.

23 Q. Were most chlorinators dedicated to the type

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1 of product they would make?

2 A. We had four that were.

3 Q. Four that were dedicated?

4 A. That was dedicated.

5 Q. And the other ones you'd switch off?

6 A. Uh-huh (indicating yes).

7 Q. What did you call the dedicated ones?

8 A. Well, I don't know if they had a name. Just
9 1242.

10 Q. Was the one that you -- was that your biggest
11 product?

12 A. Right.

13 Q. The product you needed to produce the most
14 of, I guess?

15 A. Right.

16 Q. So all four of those -- so -- but how many --
17 you had six chlorinators total or eight or
18 how many?

19 A. On liquid, eight.

20 Q. Eight chlorinators total on the liquid?

21 A. Uh-huh (indicating yes).

22 Q. Was that before or after the two new ones
23 were added?

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1 MR. PECK: Object to the form of
2 the question.

3 MS. RUTH: Well, he said there were
4 two new ones added.

5 MR. PECK: They weren't liquid.
6 They were solid.

7 Q. (By Ms. Ruth) So this is -- you had eight
8 liquid chlorinators?

9 A. Right.

10 Q. And you always had eight liquid chlorinators
11 from 1966 when you were there until 1972?

12 A. Right.

13 Q. So if you've got eight but you've got four
14 blow tanks, how do you hook up a chlorinator
15 to a blow tank? Is this a -- is this a
16 mobile -- I mean, can you unhook it or hook
17 it or --

18 A. No, the piping was hard pipe. In other
19 words, there was no changing it. But you had
20 a series of valves.

21 The four dedicated chlorinators
22 went in the same blow tank all the time.

23 Q. Same one blow tank?

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1 A. Right.

2 Q. Okay.

3 A. And I can't remember the name of them. And
4 then the others just went to -- you could --
5 say this one was 1248, you could change the
6 piping on it and make it go over to another
7 one.

8 Q. I see.

9 A. Close valve here and open here.

10 Q. So it would have one main pipe off, and then
11 as it came over to the blow tank area, it
12 would finger off and attach to the other
13 three blow tanks --

14 A. Exactly.

15 Q. -- and you could decide which one it was
16 going to go to?

17 A. Right.

18 Q. And then what is flowing through the blow
19 tank? Is there --

20 A. It was blowing the air.

21 Q. Air?

22 A. Uh-huh (indicating yes).

23 Q. What's the source of the air? Is there --

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1 A. Compressors.

2 Q. Air compressors?

3 A. Uh-huh (indicating yes).

4 Q. That are sitting below it?

5 A. No, it was in the main -- the plant has got
6 air compressors, furnaces in the whole plant,
7 three big ones. And every department there
8 comes off in one --

9 Q. Is there a pipe then off the compressors?

10 A. Right. A pipe.

11 Q. And it goes into one of the blow tanks and
12 blows air on it?

13 A. Right.

14 Q. And then what comes out of the blow tank?

15 A. There was -- I may be wrong. It was blowing
16 HCL gas off, getting it off the product.

17 Q. And where would the -- and the H -- how would
18 you separate out the HCL gas from the --

19 A. It came up a pipe and went in a header and
20 went to the acid department. We made
21 hydrochloric acid.

22 Q. Okay.

23 A. It and off the chlorinators too.

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1 Q. And then what happened with the product that
2 was left in the blow tank?

3 A. Okay. After you blow it so long -- I forgot
4 how long it was -- we pumped it to the
5 storage tank.

6 Q. You pumped it to a storage tank?

7 A. No, no, no. Wait a minute. It was a roof
8 tank. It fed the stills.

9 Q. Okay. So this went to a roof tank that then
10 fed the stills?

11 A. Uh-huh (indicating yes).

12 Q. So you call it a roof tank because it was
13 literally sitting on the roof of the --

14 A. Yeah, it was, yes.

15 Q. So all four blow tanks in addition to what
16 they have coming into it -- coming into it,
17 they have these pipes from the chlorinators,
18 and then they have pipes from the compressor?

19 A. Uh-huh (indicating yes).

20 Q. And then coming out of it, they have pipes
21 that go to your acid department?

22 A. Acid department.

23 Q. And a pipe that goes to your roof tank?

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1 A. Right.

2 Q. Is the pipe that goes to your roof tank then
3 coming off the bottom of the blow tank?

4 A. Right.

5 Q. Because the air stuff is concentrating up on
6 top, and then that's where you're blowing out
7 your --

8 A. Right.

9 Q. Okay. And then so it goes up to your roof
10 tank, and then -- you must have pipes all
11 over the place.

12 A. Oh, you wouldn't believe.

13 Q. Okay. I'm glad I didn't have to memorize
14 what was going where. So then you pump from
15 your roof tank to your stills; is that what
16 you said?

17 A. Right, right.

18 Q. All right. Okay. Now, just let me ask you
19 this: Periodically, did you need to clean
20 out either the chlorinator or the --

21 A. -- blow tank?

22 Q. Blow tank.

23 A. Not while I was there.

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1 Q. You never cleaned them out?

2 A. (Witness shakes head.)

3 Q. You never cleaned out the pipes or flushed
4 the pipes with anything?

5 A. Huh-uh (indicating no).

6 Q. So we're now piping it into -- how many
7 stills did you -- first of all, where are the
8 stills in relation to your chlorinators?

9 A. These kind of sit outside the department,
10 main part of the department. You come out of
11 the control room, and the stills was inside
12 the building in the department.

13 Q. Okay. Do you want to just draw me a small
14 version where it doesn't actually have the
15 chlorinator in it, but you can show me like,
16 again, with a square and say chlorinators
17 over here, control room here, and that kind
18 of thing.

19 MR. PECK: Do you want it on a
20 separate piece of paper?

21 Q. (By Ms. Ruth) It's up to you. Do you want a
22 separate sheet here so you can draw it a
23 little bigger maybe?

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1 Okay. I'm sorry. Some people are
2 visual learners and some are auditory, and I
3 think I tend toward visual. If I can see it,
4 I do a little better.

5 A. This is going to be the -- I don't remember
6 the number. Let's see.

7 Q. Is that actually happening outside the
8 building?

9 A. Yes, ma'am. These are out in the open.

10 Q. Do you have no roof over your head, or do you
11 have a roof over your head?

12 A. Not on these you didn't.

13 Q. So what happens if it's raining?

14 A. You just got wet.

15 Q. Okay. You'd work outside all day in the
16 rain?

17 A. Well, you wasn't out there that long. You'd
18 just go out and --

19 Q. Oh, just go out and check it?

20 A. Yeah. Take a sample and switch a few valves,
21 and you're right back in there.

22 Q. Okay.

23 A. Put a raincoat on and, of course, you had to

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1 wear a hard hat and stuff.

2 Q. Now, is that --

3 A. All this is under the roof here.

4 Q. The rest is under -- the rest is a regular
5 building?

6 A. Right.

7 Q. And I think that we've ask this before, but
8 I'm going to ask it again. Was that part out
9 there concreted?

10 A. Uh-huh (indicating yes).

11 Q. That's all concreted underneath?

12 A. These were up on the second level. Kind of
13 went down through the grating. You had a
14 ground level and a second level.

15 Q. A second level. What does the second level
16 look like? Does it look like a big cement
17 block --

18 A. No, it's made out of grating, just "I" beams
19 with grating on them.

20 Q. Okay.

21 A. It wasn't a solid floor. I'm talking about
22 out here where these were at.

23 Q. And you'd just walk up a little metal

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1 staircase thing and get up there?

2 A. Right. And had some stairs coming up.

3 Q. Okay.

4 A. This is control room.

5 Q. Do you go through the control room as soon as
6 you walk in the building? Is your first --
7 your entry way is actually in the control
8 room?

9 A. It had two doors in and out or either way you
10 wanted it. And that's the roof.

11 Q. Okay.

12 MR. PECK: Just one roof tank?

13 THE WITNESS: I think we had two.
14 Two roof tanks. Number one and number two
15 roof tank, yeah. I don't remember which one
16 was which.

17 But the chlorinators would take the
18 continuous -- we'll just say it goes in this
19 blow tank. And then it went to the roof
20 tank, and then these are liquid
21 chlorinators -- I mean stills.

22 Q. (By Ms. Ruth) I guess it's sitting next to
23 it. That's why you just have a -- that's

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1 why. Okay.

2 A. And --

3 Q. And then it pipes back through the roof?

4 A. Drops down and comes down top of the roof of
5 the department and goes to these ever what
6 stills you're running this particular product
7 on.

8 Usually it was this number three
9 still here we run 1242.

10 Q. 1242. Was 1242 what you focussed a lot of
11 your time on?

12 A. Well, we run all different --

13 Q. All different ones, but you focused -- 1242
14 got dedicated -- it got a dedicated blow
15 tank, and it got a dedicated still?

16 A. Right.

17 Q. Because it was your big product?

18 A. Right.

19 Q. Okay. All right. How does a still work?
20 Somebody likened it to moonshine to me, but I
21 never made that either, so I'm not a hundred
22 percent sure.

23 A. Well, I've never set up a moonshine still,

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1 but you charge the still up to a certain
2 level.

3 Q. Charge it with heat or electricity?

4 A. No, the product. You put the product in it.

5 Q. Put in a certain amount?

6 A. We called it 1142 before it was distilled,
7 and after it was distilled, it was 1242. So
8 that would be 1142.

9 Q. Okay.

10 A. And --

11 Q. What does a still look like? Is it big,
12 tall?

13 A. It's just a big tank.

14 Q. Like six feet big, or ten feet big?

15 A. Bigger -- it would hold probably two thousand
16 gallons.

17 Q. Two thousand gallons. That's big.

18 A. Pretty good size, yeah.

19 Q. And it's made out of -- are they made out of
20 steel?

21 A. Yeah, it was metal. I guess it was steel. I
22 don't know. We've got some tanks out there
23 that's highly corrosive products. It's

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1 titanium and different things made of
2 material.

3 Q. Uh-huh (indicating yes).

4 A. We charge the still up -- let's see. And it
5 had an agitator.

6 Q. And an agitator is what?

7 A. Just like a big --

8 Q. -- propeller?

9 A. Yeah, mixer.

10 Q. Mixer?

11 A. Like blades on a mixer. Has a motor that
12 turns it and keeps it mixing.

13 Q. And when you plug it in, is it run, like, by
14 electricity?

15 A. Oh, yeah. Big motor. They're huge.

16 Q. Is there any heating that goes on?

17 A. Yeah, you have to have heat. I'm I trying to
18 think of how we got it in there. It's pumped
19 -- I forgot where it went -- how we heated
20 it. I was operator too.

21 Q. That's what you did.

22 A. Not long, but -- it had coils in it because
23 we had --

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1 Q. The still had coils or the piping?

2 A. Inside the still there was coils. I'm
3 embarrassed. I can't even remember now how
4 we heated the thing.

5 Q. Heat it from the outside, underneath it, or
6 did you heat it inside?

7 A. The solid aroclor still had a furnace, big
8 furnace --

9 Q. Big furnace?

10 A. -- it went through. I'm trying to picture
11 how the liquid stills were. I forgot how we
12 heated it.

13 Q. But you did?

14 A. Yeah, we heated it. But the product was
15 circulated or agitated, and the vapors off of
16 it went up a column. And we had a receiver.

17 It went up as a vapor and went
18 through a condenser, and it came back as a
19 liquid down in this receiver. That's what --

20 Q. That's a receiver it's called?

21 A. Right here.

22 Q. So is it sitting side by side each still?

23 A. Right.

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1 Q. And each still's got it's own receiver?

2 A. Yeah, three receivers. And they all had a
3 condenser, and you'd head it up, and the
4 vapor would go up through the condenser and
5 condense into a liquid, back into a liquid --

6 Q. Uh-huh (indicating yes).

7 A. -- and come back down into the receiver. Of
8 course the level would go down in the still
9 as the product came over.

10 Q. Uh-huh (indicating yes). Was there ever
11 anything left over in the still?

12 A. Yes. We call them bottoms.

13 Q. Bottoms. What would you do with bottoms?

14 A. Each still run so many batches according to
15 what product it was making. This, I think,
16 was ten batches.

17 After ten batches, you'd would run
18 it down as low as possible and draw it down
19 into metal drums.

20 Q. How do you draw it out?

21 A. It had a valve on the bottom of the still
22 that went over to a runway.

23 Q. Uh-huh (indicating yes).

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1 A. Again, it had a valve there and a line run
2 over, and it had a track there. And you had
3 fifty-five-gallon drums on it, and you'd open
4 the valve up and fill that drum up.

5 Q. So your bottoms are liquid?

6 A. Uh-huh (indicating yes), they was liquid.
7 And you put a lid on it and push it down a
8 runway, and it went back over here in another
9 part of the building.

10 Q. So the drums were actually on a runway?

11 A. Right, right.

12 Q. You could just push them and they would go on
13 their way?

14 A. And you'd drum it until it run empty, until
15 the still was empty.

16 Q. Okay.

17 A. And then close it and recharge it.

18 Q. Would you ever actually clean out the still,
19 go in, you know, with a rag or hose or
20 something?

21 A. No.

22 Q. Nobody ever got in and actually cleaned it?

23 A. Not unless it was maintenance went in.

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1 Q. But you never did?

2 A. No, operators never --

3 Q. And you never saw anybody do it?

4 A. No.

5 Q. What happened to the drums of the bottoms?

6 A. Shipping department picked them up. I don't
7 really know what they done with them. I
8 couldn't say.

9 Q. Okay. And then the stuff that went into the
10 receivers, what did you do with that?

11 A. That was finished product. It was pumped
12 through a filter and -- went through a filter
13 -- and outside, and we had a tank farm. Had
14 -- I don't know how many storage tanks.

15 Q. Was that tank farm always there?

16 A. No, ma'am.

17 Q. It wasn't?

18 A. No. We had some other storage tanks out here
19 on the side of the building when I first went
20 to aroclor department and went in them, but
21 they soon was too small, set outside the
22 building, and they built a new tank farm.

23 Q. Did they continue to use the two old ones, or

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1 did they get rid of them?

2 A. They got rid of them. And it was filtered
3 and put in the storage tank.

4 Q. And that's part of that when we were talking
5 about what I characterize as an expansion?

6 A. (Witness nods head.)

7 Q. That's when they put in the new tank farm?
8 Do you know what year that was about?

9 A. Probably '68.

10 Q. '68ish?

11 A. I'm not real sure.

12 Q. Okay. Then from the tank farm, did they go
13 into drums to sell or --

14 A. Most of it went into the tank cars, rail
15 cars.

16 Q. Okay. So that's one of these rail things
17 coming off here?

18 A. Uh-huh (indicating yes), spur comes in by
19 the --

20 Q. Where is the tank farm? It's over here
21 somewhere?

22 A. This is the aroclor department?

23 Q. Yeah.

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1 A. The tank farm sat, we'll say, right in here.
2 About twelve tanks.

