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Page 1140 1 significance of that, if anything? 2 A. This --- these areas here are all friable. These materials that were used in these 3 4 particular areas, all between the engine and the 5 asbestos used over top of the loop holders and off 6 the air compressors was a wrap, asbestos wrap that 7 became friable. 8 0. But what does that have to do with the crew cab on the other side of the engine? 9 Go ahead sir. 10 11 A. Okay, what it has to do is when 12 these things become friable and these materials ---13 this --- you have to understand a locomotive 14 vibration when you have them running. These asbestos 15 fibers would be released and they would move 16 throughout this area and they are connecting to the 17 crew cab. 18 0. Well, let me see here. Here is another drawling, 2-b, this is another drawling that 19 20 you done, what if anything is being shown here of 21 any relevance? 22 Α. AS to --23 Q. As to asbestos? 24 This would be your cab area. And A. 25 these are your seats, three seats across. There

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Page 1141 would be a cab heater here, in front of the engineer 1 2 seat, this would be the engineer seat in front of the control stand. This would be brakemen or fireman 3 4 seat whichever you would choose to. These cab 5 heaters had asbestos that ran through the floor, the 6 piping ran through the floor and up to the cab 7 heater floor. 8 Okay. For those of us who are not 0. 9 on engines and are not familiar with them, what do 10 you mean, what does a cab heater do? A cab heater is --- it is the same 11 A. 12 as a furnace in your home, it is heating device to 13 supply heat for the crew in the cab. Did the typical cab heater have any 14 Q. 15 fan control? 16 A. Yes, it had a three speed fan. 17 Were the cab heaters on these 0. 18 classes of engines that you worked on, was it forced 19 air or radiant air? 20 They are forced air. A . 21 Did it have a dial so a crew member 0. 22 could turn the dial? Yes, there would be a dial on the 23 A. 24 left hand side of the cab heater itself. 25 Q. Okay. That is another little sort

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of a view of a cab heater?
A. Yes, this is a view of a cab
heater. Similar to what they would look like on
TP9's, 30's, 35's, had them.
Q. Okay, let me go here. Here is 2-c.
What are you drawling here?
A. This is an overhead view of what
the piping would look like running underneath the
cab floor of the locomotive if you can see through
the cab floor. This is the piping diagram of the cab
heater piping. There was a feed and return line to
both cab heaters, and this would be wrapped in
asbestos.
Q. How many feet long is those pipes,
I mean, this is obviously not in any particular
scale here. How many feet are we talking about?
A. You are talking over all length of
those pipes would be I would estimate somewhere
between 10-12 feet.
Q. Okay, well let me see. A 2-d, what
is this?
A. This is what I was talking about
earlier. These cabs heater lines, these are cab
heater lines going up to the floor. There was a
floor inside the heater itself, it looks like

1	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1143
1	radiator. If you wanted to know what a cab heater
2	floor is, it looks like the radiator in your car and
з	these are your pipes that come up through the floor
4	and connect there. These pipes would be wrapped in
5	asbestos there.
б	Q. Well, would you personally handle
7	removing asbestos insulation from those pipes?
8	A. Yes.
9	Q. Would you have to take some sort of
10	any type of cover off the cab heater to get in
11	there? How would you get access to the pipes?
12	A. This has a shield that fits like
13	this, it is molded to the front of the cab heater.
14	And you would remove that shield and then you break
15	these marmons loose and you can remove this core
16	from the inside of the cab heater.
17	Q. Okay, in the times you
18	personally did this type of repair?
19	A. (Indicates).
20	Q. You are nodding, can you say
21	verbally yes or no. Did you do this type of repair?
22	A. Oh, I am sorry, yes I did. Yes.
23	Q. Okay, when you would take the heat
24	I'm sorry, a heat shield or the metal cover off,
25	would you observe what was going on inside of there?

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1 A . Yes, you have what looks like to be 2 asbestos residue from again, this was friable 3 asbestos in these areas on older locomotives. And 4 what you would see is residue build up inside this 5 cab would be laying down here and you would see it in the front or the back of the cab heater shield 6 7 when you took it off. 8 0. You never worked as an engineer or a conductor on engines, did you? 9 10 A . No sir, I did not. You wouldn't normally be riding 11 0. 12 with them when they did their work, would you? 13 A. No, I would not. How do you know if there is 14 0. 15 vibrations inside engines? 16 We run locomotives in the test A. 17 shed. And they run at full throttle for eight hours 18 a day to be tested. 19 0. Were there any vibrations? 20 A . They definitely vibrate, yes. 21 Okay. Let me go to the next one Q. 22 here. Here is a diagram here, it is real small. What 23 is going in this --- what are you showing here, 2-e? 24 Let me look at this carefully. This A . 25 is -- it is, I am trying to see. I am trying to read

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Page 1145 1 the writing and I can't read it from this angle. 2 Is it your drawing? Q. 3 Α. Yes, it is my drawing. And it 4 looks like --- what it is, it's another diagram of 5 how cab heater piping is set up underneath the cab. 6 All right, 2-f, what is this? Q. 7 A . This is a --- if you were sitting down in a short nose of a locomotive and looking up 8 9 into the cab, this is a two step area that goes up into the cab. This would be the cab heater on the 10 back wall if you can see through this wall that 11 would have been here. And this would be the cab 12 heater on the engineer side. This is the toilet 13 14 area. And this area here on the 30 and 35 was open 15 to the air brake compartment there. 16 0. Did some engines have two cab 17 heaters and some have less or more? All the locomotives that I have 18 Α. ever worked on had two cab heaters. 19 20 And did those, were those the HVAC Q. or the heat system for the crew cab? 21 22 A. Yes. 23 To get the air blowing into the Q. crew cab, could one cab heater basically supply the 24 25 air for the entire crew cab?

1	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1146
1	A. In the northeast sector I would say
2	probably not.
3	Q. Anything additionally to add in
4	3-g, the last sketch you provided?
5	A. This would be a side view of what
6	a if you were looking from the side. Again, this
7	is the short nose area of the locomotive, this would
8	be the cab. There was a water cooler down on the
9	lower deck.
10	Q. Does the water cooler or toilet
11	have any asbestos insulating material?
12	A These areas had no asbestos
13	insulating material. The material would be
14	underneath this cab floor and going to your cab
15	heaters. The area here that you are looking at, is
16	always open. It is open to that air brake
17	compartment which is what we call that area
18	underneath the cab floor.
19	Q. What is significant about that,
20	sir?
21	A. That is significant because if you
22	have damaged asbestos underneath this cab floor.
23	The fibers can also move through the air floor in
24	this area and enter the cab.
25	Q. What is 2-h showing sir?

1		
	A. A 2	-h, I gave that to you and again
2	it is nothing more t	then to identify for those who do
3	not know what I am t	alking about. I say marmom
1	couplers or O-Dots,	they are just rough diagrams of
5	what we would be loo	oking at.
5	Q. Is	it a value?
7	A. The	0-dots is an actually a
3	thermostat.	
•	Q. Are	these parts contained inside
)	the cab heater?	
L	A. The	ese parts are contained in the
2	cab heater piping th	hat goes to the heater.
3	Q. Now	v did you also supply I believe
1	it was a total of 17	photographs?
5	A. Yes	s, sir.
5	Q. And	I are these photographs that you
7	took yourself?	
3	A. Yes	s, I did.
9	Q. Bef	fore I get ahead of myself here.
c	I want to move to in	stroduce all of those sketches,
L	2-a through, that yo	ou have just identified. We will
2	go organize them in	a minute.
3	Car	n you look through 21, 1 through
1	17, did you look the	rough them before the deposition?
-	a vor	

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ı	Q. Are those the pictures that you
2	just outlined that you took yourself, Mr. Rhodes,
з	except for one I believe which you are in the
4	picture?
5	A. Yes, these are pictures that I took
6	in 2002.
7	Q. Okay, I want to go through what if
8	anything that you want to describe about these
9	pictures, okay. And I have on the screen here,
10	Number One. What are we looking at here sir.
11	A. Picture 21-1 is a picture of the
12	air brake compartment underneath the cab floor.
13	Q. Is that helping to orientate where
14	some of the stuff is that you were talking about?
15	A. That is correct. When I say the
16	asbestos piping runs underneath this, this would be
17	the cab itself. This side of the locomotive would be
18	the brakeman side and the other side would be the
19	engineer side. This is the area directly below that
20	cab.
21	Q. And I am sorry, does the cab heater
22	pipe enter the floor of the engine in this area?
23	A. The cab heaters pipes on this
24	particular model have been have already been
25	taken out and abated. But they would come out up in

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1	this area and one of your cab heaters for your
2	brakeman side would be over here on a 38. The pipe
3	would run to here and then would cross over to the
4	engineer side and go up also into the engineer cab
5	heater.
6	MS. YOUNG: 61, 25.
7	THE WITNESS: Where?
8	MR. SHAPIRO: 61, 25.
9	Thank you. Actually we're going to
10	64, okay?
11	Q. And in 21-13, what is being shown,
12	is that another view of the same? .
13	A. That is another view of the same
14	type and as you can see it gives you a closer view
15	of the damage to the asbestos and the fraying areas
16	on it.
17	Q. We talked about a lot of classes of
18	engines, GP38's, EMD, SD40's, were engines used for
19	how long were engines in use generally that were
20	coming into your repair shop?
21	A. Railroads get as many miles as they
22	can from a locomotive as they could possibly get.
23	GP38's are still alive and well on the railroad.
24	GP40's, 45 excuse me, SD40's and SD45's are
25	still around.

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1	Q. Were those units being used in the	he
2	70's?	
3	A. Yes.	
4	Q. Were they being used in the 80's	?
5	A. Yes.	
6	Q. And in the 90's I take it you we	re
7	repairing some of them; right?	
8	A. They were used clear to the 90's	
9	Q. Okay.	
10	A. Some of the older models of 30's	
11	and 35's started retiring them out Conrail	
12	started retiring their 30's and 35's, roughly in	the
13	80's.	
14	MR. SHAPIRO: Line 23.	
15	Q. Was that another worker or was t	hat
16	you in that picture.	
17	A. That is me in that picture of	
18	21-17.	
19	Q. Okay. One second. Once you y	ou
20	talked about flex lines right now. But once you	
21	remove asbestos from the cab heater pipes that yo	u
22	just described. Was there a different type of	
23	insulation placed there or what was placed in	
24	replacement?	
25	A. If you kept the old cab heater	

WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 -Page 1151 1 lines, are you talking about keeping those lines or 2 removing asbestos and keeping the lines or doing 3 away with the lines all together? 4 Q. You tell us, we don't understand. I thought that you --5 In the 1980's, mid '80's Conrail 6 A . 7 began to change a lot of the older locomotives over 8 to electric heat. So what they would do would be to 9 removing all the old cab heater lines and also 10 associated piping from them. 11 0. And so electric heat, is that 12 radiate heat or? 13 Yes, it is radiate heat. A. Q. So is there any need to bring ---14 15 we didn't ask this. But the lines that you were 16 talking about, those cab heater pipe lines, were 17 they filled with air or filled with water? 18 They are filled with water. A . 19 And so you said something in one of 0. 20 the diagram --- you showed us your sketch in the 21 core. What is the purpose of the core? 22 A . The heater core is the water pipe 23 hooked to the heater core and feed water through 24 that core. So when the fan blows through the core, 25 and blowing heat into the cab.

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1152
1	Q. In the replacement type of heat,
2	the electric heat, is there any need to have a water
3	line?
4	A. No.
5	Q. I see, okay. In the normal process
6	of removing the cab heater, asbestos, was it normal
7	to just switch to electric heat or more normal to
8	get rid of the asbestos insulation or did it depend?
9	A. In when we were switching over
10	to the electric heat, you removed the piping and all
11	associated piping with the cab heaters.
12	Q. So Mr. Rhodes just before we went
13	off the record, we had marked Exhibits 2-a through
14	g, your sketches as exhibits. Now also have I shown
15	you a series of pictures marked 23-a, I believe
16	through d?
17	A. That is correct.
18	Q. Can you tell us what those pictures
19	appear to be?
20	A. These are pictures of locomotive
21	cabs.
22	Q. Are you familiar with what type of
23	locomotive engines are in the pictures because of
24	your pictures?
25	A. Classifications of these

WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 -Page 1153 1 locomotives? Yeah, in other words what type 2 0. 3 engines or what manufacturer? Oh, these are an EMD engine. This 4 A . is a General Motors product right here. 5 6 Q. Okay, you are talking about --7 23-a, I'm sorry. A . Okay, I guess the other ones as to 8 0. 9 what if anything is being shown in the pictures? 10 23-a is a picture of a locomotive A . 11 cab and it is meant to show you the cab heater in front of the engineer seat. 12 13 23-b would be the same thing. This 14 would be a cab heater in front of the engineer. 15 0. Okay. Why don't you --- people who 16 are watching the video tape, refer to --- I just popped them up on the screen. What does 23-a show 17 18 of any significance to this testimony? 19 A. 23-a shows you the cab heater and where it sits in front of the engineer. 20 And is that like a metal enclosure 21 Q. 22 there that we see? This is a metal shield enclosure, 23 A . but what you can't see on this picture is the grate 24 at the bottom where the heat would come out. 25

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Page 1154 1 Q. All right. 2 Ά. This is --3 23-b, what is being shown? Q. 4 A .. 23-b again the cab heater line, or 5 the cab heater itself in front of the engineer and 6 again this is a shield and the grate at the bottom. 7 Q. 23-0? 8 A . 23-c is a picture of GE engine and 9 it is just showing you again of the cab heater set 10 up in front of the engineer seat. 11 Q. 23-d? 12 Α. 23-d, again is a EMD locomotive and 13 again it is showing you how the cab heater would sit directly in front of the engineer. 14 15 0. Is there a control for a fan on that unit? 16 17 A . Yes, this one --- you can see the 18 grate and the control for that unit. 19 0. And on that particular engine we 20 are looking at one view, would there be another cab 21 heater as you said? 22 A. Yes, there would be another. Here is the water cooler over here, the cab heater would 23 24 be to the rear of that water, to the rear of the locomotive. 25

WINSTON PAYNE v. CSX TRANSPORTATION Page 1155 Transcript of Proceedings, November 2010 -I move to introduce 1 MR. SHAPIRO: 2 those. And let's got to 72, 2. We talked about all of those 3 0. 4 classes of engines in detailed earlier in your 5 deposition. I wanted to ask you this Mr. Rhodes, if someone says there were no friable asbestos on 6 7 diesel engines on those classes as they were built, would you agree with that? В 9 Α. No. 10 0. And why don't you agree with that? I don't agree with it because I 11 A. removed friable asbestos from all those classes of 12 13 locomotives. 14 If someone states that there was no 0. 15 way any airborne asbestos fibers ever got into any crew cabs where people worked inside those classes 16 of engines, would you agree with that sir? 17 18 A . No. 19 Q. And why would you disagree with 20 that? I would disagree to that because we 21 A . 22 were trained to understand that friable asbestos can 23 move through --- they will go where ever the air 24 take them. 25 Well, I want to know about your 0.

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ı	personal knowledge of going inside crew cabs and	
2	working there.	
3	A. My personal knowledge of going	
4	inside crew cabs and working on them and as I said	
5	earlier when you remove the shield off of the cab	
6	heaters themselves you can see the residue within	
7	the cab heaters and the friable asbestos. I have	1
8	removed many of them.	
9	Q. All right. Since you retired with	
10	Conrail, I am sorry Norfolk Southern, excuse me. Do	
11	you have any grip or qualm against management at th	8
12	railroad?	
13	A. No.	
14	Q. Okay. Please answer opposing	
15	counsel.	
16	THE WITNESS: Am I through?	
17	MS. YOUNG: Unfortunately no.	
18	CROSS-EXAMINATION	
19	BY MS. YOUNG:	
20	Q. Good morning, Mr. Rhodes.	
21	A. Where are you?	
22	MS. YOUNG: Let me start with Page	
23	74, Line 21.	
24	Q. (BY MS. YOUNG) You have worked you	r
25	entire career at Juanita as I understand it with a	

	INSTON PAYNE v. CSX TRANSPORTATION anscript of Proceedings, November 2010 - Page 1	615
1	Q. And that's in relation to the 50	
2	count per minute background?	
3	A. That's what I'm trying to say. I'm	
4	not sure that I can say that. The documentation I	
5	provide you here could be better.	
6	Q. Let's go to Page 4, the next page.	
7	A. Okay.	
8	Q. Did you say at the top of the page	
9	that his license had been expired since 1971?	
10	A. I didn't say that earlier. Earlier	
11	I told you out loud that I didn't remember, but here	
12	it says the expiration date was August 31st, 1971,	
13	so I'll trust that that's accurate.	
14	Q. Did you suggest that certain areas	
15	of the property be marked caution, radioactive	
16	material?	
17	A. Yes.	
18	Q. And did you speak with another	
19	another person, a professional who had done a recent	
20	survey at the request of Mr. Witherspoon that you	
21	were reciting in your affidavit?	
22	A. Yes, in C here I make a reference	
23	to a conversation with Jeff Chapman.	
24	Q. And you know he's a professional	
25	who does surveys, right?	

