
In The
Supreme Court of Tennessee
Eastern Division

NO. E2012-02392-SC-R11-CV

ANNE PAYNE
Widow of Winston Payne, deceased,
Appellee,

v.

CSX TRANSPORTATION, INC.,
Appellant.

ON APPEAL FROM THE CIRCUIT COURT OF KNOX COUNTY, No. 2-231-07
COURT OF APPEALS, EASTERN DISTRICT, No. E2012-02392-COA-R3-CV

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IN THE CIRCUIT COURT FOR KNOX COUNTY, TENNESSEE

WINSTON PAYNE,

Plaintiff,

v.

CSX TRANSPORTATION, INC.,

Defendant.

No. 2-231-07

* * * * *

MOTIONS

September 30, 2009

Hon. Harold Wimberly, Judge

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1 (Proceedings began at 10:12 a.m.)

2 THE COURT: Okay. What are we
3 going to talk about today?

4 MR. BAKER: First, I want to first
5 introduce Mr. Shapiro.

6 THE COURT: Good morning.

7 MR. SHAPIRO: Nice to see you,
8 Judge.

9 MR. BAKER: Judge, you already met
10 Mr. Jordan the last time we were here. This
11 is Karen Young, who is his partner.

12 MS. YOUNG: Good morning, Judge.

13 MR. BAKER: She is also here today
14 on behalf of CSX.

15 THE COURT: I see this stuff here.
16 Some of it I opened and most it I don't
17 understand anyway.

18 MR. BAKER: Your Honor, if I may be
19 heard first, it might make sense to argue
20 the CSX motion in limine to exclude expert
21 testimony, and the reason I say that is that
22 Mr. Jordan is going to provide an overview
23 of the case with a lot of the facts, and
24 when the Court hears these facts we won't
25 have to re-recite, regurgitate the facts

1 those contributed to causing Mr. Payne's
2 lung cancer. Of course, he smoked
3 cigarettes for 30 years as well.

4 Now, for this motion, Your Honor,
5 we can forget about cigarette smoking
6 because we don't need to talk about that and
7 for this motion we can assume, although we
8 will certainly contest this before the jury,
9 we can assume general causation exists with
10 respect to radiation, asbestos, and diesel
11 exposure, and by that I mean the Court can
12 assume that we can all assume that enough
13 radiation exposure can cause lung cancer,
14 enough asbestos exposure can cause lung
15 cancer, and enough diesel exposure can cause
16 lung cancer.

17 Again, we will contest that at
18 trial but for purposes of this motion we can
19 assume that.

20 Your Honor, we have taken a number
21 of depositions, we've taken discovery
22 depositions of the plaintiff's experts in
23 this case and all of the plaintiff's experts
24 have agreed that there is a dose-response
25 phenomena that exists between each of those

1 They are questioning today specific
2 causation. They are questioning the fact
3 that the cancer specialist, Dr. Frank, that
4 the occupational medicine doctor,
5 Dr. Stewart, who is just like Dr. Nassetta
6 in the Wilson case, and that the oncologist
7 whose name I didn't mention yet, Dr. Kearns,
8 who is local, they are questioning their
9 specific medical opinion that these things
10 contributed to cause lung cancer in the
11 plaintiff. And they are here today asking
12 the Court to strike all of the medical
13 opinions in this case, and they are here
14 saying to the Court the plaintiffs don't
15 have dosage or quantification evidence,
16 throw this case out.

17 Now, contrary to what Mr. Jordan
18 said at the beginning of the motion, he says
19 this is a motion in limine, it's not a
20 motion for summary judgment. I beg to
21 differ, Mr. Jordan. When you are moving to
22 strike all the plaintiff's evidence where we
23 concede that we can't put on a case, that's
24 a motion for summary judgment whether you
25 call it that or not.

1 THE COURT: We are back here today
2 after meeting a week ago today and had an
3 extended presentation of various motions,
4 and the Court asked for some extra time to
5 review things that were still coming in at
6 that time and waded through all kinds of
7 stuff that has been submitted to me which is
8 good, I guess, and turns out that what I got
9 to say today is mostly -- rather than a
10 ruling on what we talked about last week, I
11 think it's more advisory than anything else.
12 So let's go over briefly some of the things
13 that we talked about last week.

14 We started out with a motion by the
15 defendant to exclude expert testimony after
16 discovery depositions had been taken of
17 experts proposed by the plaintiff in this
18 case. It's difficult to exclude totally the
19 testimony of such witnesses. For example,
20 that Tennessee opinion involving CSX
21 railroad that both sides talked about some
22 last week can be understood, if nothing
23 else, as saying that such experts are
24 normally admitted and permitted to testify.
25 What they will say at the trial, you know,

1 we don't really know yet as evidenced by the
2 fact that we had this additional affidavit
3 submitted after last week's hearing, and
4 then this morning we had the opposition to
5 that affidavit. I suppose it's good to
6 bring these things out now, but in the
7 Court's opinion I can't make any definitive
8 ruling about any of these people at this
9 time.

10 And one thing that bringing it out
11 now does do is allow them to correct and add
12 to testimony, and of course the trial is not
13 set until March. We may have occasion to
14 talk about this some more later on, much
15 closer to the trial date, but right now the
16 Court is not prepared to make any definitive
17 ruling about these things other than to say
18 that probably all these people will be
19 certainly permitted to testify. You know,
20 what exactly they say is subject to
21 objection, I suppose, right before trial and
22 also during trial.

23 The position advocated by the
24 defendant that you all can just go ahead and
25 exclude such evidence if it doesn't prove a

<p style="text-align: right;">Page 5</p> <p>1 case already, a lot of experts. 2 THE COURT: What are you talking 3 about -- 4 MR. BAKER: Well, this gentleman's 5 name is Dr. David Coker and in response to 6 our multiple discovery requests, the lawyers 7 representing Mr. Payne produced a study by 8 Dr. Coker and in that study he addresses 9 exposures, potential exposures to cesium, 10 it's a byproduct of uranium at -- close to 11 Y-12 and throughout this case they have been 12 contending that this man was exposed to this 13 stuff in that place. 14 So back in July of 2009, we put 15 this man on our witness list and filed it 16 and they knew that he was on our witness 17 list. 18 In August of 2009, they asked us to 19 outline and provide them information about 20 our witnesses and we sent a letter and we 21 told them that Dr. Coker would be testifying 22 about cesium contaminations at or near CSX 23 tracks near Scarboro Road, and we referred 24 them to the study that was conducted by 25 Dr. Coker back in 1990, so they had this</p>	<p style="text-align: right;">Page 7</p> <p>1 expert, has criticized Dr. Dooley's dose 2 reconstruction. Dr. Frank has criticized 3 the dose reconstruction and in his 4 deposition for proof, he says that the man 5 was exposed to above background levels of 6 radiation at Oak Ridge, so all we did was 7 have Dr. Coker analyze that in order to come 8 up with more preciseness in the dose 9 reconstruction. 10 We needed someone to address what 11 they were contending happened to this man 12 out in Oak Ridge, and Dr. Coker has done 13 that. 14 In fact, I don't understand why 15 they are complaining so much. Dr. Coker's 16 analysis suggests more exposure to radiation 17 out there than Dr. Dooley found, so what 18 we've done is we have a witness who now 19 analyzes Oak Ridge and he ends up with more 20 exposure to radiation. I don't know why 21 they are complaining about this because we 22 feel that we have a duty and obligation to 23 the Court and most particularly to the jury 24 that if we are going to do a dose 25 reconstruction that it be a good dose</p>
<p style="text-align: right;">Page 6</p> <p>1 information. They didn't ask for his 2 deposition for the past year and a half. 3 Dr. Coker had studied cesium there right 4 outside of Y-12 where this man says that he 5 would deliver railroad cars and in his 6 deposition they had him testify to being in 7 these places where he was so exposed to 8 these things on these various tracks, and so 9 Dr. Coker's study had generalized where -- 10 the amount of exposure a person would have, 11 and so what he did for us was simply relate 12 it to Mr. Payne himself, and we provided his 13 analysis of that to plaintiff's counsel on 14 September the 10th and invited him to take 15 the deposition of Dr. Coker and in fact told 16 him that Dr. Coker was available for a 17 deposition tomorrow, two months before 18 trial, and we feel that there's nothing late 19 about this. 20 They have -- we have in this case 21 reconstructed the dose, performed a dose 22 reconstruction by Dr. David Dooley and he's 23 the subject of -- that is a subject of a 24 motion that we filed, and throughout since 25 the last continuance, Dr. Mantooth, their</p>	<p style="text-align: right;">Page 8</p> <p>1 reconstruction, that it tells the jury 2 exactly what this man was exposed to from 3 his first day to his last day. He was only 4 out there for one month. But we needed 5 someone to address Oak Ridge, and Dr. Coker 6 has done that and they never asked that 7 we -- to take Dr. Coker's deposition. 8 And also throughout the summer and 9 since the last continuance, we've gotten 10 affidavits and we've gotten all kinds of 11 testimony against us on the issue of 12 plutonium. Plutonium is a man-made 13 by-product enriched uranium and they have 14 been after us all summer and all spring 15 about plutonium, so we felt like we needed 16 someone to address plutonium and Dr. Coker 17 has addressed plutonium in such a way that 18 he's got the unique ability to make people 19 understand what he's saying. He's a 20 scientist but he's very good at articulating 21 things on the issue of plutonium and we have 22 a motion on plutonium and if the Court 23 allows the jury to hear about plutonium, 24 which we say they should not, then Dr. Coker 25 would be there to address that issue.</p>

2 (Pages 5 to 8)

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<p>1 Is this a video thing?</p> <p>2 MR. SHAPIRO: Yes, sir.</p> <p>3 THE COURT: Okay. You can fix it</p> <p>4 by then.</p> <p>5 MR. BAKER: Page 29, Lines 14</p> <p>6 through 18 on the ground that Mr. Payne is</p> <p>7 not qualified to render an opinion on the</p> <p>8 subject matter of the testimony and also</p> <p>9 that it's a leading question.</p> <p>10 But my main objection is that's not</p> <p>11 his place to say.</p> <p>12 MR. SHAPIRO: I'll withdraw it,</p> <p>13 Your Honor.</p> <p>14 THE COURT: Okay. That's pretty</p> <p>15 obvious that that's why we are here, that</p> <p>16 they believe that -- it is correct that that</p> <p>17 will not be appropriate.</p> <p>18 So Page 38 is next.</p> <p>19 MR. BAKER: All right. Now, Your</p> <p>20 Honor, this one --</p> <p>21 MR. GILREATH: It would be nice if</p> <p>22 we made these objections before he died and</p> <p>23 then we would fix it.</p> <p>24 THE COURT: It says objection right</p> <p>25 there.</p>	<p>1 led to the sink, all right, and he believes</p> <p>2 that that pipe was wrapped in some sort of</p> <p>3 tape that was white, and he says, well, that</p> <p>4 has to be asbestos containing without</p> <p>5 anywhere on it saying asbestos at all, only</p> <p>6 thing is that the tape was white and it led</p> <p>7 to a cold water and a hot water pipe.</p> <p>8 Now, we say that he should not be</p> <p>9 able -- be allowed to testify that that pipe</p> <p>10 that was covered with tape and the tape had</p> <p>11 asbestos in it.</p> <p>12 You have been through this many</p> <p>13 times.</p> <p>14 Here in the world of -- in the</p> <p>15 asbestos world, their quest to convince this</p> <p>16 jury that this man was exposed to copious</p> <p>17 amounts of asbestos is just simply not true.</p> <p>18 It's the most minimal case you'll ever run</p> <p>19 into in terms of the asbestos world.</p> <p>20 We should not be allowed to say</p> <p>21 that that pipe had asbestos in it.</p> <p>22 He then says that back in 1962 or</p> <p>23 1963, early '60s he said, he would stay over</p> <p>24 at the YMCA hotel in Corbin, Kentucky, and</p> <p>25 he -- when he would be in that room, he</p>
Page 18	Page 20
<p>1 Next one you are giving me is Page</p> <p>2 38.</p> <p>3 MR. BAKER: What I have done here,</p> <p>4 Your Honor, this becomes a little</p> <p>5 complicated.</p> <p>6 From Page 38 through Page 53,</p> <p>7 Mr. Payne is questioned on his activities as</p> <p>8 a worker and the goal here is for Mr. Payne</p> <p>9 to testify about whether he was around a</p> <p>10 product that may or may not have contained</p> <p>11 asbestos fiber, and what I've done here is</p> <p>12 we had filed a motion dealing with this</p> <p>13 issue. We say that a lay person needs some</p> <p>14 scientific basis upon which to training or</p> <p>15 some knowledge about whether a product</p> <p>16 contains asbestos or does not contain</p> <p>17 asbestos.</p> <p>18 For example, in this swath of</p> <p>19 testimony, the plaintiff says that he would</p> <p>20 go to the bathroom at the bathroom located</p> <p>21 at the little yard -- yard over here, the</p> <p>22 West Knox Yard, at the yard office, and in</p> <p>23 that bathroom there would be a pipe about</p> <p>24 yeah thick, about an inch and a half in</p> <p>25 diameter, and that pipe -- one single pipe</p>	<p>1 would be sleeping or getting ready to go to</p> <p>2 bed and it had high ceilings and when he got</p> <p>3 in bed and he looked up in the air, he saw</p> <p>4 pipes like -- see this little pipe right</p> <p>5 here, this is a water pipe, and he says that</p> <p>6 those -- that one pipe that went across the</p> <p>7 ceiling up there was wrapped in some sort of</p> <p>8 white tape and he says in his deposition</p> <p>9 that the tape contained asbestos. How do he</p> <p>10 know? You know, how in the world could he</p> <p>11 be allowed to say that that tape contained</p> <p>12 asbestos, much less that somehow or the</p> <p>13 other fibers escaped and made their way into</p> <p>14 his lungs.</p> <p>15 Now, we don't mind him saying that</p> <p>16 he was in a room at the YMCA back in early</p> <p>17 1960's and he looked up in the sky and he</p> <p>18 saw a pipe that had -- wrapped in white tape</p> <p>19 and we don't mind him testifying that he was</p> <p>20 in a bathroom and there was this little</p> <p>21 bitty pipe and it was wrapped in white tape.</p> <p>22 We do mind him saying that it's asbestos</p> <p>23 containing.</p> <p>24 We do mind him suggesting to this</p> <p>25 jury that somehow or the other in the world</p>

5 (Pages 17 to 20)

<p style="text-align: right;">Page 21</p> <p>1 the little fibers escaped and got into his 2 lungs somehow or the other when he was in 3 there for the few minutes that he was in 4 there. 5 They have an industrial hygienist 6 by the name of Vance who is going to address 7 those issues. 8 It's just not for him to say and we 9 filed a motion in this case to keep lay 10 people from coming in the courtroom and 11 testifying about this and that containing 12 asbestos unless they are qualified to make 13 that statement, unless on the product there 14 was the word "asbestos containing" or 15 something that would give them reason to be 16 able to say that, something other than 17 hearsay. 18 This is not the methodology that 19 the plaintiff should be allowed to use to 20 introduce his exposure to all this asbestos. 21 And what I did was -- 22 MR. SHAPIRO: Mr. Baker, I don't 23 want to cut you off because I agree with you 24 in part on your argument, so I would like 25 you to address other areas besides those</p>	<p style="text-align: right;">Page 23</p> <p>1 contained asbestos and he breathed asbestos 2 fibers. 3 So what I did was for Mr. Shapiro, 4 I made a new designation, I sent him a 5 letter that he and I talked about leaving 6 out only his testimony dealing with goodness 7 gracious, it contained asbestos. 8 For example, he says that ten to 9 fifteen minutes in the morning it was his 10 custom and practice or habit to go to the 11 little bitty roundhouse that we used to have 12 down here and he would be in there to check 13 on the engine or engines for some reason. 14 We don't -- I don't see any reason for him 15 to do that because he was what is known as a 16 switchman and they didn't do that sort of 17 thing. But nevertheless he said it. He 18 went in there and he says that when he was 19 in there he noticed that there were pipes 20 and some of those pipes were wrapped in 21 white, so once again, he believes that if a 22 pipe is wrapped in white that somehow or the 23 other that pipe contains asbestos as opposed 24 to fiberglass or just being a wrapping. 25 MR. SHAPIRO: It might just save a</p>
<p style="text-align: right;">Page 22</p> <p>1 buildings, your position on roundhouses, 2 engines -- 3 MR. BAKER: So you agree with me 4 about the bathroom and the -- 5 MR. SHAPIRO: We'll agree and I'll 6 explain why when it's my turn. 7 MR. BAKER: Okay. Well, I was just 8 using those as an example, Your Honor. 9 They also say -- and by way of 10 explanation -- may I approach the Court for 11 a second? 12 THE COURT: Yes, sure. 13 MR. BAKER: Do you have our 14 designation -- we had filed objections and I 15 looked at this paragraph on Page 38, Line 6 16 through 25, through Page 53, Lines 1 through 17 6, and what I realized was I was being 18 disingenuous unintentionally about something 19 and that is, throughout this testimony, 20 there were portions of it which should come 21 in, because he should be allowed to say that 22 he was in that room and he did go into the 23 roundhouse and he was in a caboose and those 24 sort of things, he just should not be 25 allowed to come in and say that these things</p>	<p style="text-align: right;">Page 24</p> <p>1 little time, Jay, I don't want to -- fail to 2 let you address all the issues. 3 MR. BAKER: Thank you. 4 MR. SHAPIRO: If I state what we 5 agree on -- 6 MR. BAKER: We don't agree -- 7 THE COURT: We are about to agree 8 on some of this. So go ahead and tell us. 9 MR. SHAPIRO: Okay. Your Honor, 10 there are -- what Mr. Baker didn't talk 11 about were the engine areas. 12 Mr. Payne in that passage from 38 13 to 53 talks about roundhouses, he talks 14 about engines that he worked on and he talks 15 about cabooses and brake shoes. 16 Now, Mr. Baker's point is a lay 17 person shouldn't be able to willy-nilly walk 18 in and say that white thing over there is 19 asbestos. And I looked at some of the cases 20 since he brought this up to me and many 21 cases agree with him. 22 However, if the plaintiff has 23 corroboration of the testimony, then 24 normally the lay person testimony comes in. 25 So what do we have in this case.</p>