3 Q. And some rail cars actually come over that
4 way too?

5 A. Yeah, rail line come in right beside the tank
6 farm. Still does. We still use it.

7 Q. Okay. You just put different products in it?

8 A. Yeah.

9 Q. Okay.

10 A. So they just unloaded into rail cars and ship
11 them out.

12 Q. The stuff's then piped -- presumably, it's
13 piped above ground and not underground?

14 A. Right.

15 Q. Okay.

16 A. All that's still --

17 Q. You just have now hooked it up to it?

18 A. Yeah, different process.

19 Q. This building's not there anymore; is that
20 right?

21 A. No, no.

22 Q. Now, let's switch gears, and let's switch
23 over from what went to the still. And let's

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1 go back to your blow tank and talk about the
2 HCL off gas, the hydrochloric off gas, that
3 went and you made muriatic acid or
4 hydrochloric acid.

5 A. Right.

6 Q. What happens from the blow tank to --

7 A. -- the acid department?

8 Q. Actually, let me ask you one quick question.
9 I see that there's a filter coming off the
10 receiver. How does that filter work, do you
11 know?

12 A. Yes. It had plates in there with pasteboard
13 filters in it, fiber, a little bigger than
14 that sheet of paper.

15 Q. So it's tiny?

16 A. (Witness nods head.)

17 Q. And each receiver's got its own filter?

18 A. No, I think we just had one filter.

19 Q. Okay. So even though it got piped to three
20 different -- it goes like this -- to three
21 different receivers, and then all that goes
22 into one pipe that's got the filter on it
23 that goes out to the tank farm, and then it

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1 fingers again into the six or however many
2 tanks y'all have out there?

3 A. Right. Goes in a header, and you can put it
4 wherever --

5 Q. Okay.

6 A. But it had plates, and on each side of the
7 plate, it had this filter paper. I don't
8 know how many plates it was. Probably thirty
9 or forty plates.

10 Q. Okay.

11 A. And it would filter through there and come
12 out the other end and had all the impurities
13 out of it.

14 Q. Okay. Did any water or anything else run
15 through that?

16 A. (Witness shakes head.)

17 Q. Or it's just running through that filter, and
18 the filter's catching --

19 A. (Witness nods head.)

20 Q. Did you all periodically have to clean out
21 the filter?

22 A. Oh, yes. About every three batches we had to
23 change the paper.

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1 Q. That's pretty often, is it not? How many
2 batches would you go through in a shift?

3 A. Probably one.

4 Q. Oh, just one in a shift?

5 A. (Witness nods head.)

6 Q. So probably three times a day the filters got
7 changed?

8 A. Right.

9 Q. And you'd change about thirty filters?

10 A. Somewhere in there. I don't know how many.

11 Q. Twenty, forty, thirty, fifteen, somewhere in
12 there?

13 A. Yeah.

14 Q. More than ten?

15 A. Yeah.

16 Q. Okay. And what would you do with the old
17 filters, with the actual -- because you've
18 got your metal plate; right?

19 A. Uh-huh (indicating yes).

20 Q. And then against that, you've got your
21 filter?

22 A. Uh-huh (indicating yes).

23 Q. So you pull out all your filters?

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1 A. Uh-huh (indicating yes).

2 Q. Is that right?

3 A. The old ones, yeah, put new paper in.

4 Q. Put new ones in?

5 A. Right.

6 Q. At any point, do you hose down the metal
7 stuff?

8 A. No.

9 Q. No. Just kind of let that be?

10 A. You didn't want water in it or around it, no.

11 Q. Is that process hot?

12 A. Yes, it was very hot.

13 Q. It was hot?

14 A. Yeah. It would burn you through your
15 gloves. You couldn't just hold onto those
16 plates for very long.

17 Q. So what did you do with the paper things?

18 A. We cleaned it in the metal drums,
19 fifty-five-gallon drums.

20 Q. You cleaned the filters in drums?

21 A. Into a drum. Yeah, you take the plates out
22 and took the papers out and set them back
23 in. When you got them all out, you put new

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1 paper in.

2 Q. But you did it quickly because the metal was
3 hot?

4 A. Oh, yeah.

5 Q. Okay.

6 A. And that drum -- we carried all that type
7 stuff downstairs, and shipping picked them
8 up. We kept them on pallets, and I don't --

9 Q. You don't know if they went to the landfill
10 or just never asked?

11 A. I never did work in that department when they
12 was doing that.

13 Q. I never ask my trash man where he's taking my
14 trash, so I understand.

15 All right. Okay. Now, we can go
16 back to the blow tanks, I guess, and talk
17 about the hydrochloric acid that's coming
18 off.

19 A. Gas, HCL gas.

20 Q. Hydrochloric gas.

21 A. Yeah. The chlorinator also gives off HCL
22 gas.

23 Q. Oh, they're both giving off gas?

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1 A. Yes.

2 Q. So you're getting some off gas from your
3 chlorinator process; you're getting some off
4 gas -- where is the bulk of your off gas
5 coming from?

6 A. Chlorinator.

7 Q. The chlorinator? Oh, so the blow tank is
8 sort of like an extra measure to --

9 A. Right. It may have just a little left on it.

10 Q. Okay.

11 A. Not a great amount.

12 Q. So do you pipe your off gas from your
13 chlorinator and your blow tank to your acid
14 center?

15 A. Uh-huh (indicating yes).

16 Q. And that's just a pipe off the top?

17 A. Uh-huh (indicating yes), a line, probably
18 about six-inch line.

19 Q. And it's hard like we were talking about
20 before?

21 A. Right.

22 Q. And it's fixed?

23 A. Right.

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1 Q. And then where is the acid activity happening
2 in relation to --

3 A. -- in relation to this?

4 Q. Yeah.

5 A. It was out from the department.

6 Q. Is this going to be outside?

7 A. Uh-huh (indicating yes).

8 Q. Okay.

9 A. Outside.

10 Q. Is it a cemented area?

11 A. Uh-huh (indicating yes).

12 Q. It's cemented. Is it roofed at all?

13 A. No.

14 Q. So again, you're just running out there real
15 quick --

16 A. Uh-huh (indicating yes).

17 Q. -- if it's raining or hot or any of those
18 things?

19 A. Yeah. It was piped to the acid department.
20 Do you want to know what it does?

21 Q. Yeah. I want to walk through the whole
22 thing, but if you want to just show me --

23 A. (Witness drawing.) It came off the

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1 chlorinators and blow tank and went to the
2 acid department. Went in a -- I forgot what
3 we called it now, but we'd mix water with it.

4 Q. Where is your water source coming from?

5 A. Just city water.

6 Q. Do you keep it in a tank?

7 A. No, it was just piped.

8 Q. City water.

9 A. And you control -- when that HCL and water
10 mixed, it turned to acid.

11 Q. Uh-huh (indicating yes).

12 A. And it went down through some carbon filters.

13 Q. Okay.

14 A. Back out --

15 Q. Where are you mixing them? Is it a big tank?

16 A. Yes, it's a big column type thing.

17 Q. Okay.

18 A. Carbon in it.

19 Q. And as soon as you add water to it, does it
20 automatically become acid, or is there some
21 period of time it needs to sit?

22 A. No.

23 Q. So it's a continuous process?

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1 A. Right.

2 Q. Does there need to be any specific amount of
3 the HCL gas that you're pumping in? Does
4 there have to be a special relationship
5 between the amount of water and the amount of
6 HCL gas?

7 A. Yes, ma'am.

8 Q. Yeah. So do you try to measure that? So you
9 will turn valves off and on; is that right?

10 A. The way the process worked, the more water
11 you put in, the weaker the acid was, so we
12 made two different grades of acid. Twenty
13 degree and twenty-two degree.

14 Q. A twenty and --

15 A. Well, they call it degree -- and twenty-two.

16 Q. Which one is better, twenty-two?

17 A. The twenty-two was the strongest.

18 Q. Strongest.

19 A. So you used less water. You did the same
20 thing you did at the chlorinator. You catch
21 the sample in the hydrometer, and it read a
22 certain thing, and that's the way you
23 regulated it.

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1 Q. Okay. So it didn't actually function -- you
2 did do it in batches; is that right then?

3 A. No, this was continuous. As long as the
4 chlorinator's running, it was a continuous
5 process.

6 Q. Then how are you sampling? How are you
7 sampling your product? Are you just standing
8 there regularly sampling it? I guess what
9 I'm saying is: How are you creating batches
10 of twenty and batches of twenty-two?

11 A. We made batches of twenty degree water white
12 acid most of the time.

13 Q. Most of the time.

14 A. Ninety percent of the time. It went in the
15 storage tanks. We had, I believe it was
16 eight acid storage tanks.

17 Q. So would you do it more like -- I don't know
18 -- Monday through Friday we make twenty
19 degree?

20 A. No, it was according to the sales.

21 Q. Sales was dictating it?

22 A. We just had maybe, like, one or two tanks
23 that had twenty-two, and the other six had

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1 twenty degree, which was what we sold the
2 most of.

3 Q. So as one of your tanks that you'd store it
4 in before you'd send it off to sell started
5 to get empty, you'd go, we're getting low on
6 twenty-two or we're getting low on twenty --

7 A. Right.

8 Q. -- we need to make that.

9 A. Or foreman tell us we needed to run a day or
10 so to fill those tanks back up with
11 twenty-two. We'd regulate the water and make
12 it twenty-two and switch to those tanks and
13 fill them up, and then we'd go back to
14 twenty.

15 Q. How often would you need to sample to know
16 that you were on target?

17 A. Two or three times a shift.

18 Q. Two or three times a shift. That shift's
19 eight hours?

20 A. Uh-huh (indicating yes).

21 Q. So every two or three hours?

22 A. Yeah, we went up and checked it.

23 Q. Go up and check it. What happens if -- what

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1 would you do if you found out that it wasn't
2 working out, that you were not getting what
3 you were trying to get?

4 A. Well, if the acid was weak, lower than twenty
5 degrees, we'd cut the water back which would
6 put more HCL mixed with water and bring it up
7 and make it stronger.

8 If it was too strong, we'd add
9 water to it, open up on water until you get
10 it regulated down.

11 Q. Okay.

12 A. Long as the chlorinator's kept running, it
13 was the same -- now, they went out when the
14 acid plant went out.

15 Q. Did you ever have such a thing as a bad
16 batch?

17 A. Bad storage tank? It wasn't a batch because
18 it's just continuous.

19 Q. Okay. I'm sorry. Using the wrong
20 terminology.

21 A. You mean if we had a storage tank get out of
22 spec? I don't remember ever having one. I'd
23 just be guessing.

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1 Q. Okay. Because I think I have something
2 here -- and I think it's actually been
3 entered in before, but maybe it hasn't --
4 that talks a little bit about this, and maybe
5 this will -- of course, now I'm going to have
6 to find it.

7 This is -- this is a document -- I
8 wonder if we have it in there already.

9 MONS057607.

10 Yeah, we do. It's Plaintiffs'
11 Exhibit 21.

12 MR. PECK: Can I just see that?

13 MS. RUTH: Yeah.

14 Q. Now I've got to find my page again. Here we
15 go.

16 This is an audit on the HCL
17 department. Now, you're not named on this,
18 so there's not necessarily any reason you'd
19 ever seen it before. And it's from July of
20 1969.

21 A. Uh-huh (indicating yes).

22 Q. And right here under the -- you can turn to
23 it. I guess it's page three. If you want to

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1 read that paragraph under -- it's the last
2 paragraph HCL Department Audit.

3 A. Uh-huh (indicating yes).

4 Q. And it talks about having some problems with,
5 I guess I'll say off spec products since I
6 keep calling it a bad batch.

7 If you want to read that real
8 quick. Take your time. You don't have to
9 read it real quick.

10 A. (Witness complies.)

11 Q. Does that ring any bells for you? Do you
12 remember ever having a problem with a product
13 and sewerage it?

14 A. I may not have been running this job at that
15 time.

16 Q. You might not have been over there?

17 A. No.

18 Q. Because you rotated within the department, I
19 guess?

20 A. Well, not on a regular basis. Like the last
21 few years I was there, I was on aroclor
22 stills.

23 Q. '70 to '72?

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1 A. Yeah. Somewhere along in there. You
2 occasionally run this. Somebody's out on the
3 next shift, you may double over and run this
4 job here. So I don't remember that
5 particular instance.

6 Q. So you were never there at a time when --

7 A. No.

8 Q. -- you got off spec product and had to sewer
9 it?

10 A. No, ma'am, I can't remember that.

11 Q. Don't remember that --

12 A. No.

13 Q. -- problem at all?

14 A. No.

15 Q. Do you ever remember there being a filter
16 system in place for this? Do you ever
17 remember them ever putting a filter --

18 A. Yes, we -- we filtered.

19 Q. You did have a filter at the top of the tank?

20 A. No, it was after it came out of the source
21 column.

22 Q. After you added the water to it?

23 A. Right. It run through a filter, had a sock

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1 type filter made of some kind of fabric that
2 filtered.

3 MS. RUTH: Okay. We might want to
4 make for the record that we were looking at
5 Plaintiffs' Exhibit 21.

6 Q. So do you remember what, if anything, you did
7 do if you had off spec that wasn't -- for
8 whatever reason it couldn't be remedied,
9 there was no -- do you ever remember that
10 happening?

11 A. No, ma'am, I don't remember it happening. If
12 you let a whole storage tank get out of spec,
13 somebody's not watching their job.

14 Q. They're getting in trouble?

15 A. Yes. Because it's a pretty big storage
16 tank. It takes a while to fill one up.

17 I really don't remember ever having
18 one out of spec.

19 Q. Okay. And when it -- what would happen then
20 is when it filled up -- now, was it
21 continuously being piped too another storage,
22 the storage tanks, you know, that you held it
23 in before you sold it, or did you fill up

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1 that tank first or the column first, or how
2 did that work?

3 A. After it came -- I kind of got the whole
4 department here.

5 Q. Okay.

6 A. It went through a column or -- I don't know
7 what you called it -- absorption column or
8 something when it mixed and came out and went
9 through a filter. And we had, I believe, it
10 was eight storage tanks.

11 Q. Okay.

12 A. And after it came out of the filter, it's
13 kind of like aroclor, it went to certain
14 tanks according to what the product was.

15 Q. That's where you're actually doing your
16 sampling is it's final --

17 A. At the filter.

18 Q. Oh, at the filter is where you're doing your
19 samples?

20 A. Right. Where it leaves and goes to the
21 storage tank.

22 Q. So before it's actually going to a storage
23 tank, you're doing your sampling?

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1 A. Right.

2 Q. So if it's off spec, is there any way to stop
3 it from going to the storage tank, or is the
4 idea then to balance out whatever's gone to
5 the storage tank? So if it's gone too strong
6 to the storage tank, are you trying to send
7 weaker stuff?

8 A. Right.

9 Q. Okay. All right. And that whole area you
10 said was concreted, as well?

11 A. Uh-huh (indicating yes).

12 Q. Okay. Now, let's see. I guess, again, I'll
13 ask you this, but I'm not sure if you'll know
14 the answer.

15 Did you all ever clean out the
16 filter or the -- that column where all the
17 mixing is taking place?

18 A. Here?

19 Q. Yeah, did y'all ever clean that out?

20 A. We had to change the bags in the filter.

21 Q. You had to change the bags in the filters?

22 A. Yeah, they would get plugged, and you'd have
23 to put a new one.

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1 Q. What would plug them, do you know?