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ı	A. Jeff Chapman was hired by David
2	Witherspoon. I can't say that I knew him at the
3	time or even know him now. I remember speaking with
4	him. He was someone Mr. Witherspoon hired in this
5	project of decontamination.
6	Q. Did he tell you whether he had
7	compelling data about radiological findings on the
8	property?
9	A. I'm reading.
10	Yes, I've quoted I said here,
11	"There's some very compelling data which is
12	uncovered." This is what Mr. Chapman told me and
13	I'm just quoting him.
14	Q. Did he mention yellow cake
15	contamination?
16	A. He mentioned it in that he didn't
17	feel it was exclusively yellow cake, yes, but that
18	term was mentioned.
19	Q. Okay. Then did you also talk here
20	about whether the Candora triangle was one of the
21	radiological contamination areas at the 901
22	property?
23	A. Yes, in this memo here in D it
24	makes reference to our making it states that we
25	were discussing the Candora triangle and the

6

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1617
1	contamination wasn't limited there.
2	Q. What were the things that you
3	recited were your concerns about contamination at
4	the property there? What points did you feel were
5	significant?
6	A. Do you want me to read D?
7	Q. Yes.
8	A. Says when I originally became
9	involved in this situation it was the assumption
10	that the contamination was limited to the Candora
11	triangle of the 901 Superfund site including, for
12	example, including, for example, uranium turnings,
13	the contaminated metal and Rader dirt and the
14	residuals from A, B, C above.
15	Q. We're not going to read all this,
16	but you went on to say there were further surveys
17	done and you were talking about them in your
18	affidavit, right? Talking about TENERA and
19	A. Yes, and Jeff Chapman as well, yes.
20	Q. And in essence, did you say here
21	that Mr. Witherspoon had not complied with the
22	orders that your division had placed upon him to
23	clean up radioactivity? Bottom portion of the page.
24	A. No. 9? Down here?
25	Q. Yes, sir.

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Page 1618 Okay, it is my opinion --1 A. You don't have to read the whole 2 Q. thing, sir. I'm just asking in essence did you 3 4 state that Mr. Witherspoon had failed to comply with orders to clean up the site? 5 I stated that he had made only A . 6 7 minimal efforts to comply and has not complied with all the requirements, yes. 8 All right. And did you mention in 9 0. here that -- or is it a fact that when you -- that 10 as of the 80's up until this affidavit, there were 11 only two sites in Tennessee that had radioactive , 12 scrap licenses, one was Witherspoon and one was 13 DuPont, is that true? 14 15 Α. I couldn't say it in those terms because I didn't regulate the state of Tennessee. I 16 do now, as we stated in the beginning, yes, I have 17 been the manager for seven years or so. 18 However, at that time the only 19 20 thing I would know about is East Tennessee. I'm sorry, so East Tennessee it was 21 Q. 22 just Witherspoon and one other site? 23 Α. Correct. Contamination like this, 24 yes. We would move to introduce 544, 25 Q.

	WINSTON PAYNE v. CSX TRA Transcript of Proceedings, Nove	NSPORTATION mber 2010 -	Page 163
1	Q.	At the very bottom it says, "I	t
2	should be noted	that Bill Perry and I revisited	the
3	site" and it's i	kind of cut off.	
4		The next page.	
5	Α.	I can't read that last sentence	e but
6	I'm with you.		
7	Q.	Just go to the next page.	
8	A.	Okay.	
9	Q.	They took another tour of the	901
10	address before	this was written and what did th	ey
11	find? What doe	s the inspector say?	
12	A.	It says it was, "Even worse th	an
13	Mr. Cole had ind	licated."	
14	۵.	What is Mr. Cole, a foreman?	
15	Α.	Mr. Cole is the foreman that	
16	guided		
17	Q.	And what does the inspector sa	y is
18	even worse?		
19	А.	It says, "It's 'worse' because	
20	Mr. W told us th	nere is contaminated material at	the
21	northeast side of	of the property where the barrel	
22	turnings are loo	cated on his side of the railroa	đ
23	tracks from the	area where all the radioactive	
24	material already	y observed (noted on the attache	đ
25	drawing) is loca	ated. The material appears to b	e

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1	mixed with (most likely) 'clean' metal, scattered
2	throughout rather dense brush."
3	Q. Okay. And basically it goes on.
4	The inspector says, "I tried to inspect some of the
5	contaminated metal" but what happened?
6	A. "Contaminated metal, but ended up
7	realizing it would be a much larger job than we had
8	the time for for this day."
9	Q. That place is the Candora triangle,
10	right?
11	A. Yes, I believe there's a map
12	Q. Yes, there's a map on the back,
13	right.
14	A. Yes.
15	Q. Then there's a, looks like an
16	update I asked you about at the beginning. There's
17	an update here dated January '82 which looks to be a
18	followup here. Do you see that?
19	A. I do.
20	Q. First or second page.
21	A. Uh-huh.
22	This one is hard.
23	Q. It's all handwritten, right?
24	A. Yes, and it's not a good copy.
25	Q. Does the inspector say whether the

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1637
1	uranium turnings were still present as expected?
2	A. The turnings I'm getting this,
3	the turnings were still present as expected.
4	Q. But what else does it say?
5	A. "But there was considerably more
6	scrap metal in the section of the yard supposedly
7	segregated for contaminated scrap."
8	Q. What does it say about whether
9	Mr. Witherspoon has even gotten more metal at this
10	time?
11	A. "Witherspoon has either received
12	appreciably more contaminated scrap or has mixed
13	contaminated scrap with clean scrap. Another
14	possibility is the contaminated scrap has been moved
15	elsewhere, but I don't think this is likely. It was
16	also noted that the fence adjacent to the Southern
17	Railroad trails "
18	Q. Tracks?
19	A. "Tracks has washed down in one
20	section and now could be stopped over stepped
21	over easily. As these items demonstrate a change in
22	status, it was felt that it should perhaps be
23	reported." And that's Steve Brooks. He was my
24	supervisor when
25	Q. Okay. Let me go back to the first

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1	page of the inspection. You still have it right in
2	front of you, okay?
3	A. Okay.
4	Q. So let's see.
5	Some of the findings of the
6	inspector said he had unauthorized form of
7	radioactive material, right?
8	A. Correct.
9	Q. He violated something about
10	properly disposing of unauthorized material.
11	A. Correct. That's what it says is a
12	brief statement of the problem.
13	Q. Okay. Let's see, then one of them
14	is, "Radioactive material levels were over the
15	allowable levels for unrestricted areas." Was that
16	a compliance problem?
17	A. Yes, that is one of the violations
18	noted, No. 3.
19	Q. "No surveys whatsoever." Was that
20	also written as one of the problems?
21	A. Yes.
22	Q. "Lack of CRA posting." What does
23	that mean?
24	A. CRA stands for caution, radiation
25	area. It would be an identification when you reach

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1702
1	the railroad to start servicing that company?
2	A. Yes, sir, in late '90, early '91 is
3	when Mr. Witherspoon started requesting us to
4	provide him switching services.
5	Q. In 1988 and 1989, did the railroad
6	service Witherspoon?
7	A. No, sir, not when I was there.
8	Q. And you're saying early '90 or
9	sometime in '90, '91
10	A. Late '90, early '91, I think it
11	was.
12	Q. And tell the jury what happened.
13	A. Well, after they started requesting
14	service and at first I told him we weren't going to
15	go in there, I did some research to find out what
16	had been going on, Mr. Maynard had it and some
17	issues they had had so I informed Mr. Witherspoon
18	that we wouldn't provide him service because of the
19	past issues that he had inside his facility. And
20	Mr. Witherspoon then went on to say that he had all
21	that taken care of, it had all been fixed, whatever
22	his issues were, were no longer in existence and he
23	had had some state people come make some tests and
24	samples and such as that to show that it was okay.
25	So at that time I got ahold of our industrial

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1	hygienist department in Jacksonville and turned it
2	over to them to let them come do their own tests or
3	get an independent firm to do some testing.
4	Q. And did ultimately what
5	ultimately happened as a result of that, all of this
6	testing and stuff?
7	A. They we had an independent team
8	that did some testing and also Mr. Mark Badders, who
9	is our industrial hygienist, came down and did some
10	testing, some soil samples and such and it was
11	determined at that time that it was safe for people
12	to go in and service this facility at that one
13	location.
14	Q. And what happened then?
15	A. Well, still with talking to the
16	crews and such as that, they still felt
17	uncomfortable about going inside that area, that had
18	been determined safe to go in so I got with
19	Mr. Witherspoon and told him that kind of made a
20	deal with him that my guys still don't want to go in
21	there, they have concerns and I don't like any of my
22	employees out if they've got their mind on something
23	else, which they would in this situation, I'd rather
24	work some other arrangement out with him so we made
25	an arrangement where I could take the cars up over

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the Candora Road crossing right up to his fence, but 1 2 I wouldn't go inside the fence which is that area that they said was safe and then we would cut away. 3 4 He had a little car mover that he could bring outside and he would open the gate and come out and 5 6 get the cars and pull them in. 7 Same thing when they were ready to be released, he would push the cars back outside the 8 9 gate, take that little car mover inside the gate and 10 close the gate and then we would come up and get the cars and take them back to Knoxville. 11 12 Q. During that time period after that 13 began, after we began to bring them cars and take 14 cars out and those sort of things at the gate, was there ever occasion for any railroad person 15 16 including yourself to go into the Witherspoon 17 property? I actually went in but none of the 18 Α. 19 employees would go in. 20 Q. Why did you go in? 21 A. To meet with Mr. Witherspoon, I went in and met with him and went in with 22 23 Mr. Badders and then when they were making their 24 tests and also I remember one time he actually 25 derailed a car inside his facility and his little

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	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1892
ı	was at Witherspoon.
2	A. Correct. And that number is very
3	close to this one in terms of the scrap metal and
4	that one ended up being 90 millirem over 15 years,
5	so those two inhalation numbers are very similar but
6	small by comparison to the direct number that we
7	calculated for it.
8	Q. Okay. Now, have you given us all
9	of your calculations for the individual scenarios of
10	his exposure?
11	A. I think we are close. There's a
12	couple minor numbers that we are missing here.
13	One where Mr. Payne actually went
14	onto the Y-12 site and they had had a cesium
15	contamination incident along the rail tracks that
16	was written up, and that exposure was very low. We
17	first estimated 2 but then it ended up being 3
18	millirem we estimated, for the short of amount of
19	time that he happened to be on the Y-12 site at
20	those potentially contaminated tracks at Y-12. So
21	that's the Y-12 dose.
22	There might have been one other
23	dose that was like 1 millirem or something, very
24	minuscule but I don't I can't wrap my finger
25	around it right now without looking at the notes.

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1	assume any all c	f that, what would that do to	,
2	your dose calculati	ons?	
3	A. It	would put a big hole in it.	
4	Q. Th	ere has been some talk in thi	s
5	case about plutoniu	m.	
6	A. UI	-huh.	
7	Q., Do	you know what plutonium is?	
8	A. I	do.	
9	Q. Th	ere's been some suggestion th	at
10	there was some plut	conium out at the Witherspoon	
11	site.		
12	Ha	ave you looked at that issue f	or
13	us?		
14	A. I	am familiar with an SAIC repo	ort
15	done in 2001 where	they did collect some soil	
16	samples looking for	plutonium-238 and 239, yes.	
17	Q. WI	hat did you find out?	
18	A. I	found that the groundwater di	.d
19	come up with three	of five positive samples, but	: it
20	wasn't considered a	a contaminant of concern becau	ise
21	it didn't meet the	one in a million standard that	ıt
22	the EPA uses for ha	aving a contaminant of concern	1 be
23	a problem, and they	v took two soil samples for	
24	plutonium. They for	ound nine positives. And agai	.n,
25	they didn't conside	er it a contaminant of concern	1

2

	WINSTON PAY Transcript of Pro	NE v. CSX TRAN oceedings, Noven	SPORTATION nber 2010 -	Page 1906
1		Q.	I'm not asking about inside the	9
2	body, I	'm asking	you if there's a piece of plute	nium
3	right t	here, sir	, can wind blow that plutonium?	
4		A .	It could, yes.	
5		Q.	Okay. Thank you.	
6		Α.	If it was in sufficient form to	o do
7	50.			
8		Q.	And the other type of plutoniu	n,
9	that is	239, has	a half-life of how long?	
10		Α.	Tens of thousands of years. I	m
11	not sur	e exactly		
12		Q.	24,200 sound about right?	
13		Α.	Yes, that sounds about right.	
14		Q.	Okay. And you told me in your	
15	deposit	ion that	airborne plutonium can travel fo	or
16	miles.	Correct?		
17		Α.	In the right form it could, yes	5.
18		Q.	Okay. Now, I want to go back	to
19	that pl	utonium t	hat you just told this jury was	
20	found i	n those s	amples at the Witherspoon site.	
21		Α.	Okay.	
22		Q.	And you mentioned the SAIC rep	ort,
23	didn't	you?		
24		Α.	Yes.	
25		Q.	Now, did you also know that tw	D

3.1

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1971
1	Don't see it on here, Counsel.
2	Q. (BY MR. SHAPIRO) Do you know if
3	you've billed the railroad yet for your time and
4	services?
5	A. I do not know whether they have
6	been billed.
7	Q. And I think you have just been
8	retained on this case in the last 60 days, 90 days.
9	Right?
10	A. I believe the initial phone call
11	came in late July. That's a guess but I believe it
12	was late July. It was certainly earlier than mid
13	August when we did the walk over the railroad tracks
14	and so, you know, a contract and retainer was in
15	place by that time but I believe it was early July
16	that the initial inquiry was made.
17	Q. Do you know what your retainer
18	requirements were?
19	A. I believe it was \$2,000.
20	Q. Okay. And you said you are not
21	sure how much you are billing per hour?
22	A. No, sir, I do not know that.
23	Q. But certainly, it's an hourly rate?
24	A. Yes, indeed it is an hourly rate.
25	Q. I first wanted to ask you,

-14L

-	Transcript of Proceedings, November 2010 - Page 1972
1	Dr. Kocher, about this report that Ms. Young asked
2	you about.
3	This is the one you wrote about
4	cesium contamination along the railroad tracks in
5	Oak Ridge dated December 1990. Right?
6	A. That's correct.
7	Q. And as you said, you're not usually
8	the person that goes out and takes the measurements
9	but you're the person that works on writing the
10	report. Correct?
11	A. Somebody gives me the recipe and I
12	cook the stew.
13	Q. And I looked through here and would
14	you agree that it looks like the tests were done in
15	about 1986?
16	A. It appears my recollection is
17	that there were at least two surveys done out there,
18	one a little more thorough than the other once they
19	saw they had a problem, but, yes, it would have been
20	in the late 1980's when this was done.
21	Q. Okay. And you had to also look
22	into how cesium got down into railroad ballast rock
23	as part of emission, if you will. Right?
24	A. No, actually I didn't. Because the
25	assessment is just based on the survey data. It was

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1973
1	not part of this assessment to be concerned about
2	how it got there and just exactly where it is.
з	It's the survey data tell you what the radiation
4	environment is.
5	Q. You're the principal author of the
6	report. Right?
7	A. I'm the sole author of the report.
8	Q. Okay. Can you turn to Page 1?
9	Third paragraph from the bottom.
10	A. Okay.
11	Q. You said the source of the cesium
12	contamination along the railroad tracks is somewhat
13	uncertain. Is that what you said?
14	A. Yes. There didn't at the time I
15	did not have a clear documentation trail about this.
16	There was what I would call anecdotal evidence about
17	what it was.
18	Q. And you said that the waste, that
19	waste was routinely shipped to Oak Ridge by train
20	and the particular source of the contamination has
21	been tentatively identified as leaking concrete
22	casks containing mostly cesium-bearing animal
23	carcasses.
24	A. That's correct. That's the belief
25	as to how this came about.

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1975
1	are the radioactive principles and characteristics
2	of cesium?
3	A. Well, cesium is a cesium-137 is
4	a radioactive isotope, it's produced in copious
5	amounts in nuclear reactors, it has many beneficial
6	uses. Cesium-137 has a half-life of about 30 years
7	which means that every 30 years the amount of
8	activity is reduced by a factor of 2 by emissions of
9	radiation, the principle of radiation that cesium
10	emits is a fairly high energy gamma ray so this is a
11	penetrating radiation, it can go through paper no
12	problem. Can travel long distances. So it's a
13	radionuclide that, you know, it demands respect.
14	Q. What are the health hazards
15	associated with inhalation of cesium or cesium on
16	your skin?
17	A. The health hazards from inhalation
18	of cesium on your skin or inhaled are basically no
19	different from exposure to any other radioactive
20	material.
21	An exposure to cesium will deliver
22	some dose and the importance of that dose depends
23	entirely on how big the dose is. If the dose is
24	very small, the impact is trivial; if the dose is
25	very, very large, it can kill you.

	VINSTON PAYNE V. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 1973
1	early '60s or late '60's?
2	A. It would have been no later than
3	1968 or so because other burial grounds started
4	opening about 1969 and Oak Ridge was no longer used.
5	Q. Did you investigate anything about
6	the level of shipments of concrete casks holding
7	animal carcasses?
8	A. No. The only thing that mattered
9	for me was how much cesium contamination was on the
10	tracks and what the radiation levels were.
11	Q. But you concluded that cesium
12	radioisotopes penetrated right through concrete
13	casks and ended up being detectable in the ballast
14	rock, what, two decades later?
15	A. Well, it wasn't going anywhere.
16	Cesium is fairly immobile in the environment so it
17	stayed around and it could be detected 20 years
18	later. At very low levels.
19	Q. And this section after the
20	surveying was all done, there were sections of
21	railroad track between the Y-12 spur and certain
22	areas that ran through the I guess the town of
23	Oak Ridge that were cleaned up, that is the track,
24	the ballast rock was taken up, the railroad track
25	was taken up and it was remediated. Right?