6 (Pages 21 to 24)

<p style="text-align: right;">Page 25</p> <p>1 Well, on the roundhouses, the 2 engines, the cabooses and the brake shoes, 3 the CSX company representative who is 4 himself an industrial hygienist admits in 5 his deposition that asbestos was in all of 6 those areas, and I went and got the page and 7 line references yesterday to their corporate 8 rep who we are offering in our case in 9 chief, it's a video deposition, it's not a 10 matter of will it possibly come up. It's in 11 his testimony and we are offering it. 12 He says there was asbestos in 13 roundhouses, there was asbestos in engines, 14 on brake shoes from '66 to 1976. A second 15 industrial hygienist with CSX says the same 16 thing, his name is Mark Badders. They say 17 that they abated asbestos from engines, they 18 say that they found asbestos on EMD engines, 19 they found it around the air duct, they 20 found it in the pipes leading to the cab 21 heaters and the crew cab. 22 They also admit that they had 23 asbestos on cabooses and I mentioned the 24 brake shoes. 25 So because there's corroboration in</p>	<p style="text-align: right;">Page 27</p> <p>1 that matter anyone that in certain places on 2 certain engines in certain territories, 3 there was in some locomotives and in some 4 cabooses, some asbestos-containing products. 5 I don't think that that gets them 6 to where they want to be on this concept of 7 corroboration. 8 In my view, this man simply is not 9 qualified under the law, he does not possess 10 the requisite scientific expertise to be 11 able to say that when he sat in a caboose 12 that in that particular caboose that they 13 did away with in the early '80s that there 14 was a heat shield next to the stove and that 15 in that heat shield there was asbestos as 16 opposed to fiberglass, for example, and what 17 they are doing here is they're making Mr. 18 Payne himself a person who is capable of 19 giving an opinion pursuant to Tennessee 20 Rules of Evidence, is it 701, I think it is, 21 and that rule is very precise. It has to 22 be -- a lay opinion has to be rationally 23 based on the perception of the witness, 24 helpful to a clear understanding of 25 testimony or a fact in issue.</p>
<p style="text-align: right;">Page 26</p> <p>1 all those areas, I do not agree that 2 Mr. Payne is incapable of saying that he 3 believed it was asbestos. It's corroborated 4 by their own witnesses. 5 Now, I agree with Mr. Baker that on 6 any testimony where he was in a yard office 7 bathroom or in the YMCA, I don't have direct 8 corroboration on that, so I think we need to 9 take out his reference that it was asbestos. 10 We do have corroboration that they 11 abated asbestos from a lot of buildings in 12 the Knoxville area but I can't find where it 13 really is on the same area that he is 14 talking about. So that's our position and 15 if Your Honor agrees with us, we would just 16 redact that passage to take out the 17 references to asbestos at offices and the 18 YMCA. 19 MR. BAKER: May I be heard, Your 20 Honor. 21 THE COURT: Yes. 22 MR. BAKER: Well, we don't agree 23 with that. 24 We don't agree that the testimony 25 of an industrial hygienist for CSX or for</p>	<p style="text-align: right;">Page 28</p> <p>1 And we say that this man saying 2 these things based on in many cases hearsay 3 and his belief that if anything was wrapped 4 in white it had to be asbestos containing 5 does not conform with the case law of this 6 state and all of the other states virtually 7 or with this circuit's practice, as I 8 understand it. 9 People just can't come in and say 10 this contains asbestos and this does not 11 contain asbestos without any support. 12 THE COURT: Well, he says on that 13 first page, "I knew what asbestos looked 14 like." 15 MR. BAKER: He does say that. I 16 say that that is not enough. He says if a 17 pipe is wrapped or covered with white tape, 18 it must be asbestos. That what's he bases 19 that on. I know what asbestos looks like. 20 So I questioned him on that. He said, well, 21 I know what it looks like because if it's 22 white, if it's a white tape, it must be 23 asbestos. 24 May I approach, Your Honor? 25 THE COURT: Okay.</p>

7 (Pages 25 to 28)

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<p>1 MR. BAKER: Here it is where I 2 addressed that. 3 THE COURT: Okay. 4 MR. BAKER: Now, how in the world 5 can he say that when he walked into the 6 roundhouse -- are you giving up on the 7 roundhouse? 8 MR. SHAPIRO: Yes. 9 MR. BAKER: Okay. When he walks in 10 the roundhouse that the pipes were covered 11 with asbestos? Or asbestos containing? How 12 can he say that? 13 MR. SHAPIRO: Well, Your Honor, 14 Mr. Baker is making it seem that the 15 plaintiff is saying not only he knew 16 something or thought something was asbestos 17 but that that asbestos caused my cancer. He 18 isn't saying that. He's describing his 19 understanding of what that insulating 20 material was and nothing more and he in 21 various places gives his understanding of 22 why he believes it was asbestos, he said it 23 was the only type of insulating material he 24 knew a name of at that time in some of the 25 instances and there again I don't need to</p>	<p>1 depositions of the men over in Huntington -- 2 they worked at a place where they were 3 taking the asbestos out of the engines, I 4 learned after I worked there, so forth, 5 those things probably don't need to be there 6 either. 7 MR. SHAPIRO: All right, Your 8 Honor. What page -- 9 THE COURT: Anything like that. 10 MR. SHAPIRO: What page and line 11 did that start? 12 THE COURT: That was on Page 43, 13 ending on Page 44. 14 MR. BAKER: Okay. I got that, that 15 would be Pages 43, Lines 2 through 25 and 16 Page 44, lines 1 through 5? 17 THE COURT: I wasn't trying to be 18 all inclusive there, I was just saying 19 things like that don't need to be in there. 20 We've already said that anything 21 other than they agree on anything other than 22 engines, cabooses and brake shoes, although 23 I know there's one reference to brake shoes 24 that he found out about brake shoes because 25 somebody told him about brake shoes.</p>
Page 30	Page 32
<p>1 reiterate what I said, Your Honor. 2 Their own industrial hygienist has 3 corroborated -- if there wasn't solid 4 multiple witness corroboration on asbestos 5 in the engines, cabooses, brake shoes, then 6 I think Mr. Baker would have a better 7 argument also. 8 THE COURT: Okay. As I said, he 9 does say that he knew what asbestos looked 10 like. Some of these other things where he 11 said that this witness Vance told him about 12 certain things, that should be -- 13 MR. SHAPIRO: I think we've taken 14 that out. 15 MR. BAKER: No, we didn't. 16 MR. SHAPIRO: Which part was that, 17 Mr. Baker? 18 THE COURT: For example, Page 43 it 19 says, has it ever come to your attention, 20 later that CSX may have removed asbestos, 21 how did that come to your attention, I spoke 22 with Dr. Vance and he was telling me. 23 Did you read any depositions of any 24 workers, and any workers testify about 25 removing asbestos, and I read the</p>	<p>1 MR. BAKER: For example, on Page 47 2 it says, "Did you ever see workers, you 3 know, handling asbestos or replacing it?" 4 And he says, Answer: "Well, they 5 were handling brake shoes and they were -- 6 they were handling brake shoes." 7 And then he asked him, "Let me ask 8 you about brake shoes. Did brake shoes have 9 asbestos in them while you were working for 10 the railroad?" 11 Answer: "Yes." 12 That would have to be based on 13 hearsay. 14 THE COURT: He says on 15 examination -- 16 MR. SHAPIRO: But he says how he 17 knew. 18 THE COURT: "How do you know that 19 the brakes had asbestos?" 20 Answer: "The carman said they were 21 asbestos." 22 MR. BAKER: That's out. 23 What about this statement about -- 24 MR. SHAPIRO: Wait a second. You 25 mean that's okay.</p>

8 (Pages 29 to 32)

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<p>1 MR. BAKER: On Page 48 --</p> <p>2 THE COURT: He doesn't need to tell</p> <p>3 him what somebody told him about it.</p> <p>4 MR. SHAPIRO: But isn't that -- I</p> <p>5 mean, that's an agent of CSX.</p> <p>6 MR. BAKER: A carman?</p> <p>7 MR. SHAPIRO: A carman is an agent</p> <p>8 of CSX that works for the railroad. Doesn't</p> <p>9 matter that he's not a supervisor.</p> <p>10 MR. BAKER: Your Honor, first let</p> <p>11 me just give you -- this is another example</p> <p>12 of the real world that we are dealing with</p> <p>13 in this case --</p> <p>14 THE COURT: Well, you are going to</p> <p>15 establish brake shoes some other way anyway</p> <p>16 so that's not important.</p> <p>17 What is the next thing you started</p> <p>18 to mention?</p> <p>19 MR. BAKER: Are we excluding this</p> <p>20 hearsay statement?</p> <p>21 THE COURT: Yes.</p> <p>22 MR. BAKER: Okay. Let me regroup</p> <p>23 myself right here.</p> <p>24 Page 49, Lines 13 through 20, we</p> <p>25 say would require expert industrial hygiene</p>	<p>1 shoes that somehow or the other made their</p> <p>2 way into the cab of the caboose?</p> <p>3 THE COURT: I don't guess a train</p> <p>4 is any different from any other kind of</p> <p>5 vehicle when you put the brakes on and leave</p> <p>6 them on for a long time, you tend to know</p> <p>7 it.</p> <p>8 Whether it's asbestos or not,</p> <p>9 that's something else. He doesn't even</p> <p>10 mention that there. He just says smoke and</p> <p>11 dust came in there when they put the brakes</p> <p>12 on coming down the mountain.</p> <p>13 MR. BAKER: Okay. On page 49, Your</p> <p>14 Honor, Lines 13, the rest of that page and</p> <p>15 then the next page, he's asking about dust</p> <p>16 in the air, and he is describing, as he</p> <p>17 should be able to describe, the fact that</p> <p>18 he's in the caboose and he sees -- detects</p> <p>19 dust coming in.</p> <p>20 What we object to is his saying</p> <p>21 that the brake shoes contained asbestos.</p> <p>22 What does asbestos brake shoes have to do</p> <p>23 with you riding in a caboose, if anything?</p> <p>24 It seems to me that they have the</p> <p>25 duty to prove to the jury that the brake</p>
Page 34	Page 36
<p>1 support to establish that asbestos fiber</p> <p>2 from brake shoes on the train somehow or the</p> <p>3 other made its way into the caboose.</p> <p>4 MR. SHAPIRO: Don't agree with</p> <p>5 that, Your Honor, he is just merely</p> <p>6 describing that brake shoe dust --</p> <p>7 THE COURT: He said when they're</p> <p>8 going down the mountain when they put the</p> <p>9 brakes on, the dust comes in there.</p> <p>10 MR. BAKER: What kind of dust? I</p> <p>11 don't mind him saying dust comes in there.</p> <p>12 Obviously, he can say dust comes in there.</p> <p>13 How in the world could he say that the dust</p> <p>14 that came in there was respirable dust and</p> <p>15 the dust contained asbestos fiber from a</p> <p>16 brake shoe?</p> <p>17 THE COURT: His answer was smoking</p> <p>18 dust from brake shoes would come into the</p> <p>19 cab -- caboose.</p> <p>20 MR. BAKER: Well, how in the world</p> <p>21 would he know that?</p> <p>22 THE COURT: I guess he was there.</p> <p>23 MR. BAKER: So did he go out and</p> <p>24 look at the brake shoes and establish that</p> <p>25 there was dust emanating from the brake</p>	<p>1 shoe that was on the train actually had</p> <p>2 asbestos in it. Some did and some did not</p> <p>3 for a short period of time.</p> <p>4 And when friction is created</p> <p>5 between the wheel, the metal wheel and the</p> <p>6 brake shoe material, it creates intense heat</p> <p>7 and it creates something called "forsterite"</p> <p>8 which is a non-pathological type of</p> <p>9 substance that is not asbestos anymore, and</p> <p>10 if there's dust that comes from the brake</p> <p>11 shoe that somehow or the other --</p> <p>12 THE COURT: As I pointed out, he</p> <p>13 didn't use the word "asbestos." Take the</p> <p>14 word "asbestos" out of the question and</p> <p>15 we'll be good to go.</p> <p>16 MR. SHAPIRO: So on Page 40 --</p> <p>17 THE COURT: 49 --</p> <p>18 MR. SHAPIRO: 49 you talked about</p> <p>19 brake shoes?</p> <p>20 THE COURT: Right.</p> <p>21 MR. BAKER: Just take the word</p> <p>22 "asbestos" out.</p> <p>23 THE COURT: What does brake shoes</p> <p>24 have to do with you riding in a caboose.</p> <p>25 MR. BAKER: Okay, Page -- let me</p>

<p style="text-align: right;">Page 37</p> <p>1 look at this real fast.</p> <p>2 This may be one we already agreed</p> <p>3 on.</p> <p>4 MR. SHAPIRO: He talks in the end</p> <p>5 about asbestos in the train cars also,</p> <p>6 Mr. Baker, I don't know if you raised that.</p> <p>7 I'm not sure of all of your</p> <p>8 designations.</p> <p>9 MR. BAKER: On Page 51, we've</p> <p>10 already agreed to take that out. That's</p> <p>11 already been ruled upon and by your</p> <p>12 agreement.</p> <p>13 MR. SHAPIRO: Yes. Where he talks</p> <p>14 about the cars.</p> <p>15 MR. BAKER: And on Page 60 --</p> <p>16 MR. SHAPIRO: What about on Page 51</p> <p>17 and 52, he talks about asbestos riding in</p> <p>18 open cars, did you not object to that?</p> <p>19 MR. BAKER: Yes, we did.</p> <p>20 MR. SHAPIRO: I'm reminding you</p> <p>21 about your own objections.</p> <p>22 MR. BAKER: Thank you very much.</p> <p>23 MR. SHAPIRO: Let me just start</p> <p>24 this way, Your Honor. The reason we think</p> <p>25 it's admissible is there are government</p>	<p style="text-align: right;">Page 39</p> <p>1 their business, five percent of their</p> <p>2 business involved low grade -- handling of</p> <p>3 low grade radioactive scrap, five percent.</p> <p>4 And they would bring in these gondola cars</p> <p>5 all kinds of stuff and what he is</p> <p>6 endeavoring to say is that the stuff in</p> <p>7 there, if it was wrapped in anything, had to</p> <p>8 contain asbestos.</p> <p>9 So once again here we are, we got</p> <p>10 him saying that it contained asbestos when</p> <p>11 he didn't know if it contained asbestos or</p> <p>12 fiberglass or whatever and we are just</p> <p>13 talking about a few pipes, apparently in the</p> <p>14 scheme of things, if any, and --</p> <p>15 THE COURT: Look on Page 52, says,</p> <p>16 "They just jerked out the pipes and still</p> <p>17 left them wrapped in all that. They still</p> <p>18 had the wrapping on them and it was</p> <p>19 asbestos."</p> <p>20 MR. BAKER: Right.</p> <p>21 THE COURT: Well, why can't he say</p> <p>22 that?</p> <p>23 MR. BAKER: How do he know?</p> <p>24 THE COURT: That's what</p> <p>25 cross-examination is about. I mean, if he</p>
<p style="text-align: right;">Page 38</p> <p>1 regulator documents that confirm that there</p> <p>2 was asbestos piping in scrap metal brought</p> <p>3 to the Witherspoon scrapyard and the</p> <p>4 government regulator memos state that they</p> <p>5 actually came out there, required the</p> <p>6 contractor to remove some asbestos from</p> <p>7 Witherspoon so it's corroborating that</p> <p>8 Mr. Payne, he also, I believe, I'm not sure</p> <p>9 it's in this passage, a bunch of the workers</p> <p>10 knew about this because of the contractors</p> <p>11 coming out there with space suits and stuff.</p> <p>12 MR. BAKER: It's at Page 51, Lines</p> <p>13 19 through 25 and Page 52, Lines 1 through</p> <p>14 25.</p> <p>15 And what this relates to is it's</p> <p>16 their contention that this gentleman would</p> <p>17 ride in open gondola cars containing metal,</p> <p>18 metal, and that he would do that from the</p> <p>19 West Knox Yard for a distance of about a</p> <p>20 mile and a half to the Witherspoon facility.</p> <p>21 He's a little bitty guy about 5'6". And how</p> <p>22 he did that I'll never know, but he says he</p> <p>23 did and that's their proof.</p> <p>24 Witherspoon, the proof from</p> <p>25 Witherspoon is that about five percent of</p>	<p style="text-align: right;">Page 40</p> <p>1 came in court and if he were able to come to</p> <p>2 court and he testified from the witness</p> <p>3 stand, I saw these things and they were</p> <p>4 asbestos --</p> <p>5 MR. BAKER: Once again, I go back</p> <p>6 to the fact that in order to be able to say</p> <p>7 that that you have to have some knowledge</p> <p>8 about asbestos and in order to be able to</p> <p>9 say something contained asbestos or not.</p> <p>10 That pipe up there, well, it's</p> <p>11 wrapped in -- it's painted this color.</p> <p>12 Well, I think that's asbestos paint. Now,</p> <p>13 should I be allowed to say that if I was a</p> <p>14 witness? And that would be okay?</p> <p>15 THE COURT: If you say that you</p> <p>16 know about that sort of thing and that is</p> <p>17 the sort of thing that a lay witness can</p> <p>18 know about.</p> <p>19 MR. BAKER: Don't they have to</p> <p>20 prove how do they know?</p> <p>21 THE COURT: That's why we have</p> <p>22 cross-examination. I assume you went in</p> <p>23 some detail later on about that.</p> <p>24 MR. BAKER: I haven't memorized the</p> <p>25 rest of it.</p>

10 (Pages 37 to 40)

1 or before.