2 A. Carbon. This had carbon in it that the acid
3 went through, and that carbon would
4 eventually, you know, water white acid had to
5 be just like water. It couldn't have
6 anything in it.

7 Q. Had to look like water?

8 A. Yeah.

9 Q. And did it look like water?

10 A. Yeah.

11 Q. Kind of creepy.

12 A. Of course you put your finger in it, you knew
13 it wasn't water.

14 Q. Okay. And so then what would you do with the
15 filters that you cleaned out? Did you
16 replace -- did you actually put in a new
17 filter?

18 A. Yes.

19 Q. Okay. And so you had to shut down operations
20 to do that?

21 A. Yes, you just stopped.

22 Q. And, I mean, would it take a long time? Five
23 minutes? Ten minutes?

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1 A. No, just five minutes.

2 Q. So you could back everything up in the pipe
3 that was coming because it wouldn't be backed
4 up for so long that it would really have an
5 affect on it?

6 A. Just take the top off, take that filter bag
7 out, put another one in, shut it, and close
8 it back up and go on.

9 Q. Would you do that once a shift, twice a
10 shift, once a week?

11 A. Well, it was often. I really don't remember.

12 Q. I'm sorry. Did you say as often as once a
13 week?

14 A. No, it was more often.

15 Q. More often than once a week, but you don't
16 know if it was every shift or not?

17 A. I don't remember.

18 Q. What did you do with the filter that you took
19 out? Would it go in another drum or --

20 A. Yeah, we put everything in drums. Things
21 like that, put it in a metal drum.

22 Q. Okay. Now, did you -- were you ever involved
23 in washing down any of the aroclor

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1 department, any cleanup, daily cleanup or
2 anything?

3 A. Yeah, we cleaned up -- not -- I wouldn't say
4 daily.

5 Q. Wasn't daily? How often do you think you
6 cleaned?

7 A. Well, not as often as they wanted us to.
8 Probably once a week.

9 Q. Once a week you'd clean?

10 A. Yeah.

11 Q. And what would cleaning entail? What would
12 it usually mean to clean?

13 A. According to what product you're talking
14 about. Are you talking about liquid
15 aroclor?

16 Q. Okay. Let's do that first because actually I
17 want to talk a little bit more about the
18 solid and kind of how you made that too a
19 little bit. So let's stick with the liquid
20 part, and then we'll move over to solid.

21 I know I told you I was going to
22 take you to biphenyl, but I'm going to break
23 aroclor into two sections.

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1 A. We washed down, hose.

2 Q. With a hose?

3 A. Uh-huh (indicating yes).

4 Q. Just like you were washing off your car kind
5 of idea?

6 A. Yeah.

7 Q. At that point, do you shut everything down,
8 shut everything off while you're hosing, or
9 does it still work while you hose?

10 A. It still works.

11 Q. And just create an image for me if you will.
12 Are y'all standing in there with a bunch of
13 garden hoses sticking your finger over the
14 nozzle to spray it and going like this
15 (indicating)?

16 A. Well, yeah. It's bigger than a garden hose.
17 What we used in the chemical plant is bigger
18 than a garden hose, but yeah, it's got a
19 nozzle that you make the stream stronger and
20 so forth, and that's what we use.

21 Q. Are you hosing down both the chlorinator and
22 blow tank area and the interior area where
23 the stills are?

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1 A. No, we didn't wash this up here around the
2 stills. We didn't wash it down.

3 Q. Nothing gets washed down in there?

4 A. Not in here, no.

5 Q. What do you do if you have a leak up there?

6 A. Now, we're up on the second floor.

7 Q. Yeah, you're not allowed to have a leak up
8 there?

9 A. You don't have a leak up there.

10 Q. No such thing as a leak? Not ever in all
11 your time there?

12 A. Not that I know of. Around your filter here
13 sometimes you might get a little --

14 Q. A little something?

15 A. Yeah, when you cleaned the filter, but we'd
16 sand it. We wouldn't put water on it.

17 Q. I'm sorry. Sand or water or sand?

18 A. No, just sand.

19 Q. Because you don't want water in the filter or
20 near the filter?

21 A. No.

22 Q. Okay.

23 A. If we had a little spill, we'd put sand and

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1 shovel it up and put it in the same drum we
2 had the filter papers in.

3 Q. What would you do with the leftover sand?
4 Because you can't get everything, obviously.
5 You just sweep it up?

6 A. Yeah, right.

7 Q. Okay. But none of your stills -- you never
8 had -- as long as you remember, none of those
9 pipes ever leaked? I mean, because you've
10 got a lot of pipes. None of your --

11 A. On the second floor we're talking about?

12 Q. Right. I'm just talking second floor, and
13 then we'll move back down to the other area.

14 A. No, not on second floor. I don't remember
15 anything, no.

16 Q. Okay.

17 MR. PECK: Is there a question?

18 Q. (By Ms. Ruth) I'm sorry. I wanted to go
19 back down there to your downstairs, to the
20 outside area. That's where you're hosing
21 down?

22 A. Yeah.

23 Q. Okay. And you hose it down with -- do you

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1 use hot water, cold water, doesn't matter?

2 A. Hot water.

3 Q. Hot water.

4 A. Well, it's a mixture of steam and cold water,
5 and it makes it warm.

6 Q. Where do you get your steam from? Does steam
7 come from a hose too?

8 Are you getting ready for a break?

9 A. No. You had a header where steam and water
10 came together, and you cracked the valves.
11 And when it came out, you just feel of it and
12 regulate until the water got warm. Steam
13 would mix with the water.

14 Q. Okay. So, again, this is more pipes.

15 A. Right.

16 Q. You've got two hard pipes coming together
17 like this. One is piping regular water; the
18 other is piping steam, and there's one --

19 A. What they call a mixer on it.

20 Q. Okay. What is a mixer? Does a mixer
21 actually look like anything, or is there just
22 this place where the two converge?

23 A. It's just where it converges. We still use

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1 that type thing over there now.

2 Q. And then you just hook a hose on it?

3 A. Uh-huh (indicating yes).

4 Q. Okay. So is there only one hose that's used?
5 I mean, so is it only one person can do the
6 actual hosing down?

7 A. Right. We may have different steams, mixing
8 stations, throughout the department, but one
9 won't reach the whole department.

10 Q. Okay. So where do you have -- where around
11 there might you have different stations,
12 mixing stations? Where around the outside
13 there?

14 Would there be three or four or
15 six?

16 A. This side of the building. You'd have one
17 maybe right here (indicating) --

18 Q. Okay.

19 A. -- on this side of the building. It'd reach
20 all in under here. Same way over here on the
21 bottom floor, you'd have one.

22 This was a big building that had
23 another department that used part of it. I

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1 don't know what all they had down here.

2 Q. What's on the bottom floor that -- the stills
3 are on the second floor; right? What's on
4 the first floor?

5 A. They stick through the floor.

6 Q. Okay.

7 A. Just the tops of them is on the second floor;
8 the bottom --

9 Q. Where is the filter and all that and the
10 receivers?

11 A. All this is on the second floor.

12 Q. Okay.

13 A. Control room's on the second floor.

14 Q. So does the receiver stick through to the
15 bottom floor also?

16 A. Yes.

17 Q. And the filter thing is only upstairs?

18 A. Uh-huh (indicating yes).

19 Q. So it's actually piped out from upstairs to
20 the tanks?

21 A. Uh-huh (indicating yes).

22 Q. So do you hose down the inside of -- the
23 first floor of the inside building, the

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1 bottom part where the still -- not the
2 upstairs part, not the second floor where you
3 told me there's no leaks, but the downstairs
4 part?

5 A. Yeah.

6 MR. PECK: Did you hose that down
7 is what she's asking?

8 THE WITNESS: Yeah. On the bottom
9 floor, I don't remember. Probably did. Most
10 of the time -- any time we had a spill down
11 there or if we got a product -- happened to
12 get it on the floor, we'd put sand on it
13 mostly.

14 Q. (By Ms. Ruth) Would that ever happen
15 downstairs? I mean, I guess where did it
16 happen most often? If you were going to have
17 a leak in the inside -- if you were going to
18 have a spill or leak on the inside of the
19 building, it's more like -- is it more likely
20 to happen downstairs?

21 A. Yeah.

22 Q. So that's why you were telling me upstairs
23 was pristine?

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1 A. Right.

2 Q. As pristine as you can have it?

3 A. Right.

4 Q. So your downstairs -- and why -- why would
5 you -- if you were going to have a spill
6 downstairs, why would you have it?

7 A. Well, I wouldn't say spill.

8 Q. Is it a spill or a leak?

9 A. Leak.

10 Q. It's gonna be a leak more than a spill.
11 Okay. What would be the cause of something
12 like that?

13 A. Pump seal leaking or something.

14 Q. Pump seal leak. Okay. So now I'm getting --
15 I'm a little confused because --

16 A. These have pumps too.

17 Q. They have pumps too?

18 A. You got to pump to the storage tank.

19 Q. Okay. So the pumps are at the bottom part of
20 it?

21 A. (Witness nods head.) And we had -- under
22 them was little drain pans under the pumps,
23 not under the motor, but under the actual

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1 pump part.

2 Q. And is this on the receiver?

3 A. Uh-huh (indicating yes), receiver pump.

4 Anything that leaked dripped out around the
5 shaft on the pump. It run out in a little
6 catch pan.

7 Q. Drip pan.

8 A. Uh-huh (indicating yes).

9 Q. So what I was thinking was happening on the
10 chlorinator in all likelihood was actually
11 what was happening on the receiver.

12 What I was describing earlier about
13 potentially having happened on the
14 chlorinator and you said I have no memory of
15 there being leaks from pumps on the
16 chlorinator --

17 A. That's true.

18 Q. Maybe what I was thinking of is leaks that
19 were happening over here on the receiver.

20 Now, were they relatively common or
21 at least early on?

22 A. Well, you know, you may -- when you're
23 pumping one out, you may have a drip, you

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1 know, coming out.

2 If it got bad, we'd have
3 maintenance come over and put a new seal in
4 it. Something like that.

5 Q. Do you remember did you use packing on those
6 pumps?

7 A. They used mechanical seals on them. Not what
8 you call packing.

9 Q. Okay. Mechanical seals.

10 A. Like I say, maintenance did it. We didn't do
11 anything to those type pumps.

12 Q. So if you'd get a leak, and a leak normally
13 went into a drip pan, did the drip pan
14 occasionally overflow or --

15 A. Well, the drip pan run into a bucket. We
16 kept, I guess, two and a half gallon bucket,
17 and it run in that bucket.

18 Q. Okay. So it's kind of like on an angle?

19 A. Right.

20 Q. Would it look like if you were painting a
21 house and you got the paint in the --

22 A. A little pan.

23 Q. Yeah, like that?

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1 A. You got it.

2 Q. All right. I'm getting down right
3 technical. And it goes into --

4 A. Little bigger, but that's basically it.

5 Q. And then it's running into your -- and so
6 occasionally, I guess, it may splish splash
7 around a little, and that's what would end up
8 on the floor, or is that not a source for
9 floor leaks?

10 A. Well, no. Like I say, it drips. Now, if a
11 seal -- with a pump, you're liable to have
12 anything happen, you know, mechanically. If
13 the seal suddenly went out, it might sling a
14 little around.

15 Q. Okay.

16 A. Ordinarily, it was just a drip.

17 Q. And then someone is there all the time in the
18 still room? Generally is --

19 A. Oh, yeah.

20 Q. -- one of the operators -- their job?

21 A. Yeah, we're through there all the time.

22 Q. And how many operators are in your still
23 room --

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1 A. Two.

2 Q. -- for one shift? Two. Do you normally have
3 one on each floor, or are y'all usually
4 traveling together?

5 A. According to what is going on. One operator
6 had one job. He may -- one of them may be
7 downstairs part of the time; one upstairs.
8 We work together on that job. Two-man job.

9 Q. So if a seal breaks, you're going to see it
10 pretty quickly?

11 A. Oh, yeah. We also had laborers working down
12 there continually.

13 Q. Laborers, yeah.

14 A. They was either drumming or bagging biphenyl.

15 Q. Bagging or drumming. So that's moving over.
16 So, I guess, what we're naturally moving into
17 is a discussion about your solid aroclor
18 because that's -- I'm assuming that's going
19 on downstairs near the stills?

20 A. Right.

21 MR. PECK: Before we go --

22 MS. RUTH: Do you want to take a
23 break?

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1 MR. PECK: Yeah.

2 (Short recess.)

3 Q. (By Ms. Ruth) Before -- I wanted to get
4 these marked in, and I realized in retrospect
5 that we haven't marked them real well, so if
6 we could just real quick -- and, you know, if
7 you'll okay it, I'll just write these. And
8 this is liquid chlorine tank cars.

9 MR. PECK: Do you want to call that
10 something while we're doing it?

11 MS. RUTH: Yeah, I'll call it the
12 plant --

13 COURT REPORTER: It's 23.

14 MS. RUTH: Oh, I'm sorry. That's
15 what you meant.

16 MR. PECK: That's okay too.

17 MS. RUTH: Liquid tank cars, and
18 then -- and we're going to say starting
19 approximately 1968.

20 Q. Is that what you said?

21 A. '69.

22 MR. PECK: I don't think he
23 remembered.

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1 Q. (By Ms. Ruth) Starting approximately -- and
2 we'll leave it '68 to '69. Would you rather
3 it just be '69? I want it to reflect what
4 you'd rather.

5 A. I don't know. Too long ago for me to
6 remember.

7 Q. Prior to that, this is supposed to be the --

8 A. -- chlorine plant.

9 Q. Chlorine department. Well, even after that,
10 it's the chlorine -- well, no, I guess -- so
11 prior to that, we had this was chlorine gas
12 pipe?

13 A. Uh-huh (indicating yes).

14 Q. And that's going to be prior to?

15 MR. PECK: Just say prior to tank
16 cars.

17 Q. (By Ms. Ruth) Prior to tank cars.

18 Then this is your tank farm?

19 A. Right.

20 Q. Little fancy art work there railroad tracks.
21 I'm sorry. This was the lab, I think?

22 A. Yeah, that was at that time.

23 Q. At that time. This was aroclor niran. This

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1 is old chlorine gas, backup chlorine liquid,
2 whatever?

3 A. Cars, right.

4 MR. PECK: Old tank cars.

5 Q. (By Ms. Ruth) Old chlorine tank cars. Okay.
6 And these were backup. I think it's going to
7 be that anyway, but just for me, backup to
8 point pipe gas pipe.

9 MS. RUTH: Okay. All right. I
10 don't know what number this is.

11 COURT REPORTER: It will be 23.

12 MS. RUTH: 23.

13

14 (Plaintiff's Exhibit Number 23 was
15 marked for identification and
16 copy of same is attached
17 hereto.)