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	WINSTON PAYNE v. CSX TRAM Transcript of Proceedings, Nove	ISPORTATION mber 2010 - Page 2081	
1	Energy with Mart	in Marietta about this, right?	
2	А.	Yes.	
3	۵.	They told you that there was an	
4	area seven feet	by seven feet that had slightly	
5	elevated activit	y readings for contamination of	
6	radioactive substances, right?		
7	A.	Well, it was specific for cesium.	
8	۵.	Okay. Is cesium a radioactive	
9	substance?		
10	А.	Yes.	
11	Q.	And there was a cleanup that was	
12	scheduled, correct?		
13	А.	Yes.	
14	Q.	Who was doing the cleanup?	
15	Α.	That was being done by contractors	
16	for DOE.		
17	Q.	Okay. And in some of your other	
18	documents you ta	lked about your details of who you	
19	contacted and wh	at they found near the railroad	
20	property, right?		
21	А.	What they found in the plume.	
22	۵.	And you had a note here, it was on	
23	railroad propert	y but not on the tracks itself.	
24	Α.	Correct.	
25	۵.	So it was on the right-of-way	
	the second s		

WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 -Page 2082 beside the tracks? 1 2 Right, there was a 50-foot A . right-of-way is my understanding. 3 And did it come to your attention 4 Q. 5 after 1986 or 1987 that that Y-12 CSX spur was remediated or cleaned up at some point? 6 I know there was some work done in 7 A. that area where they cleaned up radioactive material 8 close to the track. 9 10 0. When you say "they," who cleaned up the materials? 11 Contractors for DOE. 12 A. 13 Q. Okay. And, in fact, at some point CSX closed up those entire tracks after the cleanup, 14 right? 15 16 A. I don't know that. You do know that there was a 17 Q. cleanup of the Y-12 Oak Ridge spur and that those 18 tracks are no longer used? 19 20 A. I knew that there was a cleanup, I 21 didn't know that they closed the tracks. 22 Well, you do know that the cleanup Q. involved cleanup of radioactive contamination, don't 23 24 you? 25 Α. Yes.

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 2043
1	they applied the brakes, he would be in that
2	immediate vicinity.
3	As far as a railcar, no. I
4	wouldn't expect him to be in the immediate vicinity
5	of a railcar being in a braking operation on line of
6	road, freight hauling runs. He wouldn't be anywhere
7	near it.
8	Q. As a bystander to a locomotive
9	which is having its brakes applied, would he have
10	any exposure to asbestos, in your opinion?
11	A. No. There were studies that were
12	performed by the Federal Railroad Administration ,
13	showing that the heat of combustion of brakes on
14	railroad equipment physically destroys the asbestos
15	fiber.
16	Q. So a bystander to a locomotive
17	brakes being applied, in your opinion, is that
18	person being exposed to asbestos?
19	A. No.
20	Q. Can you tell me, Mr. Badders, do
21	railroad brake shoes, do they contain asbestos?
22	A. They don't currently contain
23	asbestos. They have in the past.
24	Q. And was there a time when the
25	asbestos was taken out of the brake shoes?

WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 -Page 2044 1 A. Yes. 2 In the manufacturing process, I 0. 3 mean. 4 A. Yes. They started to get rid of 5 the asbestos from brake shoes on rail equipment in the late 70's, and it was completed by the early 6 80's. 7 I'm not sure if they were 8 9 manufacturing asbestos-containing brake shoes in the early 80's, but it's possible that we could have 10 received some brake shoes that still had it in it as 11 12 a result of shipments that were received during that time period. 13 MS. YOUNG: Moving to 19. 14 15 0. Mr. Badders, let me show you what's been marked as Defendant's Exhibit 22. There's 26 16 separate documents. 17 Can you take a look at these and 18 identify them for the record? 19 20 A. These are studies that -- these are diesel exhaust studies of train runs on CSX 21 22 Transportation. It also looks like the last two or 23 three documents were asbestos on exposure for train 24 crews. And I think we've already discussed these 25 with some previous exhibits.

1 but they're also using the assumption of you have to 2 have zero exposure to have zero risk. And I don't think that's in agreement within the scientific 3 4 community. 5 I think there is generally some -most of the scientists would agree there is some 6 7 level of asbestos you could be exposed to, but because of the individual variability from person to 8 9 person, and other conditions, no one can actually put a specific value on it, but asbestos is present 10 in your -- is present in the environment. 11 12 0. Let me ask you this: At some point 13 CSX began systematically removing asbestos from its 14 diesel locomotive engines, correct? That is, in a 15 batch basis removing asbestos from engines that were diesel engines? 16 17 A . We were removing it from engines when they were coming into a major shop for a major 18 19 renovation where the piping systems were going to be 20 disturbed, and since they were going to be disturbed at that point, we removed the asbestos from them. 21 22 0. I'm not asking you about the 23 individual running repairs. I'm asking you --24 A . That's not a running repair. 25 Q. Okay.

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	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 2108
1	A. That's a project.
2	Q. When did CSX begin systematically
3	bringing in groups of engines and having contractors
4	abate locomotive engines' asbestos?
5	A. We've never had a program
6	specifically where we were bringing in locomotives
7	just to abate asbestos.
8	If we had a major renovation of a
9	locomotive and if that involved the removal of the
10	lines, which may contain asbestos, then we would
11	have a contractor come in and remove those lines.
12	Q. But CSX did do that, you did hire
13	contractors to do that?
14	A. Oh, yes.
15	Q. When was the first time that you
16	hired contractors to do that? You were the
17	industrial hygienist from 1984.
18	A. The earliest time was on the
19	Chessie System at the Huntington locomotive shop.
20	But I don't have an exact date as to when that
21	occurred. It occurred before the merger.
22	Q. After 1980?
23	A. Well, I don't know if it occurred
24	in 1980 or not, it was before the merger in the mid
25	1980's.

1 Once the merger happened and you Q. 2 were with CSXT, when was the first systematic removal of asbestos from diesel engines? 3 The only time that it's being --4 Α. that it's still being removed from the engines is if 5 there is repair work that needs to be done on the 6 lines which may have asbestos heat shield on them, 7 and then -- then it's removed. 8 But there is no -- there has never 9 10 been any program specifically where we brought in an engine to remove asbestos, it was always associated 11 with something else. 12 13 0. Well, you are aware that there is -- there was asbestos in a number of gaskets, 14 pipe coverings on EMD and GE locomotives that were 15 16 diesel locomotives, correct? 17 A . Well, many of the high-temperature 18 gaskets on locomotives, both General Electric and EMD, had asbestos until probably the late 1980's. 19 20 Now, one of the heating lines, 0. heating pipes on diesel engines was insulated with 21 22 asbestos on most EMD and GE locomotives, correct? On the cab heater lines, 23 Α. 24 particularly on the EMD locomotives and asbestos 25 will maintain perhaps as a heat shield.

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	Transcript of Proceedings, November 2010 - Page 2110
1	Q. And what does the heater do for an
2	engine, it provides heat to the engine, right?
3	A. It provides heat to the cab.
4	Q. And that heat blows in, right?
5	A. Well, you have the pipe you have
6	the pipe going in and then you have the hot water
7	coming from the engine and then the air blows across
8	that pipe and which, at that point, it's not
9	insulated and it blows heat into the locomotive cab.
10	It's like a space heater.
11	MR. SHAPIRO: Lower on that same
12	, page.
13	Q. Okay. Now, you're unaware of any
14	Seaboard asbestos air sampling test inside either a
15	diesel locomotive or a caboose between 1932 and the
16	1960's?
17	A. No, I'm not aware of any.
18	Q. You're unaware of any information
19	to indicate that Seaboard Railroad or its
20	predecessors ever told employees in the 50's, 60's,
21	or 70's that asbestos dust was a potential
22	carcinogen?
23	A. I've not seen any documents where
24	that was where that was not told to employees.
25	Q. I want to quickly turn your

	WINSTON PAYNE v. CSX TRANS Transcript of Proceedings, Novem	SPORTATION Iber 2010 - Page 2318
1	published in the	literature since that time. That's
2	a very old study	, 1985.
3	۵.	Well, you were working at the same
4	time as Dr. Seli	koff did the study?
5	А.	Yes, and we criticized that rather
6	vigorously at the	e time.
7	Q.	And he was studying asbestos at
8	Mount Sinai.	물건 사람은 사람이 그의 것 같아? 영화
9	А.	Yes, shipyard workers, yes.
10	۵.	All types of asbestos can
11	contribute to lu	ng cancer, correct?
12	А.	If there is a sufficient exposure
13	to result in asb	estosis, to the best of my
14	knowledge, yes.	
15	Q.	You've testified before that in
16	theory one fiber	of asbestos alone can cause
17	mesothelioma?	
18	A.	Yes, in theory.
19	Q.	Of course, you saw a thyroid cancer
20	in Mr. Payne, di	dn't you?
21	Α.	Yes.
22	۵.	And that's caused by radiation,
23	isn't it?	
24	Α.	That's one of the contributing
25	causes, yes. It	's not the only cause. Most

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 2319
1	individuals we don't know what the cause was.
2	Q. I believe since you started doing
3	consulting work you've handled over 5,000 cases, is
4	that right?
5	A. Roughly that, yes.
6	Q. That's all I have, thank you.
7	MR. BAKER: I have nothing further
8	of this witness.
9	THE COURT: Thank you, Doctor. You
10	can be excused. We'll take a 15 minute
11	break and then come back.
12	(Jury dismissed from courtroom).
13	THE COURT: Something you want to
14	talk about right now, Mr. Baker?
15	MR. BAKER: Yes, Your Honor.
16	THE COURT: What is that?
17	MR. BAKER: Mr. Gilreath,
18	plaintiff's counsel, asked this witness
19	about thyroid cancer. This court has
20	excluded thyroid cancer as a cause through
21	the deposition testimony of Dr. Manning and
22	others.
23	As we all know, everyone concluded
24	that he could not have thyroid cancer, that
25	what they thought was a lesion turned out '

1	THE COURT: Before we get to the
2	next witness, in the cross examination of
3	the last witness, mention was made of the
4	term thyroid cancer. As you previously
5	heard, there's no claim in this case that
6	the plaintiff suffered from thyroid cancer
7	or that that caused him anything that is the
8	subject matter of this case.
9	So who is your next witness?
10	MR. BAKER: Your Honor, I propose
11	to read certain portions of the deposition
12	of Mr. Payne that was taken on October the
13	2nd, 2008.
14	May I proceed?
15	THE COURT: All right.
16	MR. BAKER: The plaintiff,
17	Mr. Payne gave a deposition on October 2nd,
18	2008.
19	THE COURT: This is a different
20	deposition than the one that was previously
21	presented to me.
22	MR. BAKER: And after being duly
23	sworn testified as follows, at Page 5,
24	Line 4 through 6.
25	(Whereupon, excerpts from the

1 The lawyers said something about I case. 2 was going to help you in your decision 3 making process. 4 Well, I'm not really here to help 5 you make a decision because in any case I do 6 not, cannot or would not assume, indicate or 7 suggest that any contested fact has or has 8 not been proved or any witness has or has not told the truth because you, again, the 9 jury are the sole, the only judges of the 10 11 evidence and the credibility of the witnesses and the weight of the value to be 12 given to their testimony. Again, what I am 13 14 trying to do is cover the possibilities that 15 can arise from this particular type of 16 situation. It's for you to say what happened 17 18 in the case and what should be done as a 19 result of what happened. 20 Now, we talked about a lot of 21 things today. Anything you want me to say more about? 22 23 (Bench conference) 24 MR. SHAPIRO: I think need to give 25 them a present value and the future --

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WINSTON PAYNE v. CSX	TRANSPORTATION
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	Transcript of Proceedings, November 2010 -	Page 2546
1	THE COURT: Okay.	
2	Okay. Just a couple minor things	
3	here.	
4	As I mentioned the first day, this	
5	is not a workers compensation case and we	
6	are more familiar with those types of cases	
7	because they are things that we deal with	
8	every day. So nothing in the law of workers	
9	compensation has any applicability to this.	
10	And when we figure damages in a	
11	case such, if we do figure damages, we have	
12	to reduce such damages for future loss or	
13	harm to what we call present cash value.	
14	So in determining any damages that	
15	would arise in the future, that is after	
16	today, you must determine the present cash	
17	value of those damages. So that means you	
18	must adjust the award of such damages that	
19	would occur after today to allow for the	
20	reasonable earning power of money and the	
21	impact of inflation upon on any award that	
22	you make.	
23	Now you're on your own.	
24	Take the case, select a	
25	spokesperson. When you are ready with your	

	Transcript of Proceedings, November 2010 -	Page 2547
1	verdict if you have a question about the	
2	law, notify Mr. Hines.	
3	Just remember as a jury you can	
4	have no prejudice, no sympathy, allow	
5	anything but the law and the evidence to	
6	have an influence upon your verdict. You	
7	must return that verdict with absolute	
8	fairness and impartiality according to the	
9	law and the evidence as you think justice	
10	and truth indicates.	
11	You're excused. Thank you very	
12	much.	
13	(Jury dismissed from courtroom at 4:37 p.m.)	
14	MR. BAKER: Make a statement for	
15	the record on the jury instruction.	1
16	For the record, Your Honor, we	
17	submitted to you various instructions that	
18	we asked that you instruct the jury on and	
19	continue to ask that you instruct the jury	
20	on as follows:	
21	Defendant's Special Request No. 20,	
22	Causation Instruction No. 1.	
23	Defendant's Special Request No. 21,	
24	Causation Instruction No. 2 dealing with	
25	proximate cause. That reads, "In order to	

Page 2548 1 establish that an injury was caused by the defendant's negligence the plaintiff must 2 3 show that the injury resulted in whole or in part from the defendant's negligence and, 4 secondly, that the defendant's negligence 5 6 was the proximate cause of the injury. 7 Defendant's Special Request No. 23, Causation Instruction No. 4. 8 Defendant's Special Request No. 24, 9 10 Causation Instruction No. 5. Defendant's Special Request No. 25, 11 Causation Instruction No. 6. 12 Defendant's Special Request No. 26, 13 Causation Instruction No. 7. 14 15 Then Defendant's Special Request 16 No. 2 dealing with consideration of evidence, the duty to follow instructions, 17 18 no bias against corporate parties. There 19 was not a word about that in this charge. THE COURT: Said they cannot have 20 21 prejudice against anybody. 22 MR. BAKER: Defendant's Special 23 Request No. 10, FELA standard of care 24 negligence defined. "I charge you that the 25 standard of care that the defendant owed the

1	plaintiff was that of a reasonable ordinary
2	and prudent railroad employer under the
3	circumstances as they existed at the time of
4	decedent's employment with the railroad.
5	Defendant CSX's Special Request No.
6	15, dealing with notice. That was not
7	instructed.
8	Defendant's Special Request No. 16,
9	dealing with foreseeability, charging the
10	plaintiff must prove the requirement of
11	"from reasonable foreseeability of harm".
12	That was not in the charge.
13	Defendant's Special Request No. 7,
14	medical and scientific evidence. We are not
15	presumed to know everything that's written
16	in the medical or scientific journals, we
17	are not held to the duty of an expert but of
18	a railroad.
19	We would ask the Court to make a
20	charge on contributory negligence,
21	specifically as it relates to cigarette
22	smoking, which would be Special Request No.
23	28.
24	And then Defendant's Special
25	Request No. 39, "The mere presence alone of

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WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 -Page 2550 a potentially harmful substance is 1 2 insufficient to find negligence." 3 And then -- we had one on cesium, Your Honor. 4 5 MS. THOMPSON: And exposure to Oak 6 Ridge. 7 MR. BAKER: That was No. -- off the 8 record. And finally, Special Request No. 9 40, cesium and alleged Oak Ridge exposures. 10 And for the record we would like to 11 12 make these a collective exhibit. 13 THE COURT: All right. (Exhibit 573 marked for 14 identification). 15 MR. BAKER: Finally, Your Honor, 16 this is our last objection, I believe. 17 Dealing with the request that we 18 19 ask the Court to charge on the issue of 20 Superfund, as that obviously became a bone of contention by motion at the beginning of 21 22 the trial and throughout the trial, and we objected again and again on that, and we had 23 asked the Court to do a curative instruction 24 25 on that issue to the jury.

	Transcript of Proceedings, November 2010 -	Page 2551
1	MR. SHAPIRO: We on the plaintiff's	
2	side object to the failure to give what I've	
3	marked as Instruction No. A about	
4	foreseeability.	
5	B, about the nature and types of	
6	damages that may be awarded under the FELA.	1
7	C, it's sort of an issues and a	
8	finding outline which was different than the	
9	Court did give the jury.	
10	D, is about the railroad's duty to	
11	guard against risks and dangers that it	
12	should have known about.	
13	E, is about the degree of care	
14	varying with the level of risk.	
15	F, is also about dangers or hazards	
16	and the duty of an employer to make	
17	provisions against foreseeable dangers.	
18	G, is an instruction relating to	
19	safe and suitable equipment and safety	
20	rules.	
21	H, is that the plaintiff had a	
22	right to assume that the railroad maintained	
23	safe locomotive engines.	
24	I, is that there could be more than	i.
25	one cause of injury	
		10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 -Page 2552 J, is that the assumption of risk 1 2 is no bar to recovery under the FELA. And K, is the particular negligence 3 4 claims made. And L, is about a different 5 6 description of non-delegable duty under the 7 FELA. (Exhibit 573 marked for 8 9 identification). MS. YOUNG: Your Honor, we do have 10 11 an objection to Plaintiff's Exhibit 8. It's 12 the CSX 2008 Annual Report. It was addressed or talked about in either Bullock 13 or Badders, but we object to this going back 14 15 to the jury. MR. SHAPIRO: It was an exhibit and 16 for some reason they raised their objection 17 later after it was in. 18 19 THE COURT: Exhibit 8 is not going back. 20 MR. SHAPIRO: Offering the 21 deposition of Mr. Bohm as part of the 22 23 record. The DVD has already been marked. 24 (Exhibit 574 marked). 25 (Off the record at 4:48)

WINSTON PAYNE v. CSX TRANSPORTATION	
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1	(Jury suspended deliberations at 5:30 p.m.)
2	(Whereupon, court was adjourned at 5:30 p.m.)
3	(Whereupon, court resumed at 9:00
4	a.m. on Novemeber 30, 2010)
5	(Jury resumed deliberations at 9:00 a.m.)
6	(On the record at 1:40 p.m.)
7	THE COURT: Okay. The jury asked
8	me a question since I read a lot of stuff
9	and some of it is hard to follow.
10	They wanted to know again what I
11	read to them about the laws and regulations
12	that would relate to the claims of the
13	plaintiff in this case, the laws and
14	regulations that the plaintiff claims were
15	violated in this case.
16	The Court's instruction is if you
17	do find that such a law or regulation was
18	violated, then you have to find whether that
19	could cause, in whole or in part, harm
20	suffered by the plaintiff in this case.
21	In that regard, I read portions of
22	certain laws and regulations and told you
23	that the what has been referred to as the
24	Locomotive Inspection Act makes it unlawful
25	for any railroad to use or permit to be used

1	on its line any locomotive unless the entire
2	locomotive and its appurtenances are in
3	proper condition and safe to operate in the
4	service to which they are put without
5	unnecessary peril to life or limb.
6	Another regulation states that
7	products of combustion shall be released
8	entirely outside of the cab and other
9	compartments. Exhaust stacks shall be of
10	sufficient height or other means provided to
11	prevent entry of products of combustion into
12	the cab or other compartments under usual
13	operating conditions.
14	Another regulation states that all
15	systems and components on a locomotive shall
16	be free of a condition that would endanger
17	the safety of the crew, the locomotive or
18	the train.
19	Another regulation says that it
20	related to railcars, and it says that each
21	transport vehicle used for transporting
22	radioactive materials have exclusive use as
23	defined by the law, must be surveyed with
24	appropriate radiation protection instruments

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25

after each use.