2 And now Mr. Shapiro may say well
3 that necessarily means that it was higher in
4 '85 than it was in 2007, but his expert
5 didn't say that, Your Honor. And there was
6 remediation, extensive remediation done,
7 soil brought in, soil taken out.

8 What happened in 2007 is no
9 indication of what Mr. Payne was exposed to
10 before 1985.

11 THE COURT: Okay. What else do we
12 need to talk about?

13 MR. SHAPIRO: They raised OSHA
14 again, and our side would be you had already
15 ruled on this two hearings ago --

16 MS. YOUNG: Can I just interrupt
17 you just a moment?

18 MR. SHAPIRO: Yes.

19 MS. YOUNG: Your Honor, we just
20 want to make a motion here today, very
21 briefly, for the same reasons that we asked
22 that the Court rule out any reference to
23 evidence or the argument of plutonium, we
24 also ask the Court to do that regarding
25 cesium.

1 There is some indication that there
2 was some cesium, which is another ionizing
3 radiation on some tracks over near Y-12.
4 The plaintiff has no evidence by expert or
5 otherwise that Mr. Payne was exposed to that
6 or that it was -- again, he has no expert
7 testimony that cesium was found in an area
8 where Mr. Payne worked.

9 So I won't belabor it, but for the
10 same reasons that the plutonium should stay
11 out, the cesium should as well.

12 MR. SHAPIRO: The response, since
13 this has not come up before, Your Honor, is
14 Mr. Payne did work for about a year of his
15 career doing work for CSX over near Oak
16 Ridge. There's a spur over there. I think
17 we barely ever talked about this. So that's
18 a very small part of his career.

19 He talked about it in his video
20 deposition and even marked a map showing
21 where he had worked over there.

22 Well --

23 MR. BAKER: So what?

24 MR. SHAPIRO: Mr. Baker says so
25 what. Here's the so what, Mr. Baker.

1 Mr. Badders, your industrial hygienist, was
2 asked in his deposition if CSX was aware
3 that radioactive contamination was over at
4 the Oak Ridge spur and that there was some
5 remediation of the tracks done, and that's
6 your industrial hygienist. So we have
7 evidence of contamination over there. And I
8 believe that the word cesium, I will have to
9 look back at Mr. Badder's deposition, I
10 think it was discussed in there.

11 MS. YOUNG: It was. And what
12 Mr. Badders testified to is that there was
13 some cesium well off the track -- let me say
14 it was 50 feet or so away from any track
15 that Mr. Payne was ever on. And that is
16 Mr. Badders' testimony.

17 There is no other testimony from --
18 or report or any document which evidences
19 from the plaintiff's burden that Mr. Payne
20 was exposed to cesium. There's not even an
21 expert opinion in the case that cesium
22 that's 50 feet off of a railroad track, you
23 know, somehow, you know, affected Mr. Payne.
24 And that's, in our opinion, Your Honor, what
25 he has to have to be able to talk about

1 is not evidence, we'll have to see what the
2 actual evidence, whether that's proved or
3 not. Sometimes that's a better and a more
4 satisfying thing to do with the jury rather
5 than just have them sit and wonder about
6 things that we don't talk about.

7 The Hunley document I don't think
8 we should mention in opening statement. I'm
9 still not sure about that or even how it
10 comes in.

11 And these other things, the Court
12 is not inclined to make any ruling now, if
13 you have any objections to be made the
14 Court's basic response to those in the
15 opening statement would be as I've
16 instructed you, these opening statements are
17 not evidence and we'll have to see from the
18 actual evidence whether that or anything
19 else is proved or is not proved or is
20 mentioned or not mentioned. So that's where
21 we are on that.

22 MR. BAKER: May I ask a clarifying
23 question?

24 THE COURT: Yes, go ahead.

25 MR. BAKER: This plutonium, there's

1 no evidence that it was where he was,
2 there's very little --

3 THE COURT: That's true. And there
4 again, if they want to say there was
5 plutonium all over the place and the
6 evidence doesn't support that, that's maybe
7 a way to try the case better than just never
8 mentioning it at all. If they want to --

9 MR. BAKER: Well, they've got the
10 evidence about the uranium and the different
11 isotopes of uranium, but the plutonium is
12 such a -- the reason we are really objecting
13 to it has to do, I understand why you are
14 objecting to it. I'm not sure I see it's
15 that prejudicial myself, but -- so we'll
16 just see what happens. And like I say, if
17 they want to mention there was plutonium and
18 everything else out there and you want to
19 stand up and say I object, it will not be
20 the proof, then the Court will say, again,
21 these statements are not proof, we'll have
22 to see what the actual proof is. And see
23 what happens after that. That will be true
24 of a lot of things with the exception of
25 that Hunley piece of paper. I don't want to

1 A. Can I look at my notes?

2 Q. Yes.

3 A. He began it on November the 8th of
4 '05.

5 Q. And so how long did he take chemo?

6 A. He finished that first round on
7 April 25th of 2006.

8 Q. All right. Overall, how long did
9 he have to go through chemo?

10 A. He went through four years of
11 chemo.

12 He had 43 chemo treatments and then
13 44 radiation treatments, and then 39 more chemo
14 treatments by a pill that he took every day.

15 Q. Let me show you what's been marked
16 as Exhibit 41. This is a chart that kind of
17 outlines his chemo treatments through the years.

18 Is that --

19 A. I think so, yes.

20 Q. And the chart shows the chemo
21 treatments in '05, '06, '07, '08, and '09, and so we
22 are talking these three years, right?

23 A. Uh-huh.

24 Q. Here's a chart we can look at.
25 So the red marks are what?

1 A. This one has less effects on me.
2 My legs and feet are the things that it -- most
3 people have trouble with.

4 Q. How does it affect you?

5 A. I can't keep my legs still at night
6 which keeps me from -- prevents me from going right
7 to sleep. And my feet sometimes just feel like
8 they're not there.

9 Q. Did Dr. Kerns give you any
10 medicines for those type symptoms?

11 A. No, it's just one of the -- it's
12 just one of the symptoms of the chemo.

13 Q. When you retired in 2003, were
14 there any health conditions that were preventing you
15 from doing anything you wanted to do?

16 A. No.

17 Q. Had you already had some treatment
18 for some skin lesions by 2002, 2003?

19 A. Yes.

20 Q. Were you seeing a dermatologist for
21 that?

22 A. Yes.

23 Q. Did that limit you in any way in
24 your daily activities?

25 A. No.

1 Q. I want to talk about in general
2 terms your medical expenses. Are you claiming the
3 medical expenses in this case that relate to your
4 cancer treatment?
5 A. Yes, I am.
6 Q. Are you claiming those medical
7 expenses from when? When are you claiming them,
8 from when --
9 A. From October 25th --
10 Q. 2005?
11 A. -- 2005.
12 Q. Okay.
13 A. Until present and future.
14 Q. Are you claiming your prescription
15 medications that were prescribed for cancer?
16 A. Yes.
17 Q. What about medical expenses after
18 now that are for your cancer, are you claiming
19 those?
20 A. Yes, I am.
21 Q. Let me ask you some questions that
22 are a little different instead of medical expense
23 here. Have you suffered pain as a result of the
24 cancer?
25 A. Oh, yes, quite a bit of pain.

1 Q. Well, what type of pain?
2 A. Bones aching and headaches, vision
3 problems.
4 Q. Have you suffered fatigue?
5 A. Oh, yes.
6 Q. How so?
7 A. I just don't feel like doing
8 anything, just too tired to do anything.
9 Q. How many chemotherapy sessions have
10 you had up to this time?
11 A. Forty-three.
12 Q. How do you know the number?
13 A. I counted them up the other day.
14 Q. Has food had the same taste for
15 you?
16 A. No.
17 Q. Has suffering from the cancer and
18 all the treatment had any effect on your sexual
19 relationship with your wife?
20 A. Yes.
21 Q. I don't want the gory details, but
22 how has it affected your relationship?
23 A. Well, first of all, I'm just too
24 tired. And second of all, I don't have the urge.
25 Q. Has your cancer affected your

1 ability to interact with your grandchildren?

2 A. Yes.

3 Q. I mean you still get to see them,
4 don't you?

5 A. I see them if they're not sick. If
6 they have anything at all, I do not get around them.

7 Q. Why?

8 A. Because my immune system is so low.

9 Q. Have you still been undergoing the
10 treatment watching your thyroid? I mean have you
11 gone for follow-up thyroid aspirations?

12 A. Just the PET scans is all they look
13 at.

14 Q. Have you still been going to have
15 those looked at?

16 A. Yes, I have a PET scan every four
17 months.

18 Q. I want to talk to you about your
19 interaction with your wife at home now, okay. Can
20 you help out with the household chores the way that
21 you did before you were diagnosed with the cancer in
22 October 2005?

23 A. No.

24 Q. Tell me some of the ways that this
25 cancer and treatment has affected that.

1 A. Well, first of all, I used to help
2 clean the house, I like to cook, and I did a lot of
3 cooking, and I always liked to work landscaping in
4 the back of our condominium.

5 And now I don't do any of that. I
6 used to keep my cars all cleaned up, waxed all three
7 of them, and now I have it done. We have a bonus
8 room above our garage, and I can't go up there
9 without having to sit down and rest if I ever make
10 it up the steps, so I don't even go up in the bonus
11 room.

12 Q. How do you keep a positive attitude,
13 about the future?

14 A. Because of God's grace.

15 MR. SHAPIRO: Let's take a break
16 right now, okay. We're going to take a
17 quick break.

18 THE COURT: Why don't we stop it
19 right there. We will take our morning break
20 and come back for about 15 minutes, then
21 we'll come back.

22 (Off the record at 10:27 a.m.)

23 (On the record at 10:48 a.m.)

24 THE COURT: Okay. Turn the machine
25 back on then.

1 to observe?

2 A. Yes.

3 Q. Did you have to look out the window
4 or just basically keep an eye along the window?

5 A. No, you looked out the bay window.

6 Q. Okay. Were those cabooses air
7 conditioned?

8 A. No.

9 Q. When you worked a caboose, would it
10 sometimes be on a fairly long train?

11 A. Yes.

12 Q. And did you work on trains that
13 left Knoxville and went toward, where did you say,
14 Etowah or Corbin?

15 A. Etowah to Corbin, Knoxville to
16 Corbin.

17 Q. Okay. Did any of those trains --
18 well, let me ask it this way. You talked about
19 brake shoes. What does brake shoes have to do with
20 you riding in a caboose, anything?

21 A. Well, when we came off the
22 mountain, the engineer had to have the brakes on
23 probably fifty percent of the time, so the smoke and
24 dust from the brake shoes would come right into the
25 caboose.

1 Q. So from the car immediately ahead
2 of the caboose brake shoes?

3 A. The whole train would be smoking,
4 the wheels, yes.

5 Q. Was there enough smoke that you
6 could see it?

7 A. Yes.

8 Q. Would the dust get inside the
9 caboose?

10 A. Yes.

11 Q. How do you know?

12 A. Well, you could see it, especially
13 when -- sunlight, bright sunlight.

14 Q. How do you know that smoke or dust
15 was from brake shoes?

16 A. Because there was no other ground
17 dust or anything unless it was the ballast, which is
18 white.

19 Q. Would that dust land on you?

20 A. I'm sure it did.

21 Q. Did you ever observe it on your
22 clothing?

23 A. No, I didn't.

24 Q. Could you see it in the air?

25 A. Yes, you could see it in the air.

1 Q. Why didn't you complain?

2 A. It didn't do any good for one
3 thing, and the next -- didn't even know that
4 asbestos was dangerous until fifteen or twenty years
5 later.

6 Q. All right, sir. I want to turn
7 your attention now to radiation or radioactive
8 substances. Do you believe you were exposed to any
9 radioactive substances while you worked for the
10 railroad?

11 A. Yes.

12 Q. Did the Louisville and Nashville
13 Railroad, the L&N, have an exclusive relationship
14 with Oak Ridge nuclear facility?

15 A. Yes, they did.

16 Q. Were they the only railroad that
17 moved their scrap or cargo by railroad out of that
18 facility at Y-12?

19 A. I don't know whether the Southern
20 was in there or not. Southern was close by. I
21 don't know whether they handle scrap or not.

22 Q. Did CSX have a small spur track in
23 the little yard area right beside Oak Ridge to
24 handle the cargo?

25 A. Yes.

1 Q. Was that called the CSX spur?
2 A. (Witness shakes head negatively).
3 Q. What did you all call it?
4 A. Oak Ridge spur.
5 Q. Oak Ridge spur.
6 A. Yeah.
7 Q. Did you handle cargo from Oak Ridge
8 to the West Knoxville yard for some period of time?
9 A. Yes.
10 Q. And what decade was that in?
11 A. The '80's.
12 Q. So we talked about this earlier in
13 this case. Was it about one year that you actually
14 worked the job called the Oak Ridge job?
15 A. Yes.
16 Q. How many days a week did you work
17 that job typically?
18 A. Typically, Monday, Wednesday, and
19 Friday, three days a week.
20 Q. Okay.
21 MR. BAKER: Can we go off the
22 record for a second?
23 MR. SHAPIRO: Sure.
24 (COLLOQUY OFF THE RECORD)
25

1 BY MR. SHAPIRO:

2 Q. We were talking about the Oak Ridge
3 facility and your work there, sir. And I wanted to
4 show you a sketch here and ask you if you can
5 identify generally what that's showing.

6 A. Yes, it's showing our main line
7 coming from the CSX yard --

8 Q. Okay.

9 A. -- up to the crossing.

10 Q. Why don't you put a little arrow
11 where this little crossing is or where you said
12 there's a security guard, just put a little line so
13 everyone knows there's a line across there.

14 A. (Witness complies with request).

15 Q. Okay. There's a little line. And
16 then does that show a siding where you would leave
17 cars near the Y-12 plant?

18 A. Yes. All this here, we may go to
19 the left or whichever track is clear.

20 Q. Why don't you put a circle all the
21 way around the railroad tracks that you're calling
22 the siding, just circle that whole area, please.

23 A. (Witness complies with request).

24 Q. Okay. Why don't you put a little
25 "A" below it so we know that that circle has got the

1 "A" on it.

2 A. (Witness complies with request).

3 Q. Okay. Did you also work on any
4 other tracks shown in that sketch?

5 A. Yes.

6 Q. And what do you call that other set
7 of tracks that runs, I guess the other direction?

8 A. The team track, industrial team
9 track.

10 Q. Okay. Is that to call on Oak Ridge
11 industries that were beyond the Y-12 plant?

12 A. Yes, it had tracks, cars to unload.

13 Q. Why don't you put a circle around
14 that whole set of tracks and we'll put a "B" next to
15 that.

16 A. (Witness complies with request).

17 Q. Okay. There's a track that comes
18 toward the top of the page here and it cuts off.
19 Can you give us -- where does that track go as it
20 would leave toward the top of the page in this
21 sketch; where does that go?

22 A. Back to the CSX yard and to the
23 main line.

24 Q. Why don't you just put an arrow and
25 put "to CSX yard."

1 A. (Witness complies with request).

2 Q. Okay. Now, this sketch has got the
3 number thirty-one on it. Let me ask you this, Mr.
4 Payne. These circled areas here during that year
5 that you worked there, did you travel on those
6 tracks each of the days that you would go there?

7 A. Yes.

8 Q. Did you walk along the ground to do
9 your work?

10 A. Yes.

11 Q. Why would you be on the ground
12 level doing your work?

13 A. We would have to bring the train in
14 and I would have to cut the cars off and put the
15 hand brakes on them, and then go back around the
16 other way and pick up the cars that they have coming
17 out and do the same thing, couple up the air, let
18 hand brakes off and then couple the train up.

19 Q. I'm going to mark a few of these
20 pictures so we keep these organized and mark them
21 with an exhibit sticker later. And I'm going to
22 mark the pictures of the locomotive first with a
23 small number on the bottom right.

24 MR. BAKER: How are you marking
25 those, just sequentially? Are you making

1 those exhibits?

2 MR. SHAPIRO: Yes. I'm marking
3 them one through -- I'll call it out as soon
4 as we get it done here. I marked these
5 pictures of these various exemplary engines
6 and cabooses as one through seven. There's
7 a small number on the bottom.

8 (EXHIBIT NOS. 1 THROUGH 7 MARKED AT
9 THE DEPOSITION)

10 MR. SHAPIRO: I'm going to mark
11 this sketch of the Oak Ridge area as number
12 eight at the bottom right.. Give me one
13 second here.

14 (EXHIBIT NO. 8 MARKED AT THE
15 DEPOSITION)

16 Q. (BY MR. SHAPIRO) When you moved
17 shipments and cargo out of the Oak Ridge area, what
18 type of materials did you move, what type of cargo?