18 Q. I think we did a better job with this one,
19 although it's a little not totally -- these
20 are old holding tanks; right, and they
21 were --

22 A. Yeah, or storage tanks.

23 Q. Storage. I want it to be called what it is.

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1 Storage.

2 MR. PECK: Now she's messing up
3 your drawing.

4 Q. (By Ms. Ruth) I know with my less than
5 legible handwriting.

6 These are our blow tanks,
7 chlorinators. I know everybody else knows
8 this, but I want to make a notation for
9 myself that it's outside and concreted.

10 All right. Acid department. Now,
11 this is leaving a little bit to be desired,
12 but these little circle things are --

13 A. -- storage tanks.

14 Q. Storage tanks.

15 A. Yeah.

16 Q. This thing is our carbon filter?

17 A. Yeah, it's the column.

18 Q. This is the column; right, and this is the --
19 or which one is the filter, and which one's
20 the column?

21 A. Well, it's not really drawed the way it -- it
22 went into this column then out. We'll say
23 this is the filter.

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1 Q. Okay. You could make that an arrow so that
2 -- into the pipe, yeah, and out.

3 A. (Witness complies.)

4 MR. PECK: Make sure you have an
5 arrow showing how it flowed.

6 Q. (By Ms. Ruth) Both work. And then it came
7 out through the filter?

8 A. Yeah.

9 Q. Okay. And then out to the storage tanks.

10 A. Okay.

11 Q. Kind of tiny. Once we copy it, it will be
12 even worse, but that's all right.

13 Do another little arrow. Acid
14 department. It will work.

15 A. It was very simple, acid department. Wasn't
16 anything to it.

17 Q. Aroclor. I think we've got a bunch of hand
18 drawings of this.

19 MR. PECK: And that's Plaintiffs'
20 Exhibit 24, your aroclor map.

21 MS. RUTH: Uh-huh (indicating yes).
22

23 (Plaintiff's Exhibit Number 24 was

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1 marked for identification and
2 copy of same is attached
3 hereto.)

4 Q. And I don't know that we need that one
5 because I think this one captures -- unless
6 you'd like to see that memorialized and like
7 to know that lives on.

8 A. That's just hand scratching.

9 Q. Okay. So we'll just leave these two that
10 way. Now, we may want to start with a -- why
11 don't you mark on here just where the solid
12 aroclor section took place? Mark it on
13 Plaintiffs' Exhibit 24.

14 And then I think we might want to
15 do a separate drawing because I don't know
16 anything about that at all, really.

17 A. You want me to do it separate?

18 Q. Yeah, but just in here, show where it's going
19 to be, and then we'll kind of blow it up on
20 here. But where was it taking place, the
21 solid aroclor production?

22 MR. PECK: The solid aroclor
23 stills.

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1 THE WITNESS: They were right here.

2 Q. (By Ms. Ruth) Okay. You want to --

3 A. Do you want me to draw it on there?

4 Q. Yeah, draw the stills, and just label that
5 they're -- or just even put the little stills
6 in there and then solid -- label them somehow
7 solid aroclor stills.

8 MR. PECK: You need to say solid.

9 Q. (By Ms. Ruth) Solid will work, yeah.

10 A. Later we had a bigger one, and it was solid.

11 Q. Do you want to put that that came later?

12 Just put parenthetically under it that it
13 came -- when later, do you know when later?

14 A. Not right off. I don't remember.

15 Q. Okay. And then where was your drumming and
16 flaking?

17 A. It was downstairs.

18 Q. Downstairs?

19 A. Well, let me back up. The flaker was
20 upstairs.

21 Q. Upstairs?

22 A. Yes. Where we actually flaked the solid
23 aroclor. It went into a chute, a hopper

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1 downstairs, and they bagged it out on the
2 bottom floor.

3 Q. You know what, why don't we first describe
4 the process on here because I think it would
5 be easier to just make little labels.

6 Right now, you'll make a little
7 label, and I'll be drawn to want to ask you
8 what that means, and I won't need to ask you
9 what it means if we -- if you describe to me
10 how y'all made solid aroclor.

11 And I believe that that's -- is
12 5460 your solid aroclor product? Which are
13 your solid aroclor?

14 A. In the chlorinator, it was 5060, and after it
15 was distilled, it became 5460. That's the
16 way we distinguish --

17 Q. The distilling is what brought you to your
18 final product?

19 A. Right.

20 Q. Do you know what the -- do you know what the
21 50 and the 54 stood for or the 11 and the 12
22 stood for or whether just -- do you know if
23 it was just a way if distinguishing or if it

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1 actually held any meaning?

2 A. That, I couldn't tell you.

3 Q. Couldn't tell me.

4 A. It was always that when I went to work there,
5 and I don't know what it meant. I did know
6 the different numbers meant raw product and
7 chlorinator, and then finished product always
8 had a -- liquid was 12 is solid was 54.

9 Q. Okay.

10 A. Okay. You want what now?

11 Q. I kind of want to know how it worked. Did
12 you start out using these -- I mean, did you
13 start out here? Did you start out --

14 A. No, no, no. This is all liquid here.

15 Q. Okay.

16 A. We had solid chlorinators.

17 Q. So it's an entirely different process from
18 your liquid aroclor?

19 A. Right.

20 Q. Perfect. Well then, let's just start from
21 scratch and talk about --

22 A. The best I can remember.

23 Q. That's what Adam wants. Adam wants to start

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1 from scratch. He's on the edge of his seat.

2 A. Okay. Chlorinators. It had a -- let me
3 think. (Witness drawing.)

4 Q. So you had two chlorinators for that?

5 A. Uh-huh (indicating yes).

6 Q. And were they batch or continuous?

7 A. Batch.

8 Q. They're batch. Real quick, going back to the
9 liquid chlorinators. Are these batch or
10 continuous?

11 A. These are batch; these are continuous.

12 Q. Okay. So the four on the top of the
13 drawing --

14 A. Right.

15 Q. -- are batch?

16 A. Batch, uh-huh (indicating yes).

17 Q. And then the four on the bottom of your
18 chlorinator drawing are continuous?

19 A. Uh-huh (indicating yes).

20 Q. So you're four and four. And you said you
21 had continuous for your solid?

22 A. No, it was batch.

23 Q. I'm sorry. Batch.

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1 A. They were batch. Batch. We'd charge them up
2 and finish them and then pump them empty and
3 recharge.

4 Q. So two batch?

5 A. Yeah.

6 Q. How long -- how long would a batch take to
7 cook?

8 A. In the chlorinator?

9 Q. Yeah, for the solid.

10 A. I have no --

11 Q. Would you finish it in a shift?

12 A. Yeah.

13 Q. You would finish it in a shift?

14 A. Yeah, I'm pretty sure we'd finish it in a
15 shift, but now I don't remember --

16 Q. You don't remember if you got through one or
17 two batches in a shift?

18 A. See, this one operator was running all of
19 this.

20 Q. One operator ran all of the liquid aroclor
21 and the solid?

22 A. Yes.

23 Q. One operator?

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1 A. Yes.

2 Q. Okay.

3 A. And if you got lucky and had time to eat
4 lunch, okay; if you didn't --

5 Q. I bet. I bet.

6 A. I don't remember.

7 Q. Except you said you had two operators for the
8 stills.

9 A. Uh-huh (indicating yes).

10 Q. You're saying you had one operator for
11 chlorinator blow tank part for both the solid
12 and the liquid?

13 A. Uh-huh (indicating yes).

14 Q. But the still part is separate?

15 A. Still was separate.

16 Q. Okay.

17 A. The operator for these run just the stills
18 and the solid stills. He didn't have
19 anything to do with the chlorinator.

20 Q. Okay. So you have a still operator and a
21 chlorinator operator?

22 A. Right. There was two --

23 Q. But two still operators because --

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1 A. Because you was running a flaker and
2 different other little jobs, and one man just
3 didn't have time to --

4 MR. PECK: That's a solid aroclor
5 operator and liquid aroclor operator on the
6 stills?

7 THE WITNESS: No, it was all mixed.

8 MR. PECK: But you just had two of
9 them?

10 THE WITNESS: Yeah, just had two of
11 them.

12 MR. PECK: Sorry. It was getting
13 confusing.

14 THE WITNESS: Maybe some of these
15 other guys remember better than I can. You
16 got one tomorrow that's pretty good. Let's
17 see. Okay.

18 Q. (By Ms. Ruth) So you've got two batch
19 chlorinators for the solid and a blow tank --
20 one blow tank for the solid?

21 A. Yeah.

22 Q. Okay.

23 A. Now, these was tied together, and it came to

FOSHEE & TURNER COURT REPORTERS

1 the blow tanks.

2 Q. Okay.

3 A. And we had still here, and later we had a --
4 there was number four still.

5 Q. You had -- you called it the number four
6 still?

7 A. Right.

8 Q. Because you had three stills for your
9 liquid --

10 A. Right.

11 Q. -- and so just when you moved -- you only --
12 initially, I guess, you only had one still
13 then for your solid?

14 A. Right.

15 Q. You later added another still?

16 A. Right. We added number five.

17 Q. Do you know when y'all added number five?
18 Would this be --

19 A. Again, these dates, I can't remember.

20 Q. Would this be about the same time maybe you
21 put in the tank farm and switched over to the
22 tank cars -- liquid tank cars for chlorine?
23 I mean, was all that happening about the same

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1 time, do you know?

2 A. I really don't remember.

3 Q. You just don't remember?

4 A. I don't -- I don't think they all went in the
5 same time.

6 Q. No?

7 A. I'm not for sure.

8 We had number five still, and it
9 was -- all this was solid.

10 Q. Do you think it was at least closer, pretty
11 close to when they ultimately shut it down?

12 A. No, this was a few years before.

13 Q. Few years before?

14 A. Yeah.

15 Q. Maybe -- again, are we thinking '68, '69?

16 A. '69, '70, yes, ma'am.

17 Q. Okay. Do you want to put that
18 parenthetically under number five just so we
19 realize it wasn't there? Came around '69 or
20 '70.

21 A. (Witness complies.)

22 Q. Did you ever add anymore blow tanks?

23 A. No.

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1 Q. Everything else stayed the same?

2 A. Right.

3 Q. Okay. So this is your initial process? This
4 is prior to drumming and flaking; is that
5 right?

6 A. Uh-huh (indicating yes).

7 Q. So you --

8 A. All this was flaked.

9 Q. Once it came out of the still, it was flaked?

10 A. Right.

11 Q. Okay. But we start out -- what goes out into
12 your chlorinators here?

13 A. Santowax.

14 Q. Santowax. Where does santowax come from, do
15 you know?

16 A. Biphenyl department.

17 Q. Biphenyl department?

18 A. Uh-huh (indicating yes).

19 Q. So do you want to put a little arrow saying
20 santowax goes in there?

21 A. (Witness complies.)

22 Q. That came from your biphenyl, and what else
23 goes in there?

FOSHEE & TURNER COURT REPORTERS

1 A. That's it.

2 Q. And chlorine?

3 A. Chlorine.

4 Q. Okay.

5 A. Chlorine. These was big chlorinators.

6 Q. Were they bigger than the ones you use for
7 liquid?

8 A. Oh, yeah, yeah, way bigger.

9 Q. Way bigger. Like how big are these about,
10 the liquid ones? Six feet? Ten feet?

11 A. No, they're bigger than that. They wasn't
12 all that big around, but they was tall.

13 Q. Maybe six feet around?

14 A. And we didn't fill them -- yeah, something
15 like that. Six, seven.

16 Q. We're going to go up two stories, three
17 stories?

18 A. Bottom of them was down here and went up.

19 Q. One story, like, sixteen feet?

20 A. Fifteen feet.

21 MR. PECK: We're talking about the
22 liquid ones now?

23 Q. (By Ms. Ruth) Liquid ones are that?

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1 A. Yeah.

2 Q. And so how much bigger than that would you
3 say the solid ones are?

4 A. If this one held a thousand gallons, this one
5 would probably hold three or four thousand.

6 Q. So if liquid held a thousand, the solid would
7 hold three. Three to four times as big. Is
8 it much wider also?

9 A. Yes.

10 Q. I mean, it's proportionately bigger then?

11 A. Right, yeah. But it was charged up.

12 Q. Charged up means?

13 A. Charging in with Santowax.

14 Q. Putting in the santowax?

15 A. Putting the product in. Then you chlorinate
16 it.

17 Q. Uh-huh (indicating yes).

18 A. When it finished, pump it in the blow tank
19 just like the -- in other words, it blows a
20 certain length of time.

21 Q. Now, are you taking any off gas off of this
22 one too?

23 A. Yes, ma'am.

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1 Q. Is that off gas also getting pumped to
2 your --

3 A. Everything goes to HCL department or acid
4 department.

5 Q. Is there a filter coming off of that, off of
6 the -- and I should have asked you that for
7 the liquid chlorinator too -- is there a
8 filter coming off the chlorinators for the
9 gas?

10 A. No, ma'am.

11 Q. No. Okay. All right. So that stuff's
12 getting pumped -- your HCL is getting pumped
13 off of there?

14 A. Uh-huh (indicating yes).

15 Q. And it's getting pumped off your blow tank?

16 A. Right. All this is going to the department.

17 Q. Okay. Would you -- I'm sorry to make you
18 keep drawing it all, but just do your pipe
19 things and have a little HCL -- to HCL
20 department or something.

21 If you want, I can --

22 MR. PECK: Put to HCL.

23 Q. (By Ms. Ruth) That works.

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1 A. This is the same way.

2 Q. And then the blow tank is also the same?

3 A. Right.

4 Q. And then we go to number four still.

5 A. Either. We can go to either.

6 Q. Number four, number five. And you have
7 number four here. On our overview picture,
8 Plaintiffs' Exhibit 24, you have shown us the
9 number four still, and then this is -- what's
10 next to it is the number five still?

11 A. Uh-huh (indicating yes).

12 Q. Okay. Go back to your --

13 A. We charge this up to a certain level, and --

14 Q. Does your blow tank also act as a hold tank
15 in some way, or is this also going to -- see
16 how this one -- I mean, your liquid you went
17 from your blow tank actually to the roof
18 tanks; right --

19 A. Yeah.

20 Q. -- before you went into the still, so your
21 roof tank acted as a hold tank so you didn't
22 overwhelm your still?

23 A. Right.

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1 Q. Is there a hold tank for your solid aroclor?

2 A. I don't remember. I think when you finished
3 a batch here, best I remember, it went to the
4 blow tank; it blew a while, and then you
5 charged the still with it.

6 We didn't have a storage tank or
7 another tank to put it in.

8 Q. Maybe it was moving through the process slow
9 enough that your blow tank didn't get backed
10 up?

11 A. Right. You could stop these. If you was
12 having trouble with stills, the product was
13 backing up, you stopped your chlorinators and
14 stopped the process.

15 Q. Okay.

16 A. Kind of hard to do some of these continuous.

17 But we charged the stills up, and
18 then it circulated out of here through a
19 furnace heated up back through a condenser.

20 Q. Okay. Will you draw that because I guess I'm
21 having a little trouble imagining that?

22 You've got -- you first are pushing
23 it into your still --

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1 A. Uh-huh (indicating yes).