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Page 2555 1 A vehicle may not be returned to 2 service until the radiation dose rate at any 3 accessible service is .5 millirem per hour 4 or less, and there is no significant 5 removable radioactive surface contamination 6 as identified by the law. 7 A 1961 regulation stated that no 8 persons shall remain in a car containing 9 radioactive material unnecessarily, and the 10 shipper must furnish the carrier with such 11 information and equipment as is necessary 12 for the protection of the carrier's 13 employees. 14 A regulation which came into effect 15 in 1976 stated that a person may not remain 16 unnecessarily in a rail car containing 17 radioactive materials. 18 Another regulation stated that 19 radioactive material means any material or 20 combination of materials which spontaneously 21 emit ionizing radiation. Materials in which 22 the estimated specific activity is not 23 greater than .002 microcuries per gram of 24 material and in which the radioactivity is 25 essentially uniformly distributed are not

	WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 - Page 2556
1	considered to be radioactive materials.
2	So those were regulations and laws
3	that I read to you. It's for you, the jury,
4	to say if there was a violation of any of
5	these. If there was such a violation, did
6	that violation cause, in whole or in part,
7	harm to the plaintiff? Your spokesperson
8	said that's all you could think of right now
9	to ask me.
10	While we are in here, can you think
11	of anything else?
12	JURY FOREMAN: Your Honor, did you
13	go over the FELA?
14	THE COURT: What the FELA says
15	itself?
16	JURY FOREMAN: Yes.
17	THE COURT: Just a minute and I'll
18	tell you what it says about that.
19	The sections of the FELA that I
20	read to you stated, in its first section,
21	that every common carrier by the railroad
22	engaging in commerce between any of the
23	several states shall be liable in damages to
24	any person suffering injury while he is
25	employed by such carrier in such commerce

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1	for such injury resulting, in whole or in	
2	part, from the negligence of any of the	
3	officers, agents or employees of such	
4	carrier.	
5	Got that, or do you want me to go	
6	over it again?	
7	JURY FOREMAN: Go over it again.	
8	THE COURT: Okay. Then the other	
9	section that I read to you if I can find	
10	that.	
11	It stated that in all the actions	
12	brought against any railroad to recover	
13	damages for personal injuries to an	
14	employee, the fact that the employee may	
15	have been guilty of contributory negligence	
16	shall not bar a recovery, but the damages,	
17	and we are talking about the FELA Act, the	
18	damages shall be diminished by the jury in	
19	proportion to the amount of negligence	
20	attributable to the employee.	and Par
21	So those are the two sections that	
22	came directly from the FELA Act that I read	
23	to you.	
24	JURY FOREMAN: There's a request to	
25	read the first part of that again, please.	

1	THE COURT: The first part of the
2	FELA?
3	JURY FOREMAN: Yes.
4	The first section of the FELA says
5	that every common carrier by railroad
6	engaging in commerce between any of the
7	several states shall be liable in damages to
8	any person suffering injury while he is
9	employed by such carrier in such commerce
10	for such injury resulting, in whole or in
11	part, from the negligence of any of the
12	officers, agents or employees of such
13	carrier.
14	MR. SHAPIRO: Your Honor, may I
15	approach the bench one second?
16	THE COURT: There's no question in
17	this case that, in this particular
18	situation, this defendant and its
19	predecessors were engaged in interstate
20	commerce and the plaintiff was an employee
21	at the time.
22	So you have to determine, as we
23	suggested, was there negligence on the part
24	of the railroad and did that negligence, in
25	whole or in part, cause harm to the

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Page 2559 1 defendant. If the harm the defendant 2 suffered was due to some other cause not 3 related to the railroad, then the railroad 4 would not be liable. They want to make that 5 clear. I think it is clear. The question, again, for you as set 6 7 out in the verdict form is to determine, 8 first of all, was the railroad negligent. 9 Second, did the negligence on the part of 10 the railroad contribute, in whole or in 11 part, to harm suffered by the plaintiff. 12 Then we ask you about the specifics about 13 that. 14 If you found that there was an -if you find that either the railroad was not 15 negligent or the negligence did not 16 17 contribute, in whole or in part, to harm suffered by the plaintiff, then your verdict 18 19 would be for the defendant. 20 If you find that there was, then 21 you go ahead and answer the rest of the 22 questions. 23 Anything else while we are in here? 24 JURY FOREMAN: I have a request. 25 Would you repeat the section where you were

1	talking about ordinary and reasonable care?
2	THE COURT: Okay.
3	I told you that negligence in this
4	sense is the doing of some act which a
5	reasonably prudent and careful person would
6	not do or the failure to do something that a
7	reasonably prudent and careful person would
8	do when prompted by considerations which
9	ordinarily regulate the conduct of human
10	affairs.
11	Negligence is, in other words, the
12	failure too use ordinary and reasonable care
13	under the circumstances shown to have
14	existed at the time.
15	Ordinary care, again, is that care
16	which a reasonably prudent and careful
17	person would exercise in the management of
18	their own affairs in order to avoid injury
19	to themselves or their property or the
20	persons or property of other people.
21	Ordinary care is not an absolute
22	term, but as we are using it here in court,
23	ordinary care is a relative term. That is
24	to say in deciding whether ordinary care was
25	exercised in a given case, the conduct of

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1 the question must be viewed in light of all 2 of the surrounding circumstances as shown by the evidence in the case. 3 Because the amount of care 4 5 exercised by a reasonably prudent and 6 careful person varies in proportion to the 7 danger known to be involved in what is being 8 done, it follows that the amount of caution 9 required in the exercise of ordinary care 10 will vary with the nature of what is being done and all of the surrounding 11 circumstances shown by the proof to have 12 13 existed at the time in the particular case. 14 To put it another way, as any 15 danger that should reasonably be foreseen 16 increases, so the amount of care required by law would also increase. 17 18 I also told you that the mere fact 19 that a person suffered harm, injury or 20 death, standing alone without more 21 information, does not, in itself, permit an inference that harm, injury or death was 22 caused by anyone's negligence. 23 24 Anything else? 25 JURY FOREMAN: Did you have

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1	something in there about reasonable safety,
2	sir, and where it
з	THE COURT: Okay. It was the
4	continuing duty of the defendant as an
5	employer to use ordinary and reasonable care
6	under the circumstances then existing in
7	furnishing the plaintiff with a reasonably
8	safe place to work.
9	This continuing duty does not
10	depend upon whether the employee is working
11	on the employer's premises or on the
12	premises of others. The employer is
13	required to use ordinary and reasonable care
14	under the circumstances then existing to
15	maintain and keep places of work in a
16	reasonably safe condition for the employee.
17	This does not mean that the
18	employer is an absolute guarantor or insurer
19	of the safety of the place to work. The
20	extent of the employer's duty is to exercise
21	ordinary care under the circumstances then
22	existing to see that the place in which the
23	work is to be performed is reasonably safe
24	for the employee, again, under the
25	circumstances shown by the evidence to have

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1	existed at the time in the particular case.
2	Okay. So let us know if you have
3	more questions or how you are getting along.
4	(Jury dismissed from courtroom at 1:58 p.m.)
5	(Jury returned with verdict at 3:56 p.m.)
6	THE COURT: Okay. Mr. Alexander
7	has been chosen here. If you will refer to
8	the verdict, you can tell me briefly.
9	Question No. 1, was the defendant
LO	negligent as defined in these instructions?
11	JURY FOREMAN: Yes.
L2	THE COURT: Question No. 2, did
13	that negligence cause, in whole or in part,
14	the harm suffered by the plaintiff?
L5	JURY FOREMAN: Yes.
16	THE COURT: Question No. 3, was the
L7	defendant negligent with regard to asbestos
18	exposure?
19	JURY FOREMAN: Yes.
20	THE COURT: With regard to diesel
21	exposure?
22	JURY FOREMAN: Yes.
23	THE COURT: With regard to
24	radiation exposure?
25	JURY FOREMAN: Yes.

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1	THE COURT: Did the negligence of	
2	the defendant cause, in whole or in part,	
3	the harm suffered by plaintiff as a result	
4	of asbestos exposure?	
5	JURY FOREMAN: Yes.	
6	THE COURT: Diesel exposure?	
7	JURY FOREMAN: Yes.	
8	THE COURT: Radiation exposure?	
9	JURY FOREMAN: Yes.	
10	THE COURT: Did the defendant	
11	violate the Locomotive Inspection Act or any	
12	regulation concerning locomotives regarding	
13	asbestos, and was any such violation a legal	
14	cause of the plaintiff's harm?	
15	JURY FOREMAN: Yes.	
16	THE COURT: Did the defendant	
17	violate the Locomotive Inspection Act or any	
18	regulation concerning locomotives regarding	
19	diesel fumes, and was any such violation a	
20	legal cause of the plaintiff's harm?	
21	JURY FOREMAN: Yes.	
22	THE COURT: Did the defendant	
23	violation any regulation regarding the	
24	operations of railroad cars and	i
25	transportation of radioactive materials, and	

WINSTON PAYNE v. CSX TRANSPORTATION Transcript of Proceedings, November 2010 -Page 2565 1 was any such violation a legal cause of harm 2 suffered by the plaintiff? 3 JURY FOREMAN: Yes. THE COURT: Question 5, was the 4 5 plaintiff negligent with regard to the harm he suffered? 6 7 JURY FOREMAN: Yes. 8 THE COURT: Your answer was yes. To what extent, expressed in 9 10 percentages, did the plaintiff's negligence 11 cause, in whole or in part, the harm that he suffered? 12 13 JURY FOREMAN: 62 percent. 14 THE COURT: And finally, what 15 amount of money do you find, without 16 deduction for any the negligence, that would the fairly represent adequate compensation 17 in this case? 18 JURY FOREMAN: 8.6 million. 19 THE COURT: Okay. Now, let me 20 21 further inform you that by answering yes to 22 questions listed on this form in Part 4 23 about the Inspection Act or any regulations, 24 by answering yes to all of those questions, the concept of contributory negligence may 25

	Transcript of Proceedings, November 2010 -	Page 2566
l	not apply in this case. In that situation,	
2	the plaintiff would receive the entire	
3	amount of money that you have listed on the	
4	answers to the seventh question.	
5	If that is what you intend in this	
6	particular case, please indicate by raising	
7	your right hand?	
8	(Jury foreman raised hand).	
9	THE COURT: Okay. That is	
10	something that we hadn't talked about	
11	before, but under the authority of that case	
12	that was handed to you by Mr. Shapiro	
13	yesterday, we need to know if that is your	
14	intention.	
15	Again, by answering yes to the	
16	questions listed under Part 4 of the verdict	
17	form, the effect of yes answers there is	
18	that the recovery would be 100 percent of	
19	the amount listed on the response to	
20	Question 7.	
21	MR. SHAPIRO: Your Honor, can we	
22	approach the bench one moment, the	
23	attorneys?	
24	THE COURT: Yes.	
25	MR. SHAPIRO: Your Honor, under the	



CURRICULUM VITAE

NAME

CITIZENSHIP

MARITAL STATUS

OFFICE ADDRESS

HOME ADDRESS

TELEPHONE

EDUCATION

College

Medical School

Arthur L. Frank, MD, PhD

June 9, 1947; Sacramento, CA

DATE AND PLACE OF BIRTH

United States of America

Married: Joanne B. Frank Three children: Matthew and Rebecca 8/5/81 Aaron 3/8/89

Drexel University School of Public Health 245 N. 15th Street, Mail Stop 1034 Philadelphia, PA 19102-1192

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State University of New York at Buffalo Buffalo, NY 14214 1964-1968, BA, May 31, 1968 Major: Anthropology

Mount Sinai School of Medicine of the City of New York New York, NY 10029 1968-1972, MD, June 4, 1972

1234

002444

EDUCATION (continued)

Graduate School

The City University of New York Biomedical Sciences Doctoral Program Mount Sinai Medical Center New York, NY 10029 1971-1977, PhD, June 2, 1977 Thesis Title: Quantitation of Asbestos-Induced Hyperplasia in Hamster Trachea Epithelium Maintained in Organ Culture

INTERNSHIP AND RESIDENCY

Straight Medical Internship, Internal Medicine Residency, Mount Sinai Hospital, New York, NY, 1972-1973, 1975-1977 Occupational Medicine Residency, 1975-1977, Mount Sinai

MILITARY SERVICE

Commissioned Officer (Active), United States Public Health Service

Rank: SA Surgeon (03) 1973-1975

Lung Cancer Branch, DCCP, National Cancer Institute, National Institutes of Health, Bethesda, MD 20014

Member, Inactive Reserve, 1975-Present. Permanent Rank: Surgeon (04) Active Duty (variable), 1992-1994. Temporary Rank: Medical Director (06)

HONORS AND AWARDS

College - BA, Cum Laude, with High Honors in Anthropology, 1968 Medical School - National March of Dimes Award, 1971 Residency - Chairman's Award-Department of Medicine, Mount Sinai Hospital, 1977 Graduate School - Sigma Xi, 1977 Horowitz Memorial Award of the Mount Sinai School of Medicine, 1983. Educator of the Year Award, Association of Teachers of Preventive Medicine (First Annual Award), 1987 University of Kentucky Faculty Grant Award, 1988-91 (Awarded to top 20% of University-wide faculty) Honorable Order of Kentucky Colonels (3) Senior Associateship, National Academy of Science, 1990-91 (NIOSH) Honorary Ambassador of Labor, Labor Secretary, Commonwealth of Kentucky, 1992 BRASH 1994 Chaos and Strange Attractor Award Topperman Professorship-The University of Texas Health Center at Tyler 1994-2002 Arthur L. Frank, M.D., Keynote Lectureship, UTHCT 2002 Marcus Key Lecture, TOMA, 2003 American College of Preventive Medicine Distinguished Service Award, 2/2004 Sappington Lectureship, American College of Occupational and Environmental Medicine, 5/2005 Canadian Board of Occupational Medicine Lectureship, 06/2006

Hygeia Society-Drexel University School of Public Health, 2009

CERTIFICATION & LICENSURE

National Board of Medical Examiners, 1973 [Certification No. 123394, 7/2/73] Kentucky State License, MD, #22985 [9/29/83]

New York State License, MD, #116288 [7/2/73]

Maryland State License, MD, Certificate D16595 [5/17/74]

Diplomate, American Board of Internal Medicine [#58896, 9/13/78]

Diplomate, American Board of Preventive Medicine (Occupational Medicine) [#21574, 11/26/79]

1285

002445
EDUCATION (continued)

Texas State License [Distinguished Professor's License issued 12/28/94] (Converted on 3/2/96 to unrestricted Texas License J9855) Pennsylvania State License, MD, #418954 [3/20/02]

ACADEMIC APPOINTMENTS

Professor of Public Health, Department of Environmental and Occupational Health, Drexel University School of Public Health 2002 to Present (tenured)

Professor of Medicine, Drexel University School of Medicine (Secondary), 2002 to present

Sam Topperman Professor of Medical Education; Professor of Occupational and Environmental Medicine; Professor of Cell Biology and Environmental Sciences University of Texas Health Center at Tyler 1994-2002

Adjunct Professor

Department of Preventive Medicine and Community Health The University of Texas Medical Branch at Galveston 1995-present

<u>Clinical Professor</u> Department of Medicine The University of North Texas Health Science Center at Fort Worth 1997-Present

<u>Clinical Professor</u> Department of Occupational Medicine University of Texas Health Center at Tyler 3/2004 - Present

Adjunct Graduate Faculty Stephen F, Austin State University Nacogdoches, Texas 1997-2002

Adjunct Faculty US Air Force School of Aerospace Medicine Brooks AFB, TX 2001 - Present

Professor Department of Preventive-Medicine-and Environmental Health University of Kentucky College of Medicine 1983-1994

Member, Graduate Faculty Graduate School University of Kentucky 1987-1994

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ACADEMIC APPOINTMENTS (Continued)

Member, Graduate Center for Toxicology University of Kentucky 1988-1994

Associate Member Appalachian Center University of Kentucky 1989-1992

Instructor, Assistant Professor, Associate Professor Department of Community Medicine (Environmental Medicine) Mount Sinal School of Medicine 1977-78, 1978-82, 1982-83

Instructor Department of Medicine Mount Sinal School of Medicine 1978-1983

Member, Graduate Faculty City University of New York Biomedical Sciences Program 1980-1983

ADMINISTRATIVE APPOINTMENTS <u>Chairman</u> Department of Environmental and Occupational Health Drexel University School of Public Health 2002 - Present

Vice President for Medical Education (tile change as of 2/99) Associate Director for Medical Education (1994-1999) University of Texas Health Center at Tyler 1999-2002

Ethics Officer

University of Texas Health Center at Tyler, 1998-2002

Center Director

Southwest Center for Agricultural Health, Injury Prevention and Education. 1995-2001, Renewed 2001

Medical Director

Lake Country Area Health Education Center The University of Texas Medical Branch at Galveston 1995-2002

Chairman

Department of Preventive Medicine and Environmental Health University of Kentucky College of Medicine 1983-1994

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ADMINISTRATIVE APPOINTMENTS (Continued)

and Sectores in.