19 A. When I worked the local?

20 Q. Yeah, when you worked out of Oak
21 Ridge that year?

22 A. Okay. Mostly box cars and helium
23 cars.

24 Q. And was there any scrap metal that
25 was moved?

1 A. No.

2 Q. Were there any specially marked
3 cars that you would move in or out of Oak Ridge?
4 Were there any specially protected cars?

5 A. Protected cars, yes.

6 Q. How were they protected?

7 A. By Oak Ridge security guards.

8 Q. As a transportation worker, how
9 close were you to these special cars, what did you
10 have to do with them?

11 A. Just couple the air to them and let
12 the hand brake off and on..

13 Q. Were these guards armed?

14 A. I have no idea.

15 Q. Where did you move the cars from
16 Oak Ridge to?

17 A. From the spur to West Knoxville
18 yard.

19 Q. Were any of the cars or the cargo
20 marked with radioactive symbols?

21 A. No.

22 Q. Were you as a worker advised of
23 what was -- whether any of the cargo was hazardous
24 or radioactive?

25 A. No.

1 Q. Now, let me turn your attention to
2 the other parts of your forty year career besides
3 the one year that you called on Oak Ridge. When you
4 called -- when you worked out of the West Knoxville
5 yard, other parts of your career, did you handle
6 cars that were being moved out of Oak Ridge?

7 A. Yes.

8 Q. How did you know that it was a car
9 that was from Oak Ridge?

10 A. It would show on our switch list
11 that it was the local, what track he was in and that
12 we had to switch it up.

13 Q. And then when you got those cars
14 and you made them part of your train, did you call
15 on this Witherspoon Scrap Yard during a part of your
16 career?

17 A. Yes, I did.

18 Q. And you worked for the railroad
19 from the early '60's through to 2003. During what
20 part of your career did you from time to time call
21 on the Witherspoon Scrap Yard?

22 A. All of it except the eight years I
23 was on the road, and up until they closed
24 Witherspoon down.

25 Q. And was Witherspoon Scrap Yard

1 closed down in 1993?

2 A. Yes, it was.

3 Q. And did you learn why it was closed
4 down?

5 A. Yes.

6 Q. Well, when you would work for the
7 railroad taking cargo from West Knox yard to
8 Witherspoon, did you have to cross a railroad bridge
9 over the Tennessee River?

10 A. Yes.

11 Q. Let me show you two pictures here
12 and ask if you can identify what those aerial
13 pictures show.

14 A. Yes, that's the river bridge.

15 MR. SHAPIRO: I'm going to mark
16 these, they're just slightly different, as
17 number nine and ten in the bottom right
18 corner.

19 (EXHIBIT NOS. 9 AND 10 MARKED AT
20 THE DEPOSITION)

21 Q. (BY MR. SHAPIRO) And let me ask you
22 if you can identify this.

23 MR. SHAPIRO: I'm going to mark for
24 identification these as number eleven and
25 number twelve in the bottom right.

1 (EXHIBIT NOS. 11 AND 12 MARKED AT
2 THE DEPOSITION)
3 Q. (BY MR. SHAPIRO) What do these two
4 pictures show, sir?
5 These are what we call Meagons
6 (sic).
7 Q. Is that a type of car that you ever
8 worked with in your career with the railroad?
9 A. Yes.
10 Q. And is it also called an open top
11 gondola car?
12 A. Yes.
13 Q. Were gondola cars used for scrap,
14 for example?
15 A. Yes.
16 Q. Were they used also for other types
17 of things like --
18 A. Logs, wooden logs and --
19 Q. What about metal drums
20 occasionally?
21 A. Oh, yes.
22 Q. During your career, did you switch
23 cars like these cars, open top gondola cars, with
24 cargo from Witherspoon -- from Oak Ridge that was
25 going to be transported to Witherspoon Scrap Yard?

1 A. Yes, I did.

2 Q. And I guess -- I want to tie in why
3 I asked you about this railroad bridge and these
4 cars. What was the significance of the railroad
5 bridge here across the Tennessee River and these
6 open gondola cars with relation to scrap going to
7 Witherspoon?

8 A. That was what we would have to ride
9 in in order to go over -- protect the rear of the
10 train and go over to Vestal.

11 Q. So let me make sure I understand
12 what you're saying. A worker would have to ride
13 inside those cars?

14 A. Yes.

15 Q. I still don't understand. Why did
16 they have to have a worker inside the cars as
17 opposed to somewhere else?

18 A. So I could look out for the rear of
19 the train that was being shoved.

20 MR. BAKER: Being shoved.

21 MR. SHAPIRO: I'm making sure the
22 jury understands. Mr. Payne, has told me
23 already. I want people to understand. I
24 happen to understand.

25 MR. BAKER: That's nice to know.

1 MR. SHAPIRO: Okay.

2 Q. (BY MR. SHAPIRO) So, Mr. Payne, are
3 you talking about every time that you had to take a
4 train south toward the Witherspoon Scrap Yard, if
5 you were working the train, did you have to ride
6 inside this car?

7 A. Yes.

8 Q. When you rode inside these cars,
9 were there ever metal drums from Oak Ridge for
10 Witherspoon?

11 A. Yes.

12 Q. Were any of the drums ever
13 plaquered or marked in any particular way?

14 A. Yes.

15 Q. And did any of them have a
16 radioactive symbol?

17 A. Yes.

18 Q. Was this once, was this a lot of
19 times, what are we talking about?

20 A. A lot of times. When I first
21 started work in 1962 and '63.

22 Q. So particularly at the beginning of
23 your career?

24 A. Yes.

25 Q. And how close would you be to these

1 drums?

2 A. I'd be right next to them, inside
3 with them.

4 MR. SHAPIRO: Mr. Videographer, can
5 you quickly -- let's see here.

6 Q. (BY MR. SHAPIRO) It's kind of
7 low tech, but is that an example of an open Meagon
8 car?

9 A. Yes, it is.

10 Q. And would you be situated inside
11 the car across that bridge?

12 A. Yes. If this was the rear, I would
13 be right here (indicating).

14 Q. And what does this show, sir?

15 A. That shows a radioactive drum.

16 Q. Is this the type of appearance of a
17 drum that you would ride inside the car with?

18 A. Yes.

19 Q. When you did that job, did anyone
20 from CSX or L&N, I guess in the '60's, give you any
21 type of special instructions on handling this type
22 of cargo?

23 A. No, they did not. It was just
24 another car.

25 MR. SHAPIRO: I'm going to mark

1 this barrel exemplary picture as number
2 thirteen.

3 (EXHIBIT NO. 13 MARKED AT THE
4 DEPOSITION)

5 Q. (BY MR. SHAPIRO) How many miles --
6 is that -- how long would you have to stay in the
7 car time-wise from getting in it, riding across the
8 bridge to getting out of it?

9 A. Well, sometimes we wouldn't even be
10 able to get across the bridge because of another
11 train, so you would stand there in the car until the
12 train got by, then you would go over to Vestal,
13 which is about three miles total, two to three miles
14 total.

15 Q. How long would you be situated in a
16 car?

17 A. Well, it was according to whether
18 or not you had to wait on trains or wait on a track
19 man.

20 Q. Give us a range of time.

21 A. Thirty minutes.

22 Q. Then at some point you would be
23 able to drop down out of that car?

24 A. Yes.

25 Q. Where would you ride after that?

1 When you get to -- you wait until you got to the
2 industry and then you dropped down?

3 A. Yes. If we were just going to work
4 Witherspoon, I would stay in the car until we got
5 all the way up to the crossing, to the Candora
6 Crossing.

7 Q. Were there any other types of
8 materials inside the gondola cars that you rode in
9 besides drums, for example?

10 A. Yes.

11 Q. What other types of things were in
12 the open gondola cars?

13 A. Scrap metal.

14 Q. Did you know whether that metal was
15 from Oak Ridge for Witherspoon?

16 A. Yes.

17 Q. What did Witherspoon do with
18 metal?

19 A. They cut it up, they crushed it,
20 they chopped it up, baled it, and then would sell
21 it.

22 Q. Did you ride in cars with scrap
23 metal?

24 A. Yes.

25 Q. Did you know whether it was

1 radioactive scrap metal?

2 A. No.

3 Q. Did you know whether Witherspoon
4 had a license to handle radioactive metal from Oak
5 Ridge?

6 A. I have no idea.

7 Q. Was that one of the main things
8 they did, handle the scrap metal at Witherspoon?

9 A. Yes.

10 Q. Well, once they handled the metal
11 and crushed it or whatever the things that they did
12 there you described, did you ever have to take that
13 scrap metal in the cars out of Witherspoon somewhere
14 else?

15 A. Yes, back to West Knoxville yard.

16 Q. Was that routine or a rare event?

17 A. Routine.

18 Q. Did they have a smelting area at
19 the yard at Witherspoon where they smelted metal?

20 A. Where they melted it like melt?

21 Q. Yes.

22 A. No.

23 Q. What about smelting it? Do you
24 know what smelting is?

25 A. Well, you just said, isn't it

1 melting the metal down?

2 Q. I'm not going to put words in your
3 mouth. You're just not sure about whether it was a
4 smelting process or not?

5 A. They cut it, they crushed it, they
6 baled it.

7 Q. Okay. Let me show you a few
8 diagrams here. Let me show you a little site layout
9 and ask you if you can identify that, sir.

10 A. Yes.

11 Q. Is this the Witherspoon scrap yard
12 area?

13 A. Yes.

14 Q. Can you -- well, we haven't really
15 gotten there yet. Tell us what you did -- when you
16 would work for the railroad and you would take cars
17 to Witherspoon, explain generally what you did and
18 what your work was to go in and out of there before
19 we mark anything. Just tell what you did there.

20 A. Okay. We would shove, shove all
21 the way up to Candora Road, then we would unlock the
22 gate, and then we'd go in -- well, we would stay
23 there until the foreman -- if I was foreman, I'd
24 walk back and see if I could find the yard boss.

25 Q. A Witherspoon yard boss?

1 A. Yes. And see what he wanted, where
2 he wanted the cars. If I was the field -- what they
3 call the field man, I'd walk with the foreman back,
4 because I had to do the work. If I was the engine
5 man, I'd still be on the engine.

6 Q. Typically, because of the size of
7 the Witherspoon area that can receive cars, what was
8 the number of cars that you would take in to drop
9 there?

10 What was the range of number of
11 cars?

12 A. The whole area will hold fifteen
13 cars, but five cars underneath the shed, underneath
14 the magnetic house shed.

15 Q. And was there a -- so did that
16 define the maximum number you would move out of
17 Witherspoon if they had work for you to take scrap
18 out of there?

19 A. If the track was completely full,
20 yes, we'd have fifteen cars.

21 Q. So you would have to get on the
22 ground if that was your particular duty and find
23 their foreman to determine the scope of what you
24 would do that day?

25 A. Yes.

1 Q. And what would you have to find
2 out, how many cars you were pulling out of there?

3 A. Yes. If he wanted them on the rear
4 of what was in there now or what.

5 Q. On that sketch, before we get into
6 marking it as an exhibit, explain for the jury what
7 type of process they had there, or did they have any
8 work ongoing in the area where you would drop the
9 cars?

10 A. Oh, yes, they continued work.

11 Q. What type of work and what type of
12 machinery did they have?

13 A. There were welders up there cutting
14 heavy stuff, there were -- the magnet was going
15 across the track picking up scrap out of cars,
16 throwing it over on the bank or picking it up and
17 throwing it into a baler or a crusher.

18 Q. Let me show you this picture and
19 ask if you can identify this aerial picture.

20 A. Yes.

21 Q. What does that show?

22 A. It shows the track going into what
23 they're calling the magnet house.

24 MR. BAKER: May I see which
25 photograph we're using there?

1 MR. SHAPIRO: Yes, certainly.

2 MR. BAKER: Okay. Thank you.

3 Q. (BY MR. SHAPIRO) Mr. Payne, I want
4 you to take that black magic marker and circle or
5 with a rectangle put a black line around the entire
6 area that you would work on. I realize this is an
7 aerial. It's not necessarily a great view.

8 A. Yeah. (Witness complies with
9 request).

10 MR. SHAPIRO: Let me go ahead and
11 make this the next exhibit. Make this
12 exhibit, I think we're up to fourteen. And,
13 Mr. Videographer, maybe you can zoom in on
14 that some.

15 (EXHIBIT NO. 14 MARKED AT THE
16 DEPOSITION)

17 Q. (BY MR. SHAPIRO) You put the black
18 line around this area here, sir?

19 A. Yes, I did.

20 Q. I don't know if the videographer
21 can get anything on this, but there's a -- you can
22 see a rust color, sort of a roof of some kind here.
23 And did you come in from this direction when you
24 came to Witherspoon from Knoxville?

25 A. Yes.

1 Q. I think in the background you can
2 actually see some of the buildings in Knoxville
3 here.

4 A. Yes.

5 Q. So you bring the train over the
6 bridge, down through here, and then -- so is this
7 where the tracks were, the area you've circled?

8 A. Yes, the track was in between the
9 circle.

10 Q. Which side of this big circle was
11 the gate at that you described when you would enter?

12 A. This end here.

13 Q. So the end closest to Knoxville
14 proper?

15 A. Yes.

16 Q. You described a magnet, and it took
17 me awhile to understand what you were talking about.
18 There's two big metal girders over here. What do
19 you mean when you describe the magnet? What did it
20 do and how did it work?

21 A. That's what the magnet ran on was
22 the rails. Those are rails right here. He could
23 come all the way back here to do work.

24 Q. So a crane operator could move a
25 big magnet along those girders back and forth --

1 A. Yes.

2 Q. -- over top of the cars?

3 A. Yes. He was in a control box up
4 above, and he ran backwards and forwards.

5 Q. So the magnet would go down over
6 the cars, pick up metal, and then it would have a
7 crane that could move it off to the side of the
8 track?

9 A. The magnet would move it, set it
10 over beside of the track up on the bank.

11 Q. When you went in there and you
12 walked the track, were they doing that work while
13 you were there?

14 A. Yes.

15 Q. Were there heaps of metal to the
16 side of the tracks that you would walk along?

17 A. Yes.

18 Q. You described a process where they
19 crush scrap metal. What did they do; if they
20 crushed it into a bale? How did they get it back
21 into a car?

22 A. With the overhead crane.

23 Q. And so where did they set off the
24 cars for you to pick up, were they still right on
25 the same track here, or were there two tracks?

1 A. No, there was only one track. We
2 switched. There's a little spur track right here
3 that they stored old engine in for a long time.

4 Q. When you called on this particular
5 industry on a particular day, what's the range of
6 time that you would be in there working?

7 A. At least one hour.

8 Q. Were there times that you were
9 there more than an hour?

10 A. Oh, yes.

11 Q. Were there times that you were
12 there less than forty-five minutes?

13 A. No, I doubt that.

14 Q. Did you ever see dust in the air
15 when you were there?

16 A. All the time.

17 Q. Now, did you call on Witherspoon up
18 until the time they closed?

19 A. Yes, except for the time that I was
20 on the road.

21 Q. Right. So from the period, except
22 for the eight years in there, you worked from the
23 '60's through to the, I guess till early '90's?

24 A. Yes. I was in there hundreds of
25 times.

1 Q. When you were there, did you ever
2 observe any metal barrels marked with any
3 radioactive symbols on the ground?

4 A. Yes.

5 Q. How long were those barrels there?
6 Were they there a few days, a few
7 weeks, what are you talking about?

8 A. They were there when I left the
9 railroad.

10 Q. Over how long a period of time were
11 those barrels setting on the ground at the
12 Witherspoon area?

13 A. From 1962 until 1993.

14 Q. Forty years?

15 A. (Witness nods head affirmatively).

16 Q. Why would the barrels sit on the
17 ground next to the track for forty years?

18 A. I do not know.

19 Q. How many are we talking about?

20 A. I don't know.

21 Q. Less than twenty, more than twenty?

22 A. Around twenty or thirty. I don't
23 know. I never counted them.

24 Q. Why do you remember them?

25 A. Because I took them over there, and

1 you just say, man, I brought these over there forty
2 years ago, thirty years ago.

3 Q. You never learned from anybody over
4 at Witherspoon why they sat there all that time?

5 A. No one told me why they were
6 sitting there, no.

7 Q. In the entire time you worked
8 there, did L&N or CSX ever give you any training
9 about the handling of any radioactive waste that you
10 were handling or transporting?

11 A. They never said one thing to me
12 about radioactivity, asbestos or any hazard, any
13 chemical hazard.

14 Q. Well, did you ever complain about
15 the conditions at that yard ever?

16 A. Yes. Yes, I did.

17 Q. What type of complaint did you
18 make?

19 A. About the dust and the dirt and the
20 mud and the water.

21 Q. Did you know -- as you're walking
22 there beside these barrels, did you know whether you
23 got radioactive exposure on any particular moment
24 you were working there?

25 A. No, I wouldn't know. I was never

1 given any test or anything, so I didn't know what
2 radioactivity amount was or whatever. But the
3 bottoms of the drums started rusting out, and you
4 could see the rust ring around the bottom of the
5 drums.

6 Q. The ones you're referring to that
7 sat there all those years?

8 A. Yes, sir.

9 Q. Let me show you one more sketch
10 here. Actually, we didn't mark this first sketch
11 because we got to talking about other things.
12 Please circle the area on that sketch that
13 encompassed the areas that you would work during all
14 your times there.

15 A. (Witness complies with request).

16 Q. Can you put a line out to it and
17 just put "A" so we know that circle is what you're
18 marking.

19 A. (Witness complies with request).

20 Q. Okay. You mentioned to me there
21 were some other industries that you had to travel to
22 near Witherspoon; is that true?

23 A. Yes.

24 Q. And the track that you just marked,
25 did you have to go through there to go to those

1 industries also?