2 Q. -- and then it gets pumped right back out of
3 the still through a furnace; is that right?

4 A. Right.

5 Q. And the furnace --

6 A. Gas furnace.

7 Q. Gas furnace. Natural gas furnace?

8 A. Uh-huh (indicating yes).

9 Q. Do you want to draw a little depiction of
10 that?

11 A. Each one had its own furnace.

12 Q. Each still had its own furnace?

13 A. Yeah. (Witness drawing.)

14 Q. So you've got a pump on the base of your
15 still?

16 A. This has coils. I don't know how to draw
17 coils.

18 Q. Coils through your furnace?

19 A. Yes, you know, circulating.

20 Q. And that's what's -- and the aroclor is going
21 through --

22 A. -- through the coils. And fire is on -- of
23 course is coming up through here. It's got a

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1 burner.

2 Q. And are you pumping in your natural gas, or
3 is it attached to a tank?

4 A. No, it's natural gas.

5 Q. Getting pumped in?

6 A. It's going to the furnace and back over
7 circulating back to the still.

8 Q. Now, is that process continuous, or does the
9 aroclor only get heated one time per batch?

10 A. Per batch when you charge it up --

11 Q. Yeah.

12 A. -- you start it circulating, start your
13 furnace, heat it up, and then at a certain
14 temperature, it will start distilling over,
15 go to a vapor, come up, and go through a
16 condenser again.

17 Q. Okay. So it continues to go through the
18 furnace until it vaporizes?

19 A. Uh-huh (indicating yes).

20 Q. Okay.

21 A. And then -- let's see. I'm trying to picture
22 the tank it went to. It went into a
23 receiver, which is another tank.

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1 Q. Okay. Did each still have its own receiver
2 again?

3 A. Right.

4 Q. Okay. And again, did you have a filter
5 between the still and the receiver?

6 A. No, we didn't filter solid aroclor.

7 Q. Okay. Didn't need to filter since it was
8 solid?

9 A. No.

10 Q. Okay.

11 A. Let's see.

12 Q. That's the condenser?

13 A. Yeah.

14 Q. So you -- it vaporizes into the condenser;
15 the condenser condenses it and then sticks it
16 into the receiver?

17 A. Yeah. It's a vapor, and then it goes back to
18 -- it comes back in the receiver.

19 Q. Okay.

20 A. And from there, it went to the flaking tank.

21 Q. Okay. It went to a flaking tank?

22 A. Uh-huh (indicating yes), or flaker. I don't
23 believe it went to a tank. I believe it just

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1 went -- we pumped it out of here and had a
2 control valve on the flaker --

3 Q. What's the consistency like now of a solid
4 aroclor?

5 A. It's hot. You got to keep it hot or it will
6 go to solid. Just as soon as it cools
7 down --

8 Q. Is it real thick?

9 A. Yes.

10 Q. Thick like -- what would be a similar, wax,
11 molasses?

12 MR. PECK: Went solid.

13 THE WITNESS: Like a block of ice
14 only it's hot. You know, when it cools
15 down --

16 Q. (By Ms. Ruth) I mean when it's hot?

17 A. That's what it looks like, you know. It's
18 just solid.

19 Q. It's real -- it's real solid? It's hard like
20 a table hard?

21 A. Right.

22 Q. Okay.

23 MR. PECK: Not when it's hot.

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1 MS. RUTH: Right, right. Okay.

2 THE WITNESS: But we pumped the
3 flaker which had a little pan under it with a
4 drum that turned with a motor.

5 Q. (By Ms. Ruth) Now, where are your flakers?
6 Let's go back to Plaintiffs' Exhibit 24 and
7 look at the big picture. And where in the
8 big picture are your flakers?

9 A. The building? The flaker set -- if this is
10 the whole building, control room and
11 everything, the flaker sat out here
12 (indicating).

13 Q. Right there. Just past the filter
14 presumably --

15 A. Uh-huh (indicating yes). It's almost
16 across --

17 Q. And presumably underneath this pipe that
18 ultimately goes out to your outside storage
19 tanks. Is that running along the roof of the
20 -- or ceiling of the upstairs, or is it
21 running right through the middle?

22 I mean, are you bumping into that
23 pipe that pumps it from the filter --

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1 A. No, it runs along the wall --

2 Q. So it's taller than you? Oh, along the --

3 A. Something like that.

4 Q. Okay. All right.

5 A. Yeah, they had it where it --

6 Q. -- wasn't in your way?

7 A. You can't run into it.

8 Q. Okay.

9 A. In fact, I believe it came up through the
10 floor right into the pan, best I remember,
11 from the receiver.

12 Q. Came -- comes from the receiver --

13 A. Uh-huh (indicating yes).

14 Q. -- and it comes -- it's piped up to a pan?

15 A. Uh-huh (indicating yes).

16 Q. Okay.

17 A. Again, this is a big --

18 Q. It's a big pan?

19 A. Yeah.

20 Q. Made out of --

21 A. -- steel, metal.

22 Q. Steel. Some kind of steel. And so it's
23 coming up as this molten type deal --

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1 A. Right.

2 Q. -- up to your pan?

3 A. Uh-huh (indicating yes).

4 Q. Your pan is on your second floor. Your
5 receiver is on your first floor or your
6 second floor?

7 A. Well, both. It --

8 Q. It's big?

9 A. -- sits through the floor.

10 Q. It's big.

11 A. Yeah.

12 Q. So your receiver is as tall as your
13 chlorinator?

14 A. Yeah, it would hold a whole batch.

15 Q. So it's going to be the equivalent size of
16 your chlorinator?

17 A. Right.

18 Q. Okay. Which was about three thousand --

19 A. Of course it don't look like the chlorinator,
20 but yeah, it's a big tank.

21 Q. All right. So it's running about -- and then
22 -- through your receiver -- and then your
23 flaker is only on the second floor?

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1 A. Right.

2 Q. Okay.

3 A. The actual flaker is on the second floor.

4 Q. Okay. Immediately across from the filter
5 that was working on the --

6 A. Uh-huh (indicating yes).

7 Q. -- liquid aroclor? Do you want to mark that
8 as a flaker?

9 A. (Witness complies.)

10 Q. Okay.

11 A. If you can remember that.

12 Q. I can't wait to see how this comes out when
13 it's Xeroxed.

14 A. I'm not an artist.

15 Q. Okay. So maybe we now need yet another
16 drawing. Maybe we'll put Plaintiffs' Exhibit
17 25 on your depiction of the solid aroclor
18 here.

19 MR. PECK: Since you've been
20 labeling it, why don't you label it solid
21 aroclor too.

22 MS. RUTH: Okay. Aroclor overview.

23 --oOo--

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(Plaintiff's Exhibit Number 25 was
marked for identification and
copy of same is attached
hereto.)

Q. Okay. Now we'll -- real quick, let's go
through how the flaker worked.

A. The flaker. All right. I don't know how to
draw it. It's -- let me describe it, and
y'all help me draw it.

It's a big drum, and the motor
drums real slow, like one of those packers
like you run up and down a road -- street --
with, you know. That's what it looked like.

Q. Like if you were going to bring cement? Like
a cement truck?

A. Only it's a cylinder. It's not --

Q. No?

A. No.

Q. Doesn't look like that?

A. No.

MR. PECK: What he's trying to
describe is like an asphalt roller.

THE WITNESS: Like a roller.

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1 MR. PECK: Like you see on the side
2 of the road when they're rolling down --

3 THE WITNESS: When they put down
4 asphalt, when they run that big machine
5 that's got that roller on it packing it.

6 Q. (By Ms. Ruth) Okay. Yeah, yeah, yeah, yeah.

7 MR. PECK: Steam roller, yeah.

8 THE WITNESS: Yeah, steam roller.

9 MS. RUTH: Only woman in a room of
10 men. Okay.

11 Q. Let's go.

12 A. But it's a huge cylinder like that. It's got
13 water piped through it.

14 And it sits down in that pan a
15 little bit, not all the way down but just
16 down where it's in that liquid aroclors that
17 run in that pan. That pan's got sides on it
18 yea high (indicating).

19 Q. Okay. So it's sitting in the pan -- your
20 roller's sitting in the pan. Is it touching
21 the bottom of the pan?

22 A. No.

23 Q. It doesn't touch the bottom?

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1 A. No, it doesn't touch it.

2 Q. So are there suspension on either side --

3 A. Right.

4 Q. -- that are holding up your --

5 A. Uh-huh (indicating yes).

6 Q. -- roller?

7 A. Got barons on it and got a motor --

8 Q. Okay.

9 A. -- that turns it.

10 Q. It's turning.

11 A. The pan is electrically heated to keep that
12 solid aroclor hot in there where it won't go
13 to a solid.

14 Q. It's electrically heated. Does that mean
15 it's plugged into something?

16 A. Yes, it's got a power supply run to it.

17 Q. Okay.

18 A. Four forty, I think what it was, four hundred
19 and forty volts. It had little heating
20 elements in it that kept that pan hot.

21 Q. Is there some sort of a drain or something at
22 the base of the pan where the stuff is
23 bubbling up from the receiver?

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1 A. No, it's pumped in there.

2 Q. It's pumped.

3 A. It comes in over the line. It just runs in
4 the back of the pan.

5 Q. Okay.

6 A. Runs out in the pan. This is pretty big --

7 Q. How big is your pan?

8 A. Probably as big as this table where the
9 section is here.

10 Q. So, what is that, like, three feet wide?

11 MR. PECK: About four feet by four
12 feet.

13 MS. RUTH: Four feet by four feet.

14 THE WITNESS: It was big.

15 Q. (By Ms. Ruth) Okay.

16 A. That drum now sitting in that liquid, when
17 you start it, it starts turning. As it comes
18 over, that liquid will stick to that thing
19 and come over.

20 As it comes over, it had a piece of
21 steel blade like type that that blade run
22 across, scraped against that cylinder. And
23 when it came over, that aroclor had already

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1 turned solid --

2 Q. Okay.

3 A. -- because it cooled down as it was coming
4 up.

5 Q. So there's only just one blade on this
6 roller?

7 A. Uh-huh (indicating yes), one blade.

8 Q. One blade.

9 A. Most of the time, it will just fall off in
10 sheets. It looked like taffy candy or
11 something, only it was more solid than taffy.

12 Q. So it's coming up -- the blade is coming up
13 underneath and shaving off the top part of
14 this?

15 A. Yeah. It's run along the cylinder. Let me
16 -- if that was turning, that blade would be
17 right there. And as it turned, see, it would
18 scrape it off and be stuck to this --

19 Q. Okay. I'm messing this up. When this is --
20 when your roller turns, it picks up. Like if
21 you had a rolling pen -- if I could use one
22 of my analogies -- on flour, you'd be rolling
23 it -- like you roll it on the flour and it

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1 would pick up the flour, and then you would
2 have the equivalent of --

3 A. By the time it got to the top, it turned
4 solid.

5 Q. Okay.

6 A. And when it came back over --

7 Q. -- and as it's continuing to turn, you've got
8 the equivalent of a razor, I guess?

9 A. Uh-huh (indicating yes). If it happened to
10 be some stuck to that cylinder, this blade
11 would scrape it off, and it would fall down
12 in a little chute the whole length of the
13 pan.

14 Q. Okay.

15 A. And it had some little teeth like things that
16 turned in there that broke it up if it --

17 Q. So it goes down a chute. Where does the
18 chute go to? Where is -- where does --

19 A. It goes -- it went into a hopper.

20 Q. I mean -- okay. In the grand scheme of the
21 plant, if we go back to the plant -- and
22 we've got our flaker on the second floor
23 here. Flaker is turning, and you're

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1 scrapping off these big sheets off of your
2 roller, and they're going down a chute --

3 A. They're actually going into a hopper. It's a
4 big -- shaped like a cement truck you was
5 talking about.

6 Q. Okay.

7 A. Kindly cone shaped.

8 Q. Okay.

9 A. It falls down in it.

10 Q. Okay. And it's sitting below?

11 A. Right below it.

12 Q. So almost like if you were down on the first
13 floor, can you see the cone coming down from
14 the where the flaker was, the hopper coming
15 down from the flaker?

16 A. Yeah.

17 Q. You can see that?

18 A. Right.

19 Q. So it's hanging -- how far is it hanging down
20 to the first floor?

21 A. All the way --

22 Q. -- to the ground?

23 A. Probably this far (indicating).

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1 Q. About three --

2 A. About three feet.

3 Q. -- feet up off the ground?

4 A. Yeah.

5 Q. So does the hopper hold it?

6 A. Uh-huh (indicating yes).

7 Q. And you make a decision whether or not to let
8 it out of the hopper?

9 A. They're bagging it up and putting it in bags.
10 We had laborers down there.

11 Q. The laborers are standing at the base of the
12 hopper?

13 A. Uh-huh (indicating yes).

14 Q. And you can almost open the equivalent --
15 well, you explain it to me.

16 A. You're doing good. When it went down in the
17 hopper, they had a little drum -- bagging
18 station there. They had a fifty-pound bag
19 put on a little chute that come out of the
20 hopper.

21 We had a little screw on there that
22 brought the product out into the bag.

23 Q. Okay. Now, is it going to come out in the

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1 sheet it was scraped off?

2 A. No, no. When it fell off, it'll usually just
3 break off like glass, like real thin glass is
4 what it looked like. But it also had -- when
5 it fell off, it went down a little trough
6 that had little teeth that turned with a
7 motor.

8 Q. Okay.

9 A. And it would break it up into little bitty
10 pieces and fall down in the hopper.

11 Q. Now, at this point, what does it feel like or
12 look like?

13 A. It's just --

14 Q. Is it waxy or soapy or solid like --

15 A. I don't know how to describe it.

16 Q. Wood chips or --

17 A. I'm trying to think of something I could. I
18 don't -- it's like real thin glass is what it
19 looked like, only it had a yellow tint to it,
20 golden.

21 Q. Could it cut you?

22 A. No.

23 Q. It wasn't sharp enough?

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1 A. It wasn't sharp. It would break like glass.
2 It was real thin.

3 Q. Okay.

4 A. Because when it come off, it just had a film
5 of it on there.

6 Q. How about would it be almost like plastic,
7 shavings of plastic?

8 A. Not that -- you could break it. It was very
9 easy to break.

10 Q. Okay.

11 A. Just get it in your hand like that, and it'd
12 just break it all to pieces.

13 Q. Okay.

14 A. But we had laborers down there that bagged it
15 up. The bags sat in a little chute there,
16 and they'd fill it up pretty much where they
17 thought was fifty pounds, take it off and put
18 it on a little scale.

19 If it needed a little more, they
20 had a little drum there, and they'd add some
21 to it.

22 Q. What kind of a bag is this?

23 A. Paper bag.

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1 Q. Paper bag like you'd get at a grocery store,
2 but bigger?

3 A. Well, it's closed in except at one end, sewed
4 bottom and top.

5 Q. Is it lined?

6 A. No, it was just real -- several layers of
7 paper, real thick. And when they took it
8 off, that end at the very corner of it, like
9 this is the bag, it had an opening here made
10 to go on this little round chute and just fit
11 up on it.