Director

Occupational Medicine Residency Program, 1984-1994 General Preventive Medicine Residency Program, 1984-1989 Department of Preventive Medicine and Environmental Health University of Kentucky College of Medicine

Principal Behavioral Research Aspects of Safety and Health Working Group (BRASH) 1984-1994

Director of Graduate Studies, Master of Science in Public Health Degree Program 1987-1994, University of Kentucky Graduate School

Deputy Director

Southeast Center for Agricultural Health and Injury Prevention 1992-1994

Scientific Administrator

Environmental Sciences Laboratory The Mount Sinal School of Medicine 1981-1983

Director

Residency Programs in Community Medicine, 1977-1981 The Mount Sinai School of Medicine

HOSPITAL APPOINTMENTS

Attending Staff and Chief of Service University Hospital, University of Kentucky Medical Center 1983-1994 Consultant Appointment, Veterans' Administration Hospital

Courtesy Staff Appointments

Lexington, Kentucky

Middlesboro ARH 1985-1994 Hazard ARH 1985-1994

Assistant Attending Mount Sinai Hospital New York, NY 10029 1982-83 Senior Clinical Assistant, 1978-1982 Clinical Assistant, 1977-1978

FELLOWSHIPS AND MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS American Association for the Advancement of Science, 1972-Elected to Fellowship, 1996 American College of Physicians, Fellow American College of Preventive Medicine, Fellow, Occupational Medicine Regent, 1997-1999, Chair, CME Committee, 1997-present, Board of Directors, American Journal of Preventive Medicine, 1999-2003, Secretary - Treasurer, 2000 - 2004 American Public Health Association American Thoracic Society Association of Teachers of Preventive Medicine; Secretary, 1981-84; Board of Directors, 1987-90, Education Committee, 1992-1994 FELLOWSHIPS AND MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS (Continued)

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Association of Teachers of Preventive Medicine Foundation, Inc.; Board of Directors, 1981-84

New York Academy of Sciences, Life Member

Society for Occupational and Environmental Health, Founding Member, Governing Council, 1992-1994, Vice-President 1998-2000

American College of Occupational and Environmental Medicine

Collegium Ramazzini, Executive Board 2002-2006

International Society for Preventive Oncology

Kentucky Occupational Safety and Health Network, Founding Member, Board of

Directors, 1986-94; Executive Board, 1991-94; Secretary, 1992-93;

President-Elect, 1993-94

National Occupational Safety and Health Education Association, Founding Member, 1989 Chair, 1990-91

Farm Safety for Just Kids

British Occupational Hygiene Society

Sigma Xi, Life Member

Texas Council on Agricultural Safety and Health, President 1999 – 2001 College of Physicians of Philadelphia 2002 -, elected to Fellowship, 2005

TEACHING ACTIVITIES

Course Coordinator, Occupational and Environmental Medicine, Georgetown University School of Medicine, 1975 . . . Division of Industrial Safety, District of Columbia Industrial Safety Board, Washington, DC 1974, 1976

Page and William Black Post-Graduate School of Medicine, Mount Sinai Medical Center, 1977-82 Continuing Education, Mount Sinai Hospital Department of Nursing, 1976-78 Hahnemann Medical School, 1978-82 Hahnemann Hospital, 1980 University of Pennsylvania School of Medicine, 1979 University of Medicine & Dentistry of New Jersey, 1979-1981 Senior Medical Consultants, 1979-83 Practicing Law Institute, 1980-85 State University of New York at Buffalo, 1980-81 State University of New York at Stony Brook, 1981-82 IBM/University of Kentucky EXCEL Program, 1985-89 University of Kentucky Annual Family Medicine Review (Continuing Medical Education), 1985-86, 1993 University of Kentucky Annual Physician Assistant Review, 1987 University of Kentucky College of Engineering, Continuing Education 1984-89, 1994 University of Louisville College of Medicine, 1986-87, 1991 Bay State Medical Center, Springfield, Massachusetts, 1988 Preceptor, William Osler Program, UK Medical Center, 1988-1994 American College of Preventive Medicine, Board Review Course, 1989, 1990 EPOCH Awardee, NIOSH, 1989-91 St. Elizabeth's Hospital, Edgewood, KY, 1991, 1992, 1993, 1994 University of Texas Health Center at Tyler, Tyler, TX, 1993 Beijing Medical University, Beijing, People's Republic of China, 1993, 1995 Methodist Hospital, Indianapolis, IN, 1993 American Occupational Health Conference, Chicago, IL, 1994 Forum Program, Donovan Scholars Program, University of Kentucky, 1994 Kentucky Thoracic Society, 1994 (L. E. Smith Lectureship) Southern Agromedicine Consortium, Keynote Luncheon Address, 1994 **TEACHING ACTIVITIES (Continued)**

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Kentucky School Board Insurance Trust, 1994 Qingdao Sanitation and Anti-Epidemic Station, 1995 School of Public Health, University of Texas, Houston, 1995 School of Public Health, University of Texas, San Antonio, 1997 Qingdao University School of Medicine, Qingdao, PRC, 1997 Ain Shams University Institute of Postgraduate Studies, Cairo, Egypt, 1998 UTMB, Course on Occupational Medicine, Galveston, 1999, 2000, 2001 Qingdao Centers for Disease Control and Prevention, Qingdao, PRC, 2000 UTMB, Department of Family Practice, Galveston, Texas, 2000, 2001,2002 UT Southwestern Public Health Program, Dallas, Texas 2000 UNTHSC, Fort Worth, Texas, 7/2001 Air Force School of Aerospace Medicine, Brooks AFB, TX 2/02, 2/03, 6/06 GI Conference, Drexel 2/03

Pulmonary Conference, Drexel 2/03, 5/03

CONSULTANCIES AND RELATED ACTIVITIES

Consultant, George Washington University School of Medicine, Science Communication Division, 1976-78

Consultant, Environmental Protection Agency; Ad Hoc Committee for the in-vitro study of fibrous amphiboles, 1977

Consultant, DHEW Committee to Coordinate Toxicology, Subcommittee on Asbestos, 1978

Consultant, State University of New York at Stony Brook, School of Medicine, Department of Community Medicine, 1980

Consultant, National Academy of Sciences Committee on Indoor Air Pollution, 1981

Invited Participant, Conference on Vision Effects of VDT Use, National Academy of Sciences, 1983 Ad Hoc Grant Reviewer, Health Resources Administration, Division of Medicine, Study Section on Environmental Medicine Curriculum Development Grants, 1979; Preventive Medicine Residencies, 1980, 1983, 1988, 1991

Site Visitor, National Institute for Occupational Safety and Health, 1983-91

Editorial Board, American Journal of Industrial Medicine, Environmental Research, Journal of Community Health, Toxicology and Industrial Health, Cancer Detection and Prevention, International Journal of Occupational Medicine and Toxicology, International Journal of Hygiene and Environmental Health, etc.

Article Reviewer, Journal of the National Cancer Institute, Journal of the American Medical Association, Journal of Environmental Pathology and Toxicology, Science, American Journal of Public Health, The American Statistician, Journal of Occupational and Environmental Medicine, Archives of Environmental Health, Southern Medical Journal, Law and Social Inquiry, Occupational and Environmental Medicine, American Journal of Preventive Medicine, Archives of Internal Medicine, etc.

Associate Editor, Environmental Health Section, Maxcy-Rosenau-Last Public Health and Preventive Medicine, 12th Edition, 13th Edition

Advisor, New York City Health Systems Agency Task Force on Environmental Health, 1979 Member, Environmental Health Committee, New York City Health Systems Agency, 1979-80

Member, New York Lung Association Committee on Occupational Hazards to the Lung, 1977-78 Consultant, University of Arizona College of Medicine, Department of Family and Community Medicine, Project on Incorporation of Preventive Medicine into Family Practice, 1985-86

Consultant, Occupational Cancer Project, Workers Occupational Health Clinic, Cincinnati, Ohio, 1985-87.

Member, NIOSH Study Section for Occupational Safety and Health, 1985-89;Chairman, 1988-89 Consultant, Labor Cabinet, Commonwealth of Kentucky, 1987-1994

Member, National Board of Medical Examiners, FLEX Examination Committee, 1985-91; NBME Pulmonary Medicine Subcommittee, 1989-91; USMLE Content Reviewer, 1994 CONSULTANCIES AND RELATED ACTIVITIES (Continued)

Consultant, Toyota Motor Manufacturing, USA, Inc., 1986-1994

-1988 Acting Medical Director

Member, Steering Committee, National Conference on Residencies in Occupational Medicine, 1988 Chair, Association of Occupational Medicine Residency Directors, 1988-1989

Grant Reviewer, Arizona Disease Control Research Commission, 1988-2003

Consultant, Ashland Oil, Ashland, Kentucky, 1988-1994

Member, Advisory Board Center for Applied Energy Research, University of Kentucky, 1990-1995 Member, Board of Directors, Occupational Physicians Scholarship Fund, 1988- present

Consultant, Urgent Treatment Center, Lexington, Kentucky, 1989-1994

Consultant, NIOSH Review of Document on Workplace Screening, 1990

Consultant, Natural Resource and Environmental Protection Cabinet, Commonwealth of Kentucky, 1990-1994

Consultant, Island Creek Corporation, 1990-1993

Member, NIOSH Board of Scientific Counselors, 1992-1996

Presenter, International Conference on Exposure to Carcinogens and Mutagens in the Industrial and Ambient Environment, "Issues of Asbestos Carcinogenicity". Jerusalem, Israel, January 30, 1992. <u>Member</u>, Environmental Board, Commonwealth of Kentucky (Appointed by the Governor), 1991-95 <u>Presenter</u>, Ohio AFL/CIO Worker's Compensation Institute, "The Role of the Primary Care Physician in Occupational Disease". Akron, Ohio, March 1992.

Presenter, (20th Anniversary Class Representative) Alumni Day Program, Mt. Sinal School of Medicine, "The Mt. Sinal-Kentucky Connection". New York, NY April 11, 1992.

Presenter, NIOSH Grand Rounds, ALOSH, Morgantown, WV, 1992.

Associate Editor, Mosby Year Book of Occupational and Environmental Medicine, 1992-94, Co-Editor-in-Chief, 1995-98

<u>Guest Editor</u>, Memorial Volume of Environmental Research honoring Dr. Irving J. Selikoff, 1992 Consultant, Qingdao Hygiene and Anti-Epidemic Station, Qingdao, Shandong Province, 1993-2003

Guest Professor, Beijing Medical University, Peoples Republic of China, 1993-1996 Presenter, From Rio to the Capitals: State Strategies for Sustainable Development, May 25-28, 1993, Louisville, KY

Presenter, State of Ohio Workers Compensation Program, 1993

Presenter, Kentucky Laborer's Union Asbestos Training Program, 1993

Presenter, Collegium Ramazzini Scientific Session, 1993, Session Co-Chair

Kentucky Nominee, Technical Oversight Committee, Southern Appalachian Mountain Initiative, 1993 Consultant, EPA Panel on the Use of Genetic Monitoring for Risk Assessment in Communities Exposed to Hazardous Waste, University of Texas Medical Branch at Galveston, 1994

Member, Residency Advisory Committee, U.S. Air Force Residency Program in Occupational Medicine, Brooks Air Force Base, San Antonio, TX, 1994-

Advisory Board Member, "Cosl-effective Medicine Reports", Mosby Publishing Co. 1994-1996 Presenter, Collegium Ramazzini Scientific Session, Carpi, Italy, October 29, 1994

Advisory Board Member, BRASH (Behavioral Research Aspects of Safety and Health) Working Group, University of Kentucky, 1994-

Presenter and Session Chair, SOEH Conference on Tuberculosis in the Workplace. December 1-2, 1994, Washington, DC

Presenter, Andrews Publications Seminar on Asbestos-Related Diseases, Houston, TX March, 1995 Presenter, Bar Ilan University, Israel, March 1995

Presenter, Hadassah Medical School, Israel, March 1995

Presenter, 1st International Congress of the Minia School of Medicine, Minia, Egypt April, 1995 Program Participant, Kentucky Governor's Safety and Health Conference, Louisville, KY

April, 1995 <u>Member</u>, Advisory Board, Southwest Center for Occupational and Environmental Health, Houston,

Texas, 1995-1998.

CONSULTANCIES AND RELATED ACTIVITIES (Continued)

Consultant, Texas Medical Association, Council on Medical Education, 1994-2002. Subcommittee on Accreditation, 1995-2001, Chair for 1997-2001, CME Committee, 1997-2001. Presenter, Occupational and Environmental Respiratory Disease Course, The University of Texas

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School of Public Health, Houston, TX 1995.

Presenter, Departmental Seminar, The Department of Preventive Medicine and Community Health, The University of Texas Medical Branch, Galveston, Texas 1996.

Presenter, Second International Conference of Environmental Mutagenesis in Human Populations at Risk, Prague, Czech Republic 1995.

Session Chair, Annual Meeting of the Society of Occupational and Environmental Health, Bethesda, MD. Dec-6-8, 1995.

Member, Advisory Board, Lake Country AHEC, 1995-2002. Board chair, 1996-1997.

Member, Advisory Board, NIEHS, Toxicology Center, UTMB, 1996-2002

Session Chair and Rapporteur, Third Annual NIOSH Agricultural Health and Safety Conference, Iowa City, Iowa, March, 1996.

Seminar Program Chair, AOHC, San Antonio, Texas, ACOEM 1995-96.

Alumni Day Centennial Program, Mount Sinai Medical Center, New York, NY. April 13, 1996.

Speaker and Session Co-chair, The 6th International Conference on "Preservation of our World in the Wake of Change", Jerusalem, Israel, June, 1996.

Speaker, VIII Inhaled Particles Meeting, Cambridge, England, August, 1996.

Presenter, Collegium Ramazzini Scientific Session, Carpi, Italy, October 27, 1996.

Member and Chair, Residency Advisory Committee, Occupational Medicine, University of Texas Medical Branch, Galveston, Texas 1997-

Member, University of Texas System Master Planning Organization and Task Force for Distance Learning and the Virtual University, 1997.

Member, Advisory Board, Texas A&M University Rural School of Public Health, College Station, Texas, 1997-2002

Presenter, TOMA meeting, Houston, Texas, March 14, 1997

Presenter, Environmental Information Association, New Orleans, Louisiana, March 25, 1997

Presenter, The University of Texas Medical Branch, Galveston, Texas, April 18, 1997

Member, University of Texas Telehealth Committee, 1997-2002

Presenter, ACOEM, AOHC Session, Orlando, Florida, May 12, 1997

Regent, Occupational Medicine, American College of Preventive Medicine, 1997-1999

Presenter, Qingdao Municipal Hospital, Department of Radiology, June, 1997

Presenter, Research in China, Directors Associates. Tyler, June, 1997

Presenter and Session Co-Chair, Collegium Ramazzini meeting, Carpi, Italy October, 1997 Presenter, Medical Education Grand Rounds, Mount Sinai School of Medicine, Nov., 1997, New

York, NY.

Member, Shared Student Information Systems Committee, U.T. System, Austin, Texas, 1997-98. Member, Shared Administrative Support Systems Committee, U.T. System, Austin, Texas, 1997-1998

Member, Texas Council for Agricultural Safety & Health 1997-Chair-elect, 1997-99.

Presenter, "Children in the Workplace", presented at the Annual Ain Shams University Institute of Child Studies Conference, Cairo, Egypt, March, 1998.

Presenter, Texas Academy of Mathematics and Science, University of North Texas, Denton, "Medical Sleuthing: Environmental Toxins", 4/13/98

Grand Rounds Presenter, Presbyterian Hospital of Dallas, Environmental Toxins, April 29, 1998 Member, International Scientific Advisory Committee Third International Conference on Environmental Mutagens in Human Populations, 1998

Member, Telehealth Steering Committee Working Group on Education/Community Networks/ Libraries, Telecommunications Infrastructure Fund Board, Austin, TX 1998-1999

Presenter, AHEC-SW, Texarkana, Arkansas Conference on Respiratory Therapy. "Occupational Lung Cancer" and "Occupational and Environmental Lung Disease Case Studies", Texarkana, Arkansas 8/28/98.

CONSULTANCIES AND RELATED ACTIVITIES (Continued)

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<u>Presentation</u>, First Annual TCASH Scientific Conference, Fort Worth, Texas, 10/16/98. <u>Presentation</u> on Childhood Agricultural Hazards at Collegium Ramazzini meeting, Carpi, Italy, 10/25/98.

Consultant, Medical Communities Project, Environmental Protection Agency, Washington, D.C.,

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1998-99.

Two presentations for the Third International Conference on Environmental Mutagens in Human Populations, November-December, 1998, Thailand.

Presenter, TAMS Senior Seminar, 2/1/99.

Presenter, East Texas Council on World Affairs, Tyler, Texas, 2/8/99.

Presenter, Prevention '99, ACPM Session on Preventive Medicine, 3/20/99.

Presenter, Texas Occupational Medicine Association meeting, Dallas, Texas, 5/7/99,

Panelist, East Texas Minority Health Network Conference, Tyler, Texas, 6/3/99,

Presenter, 7th International Conference of the Israel Ecology Society, Jerusalem, Israel, June, 1999. Presenter, UT Houston School of Public Health Course on Occupational Medicine for the Primary Care Practitioner, Houston, 9/25/99.