2 A. Yes, I did. You had to go all the
3 way back, open another gate, and then back to the
4 warehouse.

5 MR. SHAPIRO: I'm going to mark
6 this as number fifteen. And let me show you
7 what I'm going to premark as number sixteen
8 which is another sort of plat like thing
9 here.

10 (EXHIBIT NOS. 15 AND 16 MARKED AT
11 THE DEPOSITION)

12 Q. (BY MR. SHAPIRO) Can you generally
13 tell us whether that shows this area next to Candora
14 Road also?

15 A. Yes.

16 Q. Can you put a big rectangle around
17 the general area that's the Witherspoon area on
18 there?

19 A. (Witness complies with request).

20 Q. Try to make it with some squiggly
21 lines so it doesn't get mixed up with what's already
22 there.

23 A. Yeah.

24 Q. Put a line out a little distance
25 from it and put an "A", okay?

1 A. An "A" or a "B"?

2 Q. Or "B", whatever.

3 A. (Witness complies with request).

4 Q. Let me show you another group of
5 pictures just to ask you if you can identify these
6 pictures and what is --

7 MR. SHAPIRO: I'm going to mark
8 these seventeen through twenty because
9 they're all aerials.

10 Q. (BY MR. SHAPIRO) And can you tell
11 us whether these are all different views of that
12 Witherspoon area you've been talking about?

13 A. Yes, they are.

14 Q. Now, you didn't take those
15 pictures, did you?

16 A. No, I did not.

17 Q. You're not sure who took them, are
18 you?

19 A. No.

20 Q. But you can tell that's the
21 Witherspoon yard; right?

22 A. Yes, it is.

23 Q. And you're not sure what year those
24 were taken, are you?

25 A. No.

1 Q. As a matter of fact, you can tell
2 that this must be subsequent to the time that they
3 closed it down; right?

4 A. Yes.

5 Q. And you can tell that, why, because
6 none of the operations are going on?

7 A. You can't even see the track
8 because it's grown over.

9 Q. But there's a rusty sort of roof
10 area and some girders there. Is that that magnet
11 house area you were talking about?

12 A. Yes, it is.

13 Q. Did you call it the magnet house
14 or --

15 A. No.

16 Q. What did you guys call it?

17 A. The shed.

18 MR. SHAPIRO: I'm marking these
19 seventeen through twenty.

20 (EXHIBIT NOS. 17 THROUGH 20 MARKED
21 AT THE DEPOSITION)

22 MR. SHAPIRO: I have a few more
23 here, a different set of pictures, they're
24 smaller. I marked them twenty-one through
25 twenty-three.

1 (EXHIBIT NOS. 21 THROUGH 23 MARKED
2 AT THE DEPOSITION)

3 Q. (BY MR. SHAPIRO) Can you tell us
4 what generally is being shown in those pictures,
5 sir? You don't have to -- I just -- can you tell
6 whether that's the area near Witherspoon?

7 A. Yes. This is the main -- our CSX
8 main line, and over here sets Witherspoon.

9 Q. Is that the shed or --

10 A. Yes, that's the same shed.

11 Q. So the track you see there is
12 actually the main, not the one that goes right under
13 the shed; right?

14 A. That's correct.

15 Q. And that's referring to twenty-two.

16 Is twenty-one -- well, in
17 twenty-one here there's four pictures. Up here
18 there's a gate in the top right of the four
19 pictures. Do you have any idea whether that's a
20 gate going into Witherspoon or not?

21 A. I do not. I don't know.

22 Q. What on these four pictures are you
23 sure about? I mean are you sure that --

24 A. I'm sure that this is the shed.
25 I'm sure that this is the main line. Right here,

1 I'm sure that this is the Witherspoon track, and
2 there's the engine I talked about that was stored.

3 Q. That's the bottom right picture on
4 twenty-one, there's just an engine that was stored
5 there?

6 A. Yes.

7 Q. Did it stay there for years or was
8 it just --

9 A. Witherspoon had bought that engine.

10 Q. I see. Okay. And then in
11 twenty-three can you tell if that aerial is the
12 Witherspoon area taken at some time?

13 A. Yes, I can.

14 Q. Do you know when this was taken?

15 A. No, I do not.

16 Q. At anytime you worked at
17 Witherspoon up until '93, were you aware of whether
18 anyone with the railroad did any tests for
19 radioactive levels there?

20 A. I never saw one test or didn't hear
21 of anyone doing a test.

22 Q. Did any supervisor ever say to you,
23 you need to work one place or another because of any
24 hazard at that site?

25 A. No, they did not.

1 A. Yes.

2 Q. In this type of engine, was this

3 called a switcher engine, or what do you --

4 A. Yeah, a switch engine.

5 Q. When you would be in the engine

6 moving in this direction I'm pointing, would the

7 fumes trail -- where would the fumes trail?

8 A. Into the cab.

9 Q. It's hard to tell in this picture,

10 but is this the cab here?

11 A. This is the cab, yes.

12 Q. Where were the windows?

13 A. The side windows was here and over

14 here, and this was glass, but stable glass.

15 Q. Okay. Did any of those engines at

16 any time have air conditioning?

17 A. No, they did not.

18 Q. Did you leave the windows open when

19 it was hot?

20 A. Yes.

21 Q. Did the fumes trail into the engine

22 cab at any time?

23 A. Yes, they did.

24 Q. How do you know?

25 A. You could see, smell, feel, taste.

1 Q. Did the fumes only come in through
2 the side windows?

3 A. No, on the other side of the engine
4 is the door that we came in and out of when we was
5 going to the front of the engine. And the door
6 always -- in the summertime, we would even have the
7 door open too.

8 Q. Just because of the heat?

9 A. Yes.

10 Q. And even when the door was closed,
11 did you notice whether fumes would get in through
12 the door?

13 A. Oh, yes. None of the doors fit
14 tight.

15 Q. Could you smell the fumes?

16 A. Yes, you could smell them.

17 Q. Could you see them?

18 A. You could see the fumes, especially
19 in the bright sunlight.

20 Q. Well, did you work on this type of
21 engine over a course of twenty years or so?

22 A. I'd say so, around twenty.

23 Q. Did the time that you would spend
24 inside the cab of the engine vary depending upon
25 your job?

1 A. Yes.

2 Q. Did the fumes ever get in your nose
3 or did you ever notice it?

4 A. Oh, yeah. Yeah, your nose would
5 always -- if you blew your nose, it was always
6 black.

7 Q. During that period of time, did you
8 ever complain to a supervisor, I'm in an engine
9 that's got all these fumes coming in? Did you ever
10 do that?

11 A. One time when we walked out of the
12 yard office to get our engine, which was setting
13 right in front of the yard office, it was so bad --
14 it was in the wintertime, and it was so bad that you
15 could just see it laying over -- laying over in the
16 engine, smoke and stuff was just laying over on the
17 engine, and we just refused to work with it. That's
18 the only time I ever said anything about it.

19 Q. Well, if it was like this on these
20 engines all the time, why didn't you complain and
21 register some sort of formal written complaint?

22 A. I didn't even know that diesel
23 fumes was bad, that it, you know, was a hazard.

24 Q. While you worked out there for your
25 entire forty-year career, did the railroad ever

1 offer you any training about diesel fumes?

2 A. No, they did not.

3 Q. Did they ever offer you a
4 respirator or a mask to wear if you were
5 uncomfortable about the level of diesel fumes in the
6 cab?

7 A. Never.

8 Q. Let's talk about some of these
9 other ones. Actually, is there something that you
10 noticed about number four and number five of any
11 significance?

12 A. They're the same engine number.

13 Q. So this is an L&N engine here?

14 A. Uh-huh (Affirmative).

15 Q. And then this 1147 appears to be
16 the same engine marked with CSX?

17 A. Yes.

18 Q. About when did CSX take over L&N?

19 A. I don't remember the date, no.

20 Q. You were working for L&N for a long
21 time, and then you said it was, what, Seaboard?

22 A. SCL&N.

23 Q. Seaboard Coastline --

24 A. Seaboard Coastline N.

25 Q. And then from there, did it go

1 talking about the way that it's headed?

2 Q. I'm just talking about the way that
3 this particular engine is operated?

4 A. Oh, yeah, it reversed back and
5 forth, yeah.

6 Q. So depending upon which way the
7 engine is run, does it have an affect on the fumes
8 and which way they go?

9 A. Sure it does.

10 Q. Here's a different L&N engine type
11 here. Is this a general type of engine that you
12 also ran during your career?

13 A. Yes, that's a jeeb.

14 Q. I notice there's black smoke here.
15 Did you ever see black smoke like that coming out of
16 an engine?

17 A. I sure have, yes.

18 Q. Were they all that bad?

19 A. Not all that bad. That's
20 definitely a fuel line stopped up or something.

21 Q. In this picture, was the stack
22 fumes when it ran in the normal direction, was the
23 stack forward of where you were in the cab, this
24 stack? In other words, was this engine -- which --
25 point and show us which engine that --

1 A. At West Knoxville. This engine
2 here was always headed this way, north.
3 Q. Is that called long hood forward?
4 A. Yes.
5 Q. Now, were there other engines that
6 were run short hood forward normally?
7 A. Yes.
8 Q. Is that an example of one?
9 A. Right, jeebs.
10 Q. What about this one?
11 A. Yes.
12 Q. You said you ran to Corbin,
13 Kentucky. Over how long in your career did you do
14 that run? Was that a road job?
15 A. Probably eight years.
16 Q. About eight years?
17 A. Yes.
18 Q. Were there any tunnels on the way
19 to Corbin or back?
20 A. Oh, yes.
21 Q. When you worked inside a tunnel
22 taking a train, how were the fumes when you would
23 work through a long tunnel?
24 A. Terrible. If you had -- if you
25 stopped to have trouble, if you had any trouble.

1 I've even worked in the tunnel with a wrecker.

2 Q. What does that mean?

3 A. Well, that means we had had a
4 derailment, and we had a wrecker in there
5 straightening up, fixing the cars, and you would
6 have to be in there in the tunnel with them.

7 Q. When that would happen, how long
8 would you be in the tunnel?

9 A. Well, we would try to rotate in and
10 out because of the fumes.

11 Q. So were the fumes dense enough that
12 you could see them?

13 A. It was so dark you couldn't see
14 them.

15 Q. Dark from what, from the fumes or
16 from the lighting?

17 A. From no lights. No lights in the
18 tunnel.

19 Q. Was it hard to breathe when you
20 were working in a tunnel like that?

21 A. Sure.

22 Q. During anytime that you worked up
23 until the end of your career, did any of the
24 locomotives that you regularly worked on have air
25 conditioning?

1 A. No, sir.

2 Q. Let me talk about the '60's when
3 you worked on these engines.

4 A. Okay.

5 Q. Was there ever a day that you
6 worked inside an engine that you didn't notice
7 diesel fumes while you were inside the engine cab?

8 A. No.

9 Q. What about the '70's, the same
10 question. When you worked inside the cab, was there
11 ever a cab you worked in where you didn't smell
12 diesel fumes?

13 A. No.

14 Q. The '80's?

15 A. No.

16 Q. The '90's?

17 A. No.

18 Q. Did any railroad company official
19 ever come inside an engine that you ever worked on
20 in your forty years and say, Mr. Payne, we're going
21 to check the air level inside this cab for diesel
22 fumes?

23 A. No, they did not.

24 Q. During your entire career, did you
25 ever while you worked out there learn from another

1 picture. This is an open top gondola car.

2 A. Uh-huh (Affirmative).

3 Q. Do you believe you were ever
4 exposed to radioactive substances when you were
5 inside the open gondola cars working for CSX?

6 A. Yes.

7 Q. What is it you are claiming the
8 railroad should have done to protect you from
9 radioactive substances? You just described where
10 you believe you were exposed. What do you think CSX
11 should have done?

12 A. I think they should have given me
13 training of what to do in case we were handling or
14 being close to radiation or asbestos or diesel
15 fumes. They should have offered protective
16 clothing, respirators, whatever it took to protect a
17 man's health.

18 Q. Let me show you this document that
19 I never identified earlier. It's a summary here.
20 Does this summarize some of the medical procedures
21 and diagnostic testing you had between October of
22 2005 and at least up through the spring of 2008?

23 A. Yes, it does.

24 Q. Are you also claiming any of your
25 cancer related care and procedures since that time

<p style="text-align: right;">Page 325</p> <p>1 A. Yeah, I'm sure they knew, yes.</p> <p>2 Q. Did you ever ride inside gondola</p> <p>3 cars with scrap metal?</p> <p>4 A. Yes.</p> <p>5 Q. Let me show you a couple of these</p> <p>6 pictures.</p> <p>7 Is that a picture of a gondola car?</p> <p>8 A. Yes, sir.</p> <p>9 Q. Is this a typical type of car or --</p> <p>10 A. The ones we took to Witherspoon</p> <p>11 weren't that big, they were much smaller, sit</p> <p>12 lower and --</p> <p>13 Q. Were the sides lower?</p> <p>14 A. Yes, top to bottom they were lower,</p> <p>15 yes.</p> <p>16 Q. Okay.</p> <p>17 A. That's a high side. Generally, we</p> <p>18 didn't take that many high sides over there.</p> <p>19 Q. Okay. So a low side would be about</p> <p>20 how many feet up would you estimate?</p> <p>21 A. Well, some of them would be four,</p> <p>22 three and a half, four feet, on up to five or six</p> <p>23 feet.</p> <p>24 Q. So if you were one of the men who</p> <p>25 was protecting that shove, what do you do, just</p>	<p style="text-align: right;">Page 327</p> <p>1 you take scrap destined for Witherspoon yourself?</p> <p>2 A. Yes.</p> <p>3 Q. Were you on crews with Mr. Payne</p> <p>4 from time to time?</p> <p>5 A. Yes, I was.</p> <p>6 Q. Did you guys ever get any official</p> <p>7 papers that said anything about whether the scrap</p> <p>8 was radioactive?</p> <p>9 A. I never seen any, no, sir.</p> <p>10 Q. Did any supervisors tell you</p> <p>11 anything, hey, you know, this stuff is low level</p> <p>12 radioactive or any -- anything whatsoever about the</p> <p>13 nature of the cargo?</p> <p>14 A. Not when we first started, no.</p> <p>15 Q. Well, how do you know that</p> <p>16 Witherspoon was handling radioactive cargo? How did</p> <p>17 you find out?</p> <p>18 A. Well, this -- a lot of that junk</p> <p>19 was coming out of Oak Ridge and he was licensed to</p> <p>20 handle radioactive -- one of the few around I think</p> <p>21 that was licensed to handle that stuff.</p> <p>22 Q. Sometime during the 80's did you</p> <p>23 hear anything about a question of health or a hazard</p> <p>24 from dealing with radioactive scrap there?</p> <p>25 A. Yes, it came up. It was pretty --</p>
<p style="text-align: right;">Page 326</p> <p>1 climb up in the car?</p> <p>2 A. You climb up, climb over and find</p> <p>3 something to stand on and back him up.</p> <p>4 Q. So that means this car is sort of</p> <p>5 the front end of the train and the engine is all the</p> <p>6 way at the back?</p> <p>7 A. It's the rear of your shove. The</p> <p>8 engine is north of you and you are on the south car.</p> <p>9 Q. Let me ask you to look at this</p> <p>10 artist's rendering here.</p> <p>11 Do it this way.</p> <p>12 Can you identify what that is --</p> <p>13 what that rendering is attempting to show?</p> <p>14 A. It's showing a shoving movement of</p> <p>15 a gondola with scrap metal in it.</p> <p>16 Q. And see where that little human</p> <p>17 figure is there?</p> <p>18 A. Yes, sir.</p> <p>19 Q. Is that similar to the place that a</p> <p>20 worker may ride?</p> <p>21 A. That's basically, yes, sir, you</p> <p>22 might have scrap in there, you might be sitting on</p> <p>23 top of that scrap but that's basically where you</p> <p>24 would ride.</p> <p>25 Q. When you worked in the 70's, did</p>	<p style="text-align: right;">Page 328</p> <p>1 quite a bit of it, yes, sir.</p> <p>2 Q. Let me fast-forward you. Okay?</p> <p>3 Were you still working at the</p> <p>4 time -- at a time that you learned that CSX was</p> <p>5 going to stop letting workers like yourself and</p> <p>6 Mr. Payne take cars inside the Witherspoon Scrapyard</p> <p>7 at all?</p> <p>8 A. We worked right on up until they</p> <p>9 closed it. They never told us anything about when</p> <p>10 they were going to shut down.</p> <p>11 Q. At one point in your discovery</p> <p>12 deposition, did Mr. Baker here ask you if you had</p> <p>13 stopped calling there as of 1985?</p> <p>14 A. He did.</p> <p>15 Q. And what did you tell him?</p> <p>16 A. I told him I thought it was later,</p> <p>17 much later in the years than '85.</p> <p>18 Q. What did you tell him -- what was</p> <p>19 your recollection as best you could recall?</p> <p>20 A. Best I can recall, we were still</p> <p>21 going in there.</p> <p>22 Q. Until what, until it closed up?</p> <p>23 A. Until it was closed. And then they</p> <p>24 shipped cars out of there after they closed it to</p> <p>25 get them out of there.</p>

1 it up.

2 Q. Let me show you a picture and ask
3 you, Mr. Carringer, if you can identify where this
4 is?

5 Can you hold that so the jury can
6 see it?

7 A. Yes, sir, that's -- that's the
8 mainline there, that's right before you go under the
9 shed at Witherspoon, that's one of our tracks right
10 there going in.