12 Q. So I'm thinking, like, a vacuum cleaner bag,
13 if you're going to put a vacuum cleaner bag
14 on?

15 A. Yeah, that's pretty good.

16 Q. Okay.

17 A. And when that bag got up, they could tell by
18 looking at it when it was about full, about
19 had fifty pounds, they would close it off and
20 take it off and set it on the scale there.

21 And if it needed just a little
22 more, they'd add some to it. They had a
23 little scoop there. They'd put some in it,

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1 or if it had too much, just take a little
2 out.

3 And then they'd fold that -- tuck
4 that corner in and stack it on a pallet. I
5 don't know how many is on a pallet. Probably
6 thirty bags to a pallet, something like that,
7 twenty-five.

8 Q. Okay. So would it be a kin to lining up bags
9 of lime or whatever?

10 A. Uh-huh (indicating yes), that's the same type
11 bag it was. Kind of like a bag of lime or
12 something.

13 Q. Okay.

14 A. And they would stack it up, and when they'd
15 get the pallet full, they'd move it with some
16 little ole pallet trucks they had and put
17 another pallet down.

18 They'd do this the whole shift --

19 Q. Okay.

20 A. -- until we run empty. If they happened to
21 catch up, you know, run the hopper empty,
22 then they'd get a little break.

23 Q. Now, did you ever work in the bagging part?

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1 A. No.

2 Q. No?

3 A. No, I never did no bagging.

4 Q. What did you do with the flakes that didn't
5 make it into the bag? If something doesn't
6 get into the bag or gets on the floor -- did
7 that ever happen?

8 A. Oh, yeah, they swept it up and put it in a
9 fiber drum.

10 Q. Into a fiber drum?

11 A. Uh-huh (indicating yes).

12 Q. Now, did they ever clean that area? A fiber
13 drum, is that any different from the other
14 drums we've talked about?

15 A. Yes.

16 Q. Fiber drum is different?

17 A. See, this is a solid. The others was liquid,
18 so you couldn't put it in a fiber drum.

19 Q. Okay.

20 A. It would finally go through it. It's made
21 out of paper type materials.

22 Q. The fiber drum is made out of paper type
23 material?

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1 A. Yeah, out of fiber, whatever.

2 Q. So is it like cardboard?

3 A. Uh-huh (indicating yes).

4 Q. Yeah?

5 A. Stronger.

6 Q. Stronger than cardboard?

7 A. A lot stronger. We still use those drums
8 over there.

9 Q. Still use those?

10 A. Yeah, certain product, PNP.

11 Q. Okay. And then did you ever hose down that
12 area also or --

13 A. We didn't get a whole lot of water around
14 that. We swept most of that up because it
15 was solid. It would sweep up.

16 Q. Do you remember ever hosing it down though in
17 a pinch, you know, relatives are coming over?

18 A. Not on solid, no.

19 Q. No?

20 A. No.

21 Q. Okay. I meant to ask you this before when we
22 were talking about hosing down the
23 chlorinator area. For the liquid

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1 chlorinators, did you ever use soap in your
2 -- or was it just water and steam?

3 A. Water.

4 Q. Water and steam?

5 A. Uh-huh (indicating yes).

6 Q. And the same for when you hosed down the
7 inside.

8 Okay. I have a document I need to
9 pull out real quick. This is a new one.
10 This is DSW085378, and it's actually just a
11 sampling. It's -- because it's a sixty page
12 document, and I didn't bring the whole thing,
13 but we can bring that next time if you need
14 it. It's an annual inspection from 1969.

15 And the only reason I brought it is
16 in here, you are named -- you're referenced
17 twice. One of them here is -- it says
18 "Aroclor Department." Part of the
19 inspection's Doug Rich along with Roland
20 Haydel, Tom Lackey, Joe Webb, and Dickey
21 Walker.

22 It's talking about -- I believe
23 this is your solid aroclor area because it

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1 says the process is biphenyl and/or santowax
2 is chlorinated and refined by batch
3 distillation. So since you said santowax was
4 your --

5 A. Yeah.

6 Q. -- ingredient. Your 1968 inspection
7 recommendations it says, "Major product
8 underway to eliminate burn hazards." Do you
9 know what burn hazards would have been at the
10 time? Does that ring a bell for you?

11 A. It could have been from steam line or
12 therminol line.

13 Q. Do you remember sort of being approached
14 about a project at the time that talked about
15 -- it's right there in the middle of the
16 page. It says -- does that ring any bells
17 for you? Do you remember anybody --

18 A. We get burned all the time. All those lines
19 are traced with steam.

20 They use copper tubing jumpers, and
21 when you get a section line that's put
22 together, they have a jumper that steam
23 tracing jumps over it, and that copper tubing

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1 steam going through it sticks up just nothing
2 on it.

3 Q. Okay.

4 A. Used to be. Now it's covered, but back then,
5 it wasn't.

6 Q. And would you not --

7 A. If you were just working around and you
8 happened to touch it, I mean you got a burn.

9 Q. Serious burn.

10 A. That may or may not be what they're talking
11 about.

12 Q. You just don't know?

13 A. No.

14 Q. What was the other thing?

15 A. Therminol lines are hot. If they're not
16 insulated good, you could get burned. I
17 really don't know what that was referencing
18 to. It's been so long.

19 Q. This also talked about emphasis placed on
20 insulation in department expansion. And it's
21 like I said, the 1968 inspection, but you
22 don't -- or 1969. It's the 1968 inspection
23 recommendation referenced in the 1969

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1 inspection.

2 And no comments, which I don't know
3 if that means there was no follow-up or
4 nothing happened based on these
5 recommendations from 1968. I have no idea
6 what that means.

7 But does this jog your memory about
8 a so-called expansion? I remember before, I
9 used that term, and you didn't know -- you
10 didn't know what I meant by "expansion," but
11 you did acknowledge they put in new tank
12 farms and additional chlorinators.

13 A. That's the only thing I can think would be an
14 expansion would be the adding those tanks and
15 stuff.

16 Q. There's one other thing I wanted to ask you
17 real quick because I didn't understand the
18 term. It lists you -- and it doesn't list
19 anything else in particular under it -- but
20 lists you under chlorine unloading. It lists
21 you along with Dickie Walker, Joe Webb, Tom
22 Lackey, and Roland Haydel.

23 A. That's unloading out of the tank cars, the

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1 vaporizers.

2 Q. Okay. I just wanted to know what that
3 meant.

4 A. Yeah.

5 Q. Okay. I guess we need to mark this. We're
6 up to 26.

7
8 (Plaintiff's Exhibit Number 26 was
9 marked for identification and
10 copy of same is attached
11 hereto.)

12 Q. Okay. I think I understand solid aroclor
13 pretty well. Let me just see if there's
14 anything else I need to know about it before
15 I move on.

16 I know what I wanted to ask you.
17 At some point, was there a separate -- was
18 the solid aroclor function moved, or was it
19 always in the same building as the liquid
20 aroclor?

21 A. While I was there, it was always the same
22 place.

23 Q. So you don't know anything about an

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1 additional solid aroclor warehouse, a
2 warehouse?

3 A. No, I don't know, no. They moved the flaker.

4 Q. They moved the flaker?

5 A. To a new warehouse across the street.

6 Q. Initially we have the flaker across from the
7 filter for the liquid aroclor --

8 A. Uh-huh (indicating yes).

9 Q. -- function? At what point do you know when
10 they moved that flaker to this new location,
11 this warehouse location, and where was the
12 warehouse location?

13 We're going back to Plaintiffs'
14 Exhibit 23, and it's the overview of the
15 plant.

16 A. Tank farm. This warehouse is still here
17 today.

18 Q. And we're putting the warehouse in the --
19 what is that, northwest corner?

20 MR. PECK: Northeast.

21 Q. (By Ms. Ruth) Northeast corner. And I --

22 A. They put both tanks -- we had a biphenyl and
23 an aroclor flaker, and they put them down

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1 here. They was much larger and everything.

2 Q. What were the two types of flakers you had?

3 A. Aroclor and biphenyl.

4 Q. Okay. So biphenyl is --

5 MR. PECK: -- what we're gonna do
6 next.

7 Q. (By Ms. Ruth) What we're gonna do next.

8 A. Okay.

9 Q. How did you get your stuff now from the
10 receiver to --

11 A. -- down here?

12 Q. Down here.

13 A. We had a tank down here we pumped into.

14 Q. So you ran lines out of the aroclor building
15 to a tank that sat where?

16 A. All of them is on this south end of the
17 building.

18 Q. South end of the warehouse?

19 A. Right. We had a tank for each one and also
20 had two flakers side by side. It was more
21 automated the reason they did it.

22 You know, get more production.

23 People filling bags sat on a machine that

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1 automatically weighed it and it dropped it on
2 conveyor, you know, more streamline. That
3 was part of the expansion on this -- they
4 built the tank farm.

5 Q. So all that -- we're getting back to the '68,
6 '69 time frame when they built that?

7 A. Right.

8 Q. Let's put that in here. About '68 to '69
9 when that's built.

10 And then these are tanks right
11 here?

12 A. Uh-huh (indicating yes).

13 Q. And this pumped from -- again, are these
14 underground or above ground?

15 A. No, they're above ground. Pipe is above
16 ground, goes up over here in a big pipe rack.

17 Q. Piped from receivers. Okay. All right.

18 And then from the tank, you pumped
19 it into your flaker?

20 A. Uh-huh (indicating yes).

21 Q. Does the flaker work the same as the other
22 flaker we talked about?

23 A. Right, just much larger.

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1 Q. It's just much larger?

2 A. Right.

3 Q. And you now have two -- well, you have one
4 dedicated to aroclors and one dedicated to
5 biphenyl?

6 A. Right.

7 Q. So you have separate tanks, presumably, for
8 your -- what's piped?

9 A. Right.

10 Q. How many tanks do you have that are holding
11 aroclor?

12 A. One.

13 Q. One tank for aroclor, and one tank for
14 biphenyl?

15 A. Right.

16 Q. All right. And the warehouse now is used for
17 something else?

18 A. Yes. We drum out of it now all different
19 kind of products. Those tanks and all that's
20 been moved out. The flaker and all that's
21 gone now.

22 Q. Do you know if they ever hosed down this
23 area, or was this also -- how did they clean

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1 up in the warehouse?

2 A. I didn't work down there. I don't really
3 know.

4 Q. Never did work down there?

5 A. No.

6 Q. Was --

7 A. Not around the flaker. I do now. That's
8 where I work now, but all that's gone, so I
9 don't know how they did it then.

10 Q. Was it -- that function was inside though,
11 the flaker was inside?

12 A. Right.

13 Q. Was that a cemented area?

14 A. Right.

15 Q. And, obviously, it was before --

16 A. Right.

17 Q. -- because your -- wood floors -- actually,
18 it was wood floors or cement floors, when it
19 was back in the old aroclor building?

20 A. It was cement.

21 Q. Cement. Okay. What was at the back end of
22 the warehouse when you -- you had your
23 flakers up front or at the south end?

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1 A. Right.

2 Q. What else was in that building?

3 A. Just storage area for product drums and
4 stuff, and the trucks come at the other end
5 at the docks. We had docks there where the
6 freight trucks backed in and we loaded them,
7 which is still true today.

8 Q. A dividing wall between --

9 A. No, it was all a big open --

10 Q. Big open space?

11 A. -- warehouse.

12 Q. Okay. I hate to do this to you because we've
13 been here so long, but I haven't come across
14 anybody else who has done bi -- worked in the
15 biphenyl department.

16 A. You will tomorrow.

17 Q. I will tomorrow?

18 MR. PECK: He's trying to get you
19 to put it off.

20 Q. (By Ms. Ruth) But is he going to be as smart
21 and helpful as you?

22 A. Smarter and helpful. My memory, I tell you,
23 that's a lot -- thirty something years ago.

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1 It's embarrassing.

2 Q. I think you're doing great. I got to be
3 honest. I think you're doing great. I think
4 Adam thinks you're doing too great because
5 I'm getting into it.

6 No, he just means your story
7 telling is taking us -- he wants to get home
8 in time for dinner.

9 Let's just talk real quickly about
10 the biphenyl department, and we'll move
11 through it as quickly as we can. You were
12 there -- I need to go back and look -- from
13 1990 to 1995; is that right?

14 A. Yeah, and then --

15 Q. And prior to that --

16 A. When aroclor shut down in '72.

17 Q. In '72. Was it essentially the same job both
18 times you were there?

19 A. I worked all of them. They got three
20 different jobs up there, and I worked all
21 three. We rotated.

22 Q. Had the process changed from when you were
23 there in the '70s to when you were there in

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1 the '90s, or was it the same?

2 A. Same.

3 Q. Same process? And you were a chief operator
4 or an operator?

5 A. Operator.

6 Q. You were an operator. Okay. Where is the --
7 if we go back to Plaintiffs' Exhibit 23,
8 where is the biphenyl department in relation
9 to everything else?

10 A. Let's see (indicating).

11 Q. Okay. So it's going to be just southeast.
12 In the southeast corner. Do you want to
13 write biphenyl?

14 A. (Witness complies.) Right beside 202 -- if
15 you go up 202, that's the department you see
16 there, biphenyl.

17 Q. And that building is still there?

18 A. Right.

19 Q. And they're still doing biphenyl today?

20 A. Right.

21 Q. What does the biphenyl department do?

22 A. It makes two products, biphenyl and santowax.

23 Q. Okay. Is santowax made separately, or is it

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1 a by-product of biphenyl?

2 A. It's a by-product.

3 Q. It's a by-product?

4 A. Uh-huh (indicating yes).

5 Q. And how do you make biphenyl?

6 A. Now, we're fixing to get into something here.
7 They get in cars of benzene.

8 Q. Bring in cars of benzene?

9 A. That's the initial product, which is unloaded
10 in the storage tank, run through what we call
11 a tube unit. It's a cracking unit.

12 It actually changes molecules on
13 it. Goes through it and goes back out.

14 Q. When the benzene goes in this tube, it
15 changes the molecules on the benzene?

16 A. Yeah, it's just a chemical process it goes
17 through.

18 Q. Do you add something else to it, or do you
19 add air or gas or something that would change
20 the molecules on it?

21 A. It's temperature.

22 Q. It's temperature. You're heating it or
23 cooling it?

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1 A. Heating.