Invited Presenter, Committee on Work and Industry, Chamber of Deputies, Brasilia, Brazil, 9/29/99. Presenter and Session Chair, Collegium Ramazzini, Oct. 1999, Carpi, Italy.

Chair, International Scientific Advisory Committee of the Selikoff Center, Ra'anana, Israel, 1999-

Presenter, Texas Academy of Mathematics and Science, Denton, 1/31/00.

Presenter, Pediatrics Grand Rounds, UTHCT, Tyler, Texas, 2/17/00.

Consultant, Qingdao Centers for Disease Control and Prevention, Qingdao, PRC, 2000-Session Chair, NYCASH Meeting on Agricultural Safety and Health, Cooperstown, 2000.

Site Visitor, NIEHS, 2000.

Guest Consultant, Annual Review of Public Health, Palo Alto, 2000.

Award Recipient, Guest Speaker, ACCME, Chicago, 2000.

Presenter, TMA CME Conference, June, 2000.

Presenter and Conference Planning Committee: International Cancer Conference, Grand Rapids, MI. 9/2000.

Presenter: Pulmonary Program, UTHCT, 9/2000.

Presenter: Collegium Ramazzini, Carpi, Italy 10/2000.

Presenter, Session Chair and Conference Planning Committee: ISPO Conference Geneva, November, 2000.

Presenter and Session Chair. Indian Association of Occupational Health Conference, New Dehli, 2/01.

Presenter: Industrial Toxicology Research Center, Lucknow, India, 2/01.

Member, Editorial Board, Annual Review of Public Health, 2001 - 2005.

Presenter: Allen Cohen Memorial Lecture, Tyler, Texas, 4/5/01.

Presenter: UTHCT Grand Rounds, 4/6/01.

Presenter: Grand Rounds, Family Practice, UTMB, Galveston, Texas 7/11/01.

Presenter: UTHSC, Grand Rounds, Internal Medicine, Fort Worth, Texas 7/8/01.

Member: Physicians Panel Member, State Claims Assistance Program, Department of Energy, 10/01 -2004.

Medical Director: Amarillo Health Council, 2001 -

Co-Moderator, Institute of Water Quality, ACPM Meeting, San Antonio, TX, 2/02.

Presenter, East Texas Council on World Affairs, 3/02. Presenter: Scientific Program, Alumni Day (30th class year representative), Mount Sinai Medical Center, 4/6/02.

Presenter: TAMS Program UNT, Denton, Texas 4/8/02.

Presenter: University of Texas at Tyler School of Nursing, 4/15/02.

Presenter and Chair: New York Academy of Sciences, Mesothelioma Program, 4/25/02.

Presenter: Occupational Medicine Program, UTHCT, 6/02.

Presenter, UTMB, Occupational Medicine Residency Program, 7/02.

Session Chair, Collegium Ramazzini Meeting, Bologna, Italy, 10/02.

CONSULTANCIES AND RELATED ACTIVITIES (Continued)

Member, State Advisory Committee on Environmental Health Tracking, PA 11/02 -Member, Advisory Committee, Dept. of Env. Protection, Harrisburg, PA 2003-Drexel University SESEPS Seminar 12/02 Drexel University SPH Grand Rounds 12/02 Air Force School of Aerospace Medicine 02/03

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GI Conference, Drexel 02/03 Pulmonary Conference, Drexel 02/03, 05/03 Presenter: University of Pennsylvania Residency Program in Occupational Medicine, 03/03, 3/05, 4/06 George Washington University Seminar, 04/03 Marcus Key Lecturer, TOMA Meeting 04/03 Consultant, Waste Management Corporation 04/03-Presenter: ACPM Water Conference, Washington, DC, 06/03 Presenter: UTMB, Galveston, TX 07/03 Presenter: Fox Chase Cancer Center, 09/16/03 Presenter: APHA, 11/03, San Francisco Moderator: ACPM National Teleconference on Pediatric Environmental Health, 5/04 Member: Environ. Justice Advisory Comm., Dept. of Environ. Protection, Harrisburg, PA, 2004-2008, Chair - 2006 -Presenter: Harris Martin Conference, San Francisco - Manganese, 6/15/04 Presenter: UTHCT - Occupational Lung Disease 6/26/04 Presenter: UTMB - Occupational Cancers, Occupational Lung Disease, The History of Occupational Medicine 7/7/04, 7/5/06 Presenter: Graduate School of Public Health, Pittsburgh, Asthma Seminar 8/10/04 Presenter: Drexel SPH - Agriculture and Public Health, Faculty Seminar 8/13/04 Presenter: PCIEP Program 9/04 Session Chair and Discussant: Olin Seminar on Environ, Justice, Drexel University, 10/04 Presenter: Collegium Ramazzini Annual meeting, Carpi, Italy, 10/04 Presenter: UCLA MD/PhD Program, 11/04 Presenter: Qingdao Centers for Disease Control and Prevention, Qingdao, P.R. China Presenter: Asbestos Conference, Tokyo, Japan, 11/04 Presenter: Pulmonary Conference, Hahnemann Hospital, 1/05 Member. Institute of Medicine Committee, Gulf War and Health, 2005-2006 Presenter. Post Graduate Occ. Med. Programs, New Delhi, India 3-4/05, 5/06 Presenter: Department of Labor Conference, Washington, DC 4/05 Presenter: Sappington Lecture, ACOEM, Washington, DC, 05/05 Presenter: US School of Aerospace Medicine, San Antonio, TX, 05/05, 06/06 Presenter: Nahariya Hospital, Israel, Lecture on asbestos 05/05 Presenter: University of Paris France, 6/1/05 Lectures on occupational cancers and asbestos Presenter: AAMC Meeting on MD/MPH Programs, Chicago, IL, 6/27/05 Presenter: UTMB, Galveston TX, 7/5 and 7/6/05 (Grand Rounds, Residency Program) Session Chair: Collegium Ramazzini Conference, Living in a Chemical World, Bentivolgio, Italy 9/19/05 Presenter: Institute of Public Health, Iasi, Romania, Keynote Address 09/22/05, Address 9/23/05 Presenter: 14th Brazilian Congress of Toxicology, Recife, Brazil 10/10/05 Presenter: Beijing Forum (2005) Beijing, P.R.C. 11/19/05 ACGME Appeals Panel for Preventive Medicine, 2006 - 2012 Member: Presenter. EPA Public Hearing on Air Pollution Criteria, Representing ATS, 3/8/06 Presenter: UMDNJ, 03/06 Session Chair: Asbestos Program, ADAO, 4/1/06 Member: Delaware River Basin Commission, Toxics Advisory Committee 2006-2009. Presenter: Maulana Azad Médical College, New Delhi, 05/06 CONSULTANCIES AND RELATED ACTIVITIES (Continued) Presenter: Occupational and Environmental Medical Association of Canada, Toronto, CBOM Memorial Lecture 06/06 Presenter: Summer Public Health Institute, Iasi, Romania 7/06

Session Chair and Presenter: Asian Asbestos Conference, Bangkok, Thailand 7/06 Presenter: Business Exchange Breakfast, Philadelphia, 10/17/06 Session Chair and Presenter: Collegium Ramazzini Meeting, Capri, Italy 10/29/06

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Presenter: PCOEM, 11/06

Presenter: Asbestos Conference, New Delhi, India, 12/06 and Continuing Education Conference, New Delhi, 12/06

Presenter: State University of New York at Stony Brook, Occupational Lung Diseases, 12/06

Presenter: PCOM, Internal Medicine Group, 1/07

Participant: AAD Program, Drexel University School of Public Health, 3/31 – 4/1/07 Lecture: Physician Assistant Course, Drexel 04/07

Lecture: ACOEM Program, New Jersey, Asbestos, 5/1/07

Presenter. Environmental Mutagenesis Conference, Turkey, 05/22/07

Presenter. Drexel School of Public Health Program, Asbestos, 6/1/07

Presenter: Occupational Medicine Course, Maulana Azad Medical College, New Delhi, India, 06/07

Presenter: UTMB, Galveston, 7/07

Member and Chair: Ad hoc Committee to assess Liver Cancer in Bexar County Texas, San Antonio, 08/07-12/07.

Presenter: SUNY Stony Brook, 10/07

Presenter: Collegium Ramazzini Meeting, Princess Chulaborn Institute, Bangkok, Thailand, 12/07

Presenter. Integral University, Lucknow, India, 12/07

Presenter: Sanjay Ghandi Institute, Lucknow, India, 12/07

Presenter: Joint Labor-Management Safety and Health Meeting, Vishakhaptnam, India, 12/07

Presenter. Centre for Occupational and Environmental Health, Maulana Azad Medical College,

Delhi, India, 12/07

Presenter: Department of Medicine CME Program, Maulana Azad Medical College, Delhi, India, 12/07

Session Chair: 41st Annual Meeting of the Indian College of Allergy, Asthma and Applied Immunology, Delhi, India, 12/07

Presenter: ToxicLinks Meeting, Delhi, India, 12/07

Presenter. Philadelphia Zoning Code Commission, 01/08

Member and Chair: Advisory Committee, Mountain and Plains ERC, Denver, CO, 1/08 – Speaker: George Washington University School of Public Health, Washington, DC, 02/08

Lecturer: U.S. Air Force School of Aerospace Medicine, San Antonio, TX, 03/08 Grant Reviewer: NIOSH Agricultural Center Program, 3/08.

Session Chair: ADAO 4th Annual Conference, Detroit, MI, 3/08

Lecturer: Physician Assistants Program, Drexel University, 04/08

Lecturer: Maulana Azad Medical College, Delhi, India 05/08

Presenter: National Conference on Climate Change, Delhi, India 05/08

Presenter. 1st International Conference on Mesothelioma, Sao Paulo, Brazil 06/08 CONSULTANCIES AND RELATED ACTIVITIES (Continued)

Member: City of Philadelphia Air Pollution Control Board, 06/08-

Lecturer, UTMB, Galveston, TX 07/08

Lecturer: Qingdao Centers for Disease Control and Prevention, Qingdao, PRC 8/08

Member: Board of Scientific Counselors CDC Center for Environmental Health/ATSDR, 7/08 -6/12

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Member: Scientific Review Board, Peking Medical University 08/08 Presenter: ACPM Program on Indoor Air Pollution 08/08 Presenter: Inhaled Particles X Meeting, Sheffield, England 09/08 Presenter: FASLI Occupational Medicine Program, Mumbia, India 09/08 Presenter: ESIC Occupational Medicine Program, Mumbia, India 09/08 Invited Lecturer: University of Brescia, Italy 10/08 Lecturer: Drexel University College of Medicine, 11/08 Consultant and Speaker: Sri Lankan NIOSH, Colombo 03/09 Speaker: ESI Program, Chennai, India 03/09 Session Chair: ADAO Annual Scientific Meeting, Los Angeles 03/09 Speaker: Occupational Medicine Program, UMDNJ 03/09 Speaker: ESI Program Goa, India 05/09 Speaker: Occupational Medicine Program, Maulana Azad Medical College, Delhi, India 05/09 Participant: HarrisMartin Asbestos Program, Chicago, IL. 06/09 Speaker: University of Occupational and Environmental Health, Kitakyushu City, Japan 08/09 Speaker: Hangzhou Preventive Medicine Program, Hangzhou, PRC 08/09 Speaker: Qingdao CDC, PRC 08/09 Consultant: Qingdao Centers for Disease Control and Prevention, Qingdao, PRC 2009 Uniformed Services University of the Health Sciences, Bethesda, Maryland Speaker: 11/09 Organizer. Session Chair. Speaker: Collegium Ramazzini/Drexel/MAMC Meeting, New Delhi, India 12/09 Speaker: Clinical Case Conference, MAMC, New Delhi, India 12/09 Speaker: MAMC Center for Liver and Biliary Disease, New Delhi, India 12/09 Session Chair/Discussant: Round Table Conference on Issues Related to Asbestos Use in India, New Delhi, India 12/09 Speaker: Medical-Legal Program, Salisbury, NC 1/10 Advisory Board: Libby Epidemiology Research Program, Scientific Advisory Group 2009-2014

Planned Presentations

<u>Speaker:</u> Medical-Legal Program, Philadelphia, PA 2/10 <u>Lecturer:</u> Maulana Azad Medical College, New Delhi 6/10 <u>Lecturer:</u> Sri Lanka NIOSH, Colombo 6/10 <u>Invited Speaker</u>: Shantou Medical College, PRC 9/10 <u>Invited Participant</u>: Asbestos Meeting, Japan 11/10 Speaker: Maulana Azad Medical College, New Delhi, India 12/10

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BOOKS, REVIEWS, AND CHAPTERS IN BOOKS

- Trump BF, McDowell EM, Barrett LA, Frank A, Harris C. Studies of Ultrastructure. Cytochemistry and Organ Culture of Human Brochial Epithelium. In *Experimental Respiratory Carcinogenesis and Bioassays*. New York: Springer-Verlag, 1974, p. 548-563.
- Harris C, Autrup H, Van Haaften C, Connor R, Frank A, Barrett L, McDowell E, Trump B. Inhibition of Benzo(a)pyrene Binding to DNA in Cultured Human Bronchi. In Proc 3rd Int Symposium Cancer Detection and Prevention, Part I, Vol 2, Nieburgs H. (Ed). Amsterdam: Excerpta Medica, 1977, p. 1359-1364.
- Frank AL. Occupational Lung Cancer. In Pathogenesis and Therapy of Lung Cancer, Hamis C. (Ed). New York: M. Dekker, Inc., 1978, p. 25-51.
- Frank AL. In Public Health and Preventive Medicine, Ilth Edition, Last J. (Ed). New York: Appleton-Century-Crofts, 1980. a. Arsenic, p. 660-662; b. Antimony, p. 68l; c. Thorium, p. 68l-682; d. Benzidine, The Napthylamines, and Miscellaneous Carcinogenic Compounds, p. 75I-755; e. Non-Ionizing Radiation, p. 777-787.
- Frank AL. Cancer. New York: Matthew Bender and Co., 1978.

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2.

- Frank AL, Spigelman M. Lung Cancer. In Cancer. New York: Matthew Bender and Co., 1980, p. 1-51.
- 7. Frank AL. Asbestosis. New York: Matthew Bender and Co., 1980, p. 1-51.
- Frank AL. Definition of Preventive Medicine. In Charting Graduate Education in Preventive Medicine, Byrd B. (Ed). Washington, DC: American College of Preventive Medicine, 1980, p. 7-8.
- Frank AL. Asbestos-Induced Changes in Hamster Trachea Organ Culture. In *The In-Vitro* Effects of Mineral Dusts. Brown R, et al. (Eds). London: Academic Press, 1980, p. 235-240.
- Wade MJ, Lipkin LE, Stanton MF, Frank AL. P388D₁ In-Vitro Cytotoxicity as Applied to Asbestos and Other Minerals: Its Possible Relevance to Carcinogenicity. In *The In-Vitro Effects of Mineral Dusts*, Brown R, et al. (Eds). London: Academic Press, 1980, p. 35I-358.
- Frank AL. Health Effects of Fibers. National Academy of Sciences Report on Indoor Air Pollutions, Washington, DC, 1981.
- Frank AL. Occupational and Environmental Exposure. In An Introduction to Physical Diagnosis. Swartz M (Ed). New York: Raven Press, 1981, p. 303-311.
- Frank AL, Spigelman M. Blood-Related Malignancies. In Cancer. New York: Matthew Bender & Co., 1981, p. 1-123.
- . 14. Frank AL. The Hospital as an Environmental Health Resource. In *Principles of Hospital-Based Ambulatory Care*, Pascarelli EF (Ed). New York: Appleton- Century- Crofts, 1982, p. 309-314.

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- Frank AL, Spigelman M. Cancer of the Liver, Gall Bladder, and Bile Ducts. In *Cancer*. New York: Matthew Bender and Co., 1982, p.1-43.
 Frank AL, Spigelman M. Cancer of the Pancreas. In *Cancer*. New York: Matthew Bender and Co., 1982, p. 1-22.
- Frank AL. The Etiology and Epidemiology of Lung Cancer. Clin in Chest Med 3:219-228, 1982.
- Frank AL. The Occupational History. In *Environmental and Occupational Medicine*, Rom W (Ed). Boston: Little, Brown, and Co., 1982, p. 2I-26.
- Frank AL, Spigelman M. Cancers of the Digestive Tract. In Cancer. New York: Matthew Bender and Co., 1983, p. I-108.
- Frank AL, Spigelman M. Cancers of the Urinary System. In Cancer. New York: Matthew Bender and Co., 1983, p. I-62.
- Frank AL, Spigelman M. Cancer of the Female Reproductive Organs. In Cancer. New York: Matthew Bender and Co. 1984, p. 1-80.
- Frank AL. Diethylstilbesterol. In Cancer. New York: Matthew Bender and Co., 1984, p. 1-15.
- Frank AL, Spigelman M. Cancer of the Breast. In Cancer. New York: Matthew Bender and Co., 1984, p. 1-51.
- Frank AL, Spigelman M. Cancer of the Head and Neck. In Cancer. New York: Matthew Bender and Co., 1984, p. 1-32.
- 25. Frank AL, Spigelman M. Specific Cancers of the Head and Neck. In Cancer. New York: Matthew Bender and Co., 1985, p. 1-36.
- Frank AL, Spigelman M. Cancer of the Brain and Nervous System. In Cancer. New York: Matthew Bender and Co., 1985, p. 1-82.
- Frank AL, Spigelman M. Sarcomas of Soft Tissue and Bone. In Cancer. New York: Matthew Bender and Co., 1985, p. 1-60.
- Frank AL. a. The Status of Environmental Health, p. 495-497. b. Non-Ionizing Radiation (with L. Slesin), p. 714-726. In *Public Health and Preventive Medicine*, 12th Edition, Last J (Ed). Norwalk, CT: Appleton-Century-Crofts, 1985.
- 29. Frank AL, Spigelman M. Cancer of the Skin; Melanoma. In Cancer. New York: Matthew Bender and Co., 1986, p. 1-51.
- Frank AL, Spigelman M. Cancer in Children. In Cancer. New York: Matthew Bender and Co., 1986, p. 1-30.
- Frank AL, Spigelman M. Non-Melanotic Skin Cancer. In Cancer. New York: Matthew Bender and Co., 1987, p. 1-29.