11 Q. You don't know when this picture
12 was taken, do you? I mean --

13 A. It could have been taken any time.
14 It sat like that for years.

15 Q. Okay. Thank you, sir.
16 One second.

17 At any time when you worked, say,
18 riding in the cars into Witherspoon -- I didn't ask
19 you this but did you take cars out of Witherspoon?

20 A. Yes.

21 Q. When you called there, did you guys
22 have to figure out how many would be brought in and
23 how many would be removed?

24 A. They would usually tell our
25 yardmasters if they had a load or two to be brought

1 in and if they have an empty to be taken out or
2 whatever, yes, sir.

3 Q. Did you take loaded cargo out of
4 there from time to time?

5 A. Occasionally, yes, we did.

6 Q. Okay. At any time during your
7 career, did you have any radiation protection
8 training from the railroad?

9 A. No.

10 Q. Did you ever have a hazardous
11 material training that touched on radioactive stuff
12 also?

13 A. No, not that I remember, no, sir.

14 Q. Did any of the supervisors know
15 that the Witherspoon yard was handling radioactive
16 metal?

17 MR. BAKER: Objection, Your Honor,
18 as to what someone else would know.

19 THE COURT: Sustain the objection
20 as asked.

21 Q. (BY MR. SHAPIRO) Let me go back and
22 ask this a different way, Mr. Carringer.

23 You told the jury that you found
24 out at some point that there were some radiation
25 issues at Witherspoon. Right?

1 for seven and a half years.

2 Q. Well, you've briefly covered where
3 you were on the faculty.

4 Did you hold a position of
5 authority at those faculties and what was -- were
6 you a chair?

7 A. Well, I would like to think that
8 any faculty member has some authority. Students are
9 supposed to behave appropriately with us. But when
10 I went to the University of Kentucky, I became chair
11 of the Department of Preventive Medicine and
12 Environmental Health. I then moved onto the
13 University of Texas, where I was vice-president for
14 Medical Education and Professor of Occupational and
15 Environmental Medicine. And here at Drexel, I'm
16 Professor of Public Health and chair of the
17 Department of Environmental and Occupational Health
18 here at Drexel.

19 I also hold an appointment as a
20 Professor of Medicine in the pulmonary division of
21 the Department of Internal Medicine, and that's
22 where I see the patients that I still see. I don't
23 see as many as I had used to. I've been a clinician
24 all my career. I've been seeing patients, still do
25 clinical research and still see a few patients, even

1 though my major appointment is here at the School of
2 Public Health.

3 Q. Well, in those positions you just
4 outlined, did you train medical students at those
5 schools?

6 A. I trained medical students. I
7 trained residents. I've directed residency programs
8 and been part of residency programs. I've trained
9 masters students. Here I'm training masters in
10 public health students and helping the doctoral
11 training as well. I also have taught graduate
12 physicians. We do continuing medical education. I
13 teach the pulmonary fellows here quite regularly,
14 the medical students. So, teaching is part of what
15 an academic physician, like myself, does during his
16 career.

17 Q. Let me go back to what is called a
18 board certification.

19 Can you tell the Jury how a doctor
20 becomes board certified?

21 A. Board certification means one is
22 considered a specialist in that field. Board
23 certification comes from being a resident in an
24 approved residency program, having the director of
25 the program certify that you've successfully

1 completed the program and then successfully taking
2 the board certification exam, which I've discussed
3 already. So, I am now board certified in both
4 internal medicine and in the field of occupational
5 medicine.

6 Q. Have you actually submitted
7 questions for the certification exams for the
8 National Board of Medical Examiners?

9 A. I have written any number of
10 questions for the National Board of Medical
11 Examiners. I wrote questions for the certification
12 exam for specialists in occupational medicine, and
13 for seven years I also wrote questions for medical
14 students as they were trying to obtain medical
15 licenses in various states. There's a licensure set
16 of exams that they go through. And out of, I don't
17 know, 850,000 doctors in the United States,
18 something like that, somewhere around 500 of us get
19 asked to write questions to certify and license new
20 physicians.

21 Q. Have you served on the Board of
22 Directors of the American College of Preventive
23 Medicine?

24 A. I've served on the Board of
25 Directors. I've been the occupational medicine

1 both the materials that I read and speaking with
2 Mr. Payne at some point in the past before he passed
3 away.

4 Q. In your professional career have
5 you previously been involved in a study of asbestos
6 and occupational exposure to asbestos?

7 A. I have. As I mentioned earlier, I
8 trained with Dr. Irving Selikoff. He was already in
9 1968 a world authority. I have published about 170
10 items that you'll find in my resume, and about half
11 of them have something to do with asbestos. There
12 is no area that I've done more independent research
13 and original research in and published in than the
14 area of asbestos.

15 Q. In your professional career, have
16 you had occasion to study the issue of radioactive
17 substances and the effect of radiation?

18 A. I have, and I've written about that
19 to a limited extent as well.

20 Q. Have you had occasion to study the
21 occupational effects of diesel exhaust fumes in the
22 past?

23 A. Yes, sir. It's, again, a very
24 common kind of exposure. It's what one runs into.
25 In fact, in the very class that we're teaching now

1 to our first year students, one of the papers that
2 we gave them was a paper on the hazards of diesel
3 fumes and the development of lung cancer thereafter.

4 Q. In the scientific community, are
5 there journals of medicine and science that serve as
6 a basis for continuing education for students and
7 for physicians?

8 A. Yes. I mean, one of the ways as a
9 physician that I keep up with new developments in my
10 field is to read widely, but I also have served on a
11 number of editorial boards and as a reviewer of
12 articles before they are published to see if they
13 are fit to be published.

14 Virtually all of my articles, a few
15 not, but almost all of them have been reviewed by
16 others. We call that a peer-review process, where
17 other scientists, my peers, review my work and
18 decide if it's worth publishing. And I have done
19 that for virtually all of my career, and have been
20 on the editorial board and served as a reviewer for
21 more than a dozen scientific journals.

22 Q. Can you mention the ones that have
23 something to do with occupational medicine or
24 cancers?

25 A. I've been on the board of the

1 of individuals, both as part of clinical activities
2 and research studies. And while I don't see all
3 that many patients anymore, I still see a few here
4 at the university and I still do clinical research.
5 But I've seen, you know, hundreds, if not thousands
6 of individuals exposed to things like asbestos,
7 exposed to diesel, a few exposed to radiation.

8 Q. Let me turn your attention to the
9 topic of the radiation exposure, okay?

10 A. Yes, sir.

11 Q. Is meaningful exposure to
12 radioactive substances, or isotopes, I guess
13 technically, known to medicine to be a cause of lung
14 cancer and how is it known?

15 A. Well, first of all, radiation
16 causes a wide variety of cancers. I've already
17 mentioned thyroid cancer, it causes blood cancers,
18 blood-related cancers. But also exposure to
19 radiation can cause lung cancer, that you inhale
20 radioactive materials and they get into the lung and
21 that can cause lung cancer. So, certainly they can
22 do it.

23 And the second part of your
24 question was?

25 Q. How is it known or what type of

1 research?

2 A. The relationship between exposure
3 to radiation and cancer has been known for more than
4 a hundred years. When Dr. Rankin described the
5 x-ray machine, which is a form of radiation like
6 radioactive isotopes, one of his technicians died of
7 skin cancer who was demonstrating that.

8 Marie Curie, who won the Nobel
9 Prize for extracting radium, a radioactive
10 substance, died of a cancer. So, cancers and its
11 relationship to radiation exposure have been known
12 for a very, very long time. '

13 There was extensive research done
14 in the United States in the so-called Colorado
15 Plateau, where miners of uranium, who were inhaling
16 radioactive dust, not very different from what
17 Mr. Payne would have inhaled over his career as
18 well, were shown to get an excess of lung cancer.
19 And that work goes back to the 1940's and 50's. So,
20 this has been around as a subject that has been well
21 documented for a long time.

22 Q. What about in enriched uranium,
23 enriched uranium, if inhaled -- well, let me start
24 it this way. Is enriched uranium a part of nuclear
25 weapons production?

1 A. It is. One of the projects that
2 I'm working on right now is working with workers at
3 a plant that works with nuclear weapons. So, I'm
4 well aware of the exposures that people get.

5 Enriched uranium is what shows up
6 in nuclear weapons, and that's the big issue right
7 now as we deal with the strange country of Iran, for
8 example. They are enriching uranium, making it more
9 potent so it can be used for things. And certainly
10 that's the kind of work that was done at Oak Ridge.

11 Q. Is plutonium-239 a radioactive
12 isotope that is known to be connected with cancer
13 and lung cancer?

14 A. Yes, sir.

15 Q. Based on the history you obtained
16 from Mr. Payne, the materials you reviewed,
17 including the deposition testimony, what information
18 did you feel was significant with regard to
19 Mr. Payne's potential exposure to radioactive
20 substances?

21 A. What was unusual about Mr. Payne,
22 because as I've said, I've dealt with lots of
23 railroad workers, he worked with the railroad in a
24 setting where it brought him in and out of a
25 particular facility. It was called the Witherspoon

1 property, where the train would come in and pick up
2 materials at that facility, pick up scrap or move
3 materials around that were known to be radioactive.
4 And in that setting, Mr. Payne had exposure to
5 radioactive materials above whatever you and I would
6 be exposed to as part of the background that we all
7 live in.

8 MR. JORDAN: Your Honor, I'm going
9 to object to that testimony. Lack of
10 foundation.

11 A. And so it was at that facility that
12 he had additional exposures to radioactive materials
13 of the type that can cause lung cancer.

14 Q. Well, have you studied what the
15 effects of radiation can be on human cells, or in
16 other words, is there any kind of simple explanation
17 you can give on how these radioactive isotopes
18 adversely affect cells?

19 A. They can adversely affect them in
20 many ways. If it's powerful enough, it can
21 literally kill the cell. That's why we use
22 radiotherapy to treat cancer. You can actually kill
23 cells.

24 But at a level that won't kill
25 cells, the power of the radioactive material, the

1 emanations from the material will cause an
2 alteration of the DNA, the nuclear material, the
3 genetic material each of us have in our cells, and
4 it is, in fact, this alteration of the DNA that
5 gives rise to cancer.

6 So, one of the exposures that
7 Mr. Payne had was exposure to radioactive material.
8 This material is known to affect cells in such a way
9 as to cause cancer to arise.

10 Q. How do we know how much of those
11 radioactive isotopes it takes to show up as a cancer
12 years later in someone like Mr. Payne?

13 A. Well, we don't. There's no one
14 number. What we do know, and it applies to every
15 cancer causing agent, be it radioisotopes, be it
16 asbestos, be it polycyclic aromatic hydrocarbons,
17 the cancer causing agents in diesel fumes or in
18 cigarettes, for example, that there is no safe level
19 of any material.

20 The best studies on radioactive
21 materials have come -- I did mention the Colorado
22 Plateau here in the United States. But after the
23 atomic bombs were used in Japan, there were studies
24 -- they are still ongoing 60 years later -- of what
25 the effects of radioactive materials are. And it

1 Q. Now, same question with regard to
2 diesel fumes.

3 Did Mr. Payne indicate whether he
4 had any personal equipment for diesel fumes?

5 A. He did not.

6 Q. In evaluating issues relating to
7 cancers that may be connected to occupational
8 sources like this, is this type of lung cancer a
9 preventable cancer?

10 A. Absolutely. This specific kind of
11 lung cancer, which I believe had four causative
12 factors in his case, was preventable from all four
13 possible causes.

14 Q. Well, at this point let me ask you
15 about your first report that you drafted and you
16 sent out dated August 2008. Based upon everything
17 that you reviewed and based on your history of
18 Mr. Payne and reviewing his deposition, did you
19 arrive at an opinion to reasonable degree of medical
20 probability as to whether these -- as to what caused
21 Mr. Payne's lung cancer?

22 MR. JORDAN: Objection, Your Honor,
23 lack of foundation.

24 A. Yes. I'll read from my report.
25 "Based upon my review of the materials sent me and

1 my discussions with Mr. Payne, it is my opinion,
2 held with a reasonable degree of medical certainty,
3 that there was three contributing causes from
4 Mr. Payne workplace to his lung cancer. His
5 cigarette smoking would have played a role as well.
6 However, it would be my opinion that his exposures
7 to asbestos, diesel fumes and to radiation were all
8 significant contributing causes to his developing
9 the lung cancer for which he has been treated these
10 many years." And that now, unfortunately, has
11 killed him.

12 Q. (BY MR. SHAPIRO) What about the
13 contribution of cigarette smoking; could you rule
14 that out as a contributing cause?

15 A. I could not. I would have to say
16 that that was a cause, for the reasons that I
17 explained earlier, and that it was a carcinogenic
18 exposure that he had along with three others that he
19 got at his workplace.

20 Q. Now, let me switch gears to your
21 second report. Did you issue that report in June of
22 2009?

23 A. I did.

24 Q. And by the time you wrote the
25 second report, had you reviewed a bunch of reports

1 of a specific worker and exposures that I thought
2 were related to their cancer. I've certainly seen
3 measurements done at workplaces, but they weren't
4 done specific to that worker or necessarily at the
5 time that that worker was working and was exposed.

6 So, we do know something about
7 exposures, but you don't have exposure histories
8 that come with numbers on workers from any setting.

9 Q. Were the occupational exposures
10 that Mr. Payne had to radioactive substances, to
11 asbestos and to diesel substantial or chronic?

12 MR. JORDAN: Same objection, Your
13 Honor.

14 A. Well, they were both substantial
15 and they were chronic, and I believe they were
16 causative of his cancer.

17 Q. (BY MR. SHAPIRO) Does it affect
18 your ability to render the opinion today, or in your
19 reports, that you don't have the precise dose or
20 exposure records?

21 A. Of course not. With cancer-causing
22 agents we know that any level of exposure above
23 background for any cancer-causing agent can give
24 rise to cancer. So, what I have to do is be able to
25 sit here, as you've asked me already, you know, with

1 dozen of them were litigated cases. So they had an
2 understanding that workers were being injured by
3 their diesel exhaust exposures at that time.

4 Q. Based on your review of all of the
5 materials in this case, was Mr. Payne exposed to any
6 unsafe levels of diesel exhaust fumes?

7 MR. JORDAN: Objection, Your Honor.
8 Complete lack of foundation.

9 THE COURT: Okay. Same rule. He
10 may ask the question. The jury will be able
11 to decide the value of that answer.

12 Go ahead.

13 A. It's my opinion that he was exposed
14 to injurious levels of diesel exhaust. He said in
15 his deposition, and he said to me when I talked to
16 him, that every day that he went to work he was
17 exposed to diesel exhaust.

18 The amount of diesel exhaust that
19 he was exposed to could have been significantly
20 lessened if the railroad had utilized appropriate
21 control technology. But just in terms of was he
22 exposed, the answer to that question is yes, and he
23 testified to it in his deposition and he said it to
24 me.

25 Q. (BY MR. SHAPIRO) Were there

1 Q. And L&N, of course, as a railroad
2 would be paid for every load of cargo that it
3 brought to a customer; right?

4 A. Yes, sir.

5 Q. In -- let me see which exhibit this
6 is. At the very back of the radiation exhibits
7 there's an exhibit -- I think these two exhibits are
8 numbered 40 and 41. And if you want to take a look
9 at those, sir. I just put up something from Exhibit
10 -- give me a moment there. From Exhibit 41. Okay?

11 A. Uh-huh.

12 Q. This particular exhibit was taken
13 from some records of the Tennessee Department of
14 Radiological Health, and it talks about -- it's a
15 little hard to see here, but there were railroad
16 shipments 79,400 pounds labeled contaminated
17 radioactive material. And this is in 1971, talking
18 about the Witherspoon property. Did you see those
19 documents?

20 A. This is the first time I've seen
21 these documents here today.

22 Q. Okay. Well, again, it's cutting
23 off -- it's cutting off part of this here. But in
24 the Tennessee records from 1971, they mention that
25 there were incoming shipments by rail, and this is

1 in 1969, of a few different shipments, one has
2 884,000 pounds, Union Carbide. Did you learn that
3 Union Carbide was involved in the Oak Ridge
4 operation?

5 A. I learned that they were a -- a
6 contractor on the site.

7 Q. And they mentioned one million
8 pounds in June of '69 was a shipment from Union
9 Carbide. Do you see that?

10 A. Yes, sir, I see that.

11 Q. Did you also look into -- it -- it
12 has below that, not highlighted, Babcock and Wilcox,
13 Stearns and Rogers. Do you know if Babcock and
14 Wilcox was in Lynchburg, Virginia?

15 A. I'm familiar with that company
16 because they make boilers. I'm not sure where their
17 operations are.

18 Q. Okay. In -- in looking into this
19 information, you're not surprised by the fact that
20 there were thousands of tons of metals shipped into
21 Witherspoon, 901 Maryville Park; are you?

22 A. I'm -- I'm not surprised, no, sir.

23 Q. Okay. I want to turn your
24 attention, now -- I'm -- I'm done with that first
25 document. I might refer to this again.

1 coveralls and that they be taken off when our
2 employees exited the site and disposed of.

3 Q. Well, one of the reasons he
4 recommended that was because that was an EPA
5 requirement at the time in 1991, wasn't it, once you
6 find this type of contamination in the soil?

7 A. Well, it -- it -- it's not an EPA
8 requirement, per se, as I understand it. But when
9 -- when a site goes under a Superfund action, that
10 they have to write a site safety plan and then
11 everybody that enters that site has to follow that
12 particular plan. And -- and each plan could be dif
13 -- different, depending on what the contamination
14 is, whether it's liquid contamination, soil. But it
15 would be a site specific safety plan required under
16 that EPA regulation for Superfund sites.