2 Q. Heating it. How do you heat it?

3 A. With a furnace, big burners.

4 Q. So does it actually flow through the furnace?

5 A. It goes through coils in the pipe.

6 Q. I see. And does the benzene come up in a
7 tank where you drive up a tank of benzene?
8 Is it a tank car?

9 A. It's unloaded out of tank cars into storage
10 tanks.

11 Q. Two storage tanks?

12 A. Two storage tanks, right.

13 Q. So the same way you did the chlorine -- well,
14 not the same way because the chlorine went
15 right into --

16 A. Yeah, this is a liquid.

17 Q. And then is it pumped from the storage tank?

18 A. Through the tube unit.

19 Q. Okay.

20 A. And then after it comes out of it, it goes --
21 it goes through a column, distillation
22 column, and the temperature they run it
23 determines how much of it is santowax and how

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1 much is biphenyl. And --

2 Q. The temperature at which they run the
3 benzene?

4 A. Benzene column.

5 Q. After -- this is after you heated it the
6 first time?

7 A. Right.

8 Q. Then you pump it into -- you're pumping it
9 into the column; is that right?

10 A. Right.

11 Q. And how many columns do you use?

12 A. It's got two passes through it.

13 Q. It's one column, or how many columns do you
14 have?

15 A. Yeah, one column.

16 Q. Just one column in the whole place?

17 A. It's big. Sticks way up in the air. But
18 anyhow -- let's see.

19 The benzene flashes over the top
20 what is didn't -- wasn't converted. What
21 falls out is crude biphenyl, and then it's
22 pumped to another tank.

23 I haven't worked up there long.

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1 That guy tomorrow is going to be better. He
2 just left that department.

3 After it leaves there, it goes to
4 the column called biphenyl column, and the
5 biphenyl is real light. It flashes over the
6 top of this column. It goes through a second
7 column, got a condenser.

8 Q. Okay.

9 A. And it goes -- when it comes over, it's
10 called biphenyl. And that's -- it's a
11 finished product.

12 And the bottom -- the heavy part is
13 santowax, and it goes through another furnace
14 through another column, distilled again, and
15 then it's pumped to the HB40 department where
16 they make therminol out of it.

17 Q. Okay. And it used to be sent -- in addition
18 to the HB40 department, it used to be sent to
19 the aroclor?

20 A. Right.

21 Q. Okay. Now, what I'm going to do is take you
22 at your word that this other guy is going to
23 know more and reserve my right to call you

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1 back if he doesn't know enough.

2 A. Okay.

3 MR. WRIGHT: Do you want to find
4 out who that is?

5 Q. (By Ms. Ruth) Yeah, which one --

6 A. Charles Chatman. He worked up there for
7 years.

8 Q. Okay. He's actually the day after tomorrow.

9 A. Yeah, he worked up there for years and just
10 left the department.

11 Q. He's Thursday.

12 A. It would be more fresh in his mind.

13 Q. Well then, what I'll do is I'll count on him
14 to give me the real specifics, and like I
15 said, I'll reserve the right to hassle you
16 later if I don't learn what I need to learn.

17 But I've got what I think are some
18 rapid questions, and I'll let you go home to
19 dinner -- let y'all go home to dinner.

20 Real quick, did you ever go to the
21 landfill?

22 A. No.

23 Q. Never went up to the landfill?

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1 A. Never had an occasion to go.

2 Q. Okay. Were you -- was it ever -- were you
3 ever offered to be tested -- or did anyone
4 ever offer to you that you be tested for PCBs
5 in your blood?

6 A. I have been tested; the company has, yes.

7 Q. And did you get your results back?

8 A. Yes.

9 Q. And how did that work out? Do you know what
10 the results were?

11 A. It was in the forties. Forty-seven, I think.
12 It's been three or four years ago, five. I
13 don't even remember.

14 Q. Okay. And did you -- did anybody express any
15 concern to you about that, or were you
16 concerned about that?

17 A. I'm not concerned about it.

18 Q. You're not concerned?

19 A. No.

20 Q. Did the doctors or anybody -- did a company
21 doctor or anybody tell you to --

22 A. We had a guy from the home office come down
23 and held some meetings in the conference room

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1 about it and went over the results and what
2 it meant.

3 Q. Did he go over the results publicly or take
4 each of you individually?

5 A. No, it was a group.

6 Q. It was a group. And he said you got -- this
7 is what your results were?

8 A. No, he didn't know what our results were.

9 Q. Oh, he didn't know what your results were.

10 A. We got that privately. You know, he talked
11 about what they knew about PCBs and so forth.

12 Q. And did he -- did he express an opinion to
13 you about what would be considered an
14 elevated amount of PCBs?

15 A. I don't remember that he did.

16 Q. Okay. How long ago was that about?

17 A. You and them dates. I can't remember them.
18 Time flies. I'm going to say it was five
19 years.

20 Q. About five years ago?

21 A. Yeah.

22 Q. Okay. And do you remember when they were
23 shutting the plant -- when they were shutting

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1 the aroclor plant down? Do you remember
2 being told that there were shutting it down?

3 Do you remember how you were told
4 they were shutting it down? Do you remember
5 if you had any thoughts as to why?

6 Okay. I've ask you three
7 questions, so maybe we should start with the
8 first one. Do you remember being told that
9 they were shutting it down?

10 A. Yes, ma'am.

11 Q. And how did they tell you?

12 A. They called a meeting one day.

13 Q. The managers, your immediate supervisor?

14 A. Yes, supervisor.

15 Q. Who was your supervisor?

16 A. Let's see. That was Gerald Miller.

17 Q. Gerald Miller?

18 A. Yeah.

19 Q. Anybody else there that was running the show,
20 or was it just him?

21 A. Vince Haupt was a foreman. Pretty sure he
22 was there. I don't remember.

23 But they just called a meeting and

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1 said that after such and such date that they
2 was gonna cease making aroclor.

3 Q. About how far in advance of actually closing
4 the plant did they have the meeting do you
5 think? Do you think it was a month?

6 A. I'm gonna say a couple months.

7 Q. Couple months. Did they give you a reason at
8 that time why they were shutting it down?

9 A. No. Of course, we, you know, had heard some
10 stuff.

11 Q. Some grapevine kind of stuff?

12 A. Yeah, through the grapevine.

13 Q. Had y'all kind of speculated about why they
14 might have been shutting it down?

15 A. Well, yeah, it was publicity about PCBs.
16 Figured maybe that's what it was.

17 Q. When do you first remember hearing any
18 negative publicity or any publicity at all
19 about PCBs?

20 A. You mean the date?

21 Q. Yeah, or range. Was it a year before they
22 shut it down? Four years before they shut it
23 down? Ten years?

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1 A. I'd say a year and a half, two years before
2 they shut it down.

3 Q. Somewhere around 1970ish?

4 A. '71, yeah.

5 Q. Do you remember what kind of things you heard
6 in the '70s time range?

7 A. What I saw in the paper.

8 Q. Do you remember what kind of stuff that was?
9 I mean --

10 A. Well, you know, that and saccharin. They
11 came out with -- said they, you know, tested
12 and give rats massive doses of it and it
13 caused cancer in them, you know.

14 Q. Uh-huh (indicating yes).

15 A. But not in humans. So, you know, that had
16 been on the news. Us making it here too,
17 it'd been locally, you know, in the news.

18 Q. Did you ever hear about contamination
19 off-site, PCB contamination, off-site the
20 plant?

21 A. No.

22 Q. Have you heard about it recently, I mean, in
23 the context stuff?

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1 A. Oh, yeah.

2 Q. Is that the first time -- when was the first
3 time you think you heard about contamination
4 off-site?

5 A. Probably '94. '93 or '94.

6 Q. '93 or '94. Prior to that, you'd never heard
7 of --

8 A. Huh-uh (indicating no).

9 Q. -- PCB contamination?

10 A. When they started dredging, I think,
11 Choccolocco Creek or something, they come out
12 about it.

13 Q. How about mercury contamination, had you ever
14 heard about there being mercury contamination
15 on or off the plant?

16 A. No.

17 Q. No?

18 A. No, I never have heard that.

19 Q. What was I going to say? Do you remember
20 back either right around this what we've
21 called expansion time -- the term I think I
22 foist it on you -- but expansion time or
23 around then, do you remember there being any

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1 change in your production techniques, or was
2 there any new special training that went on
3 around that time that went along with the
4 expansion?

5 In that time frame '68, '69, '70,
6 was there anything unique that happened in
7 terms of your work in the aroclor department?
8 Do you remember getting any special
9 instructions, any new extra be careful
10 instructions? Anything really? Anything
11 that stands out?

12 A. I'm trying to think. One time they put in
13 some catch basin outside the department to
14 catch everything that run out of the
15 department.

16 Q. Okay.

17 A. And it was separated from any water going out
18 of the plant. I do remember them doing
19 that.

20 I don't remember whether it was
21 around that time or not.

22 Q. So this is the water -- is this the water
23 that normally ran to the limestone pit?

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1 A. Yes.

2 Q. And so you don't remember when they did that?
3 Would you put it in the '68, '69 time frame?

4 A. Yeah, '70. Somewhere in there.

5 Q. Somewhere in there --

6 A. Right.

7 Q. -- they put in a catch basin. And what is a
8 catch basin?

9 A. Well, I never did really look at it that
10 much. It was outside the department.

11 It was a pit or big in ground -- I
12 think it was made out of brick. Wasn't a
13 tank.

14 And all our water run into it
15 before it went out. Some way they separated
16 -- if it got any product in it, it would
17 separate it.

18 I don't know exactly. I didn't run
19 that part of it. I don't know how it
20 actually worked. But it was supposed to have
21 separated it, kept it from going out.

22 Q. Okay. Did you ever hear of them putting in a
23 second limestone pit? Was there just one

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1 limestone pit? Do you remember --

2 A. As far as I know. Just one.

3 Q. Just one.

4 MS. RUTH: And off the record.

5 (Discussion off the record.)

6 Q. (By Ms. Ruth) Okay. Let's see. I think --
7 oh, and also did you ever get involved in any
8 sampling in terms of plant effluent, the
9 water that left the PCB or aroclor
10 department?

11 A. No.

12 Q. Okay. Never involved in that?

13 A. (Witness shakes head.)

14 Q. Before we formally tie up, I just want to
15 take a break and visit with Drew and see if
16 there's anything he can think of that I
17 haven't thought of, and then we'll let you go
18 home?

19 A. Okay.

20 (Short recess.)

21 Q. Real quick. We'll go back to when you got
22 blood tested, and I think you said that there
23 was a meeting held sort of informing everyone

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1 that the blood test results had come back
2 in? That didn't happen?

3 A. The blood test came back, you know, the
4 results. And then later, a guy came down and
5 talked.

6 Q. If you want to, just quickly -- just briefly
7 describe that process for me. Do you get
8 notified by mail we're testing all people who
9 worked in the aroclor department? Do you get
10 tapped on the shoulder by your boss who
11 says --

12 A. You mean how do we first --

13 Q. Yeah, how was contact first initiated?

14 A. I heard it from the guys we worked with.
15 They said if we wanted to be tested for PCBs,
16 we could. Of course we all was tested. Out
17 of curiosity I was.

18 Q. Now, was everybody in the whole plant
19 tested --

20 A. No.

21 Q. -- or just anybody who worked in the aroclor?

22 A. People that worked in aroclor.

23 Q. And was it only people who still worked at

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1 the plant or people who had since retired or
2 quit or had been fired but had at one time
3 worked there?

4 A. I can't answer that. Now, I don't know
5 whether they got retirees or not.

6 Q. What was the day like when you got blood
7 tested? I mean, was there a doctor set up at
8 some central -- or nurse set up some place
9 central?

10 A. Yeah, we got a dispensary, and they just drew
11 the blood and sent it off.

12 Q. You went to a dispensary?

13 A. Yeah, we got one there at the plant.

14 Q. What does that mean?

15 A. First aid station.

16 MR. PECK: It's like nurse's
17 station.

18 THE WITNESS: First aid station.
19 Doctors come out, you know, and we have
20 physicals.

21 Q. (By Ms. Ruth) And did you get a -- okay. I
22 guess what I'm asking is: Did you get a
23 formal time to come by? Once you kind of

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1 heard about it, did you go sign up someplace
2 to say hey I want to get this done?

3 A. Best I remember, we signed up.

4 Q. You signed up?

5 A. Everybody that worked there wanted to be
6 tested, and then they give us certain time,
7 like, you know, between 1:00 and 3:00 come on
8 down and we'll draw your blood.

9 Q. So you don't remember any formal
10 notification? You just remember sort of
11 hearing it from other guys who worked in
12 aroclor?

13 A. It may have been on e-mail. I don't know.

14 Q. Does everybody have an e-mail address?

15 A. Yes.

16 Q. Oh, that's cool.

17 A. Uh-huh (indicating yes).

18 Q. Do y'all have your own computer?

19 A. Uh-huh (indicating yes). Each department.

20 Q. Okay.

21 A. Like I work in shipping, we've got computers
22 there, and we've each got our e-mail address.

23 Q. So you can jump on?

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1 A. Yeah. Of course the bosses now, people that
2 work in the office, they each one got the
3 individual computer.

4 Q. But y'all do have one central one you can
5 share?

6 A. Yeah.

7 Q. That's cool. So you go to get your blood
8 tested, and then what happens? You get
9 something in the mail or something passed out
10 with your paycheck or --

11 A. How did they notify us? It was a written
12 notice. I don't think it came through the
13 mail. I believe they gave it to us at the
14 plant.

15 We also got a mailbox where we come
16 in the main building there going to the bath
17 house that's got your name on it, and any
18 paper mail's always in there, forms or
19 anything. I believe it was in there.

20 Q. You check that usually on your way in on most
21 days --

22 A. Oh, yeah.

23 Q. -- to see if there's any mail.

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1 A. Yeah. Going down, you'll glance at it
2 because you walk right by it. Most of it's
3 e-mail, of course, that type stuff's not.
4 But I believe that's the way they notified
5 us --

6 Q. Okay.

7 A. -- was in a sealed envelope.

8 Q. So you get your results and you look at it,
9 and is it fair it didn't mean anything to you
10 at that point?

11 A. (Witness shakes head.)

12 Q. You had been given any -- had you been given
13 any explanation before you got your blood
14 tested as to what different levels could mean
15 or what anything could mean or different
16 levels of PCBs I mean?

17 A. What I had read, just twenty or something.
18 But I read that in the paper.

19 Q. You'd read in the paper that twenty was the
20 gauge at which anything over it --

21 A. Right.

22 Q. Okay. -- would be elevated? Okay. Then you
23 said at some point after you got your

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1 results, a meeting was called to --

2 A. Yes. This guy from -- I don't know what his
3 name was, but he was from the home office.
4 He just came down and met and explained what
5 they knew about --

6 Q. Do you know what department he was with?

7 A. No, I don't. Don't even remember his name.
8 Like I say, it's been a good while.

9 Q. Do you know what he looked like?

10 A. No. I can't even remember that. You asked
11 me stuff too far back.

12 Q. I've moved you up to the '90s.

13 A. I can't remember what happened yesterday,
14 much less '95. Seriously, I don't remember
15 what he looked like.

16 MR. PECK: He'll remember what you
17 look like tomorrow, but he probably won't
18 remember me.

19 THE WITNESS: Well, I'm staring at
20 her to answer her questions.

21 Q. (By Ms. Ruth) So we got a guy from St.
22 Louis, and I think earlier you said Gerald
23 Miller. Are these the only two people

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1 running the meeting?

2 A. Gerald Miller is the one that told us in '72
3 that the department was shutting down. He no
4 longer works for the company.