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- Frank AL. Occupational Medicine. in Encyclopaedia Britannica Medical and Health Annual 1987. Chicago: Encyclopaedia Britannica, 1986, p. 404–408.
- Frank AL. Occupational Cancers of the Respiratory Tract. In State of the Art Reviews -Occupational Medicine: Occupational Cancer and Carcinogenesis. Brandt-Rauf PW (Ed). Philadelphia: Hanley & Belfus, 1987, p. 71-83.
- Frank AL, Spigelman M. Mesothelioma. In Cancer. New York. Matthew Bender and Co., 1987, p. 1-29.
- Frank AL, Spigelman M. Cancer Chemotherapy. In Cancer. New York: Matthew Bender and Co, 1987, p. 1-20.
- Frank AL. Smokeless Tobacco. In Cancer. New York: Matthew Bender and Co, 1987, p. 1-28.
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EXHIBIT 3 -226-



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Institution		Degree	Year	Major
Virginia Polytechnic Institute	1	B.S	1962	Chemistry
University of Virginia		Ph.D.	1969	Inorganic Chemistry
University of Richmond		J.D.	1975	Law

PROFESSIONAL ORGANIZATIONS:

National & Virginia Society of Professional Engineers American Academy of Industrial Hygiene; American Chemical Society; Sigma Xi; American Industrial Hygiene Association American Conference of Governmental Industrial Hygienists American Society of Safety Engineers American Soc. of Heating, Refrig., & Air Cond. Engineers American & Virginia Public Health Associations American Institute of Hazardous Materials Managers American and Richmond Bar Associations; Virginia State Bar; Virginia Environmental Council

PROFESSIONAL LICENSES:

Licensed to practice	law in Virginia;	# 15305
Licensed to practice	engineering in Va.,	#0402029662
Board certifications:	Industrial Hygiene;	# 4155
a sure a sure sure sure sure sure sure sure sure	Safety:	# 12407
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PAST MEMBER AND CHAIR: Virginia Board for Asbestos, Lead & Home Inspectors; Virginia Department of Professional & Occupational Reg.

Past Member: Board of Governors, Environmental Law Section, Virginia State Bar

OCCUPATIONAL HISTORY:

1986 through present

Associate Professor, Dept. of Epidemiology (Preventive Medicine until 1/1/2005) & Community Health

Va. Commonwealth University/Medical College of Va.

1982 to 1986 Director of Health Standards U.S. Occupational Safety and Health Administration Washington, DC

1976 to 1982 Assistant Attorney General of Virginia

Chemistry Department Faculty: Virginia Commonwealth University; 1970 to 1981

Danville Community College; 1968 to 1970

July, 1986 to present: Associate Professor, Department of Epidemiology (Preventive Medicine until 1/1/2005)& Community Health, Medical College of Virginia, Virginia Commonwealth University. Teach graduate courses in industrial hygiene, preventive medicine, occupational and environmental health and safety, public health law, and environmental law. Principal instructor in University's EPA & Virginia accredited asbestos & lead continuing education programs. Develop additional occupational & environmental training programs in such areas as mold, hazardous waste, indoor air quality, etc. Also hold appointments in VCU Center for Environmental Studies and Department of Chemical Engineering.

September, 1987 to June, 1994: Co-owner, officer, corporate director, laboratory director (87-90) of Schneider Laboratories, Inc., (SLI), an environmental testing laboratory performing testing services on asbestos, lead, heavy metals, and other materials. SLI held/holds numerous accreditations and licenses, including, American Industrial Hygiene Association (AIHA), US National Institute of Standards & Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP), USEPA Environmental Lead Laboratory Accreditation Program (ELLAP), drinking water (Virginia & other states); as a 30% owner, carried out both management and analytical duties.

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1982 to 1986: As Director of Health Standards, prepared occupational health standards governing toxic substances for promulgation by OSHA. Developed priorities for Assistant Secretary of Labor for Occupational Safety and Health for regulation of workplace exposure to toxic chemicals. Hired and managed scientists, engineers, industrial hygienists, and physicians for OSHA health standards projects. Served as OSHA representative on various federal interagency committees, such as Federal Asbestos Task Force and IRMC carcinogen, risk assessment, and formaldehyde committees. Delivered Congressional testimony, public hearing presentations, and speeches to national and international bodies on behalf of OSHA. Prepared for delivery to the Assistant Secretary the following specific OSHA health standards:

Access to Medical Records Asbestos Benzene Cancer Policy Cotton Dust Ethylene Dibromide Ethylene Oxide Field SanItation Formaldehyde Hazard Communication Laboratories Lead Methods of Compliance Methylenedianlline Respirators

1976 to 1982: Assistant Attorney General of Virginia handling environmental and public health litigation involving solid and hazardous waste, occupational safety and health, kepone and other toxic substances, public water supplies, sewage, public health nuisances, radiation, milk and shellfish sanitation; drafted legislation and regulations in these areas. Presented testimony before various legislative and regulatory bodies.

1968 to 1981: Taught general, analytical and advanced inorganic chemistry and instrumental analysis on a full and part time basis.

Co-author:

Virginia OSHA Compliance Handbook; Government Institutes; 1992 Railroad Health and Safety; A Litigator's Guide; 1999

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EDUCATION:

EMPLOYMENT:

1988-1990 Fellow, Hematology/Oncology University of Kentucky Medical Center Lexington, Kentucky 1987-1988 Chief Resident, Medicine University of Kentucky Medical Center Lexington, Kentucky 1985-1987 Resident, Medicine University of Kentucky Medical Center Lexington, Kentucky 1984-1985 Internal Medicine University of Kentucky Medical Center Lexington, Kentucky 1984 East Tennessee State University Johnson City, Tennessee 1979 East Tennessee State University Johnson City, Tennessee B.S., Cum Laude Tennessee Cancer Specialists Hematology and Oncology CERTIFICATION:

Board Certified Internal Medicine Board Certified National Board of Medicine Examiners Board Certified Medical Oncology

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Tennessee Cancer Specialists, PLLC

Ross E. Kerns, M.D.

LICENSURE:

Tennessee ID# MD0000020355 Kentucky ID# MD0000024011

DANIEL S. MANTOOTH, CHP Senior Health Physicist

Dade Moeller & Associates, Inc. 1835 Terminal Drive, Suite 200 Richland, Washington 99354 (509) 946-0410 ext 328- Fax 946-4412

Specializing in Occupational and Environmental Health Sciences

EDUCATION/QUALIFICATIONS

M.S., Radiation Biology, University of Tennessee, 1978 B.S., Zoology, University of Tennessee, 1971

Certified for Comprehensive Practice, American Board of Health Physics, 1990

Hanford Site Radiological Worker Training Respiratory Protection Qualification (Air-Purifying Respirator and Powered Air-Purifying Respirator) 40-hour Hazardous Waste Operations Training

PRESENT POSITION

Senior Health Physicist, Dade Moeller & Associates, Inc.

PROFESSIONAL SUMMARY

Mr. Mantooth has 27 years of experience in occupational radiation safety and waste management and 10 years of line and project management experience. He has provided staff and consulting support to the U.S. Department of Energy (DOE), U.S. Department of Defense (DOD), U.S. Environmental Protection Agency (EPA), and commercial power operations. His key areas of expertise include project and line management, radiological engineering and design review, radiological program development and implementation, and radiological program assessment.

EXPERIENCE AND ACCOMPLISHMENTS

2006 - Present Dade Moeller & Associates, Inc.

Mr. Mantooth is responsible for providing professional-level support to Dade Moeller & Associates projects.

- <u>Energy Employees Occupational Illness Compensation Program Act</u>. Mr. Mantooth supports Task 3 of the National Institute for Occupational Safety and Health Dose Reconstruction Project, which is responsible for developing technical basis documents (TBDs) for performing radiation dose reconstruction at DOE and Atomic Weapons Employer sites. He is document owner for two sites, which entails directing a team of professionals in the development of the TBDs as well as providing technical input and oversight to the process. Mr. Mantooth also supports Task 10 evaluating Special Exposure Cohort petitions.
- <u>Hanford Plutonium Incinerator Demolition</u>. Mr. Mantooth was a key member of the project
 planning team for the open-air demolition of the 232-Z Plutonium Incinerator on the Hanford Site. He
 provided guidance to the atmospheric dispersion modeling that determined the acceptability of the
 proposed demolition and load-out methodologies, such that the project would be accomplished in
 conformance with radiological control requirements and procedures. Mr. Mantooth evaluated a

proposed demolition and load-out process and recommended methods to accelerate project completion in a safe and compliant manner. He also provided support to the radiological work planning effort to determine appropriate air sampling and radiological survey needs.

 <u>Hanford K Basin Sludge Closure, Stabilization and Packaging (CSAP)Project</u>. Mr. Mantooth supported the design of the sludge stabilization process of the CSAP. He performed detailed calculations demonstrating airborne radioactivity levels would remain within acceptable levels based on expected contamination and ventilation flows.

1996 - 2005 Fluor Hanford, Inc.

Mr. Mantooth provided senior-level radiological engineering support to Hanford Site operational and decontamination and decommissioning (D&D) projects consisting of project design review; radiological control program development, implementation, and assessment; shielding analysis; hazards assessment; waste characterization; workplace air monitoring; and radioanalytical instrument evaluation and selection. His assignments included the following:

- <u>K Basins D&D Project</u>. Mr. Mantooth provided radiological engineering support to the KBC Project. Key responsibilities included (1) serving as the KBC Radiological Control point of contact (POC) responsible for the design review of the K Basin Sludge Stabilization Project, which treats, assays, and packages highly radioactive sludge remaining in the 100K Area Fuel Storage Basins;
- (2) serving as the lead radiological engineer for support to KBC D&D engineering, which included performing shielding calculations for basin D&D alternatives, reviewing technical/design documents for radiological issues, and serving as an ad hoc resource on radiological engineering issues;
 (3) supporting KBC waste management/characterization/disposal efforts with technical reviews and calculations (dose-to-curie estimates); and (4) supporting radiological control program efforts such as program assessments, instrumentation evaluations/upgrades, and air sampling assessments.
- <u>Hanford Site Radiological Engineering</u>. Mr. Mantooth provided expert radiological engineering support to Hanford Site D&D projects including, K Basin Closure Project D&D, Plutonium Finishing Plant Ancillary Facilities D&D (232-Z), and Central Plateau D&D.
- Nuclear Facility Stabilization and Closure. Mr. Mantooth provided senior technical support to cleanup operations for Hanford Site facilities (324 and 327) containing kilocurie amounts of mixed fission products, transurances, and hazardous constituents. This support included shielding calculations for packaging and shipping materials, review of safety documentation, assessment of radiological safety programs, and radiological safety procedure review and development. Mr. Mantooth served as the organization POC for the implementation of key management programs including the Integrated Safety Management System and revisions to the Hanford Site Radiological Protection Program. He served as the Project Technical Authority (PTA) for Workplace Air Monitoring and the alternate PTA for Radiological Safety Training and Compliance Interpretation. He was the lead radiological engineer for the 233-S Demolition Project Team. He provided design input to demolition methodology, developed the Radiological Protection Plan, and served as POC for atmospheric dispersion modeling, respiratory protection planning, and internal dose evaluation.
- <u>222-S Radioanalytical Laboratory</u>. Mr. Mantooth provided expert technical support to the Waste Management Laboratory (WML) in the area of radiochemistry. He evaluated laboratory methods, results, and processes for technical validity and accuracy. He identified and assessed new analytical
methods for implementation at WML. He provided the technical interface between laboratory and analytical customers to assist in the resolution of issues.

- <u>Manager</u>, <u>Laboratory Client Services</u>. Mr. Mantooth was responsible for ensuring that analytical laboratory performance met customer expectations and requirements. He directed the development of marketing strategies to maintain or increase laboratory workloads with the prospect of decreasing Hanford Site needs from traditional customers. He developed metrics for laboratory performance, managed commercial analytical service contracts, and managed the integration of Site analytical services.
- Team Coordinator, Hanford Analytical Services Integration Support. Mr. Mantooth was responsible for leading the effort to integrate all analytical services for the Hanford Site. He directed the development of key integration elements including (1) the integration management strategy, (2) the evaluation and implementation of applicable requirements of the Hanford Analytical Services Quality Assurance Requirements Document, (3) the review of safety, radiological control, and environmental compliance status for each facility and assistance in corrective actions, and (4) the development of performance measurements and performance indicators, and tracking of performance.
- Manager. Analytical Services Occupational and Radiological Safety. Mr. Mantooth directed the development and implementation of Radiological Control and Occupational Safety Programs essential to the operation of analytical laboratory facilities. He worked closely with facility operations management to seek ways to implement high-quality programs in the most cost-efficient and effective manner. He ensured compliance with 10 CFR 835, the *Hanford Site Radiological Control Manual*, Occupational Safety and Health Administration requirements, and applicable DOE Orders. He maintained the appropriate staffing level and ensured the correct mix of skills and qualifications.

1987 – 1996 Foster Wheeler Environmental

Mr. Mantooth served in the following capacities:

- <u>Health Physics</u>. Mr. Mantooth was responsible for radiological protection and safety programs at the
 project, regional, and corporate level for a large environmental consulting firm. Government clients
 included DOE, DOD, and EPA. Mr. Mantooth managed projects valued at more than \$2M for DOE
 and DOD. Specific support included Radiological Protection Program development and assessment
 [DOE, Taiwan Power Company (TPC), Foster Wheeler], radiological waste site characterization
 (DOD, DOE, EPA), safety analysis reports (DOE), and D&D (DOE, DOD).
- <u>Team Lead, Radiological Data Validation Support</u>. Mr. Mantooth served as the team lead for radiological data validation for the DOE Fernald Site. He developed and implemented validation procedures, interacted with customer and laboratory personnel, and directed the efforts of as many as 10 professionals.
- <u>Site Radiological Characterization</u>. Mr. Mantooth was Delivery Order Manager for DOD Site Characterization Projects at Kirtland Air Force Base, New Mexico, and the Sacramento Army Depot in California. At Kirtland Air Force Base, he was responsible for planning and directing radiological characterization of 50 acres contaminated with thorium for a project valued at about \$2M. The Sacramento Army Depot scope involved evaluating characterization data collected for commercialization of the facility. Successful completion required interaction with the customer (U.S. Army Corps of Engineers), site personnel, state regulators, and the public.

DANIEL S. MANTOOTH, CHP

<u>Commercial Nuclear Power</u>. Mr. Mantooth developed a training program and procedures on the control of "hot particles" for Chin Shan and Kuosheng Power Stations. He presented classroom and in-plant training to station health physics personnel. He developed and implemented a site radiation survey plan in response to revised TPC requirements for exposure rates in uncontrolled areas. Both projects involved extended periods "in country" and required successful interaction with station personnel, regulators, and Taiwan project personnel.

Mr. Mantooth was a key contributor to the draft petition to the U.S. Nuclear Regulatory Commission for levels of radioactivity Below Regulatory Concern. This project for the Edison Electric Power Institute involved performing risk assessments for aspects of the nuclear fuel cycle to determine the anticipated exposure to maximum and typical members of the public.

 <u>Radiological Waste Site Characterization</u>. Mr. Mantooth served as Health and Safety Officer for monitoring well installation on and adjacent to a deactivated radioactive/mixed waste disposal site. Maxey Flats was one of the first licensed radioactive waste sites and received waste from commercial nuclear, DOE, and other sources. Mr. Mantooth's responsibilities included onsite health and safety evaluations and successful interaction with the Commonwealth of Kentucky, EPA, and the managing contractor for the site.

1985 – 1987 Westinghouse Hanford Company

As Manager, Radiological Engineering, Mr. Mantooth was responsible for 10 personnel and a \$750K budget at the DOE N-Reactor. He developed and administered company radiological control policy, directed compliance audits and appraisals, provided annual radiological safety improvement criteria, and directed efforts of technical personnel in the implementation of the radiological safety program. DOE Technical Safety Appraisal teams recognized the Radiological Control Program as noteworthy.

1983 – 1985 Martin Marietta Energy Systems

As a Health Physicist, Mr. Mantooth directed the radiological survey program at the K-25 facility on the Oak Ridge National Laboratory. He supervised five health physics technicians; consulted with maintenance, operations, and construction personnel on radiation safety; and reviewed maintenance and operational procedures for good radiation safety practices.

1979 – 1983 Oak Ridge Associated Universities

Mr. Mantooth was a Health Physics Technician and Biochemist, responsible for maintaining a teaching laboratory associated with courses in applied health physics, environmental monitoring, nondestructive assay, and radionuclide uses in research and medicine. He provided analytical support for studies of the *in vivo* metabolism and transport of radioactive, toxic, and carcinogenic materials.





JOHN E. CRAIGHEAD, MD

1417 Sadler Road, #314, Fernandina Beach, FL 32034 Phone: (301) 898-7370 • Fax: (301) 898-8232

April 3, 2009

Randall Jordan, Esquire The Jordan Firm 1804 Frederica Road Suite C P.O. Box 20704 St. Simons Island, GA 31522

Dear Mr. Jordan:

I am writing you regarding my evaluation of the medical records and pathologic material from Mr. Winston Payne who was born in 1942 and would be currently 67 years of age. The last medical records available to me are from December 30, 2008. Mr. Payne worked as a trainman, switchman, and conductor for the CSX Railroad from 1962 to 2002, a 40 year period. 'He contends that he was exposed to asbestos, diesel exhaust and ionizing radiation

Occupational Background:

From the deposition of Winston Payne taken on October 2, 2008, I learned that Mr. Payne was employed by the railroad beginning in 1962 and retired in 2002, a 40 year period. He estimates that 80% of his employment with the railroad was working in the yard, and 20% on the road. His initial position was an agent operator, responsible for outlying depots for approximately 6 months. Subsequently, he became a trainman and worked in the train yard. His primary responsibility was putting trains together in a small train yard with seven tracks. He walked around outside in the yard moving cars. Between 1962 and 1975, Mr. Payne primarily worked in the yard. During this time he also worked as a dispatcher for one year.