17 Q. And this is the first time we
18 really hit this point, but that Witherspoon property
19 became an official Superfund cleanup site by about
20 1991, didn't it?

21 MS. YOUNG: Your Honor, I object
22 for the reasons previously stated.

23 THE COURT: All right.

24 A. Sometime in that time frame. I'm
25 not real clear on the exact date.

1 Q. And one of the reasons it became a
2 Superfund site, among others, was radioactive
3 contamination on the property?

4 A. Well, there were -- there were
5 different sites that had different sources of
6 contamination, and I'm not sure if -- if the spur
7 was brought under that Superfund umbrella because it
8 had the barrels of waste soil or contaminated soil
9 from another Witherspoon site located there or if it
10 was something on that, as you mentioned, the Candora
11 triangle area, itself.

12 Q. Well, the Candora triangle, so the
13 jury understands, that's the area where the railroad
14 tracks came in the corner of the scrapyard; right?

15 A. Yes, sir.

16 Q. And you're -- you're just not
17 positive who owns that triangle?

18 A. I -- I thought Witherspoon owned
19 it.

20 Q. Well, in any case, let me move you
21 forward from here. Okay?

22 A. Okay.

23 Q. I want to show you -- actually
24 you've already pointed it out. We put aside Exhibit
25 51, right there. Is that it, or have I got the

1 wrong number? I'm sorry.

2 A. 40.

3 Q. 40. You can take a look at that.

4 That's a DOE memo I want to ask you about. Okay?

5 Now, this DOE memo in December of 1991, we obtained
6 either from the State of Tennessee records or from a
7 Freedom of Information Act. And they said, the DOE,
8 that, "Three sites at Oak Ridge began collecting
9 scrap metal in the early 50's and continue even to
10 the present having radioactive contamination. The
11 metal was accumulated at a common accumulation area
12 now known as the White Wing Yard." That's in the
13 first couple of paragraphs of the memo; correct?

14 A. Correct. But -- but let me step
15 back.

16 Q. Yes, sir.

17 A. It says started collecting in the
18 50's and through the 60's, and I think you said even
19 through today.

20 Q. Okay. I'm sorry. But, anyway,
21 that's at the White Wing Yard, that's not at
22 Witherspoon yet. They're just talking about the
23 background; right?

24 A. Yes, sir.

25 Q. Okay. So then in No. 4 here, it

1 says, "Beginning in the '63 time frame, the
2 contractor Witherspoon and AEC initiated a series of
3 contracts and contract extensions for prospective
4 companies to come into the site," that's the Oak
5 Ridge site, "and take ownership of the scrap metal."
6 That was outlined there; right?

7 A. Yes, sir.

8 Q. "In '63 or thereabout a
9 solicitation was issued and awarded to Witherspoon.
10 It's numbered 717, then modified to 719, then
11 modified to 749."

12 A. Right.

13 Q. And it says, "Supplemented --
14 Supplement No. 7 added scrap metal from a portion of
15 the White Wing Yard and some additional scrap from a
16 different scrapyard. The scrap metal was advertised
17 as potentially contaminated with plutonium.

18 MS. YOUNG: Your Honor, I have an
19 objection on the grounds previously stated.

20 THE COURT: All right.

21 Q. (BY MR. SHAPIRO) The agent was
22 responsible for monitoring and allowing release of
23 the scrap falling within the range of permissible
24 contamination levels." Is that what that said?

25 A. Yes, sir.

1 Q. Are you familiar at all with the
2 physical agent or the substance known as plutonium?

3 A. Yes, I know it's a naturally
4 occurring min -- mineral.

5 Q. And have you been familiar with
6 there's at least one book calling it the world's
7 most dangerous element?

8 A. No, sir, I'm not familiar with that
9 book.

10 Q. Okay. It says also in the memo
11 that, "The contract 749 was extended on several
12 occasions through September of 1970 and then
13 Witherspoon received a contract from us including a
14 sale in June 1972, numbered 2100." Do you see that?

15 A. Yes, sir.

16 Q. So, there were sales up until at
17 least '72 it indicates here; right?

18 A. Yes, sir.

19 Q. Okay. I've got to figure a way to
20 do this. Okay. The total amount of advertised
21 contaminated metal received by Witherspoon between
22 '63 and '72 was in excess of 4,000 gross tons;
23 correct?

24 A. Yes.

25 Q. And it said that they -- they

1 attached a memo that said the purchaser, and I'm
2 assuming this would be any purchaser of their scrap,
3 including Witherspoon, should emphatically be made
4 aware of the fact that the material he is
5 contracting to handle does contain a plutonium
6 potential and we cannot guarantee a specific level
7 below which all the material will read. Is that
8 true?

9 MS. YOUNG: Same objection as
10 previously made.

11 THE COURT: All right.

12 A. Is that on this same letter or an
13 attached letter?

14 Q. (BY MR. SHAPIRO) I think it's on an
15 attachment dated 1969.

16 A. (Perusing documents.)

17 Q. I'm sorry, I might not have had
18 that attachment. We -- okay. It was produced but
19 -- okay, sorry.

20 I want to ask you some questions,
21 here. Well, I jumped the gun. I've got to show you
22 something else. Hold on one second.

23 I want to ask you about a few other
24 reports here. Okay. And I showed you these
25 earlier. And can you look at Exhibits 14 and 15?

1 It's Section 2.3.

2 A. I'm there.

3 Q. It -- it outlines a bunch of the
4 buildings that were on the site, the main building,
5 then it says the metal office building, the magnet
6 house, various other places on the property; right?

7 A. Correct.

8 Q. Now, the magnet house, we can
9 agree, is this open structure that had the crane on
10 it that basically, you know, would get the metal and
11 scrap out of train cars; right?

12 A. That's correct.

13 Q. And it says here, "The magnet house
14 had operations that would separate ferrous and
15 nonferrous metals," right, under magnet house?

16 A. That's correct, it does say that.

17 Q. And there was a baling house;
18 right? If you look at the next page, Page 9.
19 Baling house, obviously, was to bale some group of
20 metal; correct?

21 A. Correct.

22 Q. Does it say here the baling house
23 was radiologically contaminated?

24 A. Yes, it does.

25 Q. Go down the page a little bit more

1 -- I'm sorry, excuse me. Go to the next -- the next
2 actual page, Page 13. As of the time this report
3 was done, which was 2007, they outlined that the
4 project will cost \$15.3 million; correct?

5 A. Yes, sir, it does.

6 Q. Take a look at No. 15, please, the
7 next report that I wanted to -- the SAIC report.

8 A. Okay.

9 Q. It's right there on the top. Okay.
10 Now, this was called a human health risk assessment
11 for David Witherspoon, 901 site, dated January 2007?

12 A. That's correct.

13 Q. And obviously as of January 2007,
14 there was still a cleanup operation going on at
15 David Witherspoon at 901; right?

16 A. Well, I can't tell that from the
17 title of this document.

18 Q. Okay. Well, let's -- let's flip to
19 the executive summary. Okay? Just take a look at
20 the executive summary and tell me if it's pretty
21 clear that some remediation was still ongoing as of
22 the time this report was done.

23 A. (Perusing documents.)

24 Q. Does it refer to any dates, there?

25 A. No, not that I see.

1 I asked you about some of the industrial hygiene
2 principles of a control program earlier, you told me
3 that monitoring was one of the principles of
4 industrial hygiene; correct?

5 A. That's correct, yes.

6 Q. My question is, prior to 1985,
7 based on your study of the records and study to
8 present yourself today, did you find whether CSX or
9 Seaboard, its earlier railroad, or any of the
10 earlier railroads that Mr. Payne was working for did
11 any monitoring of train cars that may have been
12 calling in or out of Witherspoon?

13 A. Again, I think the -- the -- the
14 answer to the question is we didn't, but at the same
15 time we didn't think there was a concern. We had no
16 evidence based on information we were provided from
17 the shipper that we needed to be looking into
18 radiation exposure of our workers.

19 Q. Prior to 1985, you know, Mr. Payne
20 was working for 20 some years by that time, CSX was
21 aware that Mr. Witherspoon was a licensed
22 radioactive scrapyard, wasn't it?

23 A. Yes, we were aware of that.

24 Q. Did CSX prior to 1985 ever do any
25 monitoring, like once a car was brought into

1 Q. Well, in the third paragraph it
2 says, "Glove bag and wet removal procedures were
3 implemented"; right?

4 A. Yes, sir, glove bag.

5 Q. That's sort of protect -- that's --
6 that's over the material, itself. But it says, "The
7 area was isolated from all unauthorized personnel by
8 erecting a perimeter of red asbestos barrier tape 25
9 feet around each locomotive." Do you see that on
10 the second paragraph of the executive summary?

11 A. Uh-huh. That is correct. All of
12 these activities were mandated by changing the OSHA
13 asbestos standard in the mid 90's where they
14 implemented different class activities and controls
15 based on the class of a type activity irregardless
16 of airborne concentration. So the glove bag work is
17 small removal of thermal system insulation or
18 gaskets require a glove bag and it requires you to
19 rope the area off.

20 Q. These were -- again, these were SD
21 and GP engines, right, manufactured by GE or EMD?

22 A. Yes, sir.

23 Q. And CSX, as of the early 90's owned
24 -- owned SD engines, didn't they?

25 A. Yes, we did.

1 Q. I don't know about the exact
2 classes, but you definitely had a bunch of them. I
3 mean, SD is a common class of diesel locomotive,
4 isn't it?

5 A. Yes, sir, that's correct.

6 Q. And GP is a fairly common class of
7 engine that was made by EMD; right?

8 A. Correct.

9 Q. Anyway, this particular outfit
10 checked those two engines. And if you look on Page
11 5, they talk about moving -- removing asbestos from
12 the SD9. And they -- they said that they found 19
13 linear feet of TSI. What does TSI stand forward?

14 A. Thermal system insulation.

15 Q. Okay. On the radiator compartment
16 they found two linear feet in a different radiator
17 compartment, they found ten linear feet under the
18 cab or in the cab heater lines. And it says, "This
19 included all debris located on the six-foot by
20 ten-foot metal floor"; right?

21 A. Yes.

22 Q. Is that the metal floor inside the
23 engine?

24 A. It's in that heater compartment.

25 Q. Okay.

1 A. Or the compartment, I call it a
2 hydraulic compartment underneath the locomotive cab
3 itself.

4 Q. Okay. And they removed 13 linear
5 feet inside the panels under the locomotive walkway;
6 right?

7 A. Yes, sir.

8 Q. An estimated 26 linear feet inside
9 the panel's -- I guess a different area of the
10 locomotive walkway; right?

11 A. That's correct.

12 Q. And then on the other GP engine,
13 they removed 30 linear feet in the radiator
14 compartment; right?

15 A. Correct.

16 Q. Ten linear feet in the cab heater
17 pipes?

18 A. Right.

19 Q. And 60 linear feet located under
20 the catwalk on the fuel and old heater pipes; right?

21 A. Yes. CSX did a very similar study
22 to this in the same time frame.

23 Q. Uh-huh.

24 A. And the -- the mechanical
25 department, based on the results of that study,

1 wanted to train our inhouse machinists or -- or a
2 group of machinists to do the work and then let --
3 pretty much after Mr. Badders commissioned all that
4 training, they -- they made the decision they were
5 going to use third-party outside contractors. So
6 our people never did end up exercising our own
7 inhouse abatement activities. And we went to doing
8 similar control work at -- at about two of our yards
9 following these OSHA protocols.

10 (END OF VOLUME VI)

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1 Q. Is plutonium a naturally occurring
2 radioisotope that would normally be found in the
3 ground?

4 A. No, sir.

5 Q. Why not?

6 A. Plutonium is made through the
7 process of a nuclear reaction, and that's the only
8 way you can obtain plutonium with the exception --
9 it can also be made in an accelerator, but it is not
10 found naturally, through natural causes.

11 Q. Is plutonium a highly dangerous
12 radioisotope?

13 A. When taken in the body, yes, sir.

14 Q. Is inhalation one of the known
15 health hazards that plutonium can cause?

16 A. Yes, among others. It's the
17 primary hazard from plutonium, actually.

18 Q. As a health physicist do we know
19 exactly how much plutonium needs to be inhaled
20 before a person can have injury or death or develop
21 cancer?

22 A. As far as I know, there's been no
23 safe level for plutonium intake.

24 Q. What about enriched uranium, is
25 enriched uranium a dangerous radioisotope?

1 A. In sufficient quantities, yes.

2 Q. Is inhalation one of the health
3 hazards that's known to health physicists?

4 A. Yes.

5 Q. Is it known whether enriched
6 uranium is a cancer causing agent?

7 A. Yes, it is.

8 Q. Are there basic attributes of a
9 radiation protection program that you as a
10 professional working with other companies that deal
11 with nuclear things would feel are the basics of
12 such a program?

13 A. I think I listed several in my
14 report. But without referring to that I would say
15 one of the underlying basics of a radiation
16 protection program is training. You have to train
17 your personnel on what the hazards are, how to avoid
18 them, and how to work with these materials.

19 There's also protective clothing or
20 other protective devices like respirators or
21 protective clothing that you would dawn.

22 A critical piece of radiation
23 protection is monitoring, because you don't know
24 what the hazard is unless you do adequate
25 monitoring, and that would include both the external

1 through the 70's, the 1980's, and this period from
2 like '91 or '90, '91 through 2007.

3 Now, in '90 or '91 was there
4 something that took place at the Witherspoon
5 Scrapyard that was significant as far as regulation?

6 A. Well, yes, it came part of the
7 Superfund.

8 Q. Okay. And did you review a number
9 of reports and documents in that time frame once it
10 was under scrutiny to become regulated?

11 A. From '91 forward.

12 Q. Tell the jury what if anything in
13 these records of surveys and inspections that you
14 found was relevant as far as whether there was
15 radiation contamination at that site?

16 A. There was actually three reports.
17 The key one was done by the SAIC company. It was
18 done in 2007, and this is long after the metal has
19 been taken out, there's been remediation of the soil
20 and everything else, but still they found detectable
21 levels of uranium and plutonium on the site. It was
22 a health hazard study, I believe.

23 In the late 90's there were two
24 reports --

25 Q. Slow down a second.

1 What did the SAIC report find as to
2 plutonium?

3 A. They found -- well, plutonium they
4 basically in the surface soil, they found they had
5 established what they called a level that above that
6 level it was a contaminant of concern, which means
7 they were going to analyze that for health impacts.
8 And there were several samples in soil -- and memory
9 fails, maybe even some of the groundwater that had
10 levels of plutonium above that contaminant of
11 concern threshold.

12 Q. You told us earlier, would that be
13 found naturally there?

14 A. No, absolutely not.

15 Q. What about enriched uranium, what
16 did the SAIC report in 2007 report find about
17 enriched uranium?

18 A. They found levels of uranium
19 isotopes which includes 238, 234, 235 all above what
20 you would call background levels.

21 Q. Now, when they detected those
22 levels in the soil or water, was this during the
23 cleanup or was this after the cleanup had started in
24 1991?

25 A. It's my understanding that it was

1 well after the cleanup.

2 Q. Is there anything as a health
3 physicist that you can derive from finding plutonium
4 in the soil on that ten acre site?

5 A. Well, it didn't -- as we've already
6 discussed, it didn't get there naturally so it had
7 to have been brought there.

8 The only people that I know of that
9 deal with plutonium on a regular basis is the DOE or
10 its predecessor, the AEC, so it had to have been
11 brought there from one of those sites.

12 Q. What about enriched uranium?

13 A. I would make the same statement
14 about enriched uranium.

15 Q. Okay. Was there anything else in
16 that time frame, in that cleanup time frame that you
17 want to tell the jury about?

18 A. Well, there were two other reports.
19 They were called remedial investigation feasibility
20 study reports where essentially they look at all the
21 data that's been taken and offer the feasibility of
22 remediating a site and look at different
23 alternatives.

24 The thing that I was particularly
25 interested in was their tables of analytical

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20 study reports where essentially they look at all the
21 data that's been taken and offer the feasibility of
22 remediating a site and look at different
23 alternatives.

24 The thing that I was particularly
25 interested in was their tables of analytical

1 results, and they also recorded detectable measures
2 of plutonium and uranium on the site.

3 Q. What years were those done?

4 A. There were two. There was one in
5 1996 and then another in 1999.

6 Q. Okay.

7 A. I think it was two different
8 subcontractors.

9 Q. All right. Does that cover that
10 time frame, that last time frame now?

11 A. Yeah, I think so.

12 Q. All right. What about -- what was
13 in the Tennessee regulator records from any time in
14 the 60's through the 1970's that you felt was
15 relevant to tell this jury about?

16 A. Well, again, the thing that
17 impressed me was the sheer mass of contaminated
18 metal that was shipped. I did a quick calculation
19 just from Oak Ridge. There was like nearly 3,000
20 gross tons of contaminated metal.

21 Q. Let me stop you. How did you know
22 it was contaminated?

23 A. Because it said at the top of the
24 page, contaminated metal. I mean, on the records
25 that I reviewed it was an inventory metal shipped

1 contamination?

2 A. Well, it's pretty self-explanatory.
3 Surface contamination is contamination that is fixed
4 to the surface of a piece of equipment, a piece of
5 metal, something like that. It can be rubbed off.
6 It's not integral to the metal -- it's not -- you
7 know, short story is that surface contamination can
8 be released into the air, it can be transferred to
9 your hands and then to your mouth if you don't have
10 the proper controls.

11 Q. Okay. Anything else in the -- what
12 about any specific Tennessee regulator tests out
13 there in the 60's or 70's, were there any that you
14 noted in your records?