5 Q. Oh, I got all confused.

6 MR. PECK: Gerald Miller was way
7 way back.

8 THE WITNESS: Yeah, he was my
9 supervisor back then.

10 Q. (By Ms. Ruth) Okay. I'm sorry about that.
11 I got my meetings confused.

12 So other than the gentleman from
13 St. Louis, was there anybody else from either
14 the Anniston office or any place else that
15 was either running or attending, sort of in a
16 supervisory position, this meeting?

17 A. Huh-uh (indicating no).

18 Q. No? So there's just one guy standing up
19 there and --

20 A. Somebody introduced him.

21 Q. Some nondescript guy with no name.

22 A. Well, somebody introduced him. I don't know
23 who it was, whether it was the personnel man

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1 or who it was now, but he introduced him, you
2 know.

3 And they sent out e-mails that he
4 would be there and wanted everybody to come
5 over and listen to what he had to say. You
6 didn't have to, but we did.

7 Q. Right. Now, was everyone invited or just
8 people who had been blood tested?

9 A. I think everybody was invited.

10 Q. About how long did that meeting last do you
11 think?

12 A. About an hour.

13 Q. About an hour. What kind of stuff did he
14 tell you?

15 A. Well, the latest, you know, results. They've
16 -- something the company had checked people
17 that worked in aroclor at different places.
18 And Westing House and GE had checked theirs
19 and the results on them.

20 Q. Okay.

21 A. Rates and stuff.

22 Q. And did they give you any comparison, in
23 other words, how your people tested against

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1 GE or Westing House? How Monsanto Anniston
2 tested against --

3 A. They just said that all the people involved
4 in PCB was lower than -- the cancer rate was
5 lower than the general population.

6 Q. Okay.

7 A. According to their stats.

8 Q. According to their stats, all people who they
9 blood tested, or all people who worked --

10 A. -- worked in aroclor.

11 Q. In aroclor.

12 MR. PECK: At Anniston or GE?

13 Q. (By Ms. Ruth) At Anniston or GE or
14 everybody?

15 A. Well, the test wasn't just at Anniston. It
16 was at all the places. I think GE and
17 Westing House workers had more PCBs than
18 anybody.

19 Q. More PCBs in their blood --

20 A. Right.

21 Q. -- than the Anniston workers had in their
22 blood?

23 A. (Witness nods head.)

FOSHEE & TURNER COURT REPORTERS

1 Q. Did they only test -- did Monsanto only test
2 Anniston aroclor workers, or did they also
3 test the people who used to make aroclors in,
4 I think it's Krumrich?

5 MR. PECK: Object to the form of
6 the question.

7 THE WITNESS: I don't know.

8 Q. (By Ms. Ruth) So you remember they told you
9 about this group of people being tested and
10 that the cancer levels were lower in people
11 who worked the aroclor rather than the
12 general population?

13 A. Right.

14 Q. What other kind of stuff do you think they
15 told you that would have gone on for an hour?
16 I mean, would they have told you --

17 A. Well, they got the question and answer
18 period, people asking different questions. I
19 don't remember what all it was.

20 Q. You don't remember. Did you ask any
21 questions?

22 A. No.

23 Q. No. Okay. Guess what, you're free to go.

FOSHEE & TURNER COURT REPORTERS

1 Thank you very much.

2 A. Your welcome.

3

4 (Deposition concluded at 5:00 p.m.)

5 FURTHER THE DEPONENT SAITH NOT.

6

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2001 PARK PLACE, SUITE 220
BIRMINGHAM, ALABAMA 35203
1-800-888-DEPO

FOSHEE & TURNER COURT REPORTERS

C E R T I F I C A T E

STATE OF ALABAMA)

CALHOUN COUNTY)

I HEREBY CERTIFY that the above and foregoing transcript was taken down by me in stenotype, and the questions and answers thereto were transcribed by means of computer-aided transcription, and that the foregoing represents a true and correct transcript of the testimony given by said witness.

I FURTHER CERTIFY that I am neither of counsel, nor of any relation to the parties to the action, nor am I anyway interested in the result of said cause.


TAMMY R. JENNINGS GREGORY
Notary Public, State of Alabama
MY COMMISSION EXPIRES: 9-12-2001

2001 PARK PLACE, SUITE 220
BIRMINGHAM, ALABAMA 35203
1-800-888-DEPO

HARTOLDMON0036580

M001-15

Rich Deposition
Exhibits 11/2/99

Chydenade

23 Rich

Appar 68-60

Starting

cars

Weg und Frank

01/01
Chlorine
tank
can
back
up
to chlorine
gas pipe

202

1312H.

Archer

Chloroform

gas pipe to vent

1000

Warehouse

Rawood tracks

Le8-49 built
→ 5
return

~~no objections~~

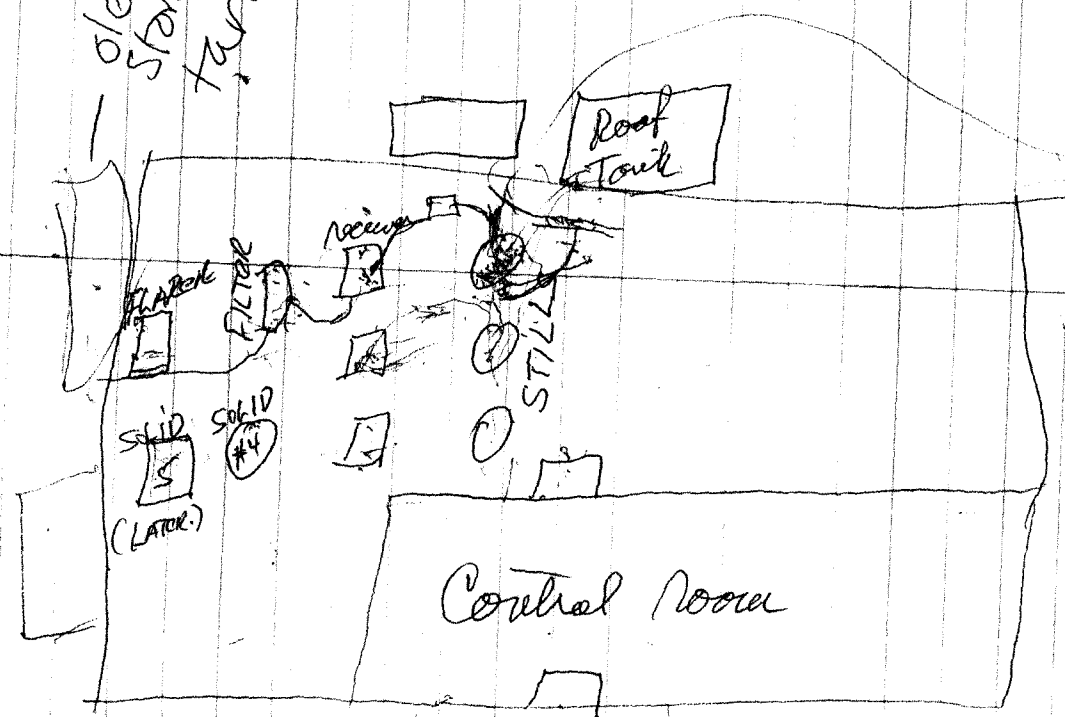
A hand-drawn sketch of a flag. The flag has a rectangular shape with a wavy top edge. In the center of the flag is a large, stylized, handwritten letter 'Z' or 'S' that is tilted and has a rough, sketchy appearance. The entire drawing is done in a single line, likely with a pen or marker.

1317H.

Aroclor

old ~~h~~ storage tanks

ST. TANKS



(outside)
+ concrete

Blow tank
Chlorinator
#42

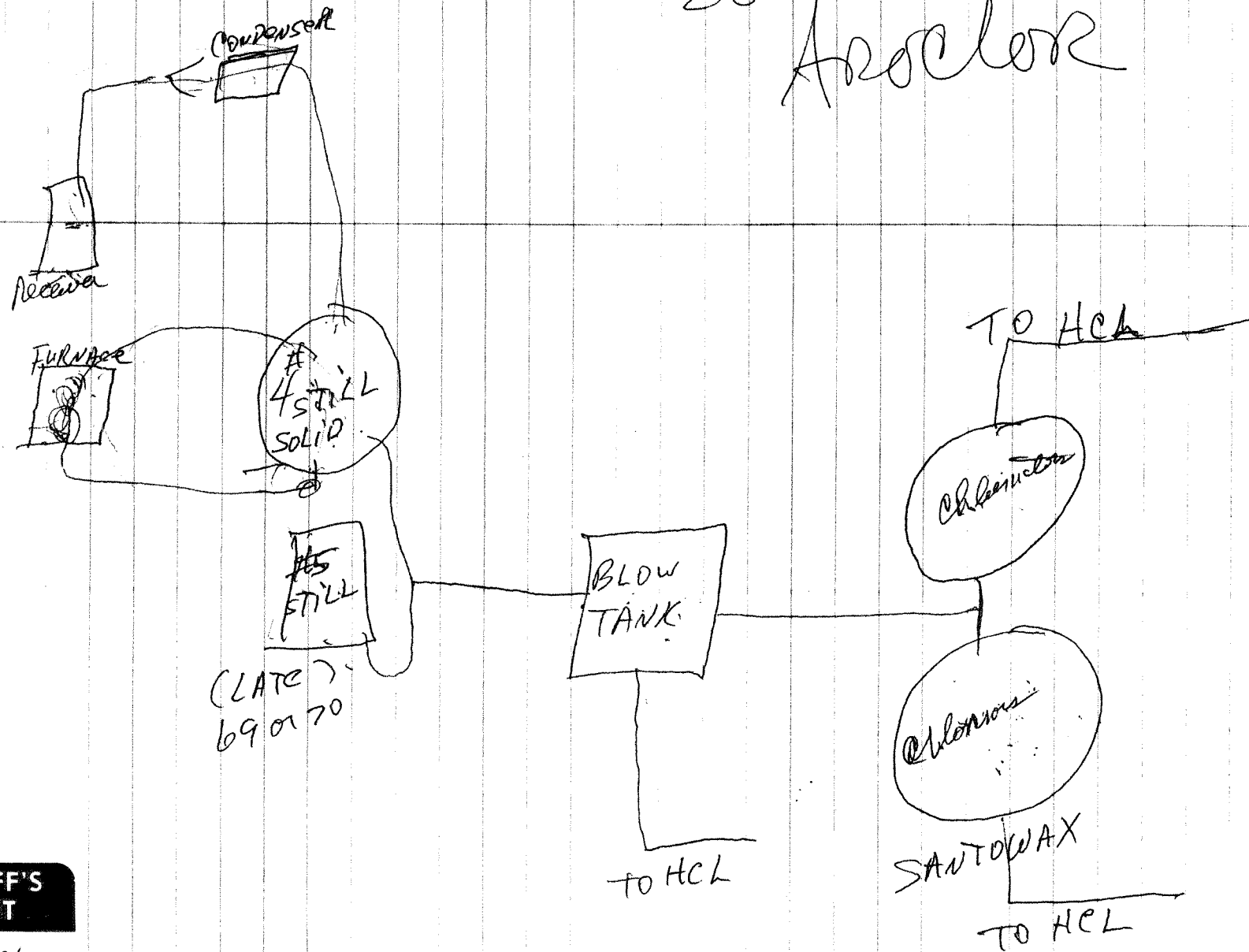
HCL

HCL Scrubber
Acid DPT

Storage tanks

PLAINTIFF'S
EXHIBIT
24 Rich

Solid
Asphalt

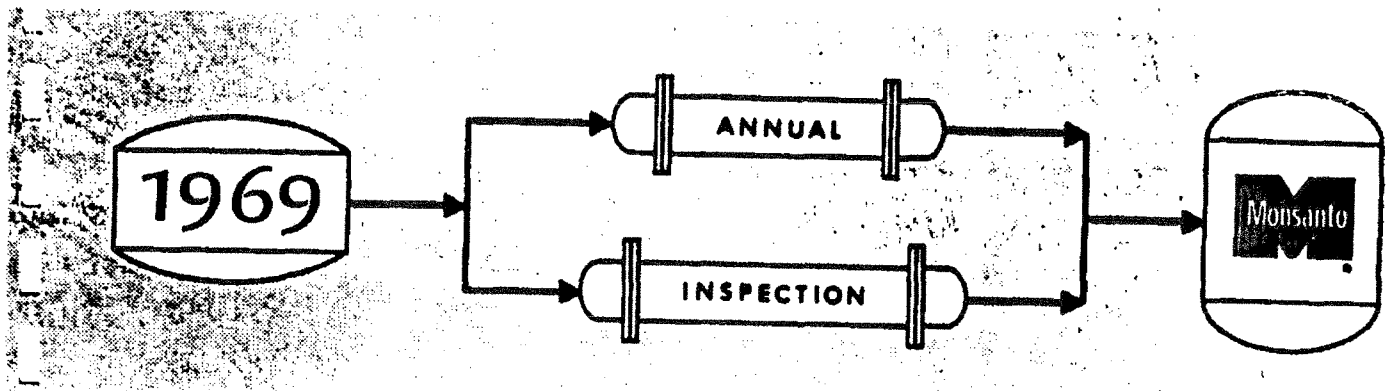


PLAINTIFF'S
EXHIBIT

ZS Rich

Welcome to the

ANNISTON PLANT



Prepared for:

RON BROWN
GENE BARHAM
JERRY BRATSCHE
LEO LOVIZA
BOB ROSE

OSW 085378

**PLAINTIFF'S
EXHIBIT**

26 Rich

The inquiry should be concerned with:

1. Planned programs
2. Programs already written with assignments, time tables, etc.
3. Mature programs with some evidence of effectiveness.

In summary, are the plants gearing to be ready for changes that are coming, to make opportunities rather than suffer inconveniences.

W. R. Robirds

WRR/yad

DSW 085329

10:45 Chlorine Unloading

Roland Haydel
Tom Mackey
Joe Webb
Dickie Walker
Doug Rich

Comments: _____

10:50 Area I Maintenance Shop

Otto Hill
Arnold Coffield
John Powell
John Garmon
Bill Cobb

Comments: _____

11:00 Biphenyl/Santowax Still

Lamar Faulkner
Harold Bell
Wyatt Bryant
Bryan Thrasher
Bob Patty

Process: Crude biphenyl is continuously distilled through a 30-tray column, yielding product biphenyl overhead and crude Santowax bottoms. Crude Santowax is continuously distilled, yielding Santowax R overhead and Montar 9 bottoms.

Comments: _____

10:00 Aroclor Office (Coffee)

Ben Ward
Frances Barnard
Bea Henderson

Comments: _____

10:20 Aroclor

Roland Haydel
Tom Lackey
Doug Rich
Joe Webb
Dickie Walker

Process: Biphenyl and/or Santowax R is chlorinated and refined by batch distillation. Electrical grades are further refined by activated earth treatment.

1968 Inspection Recommendations

- Safety #3 - Major project underway to eliminate burn hazards.
- Housekeeping #2 - Emphasis placed on insulation in department expansion.

Comments: _____

10:35 HB-40

Lamar Faulkner
Bryan Thrasher
Neil Steen

Process: Santowax R is hydrogenated batchwise to produce HB-40.

Comments: _____