15 A. Yes, there were several that I
16 noted.

17 There was an inspection -- the
18 Tennessee regulators got wind that there was some
19 stuff coming from a plant up in Lynchburg, Virginia,
20 so they went out. They found readings as high as 25
21 millirem per hour, which I don't know if you guys
22 have been educated on that, but basically
23 background -- background levels for exposure, for
24 gamma, the natural background is something like a
25 thousand times less than that, okay? So just to

1 went back to the SAIC report and I added up their
2 results and did --

3 Q. That's the report after the
4 cleanup?

5 A. That's the report after the
6 cleanup.

7 Q. Okay. I'm sorry, go ahead.

8 A. And basically added up the uranium
9 isotopes and divided it into the plutonium isotopes,
10 and the percentage of plutonium based on the SAIC
11 report was much higher. So it was about a hundred
12 times higher than what Dr. Dooley has used in his
13 assessment.

14 The other issue I had is Dr. Dooley
15 made an assumption that all the metal was released
16 at an acceptable contamination level for the day,
17 for free release to the public.

18 Q. What does that mean?

19 A. Well, I'm not really sure because
20 the reference that he used, where he got his number
21 from, I think we asked for that and we never got it
22 and I've never heard of I it. It's an old AEC
23 manual.

24 But at any rate, he said 25,000 D
25 rem for some area. That's what if it was below that

1 Q. Could they have put a car not at
2 the front of the train that had contaminated scrap
3 in it?

4 A. Yeah, or you know --

5 Q. Yeah. This 10 millirem or 10 rem,
6 I really don't know what it means, I'm not sure
7 anyone here does, but let me ask you this, one trace
8 of plutonium that came off one piece of scrap at the
9 Witherspoon site, was that enough to be a health
10 hazard?

11 A. It may be low but it could be
12 enough and I'm glad you brought that up. The 10 .
13 rem, I'll be short, the 10 rem essentially is a
14 level where we have clearly demonstrated health
15 effects. The below, the 5 rem piece is -- it
16 doesn't mean there's not a hazard or there's no
17 effects, it just means you can't tell them, we are
18 talking about cancer, you can't tell it from what
19 happens naturally. Doesn't mean it doesn't happen,
20 so, I mean, each of us sitting here have a
21 30 percent chance of getting cancer about and maybe
22 a 16 percent chance of dying of it if we never get
23 the first rem of radiation so when you get down into
24 those low levels, you just don't know. You just
25 don't know. So to answer your question, one atom I

1 think may be rare but one atom could cause cancer.

2 MR. SHAPIRO: That's all my
3 questions.

4 MR. JORDAN: Nothing further.
5 Thank you, Mr. Mantooth.

6 THE COURT: Thank you for being
7 here.

8 If we can try to start at 8:30
9 again in the morning.

10 One little brief comment to the
11 jury. When we were preparing to have this
12 case, I asked them how long it was going to
13 take and how long everybody would take. You
14 can go ahead, Mr. Mantooth.

15 And we are already a day and a half
16 behind schedule now.

17 I know we got Thanksgiving coming
18 up. You all be thinking about what your
19 wishes would be. I'm going to try to get a
20 more accurate estimate in the meantime
21 before tomorrow about what's left in this
22 case. But be thinking what you would like
23 to see happen as far as the time you spend
24 here in court. We got a lot of options,
25 just go on, skip days, we can come in the

1 A. Til 1999, yes.

2 Q. Let me talk to you about your
3 training and qualifications on asbestos removal
4 first before I get into say types of engines. First
5 of all what were some of the earlier railroads that
6 came together to form Conrail, just briefly?

7 A. It was the Old Penn Central. The
8 Leigh Valley was one. The other one was Leigh
9 something or another, I don't remember. There were
10 six various railroads that came together to form
11 Conrail.

12 Q. When you began work in 1976, were
13 there a variety of types of diesel engines that you
14 were called upon to repair?

15 A. Yes, sir.

16 Q. Okay, during this period of the
17 first 14-15 years, were you handling diesel repairs
18 day in and day out?

19 A. Yes, sir.

20 Q. Until 1990, had you had any type of
21 specific training at work about asbestos?

22 A. No, there was no specific training.

23 Q. Did you handle any asbestos
24 insulation prior to 1990?

25 A. Yes.

1 MR. SHAPIRO: And then skip to 22.

2 Q. Did Conrail decide to retain and
3 bring in an outside company to formally train
4 yourself and some other Conrail shop workers about
5 handling asbestos removal in 1990?

6 A. In 1990, yes. They brought in, as I
7 said earlier, they brought in Hartford Steam Boiler,
8 Corporation to train us.

9 Q. And where did the training took
10 place?

11 A. The training took place in the main
12 office building in the Juniata Complex that was a
13 two-day training course.

14 Q. Can you take a look at an exhibit
15 that we previously marked, let me get it. I want to
16 see if you can get out Exhibit 11, Exhibit 12, and I
17 think that is the first couple that I would like to
18 talk to you about.

19 A. Okay, I am not sure if the exhibit
20 number are on these papers.

21 Q. Way down. Right here. I have them
22 in order. There you go. That is 12, okay.

23 Do you want to open to those two
24 folders there? Okay, can you identify what is
25 Exhibit 11 is?

1 A. Exhibit 11 is a copy of the
2 Hartford Steam Boiler Training Manual that was given
3 to us when we trained in 1990.

4 Q. And just to go forward, what is
5 Exhibit 12?

6 A. Exhibit 12, OSHA Rules and
7 Regulations regarding Pennsylvania.

8 Q. Is that another training manual?

9 A. It is a training manual to
10 familiarize you as part of the training in 1990, to
11 familiarize you with OSHA Rules and Regulations and
12 also the Environmental Safety Department.

13 Q. What types of persons would
14 Hartford Steam Boiler came and trained you?

15 A. They were two gentlemen who were
16 professionals in their field.

17 Q. And what field was it that you were
18 training?

19 A. Asbestos, asbestos removal I should
20 say.

21 Q. Okay, can you take a look at the
22 table of contents there is a couple forms I want to
23 ask you about.

24 A. Sure.

25 THE COURT: Let's move on to where

1 we talk about the actual trains and things.

2 MR. SHAPIRO: Okay.

3 Q. (BY MR. SHAPIRO) Let me ask you
4 about other parts of the document.

5 MS. YOUNG: Location.

6 MR. SHAPIRO: 24, 14.

7 Q. One of those headings that we just
8 covered, was there a section about air movement?

9 A. Yes, there was sir.

10 Q. And I put a red mark here on some
11 of these parts. Did they train you about the
12 significance of air movement, for asbestos?

13 MR. SHAPIRO: 25, 3.

14 A. I don't have it marked, the page
15 number.

16 Q. Anyway, what were some of the
17 things you learned about air movement?

18 THE COURT: Let's go on to what we
19 talked about, what we talked about which is
20 trains and locomotives.

21 MR. SHAPIRO: All right, Your
22 Honor.

23 THE COURT: These things have
24 already been testified about.

25 MS. YOUNG: 36, 18 perhaps?

1 MR. SHAPIRO: 35, 2.

2 Q. At some point in the 1090's, did
3 you also apply for the state of Pennsylvania
4 Asbestos Certification?

5 A. That was the object of the second
6 training school in 1997. The school that we went to
7 over in Penn Hills, Pennsylvania was an associated
8 with the state of Pennsylvania.

9 Q. Okay. Let's mark that and put that
10 one down. And did you obtain the certification?

11 MR. SHAPIRO: 35, 25.

12 A. Yes, we did. We went to Penn Hills
13 and did a five day training course over there and
14 then have recertification course after that until
15 1999 to maintain a license in the state of
16 Pennsylvania.

17 Q. Can you look at Exhibit Number 20
18 please? This is just a blown-up copy of Exhibit
19 Number, what number is that?

20 MR. SHAPIRO: I'm in the middle of
21 36. Line 17.

22 A. Exhibit Number 20, yes, this is a
23 blown-up copy of it.

24 Q. Okay, now I want to turn your
25 attention to the types of engines and locomotives

1 MR. SHAPIRO: 35, 2.

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19 Number, what number is that?

20 MR. SHAPIRO: I'm in the middle of
21 36. Line 17.

22 A. Exhibit Number 20, yes, this is a
23 blown-up copy of it.

24 Q. Okay, now I want to turn your
25 attention to the types of engines and locomotives

1 that you did repair work on during your career,
2 okay. Let me ask you if you can look at the stack of
3 documents under Exhibit One. Let's see, there we go.
4 I got them right here in my hand. Take a look at all
5 those items under Number One and tell them what they
6 are please.

7 A. These are photographs of
8 locomotives, various classifications of locomotives
9 that were taken off the internet.

10 Q. Okay, now when you say pictures
11 were taken off the internet, did you take those off
12 the internet?

13 A. Yes, sir.

14 Q. Did I ask you if you could outline
15 the types of make and models of locomotive engines
16 that you have worked on during your career at
17 Conrail?

18 A. Yes, sir.

19 Q. And is this what you downloaded?

20 A. This is what I downloaded that
21 would pertain to asbestos, yes, sir.

22 Q. Okay, I want to go through them
23 kind of in a summary fashion because they are all
24 under Exhibit Number One. Let's just go through
25 each class. Is the first class that you marked,

1 there is a hand written on the top GP9, is that your
2 handwriting?

3 A. Yes, sir, you can see up there.

4 Q. And there is a picture of an
5 engine. Is this the class or make or model of
6 engine that you worked on during your career?

7 A. Yes, sir it is a GP9.

8 Q. Okay, let's go to the next one.
9 There is a bigger picture, is that a bigger picture
10 of a typical GP9?

11 A. Yeah, that is a bigger picture of a
12 GP9, yes.

13 Q. The next one is a GP38 title.

14 A. Yes, sir that is a GP38.

15 Q. Okay, what does the GP stand for in
16 railroad land?

17 A. GP stands for General Purpose.

18 Q. And which company is the
19 manufacturer of the GP38?

20 A. GMD which is General Motors.

21 Q. Is that General Motors Electric
22 Motor Division?

23 A. Electric Motor Division, yes.

24 Q. Okay, this is another picture of
25 typical GP38?

1 A. That is correct.

2 Q. Is that a rare or common engine
3 used by railroads?

4 A. No that was one of the most common
5 engine used locomotives we had in the 70's through
6 the 80's.

7 Q. Okay, any idea when the GP38 make
8 or model was first manufactured approximately or
9 available on Conrail?

10 A. GP38 were manufactured in the 60's,
11 when that manufactured date ended I couldn't tell
12 you. But they were manufactured dated ended I
13 couldn't tell you. But they were manufactured in the
14 60's. In fact, all these classes of locomotives were
15 manufactured sometime between the 60's and the early
16 80's.

17 Q. Okay, here it is kind of small
18 print. What class was that?

19 A. That is a SD40 photos.

20 Q. Okay, what does SD stand for?

21 A. SD stands for special duty.

22 Q. All right, is this a common
23 locomotive or a rare locomotive?

24 A. It is a common locomotive on the
25 Conrail system.

1 Q. Okay, was a SD40 used by other
2 railroads?

3 A. SD40's were used by other
4 railroads, yes sir.

5 Q. Were GP38's that we just covered
6 used by other railroads?

7 A. Yes, they were sir.

8 Q. We will go back to that. the next
9 one you have SW12 written in here. I see the top
10 says EMD 1200, SW 1200. What is this?

11 A. This is a shifter.

12 Q. Did you say a shifter?

13 A. A shifter.

14 Q. All right. Are they also called
15 switchers?

16 A. Switchers, yes.

17 Q. All right.

18 A. Forgive me for railroad slang.

19 Q. Okay, and was this a common class
20 of engine?

21 A. Yes, it was. They were commonly
22 used in the yards.

23 Q. Were there earlier version of
24 switchers with other numbers that were lower than
25 12?

1 A. Yes, yes there were. There were
2 W9's, 10's.

3 Q. All right. And here is another
4 class that you have marked, go ahead.

5 A. That's a SW15 and for the record
6 when you see 15 or you see a 9, or you see a 30 or a
7 38, you are talking about horsepower.

8 Q. All right. This next one you have a
9 little --- it's called GE U-boat?

10 A. That's what they became known as on
11 the railroad. They were U-boat savers, they were
12 built they are part of the early GE's built in the
13 late 50's early 60's.

14 Q. All right, now then did I send you
15 --- this is something that I did. I want to verify,
16 I sent you what is marked as Exhibit 3, a locomotive
17 manual for CSX, an excerpt?

18 A. That is correct.

19 Q. And did you look through the
20 summary list of all the types of engines that in the
21 early 90's, the railroad that CSX listed in their
22 locomotive manual?

23 A. Yes, sir.

24 Q. Mr. Rhodes, how many manufacturers
25 of engines were listed in the CSX locomotive manual

1 are there a lot?

2 A. No, there are two manufacturers of
3 locomotives. It's General Electric and EMD.

4 Q. Okay, so on the list; I see there
5 is a fleet of three thousand and some locomotives
6 here. Were nearly 100% of those locomotives, one of
7 the two manufacturers?

8 A. Yes.

9 Q. Okay, now without getting into fine
10 detail were GP38's a class of engine that was used
11 by CSX as of that date listing this manual?

12 A. Yes, as of this date on this
13 manual, there were 167.

14 Q. Were there SD40's which you also
15 said you handled repairs on?

16 A. Yes, they had 253 according to this
17 manual.

18 Q. And what about switchers, were
19 there switchers owned by CSX --- up on the right
20 side sir.

21 A. Just --

22 Q. Down to the bottom, I think.

23 A. Okay, yes they had switchers. They
24 had 30 SW1500 and it looks like one SW9.

25 MR. SHAPIRO: Skip to 42, Line 9.

1 Q. Okay, and did the listing include
2 GP38, SD40's, and many other types of engines?

3 A. Yes, sir. I see a GP38 here and a
4 let's see. Not having a line here, I am doing want
5 to mess up. I am not sure from looking at this angle
6 how many of them they had.

7 Q. Okay. This is a sketch that I drew
8 that is not a Michelangelo but basically I am trying
9 to do an overhead view of an imaginary locomotive
10 cab, a crew cab.

11 A. Okay.

12 Q. And I want you to assume, Mr.
13 Rhodes, that this is supposed to be a seat and this
14 is supposed to be a seat. But I mean, this is just a
15 crude idea there. If you are looking down at an
16 engine I want to ask you, you were in -- well, first
17 let me ask you this question. You were inside the
18 crew cabs many, many locomotives during your career?

19 A. Oh yes, that was part of our
20 duties.

21 Q. Within some estimated range, they
22 are not all exactly the same. What would be the
23 typical width of a crew cab in a locomotive engine?

24 A. You are looking at standard track
25 size as being 4 foot 10, so the locomotive extends

1 insulation?

2 A. On all the classifications of
3 locomotives. The asbestos was generally in the same
4 place on EMD's. You would find it on the radiator
5 heater pipes. You would it on the elbows and that
6 would come off of a loop hole, what we call a loop
7 holder that hooked the radiator heater pipes. You
8 would find it on the feed line and the discharge
9 line to an air compressor. You would normally find
10 it on the discharge air line to the air compressor.
11 You would find it on the pipes running from the
12 governor to the load regulator. And you would find
13 it on the cab heaters, cab heater lines that ran all
14 the way to the sump area of the locomotives up into
15 the cab area.

16 Q. Well, after 1990, what did you do
17 if you found asbestos insulation in any of these
18 piping areas?

19 A. After 1990, then we would send them
20 up to the freight shop and we would remove it.

21 Q. That would be in an enclosed
22 environment like you described earlier?

23 A. That would be in an enclosed
24 environment, yes sir.

25 Q. Now, you did some sketches did you

1 not, that you sent to me?

2 A. Yes, some hand sketches, yes.

3 Q. Let me see if I can find them.

4 Maybe you can first of all I shared these with
5 defense counsel before the deposition and I marked
6 these 2-A through I think G. Are all these your
7 handwriting?

8 A. Yes, they are. They are my
9 handwritings.

10 Q. Why did you do these?

11 A. I did these again when you talk
12 about loop holder and you talk about air compressors
13 and you talk about engines. I am quite familiar with
14 them, but I am sure you people in this room aren't.
15 Anyone who would be listening to this deposition
16 would not be familiar with them.

17 Q. Okay, let's talk about briefly 2-a,
18 you got --- it's a little small, I hope the
19 videographer can get in on this. Is one a top view
20 and one a side view or what are we looking at?

21 A. You would be looking down at the
22 top of the locomotive. This is supposedly a top
23 view and this would give you a side view.

24 Q. And so you --- just briefly can you
25 tell any areas that you just recited that you

1 removed asbestos from on a typical engine?

2 A. Yes, the radiator would have sat
3 above the air compressor compartment and over top of
4 this area of the locomotive. The line would have run
5 overtop of this area and hooked to each side of the
6 loop holder.

7 Q. And what kind of line, is that a
8 pipe?

9 A. That is a pipe, and I would say
10 that pipe is roughly three inches.

11 Q. Anything else on this diagram here
12 that you want to --

13 A. You have asbestos there, the air
14 compressor feed line would be on the top of the air
15 compressor. It rolled over and it come over like
16 this and around. It was like an S pipe. And it
17 hooked into what we had, I called it a temperature
18 gauge on the loop holder rack, right behind the loop
19 holder rack.

20 Q. Where is the crew in relation to
21 this drawling?

22 A. The crew would be in this area up
23 here.

24 Q. Okay. Well, that area that you are
25 pointing to are nowhere near them. What is the