Occasionally, he would work "industry jobs" where he would be on a train of cars and drop off or pick up at various industries in the area spending up to an hour in each location. Mr. Payne alleges that for one particular industry, they would transport cars loaded with scrap metal consisting of pipes and boiler parts and sealed drums with a radiation symbol on the drum. Cars were placed in a magnet house where cutting, welding, crushing and baling of the scrap metal was going on; "dust boiling around" with loud noise. Mr. Payne alleges that there was asbestos in this scrap metal. Train work

included dropping off scrap metal, and then picking it up again after it had be processed and sold and returning it to the train yard.

Another local industry the railroad serviced about three times a week was a nuclear plant. Mr. Payne worked as a flagman at the rear of the train in the caboose, and would enter the industry yard to uncouple and move train cars to drop off and pick up, taking about 30 minutes each time. Some of these cars were tankers containing helium or natural gas.

From approximately 1975 to approximately 1983, he worked on "the road", riding the train in the engine as a brakeman. From approximately 1983 to 2002, Mr. Payne returned to working in the yard, and riding the train for "locals". His duties were similar to those working in the yard from 1962 to 1975. He recalls the old buildings in the yard including a roundhouse and car shop were pipefitters and engine mechanics worked. Mr. Payne would enter the roundhouse in the mornings to get the engine and occasionally enter the car shop to check on a repair. He reported to work in the yard office and had lunch there as well. He alleges that there was asbestos insulation on the pipes in these buildings. He also alleges asbestos from a heat shield in the cabooses, and while riding in the caboose, if the train brakes were engaged the smoke would trail directly into the caboose, which he alleges came from asbestos brakes. Mr. Payne alleges exposure to asbestos while staying on a layover at a YMCA. He claims there was exposed insulated piping all over the building, including the rooms where the crew would sleep.

Medical Background:

Mr. Payne smoked cigarettes at a rate of one pack per day for a 17 year period. According to a consult with Dr. Michael Brunson, he had a 30 pack year history of smoking. I cannot account for this discrepancy.

Mr. Payne did not use alcoholic beverages.

The family medical history is not relevant to this evaluation.

Mr. Payne has essential hypertension and has experienced scattered skin neoplasms, one of which was considered to be a melanoma on the scalp in 2002. There is no evidence to suggest that the melanoma was incompletely excised, and there is no evidence to suggest it has disseminated.

In October of 2005, Mr. Payne sought medical attention because of blood in the sputum. A chest x-ray was said to reveal an effusion of fluid in the left chest and a mass in the chest behind the heart. A computer axial tomography study demonstrated the lesion to be in the infrahilar region of the left chest obstructing the bronchus of the lower lobe and measuring 6.1cm in greatest dimension (2.1cm=linch). Emphysematous changes

were noted in the upper lobes of the lung and atelectasis was demonstrated peripheral to the aforementioned mass.

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On October 25, 2005 a bronchoscopy revealed a nodular lesion in the bronchus intermedius and a biopsy yielded the diagnosis of a non-small cell carcinoma. (SM05-12890) I have examined this specimen and concur.

A neoplastic survey revealed no evidence of tumor spread beyond the thorax and both chemotherapy and irradiation therapy were initiated with a consequential reduction in the tumor size by approximately 70% at the end of 2005.

In June of 2006, a PET scan demonstrated hypermetabolic activity in the region of the turnor in the left lung, but incidentally showed a hypermetabolic nodule in the right lobe of the thyroid. A fine needle aspiration of this nodule demonstrated a papillary thyroid carcinoma. I have examined this specimen and concur (CM06-926).

During 2006, Mr. Payne was monitored clinically and the lesion of the left lung treated with irradiation. In November of 2006 a pericardial effusion developed suggesting spread of the neoplasm to the pericardium. The mass in the left hilum persisted. 'Concern mounted regarding the possibility of a cardiac tamponade. At the end of 2007, the neoplasm was considered to be "stable", but management with chemotherapy was continued. In May of 2008, the left pleural effusion increased in size and in July of 2008 a right pleural effusion appeared.

The last medical records (available to me) are from December of 2008. They documented bilateral pleural effusions without a dramatic change in the size of the left lung tumor lesion. Apparently the thyroid nodule decreased in size and metabolic activity in the interim.

Radiological Evaluation:

I have reviewed the reports of numerous radiological studies of the chest including computer axial tomograms. No evidence of pleural plaques or bilaterally symmetrical pleural thickening was observed and there was no evidence of the disease process asbestosis.

Summary and Conclusions:

Mr. Winston Payne is a 66 year old man who was employed by the railroad for a 40 year period working as a trainman, switchman and conductor on freight trains. He claims exposure to asbestos, diesel exhaust, and radiation. He also smoked cigarettes for an extended period of time.

It is my opinion with a high degree of medical probability that Mr. Payne's lung cancer was caused by tobacco product abuse. Asbestos exposure, diesel exhaust and radiation played no causative or contributory role in the development of the cancer as discussed below.

As indicated above, there was no radiological evidence of asbestosis. Accordingly, it is my opinion with a high degree of medical probability that in the absence of asbestosis in a smoker, asbestos plays no causative or contributory role in the development of a lung cancer. The basis for my conclusion is summarized below.

Four review articles, more specifically by Browne (Br. J. Med. 43: 145-149, 1986), Cagle (Am.J. Clin, Pathol, 117: 9-15, 2002), Craighead (Arch. Path. Lab. Med. 116: 16 - 20, 1992), and Weiss (Chest 115: 536-549, 1999), have considered the association of asbestos exposure with the development of lung cancer. These reviews clearly demonstrated that the occurrence of lung cancer in a smoker is not influenced by exposure to asbestos, unless, there is clinical evidence of the disease process asbestosis. These observations correlate with the well-recognized finding of a dose-response relationship between asbestos exposure and the occurrence of lung cancer. At low levels of exposure, the incidence of lung cancer does not increase, whereas when exposure is sufficiently heavy to cause asbestosis the incidence increases by approximately 3 to 4, fold. A considerable body of experimental evidence suggests that long term exposure to tobacco smoke alters the biology of the bronchial lining cells ultimately resulting in cancer in approximately 10 to 15% of smokers. Simultaneous exposure of the bronchial wall to asbestos increases the carcinogenic effects of cigarette smoke. Thus, it is not the scarring of asbestosis, but an exposure to asbestos sufficient to cause asbestosis. Asbestosis is a marker of heavy and prolonged exposure to asbestos.

A report by Selikoff and Hammond is often cited in consideration of this issue, inasmuch as these workers demonstrated a 55-fold increase in lung cancer among asbestos-exposed workers. This study, although an important early contribution to the literature, did not provide information as to whether or not the workers had clinical or pathological evidence of asbestosis. Thus, it is inconclusive. A report from South Africa also demonstrated an association of bronchogenic carcinoma with asbestosis using pathological autopsy information. Unfortunately, these investigators did not provide information as to their criteria for the histologic diagnosis of asbestosis and the presence of associated chest x-ray changes in their subjects.

In long term smokers the carcinogenic effect of cigarette smoking is known to persist indefinitely after cessation. (Halpern; J. Nat. Cancer Instit., 1993)

It is my opinion that diesel exhaust did not cause or contribute to the development of the lung cancer for the reasons discussed below.

After the energy crisis in the early 1970's, the U.S. government and the transportation industry repeatedly asked the question: Does exposure on a long-term basis to diesel engine exhaust cause the development of lung cancer in members of the general population and heavily exposed members of occupational groups? Three types of studies have been carried out. In the first, epidemiological investigations have been conducted in large population groups, such as railroad employees and teamsters, to assess for an increased prevalence of cancer. In the second type of study, experimental animals have been exposed under controlled conditions to various exhaust constituents as well as the exhaust as a whole. Finally, a great many studies have been done using cell cultures to assess the genotoxic potential of diesel exhaust constituents.

Diesel exhaust contains multiple constituents, consisting of a plethora of gases and countless fine carbon particulates with a vast variety of adherent chemicals including various polycyclic aromatic hydrocarbons. Despite considerable effort, long term epidemiological studies have failed to demonstrate a biologically meaningful increase in the prevalence of lung cancer attributable to diesel exhaust exposure in members of the general population, and in worker groups, largely those in the railroad and trucking industries.

¹ These are difficult investigations to conduct inasmuch as even the most subtle of variables must be critically evaluated. And, the investigator is obliged to rule our confounding factors influencing outcomes. In a few studies of large populations of teamsters and railroad workers statistically significant increases in the Relative Risk of 1.2 to 1.4 have been found. But, it is generally agreed in the scientific community that a Relative Risk of 2 or greater is required before the data are meaningful from the perspective of causation. Accordingly, at the end of the day, diesel exhaust exposures in the human population have not been found to be a consequential hazard and diesel exhaust has not been established as a human carcinogen. If it were otherwise EPA and OSHA would promptly act to rigorously control exposures. Obviously, this has not happened.

Animal investigations are replete with confounding problems and small laboratory animals prove to be poor and unreliable models for neoplastic disease in man. Although a sufficient amount of chemical introduced into a cell culture system can cause damage to the cell's reproductive mechanisms simulating carcinogenesis, there is no consistent pattern of effects when cultures are exposed to chemicals found in diesel exhaust. Thus, we have accumulated over the last 30 some years a substantial body of experimental and observational information that in my opinion excludes diesel exhaust as an environmental cause of cancer in humans. The question has been addressed by a number of scientific expert committees with concurrence regarding this matter. And, with the passage of time the efficiency of diesel engines have dramatically improved with a concomitant reduction in exhaust effluents.

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It is my opinion that Mr. Payne's alleged exposure to irradiation while traveling on trains allegedly transporting radioactive material from the Oakridge National Laboratories to Knoxville, TN did not cause or contribute to the development of his lung cancer. Although claims of exposure were enunciated in the documentation you have provided me including Mr. Payne's depositions, no specific measures of radioactivity (i.e. dosimetry) are available to permit an estimation of possible exposures and no data on the type of irradiation exist. This is obviously critical information. It is my understanding that while various radioactive contaminants may have been present in certain debris originating in the Oakridge Laboratories there is no reasonable basis for speculating that the alleged contaminated material was in a respirable form, or active with a broad radius of potential health effects on the respiratory system (such as x-rays or gamma particles). Thus, I conclude Mr. Payne was not exposed to radiation having consequential health effects on the respiratory tract, and more specifically having the capacity to cause or contribute to the development of hung cancer.

Epidemiological studies have demonstrated a carcinogenic effect of irradiation on the development of cancer. With regard to lung cancer, pitchblende in central Europe and uranium in the Four Corners region of the United States have been implicated in the causation of lung cancer among underground miners. In these studies the evidence strongly suggests that the exposure of critical importance is the inhalation of an alpha ray emitter, radon, a radioactive gas, emanating from the degradation of uranium. Or, dust particulates of uranium ore aerosolized and inhaled into the respiratory tract by the miner in exceedingly high concentrations, particularly in mines where air circulation and venting is limited. The miners believed to be at greatest risk have been those employed on a daily basis underground for extended periods of time. Obviously, the above considerations do not apply to Mr. Payne's allegations of exposure.

Long term studies have been conducted on Japanese acutely exposed to radioactive substances after the Hiroshima event in 1945. A small number of residents located near the epicenter of the explosion have developed lung cancer believed to be attributable to irradiation. However, the complexity of the exposures and their transient nature differ from the allegedly, undocumented exposures occurring on trains believed by Mr. Payne to be transporting radioactive debris.

Based on these considerations, it is highly unlikely that a trainman would have been exposed to pathogenic amounts of irradiation sufficient to cause or contribute to the development of lung cancer while allegedly exposed for short periods of time on a sporadic basis abroad trains.

Papillary adenocarcinomas of the thyroid develop spontaneously and are generally idiopathic except in persons imbibing radioactive iodine. These cancers customarily have a good prognosis and usually are not life threatening. They are not causatively related to asbestos and diesel exhaust exposure.

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The opinions enunciated above are made with a reasonable degree of medical probability.

If I can provide any additional information, or elaborate on the considerations above please feel comfortable in calling upon me.

Sincerely,

Cricked /m

Signed in Dr. Craighead's absence to expedite transmission

John E. Craighead, MD

JEC/mll

Craighead, J: The Pathology of Environmental and Occupational Disease, Mosby, 1995. Craighead, J and Gibbs, A: Asbestos and its Diseases, Oxford, 2008. IN THE CIRCUIT COURT FOR KNOX COUNTY, TENNESSEE

Winston Payne, deceased plaintiff

v.

2-231-07

CSX Transportation, Inc. defendant

VERDICT FORM

1. Was the defendant negligent as defined in these instruction?

yes

2. If you answered yes to question one, did that negligence cause in whole or in part the harm suffered by plaintiff?

ves

3. If negligent, was the defendant negligent with regard to:

Asbestos exposure?

Diesel exposure?

Radiation exposure?

yes yes yes If your answer to any of these is yes, did negligence of the defendant cause in whole or in part the harm suffered by plaintiff as a result of:

Asbestos exposure

Diesel exposure

Radiation exposure



4 A. Did the defendant violate the Locomotive Inspection Act or any regulation concerning locomotives read to you regarding asbestos and was any such violation a legal cause of plaintiff's harm?



B. Did the defendant violate the Locomotive Inspection Act or any regulation concerning locomotives read to you regarding diesel fumes and was any such violation a legal cause of plaintiff's harm?



C. Did the defendant violate any regulation read to you regarding the operation of railroad cars and transportation of radioactive materials read to you and was any such violation a legal cause of harm suffered by plaintiff?



5. If you answered yes to question two, was plaintiff negligent with regard to harm he suffered and did his negligence cause in whole or in part the harm he suffered?



6. If your answer to question five is yes, to what extent, expressed in percentage, did plaintiff's negligence cause in whole or in part the harm he suffered?

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7. What amount of money do you find, without deduction for any negligence which you may find on plaintiff's part, will fairly represent adequate compensation?

5 - 8.6 million 3,2 million @ 100% MLK. 1/39/10

IN THE CIRCUIT COURT FOR KNOX COUNTY. TENNESSEE

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ANNE, PAYNE, widow of WINSTON PAYNE, deceased,

Plaintiff,

VS.

No.: 2-231-07 Jury Demand

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201L MAR 14 P 2:38

CSX TRANSPORTATION, INC.,

Defendant.

ORDER OVERRULING DEFENDANT'S RENEWED MOTION FOR MISTRIAL

The Defendant, CSX Transportation, Inc.'s Renewed Motion for Mistrial, based upon the Defendant's contention that it was entitled to a mistrial on the issues relating to thyroid cancer and cesium contamination at Oak Ridge, came on for hearing on the fourth day of January, 2011, and the Court, after considering the Motiou, the Defendant's Memorandum in Support of the Motion together with Exhibits, the Plaintiff's Reply to the Motion and the Defendant's Reply to the Plaintiff's Reply to the Motion was not well taken and should be denied.

Accordingly, it is ORDERED that the Defendant's Renewed Motion for Mistrial be, and the same hereby is denied.

Enter this 14 day of MARCH, 2011.

The Honorable Harold Wimberly

The Honorable Harold Win Circuit Court Judge

APPROVED FOR ENTRY:

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GILREATH & ASSOCIATES

*

Sidney W. Gilreath, Esq., BPR #002000 Attorney for Plaintiff

550 Main Avenue, Suite 600 P.O. Box 1270 Knoxville, Tennessee 37901-1270 (865) 637-2442

BAKER, O'KANE, ATKINS & THOMPSON

John W. Baker, Jr., Esq., BPR #001261 Alterney for Defendant

2607 Kingston Pike, Suite 200 Post Office Box 1708 Knoxville, Tennessee 37901-1708 (865) 637-5600

1 IN THE CIRCUIT COURT FOR KNOX COUNTY, TENNESSEE 2 WINSTON PAYNE, 3 4 Plaintiff, 5 v. No. 2-231-07 6 CSX TRANSPORTATION, INC., 7 Defendant. 8 9 * * * * * * * * * 10 11 RULING 12 (Motion for New Trial) 13 14 15 August 19, 2011 16 17 Hon. Harold Wimberly, Judge 18 19 TRUESDEL & RUSK Registered Professional Reporters 20 Jeffrey D. Rusk, RPR 21 Licensed Court Reporter #212 805 Eleanor Street 22 Knoxville, Tennessee 37917 (865) 310-4588 23 JRusk@Comcast.net 24 25

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1	APPEARANCES:
2	FOR THE PLAINTIFF:
3	Richard N. Shapiro, Esq. (via phone) 1294 Diamond Springs Road
4	Virginia Beach, Virginia 23455
5	Sidney W. Gilreath, Esq. 6th Floor
6	550 Main Avenue
7	
8	FOR THE DEFENDANT:
9	John W. Baker, Jr., Esq.
10	Emily H. Thompson, Esq. Baker, O'Kane, Atkins & Thompson
11	2607 Kingston Pike Suite 200
12	Knoxville, Tennessee 37902
13	Randy Jordan, Esq.
14	1804 Frederica Road Suite C
15	Post Office Box 20704 St. Simons Island, Georgia 31522
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1	(Proceedings began at 2:02 pm.)
2	THE COURT: So, is everybody hooked
3	up and ready?
4	MR. GILREATH: I guess.
5	THE COURT: Well, I took a lot of
6	time to go over all this again and we had a
7	number of motions that we discussed at our
8	last meeting. The Court has come to this
9	conclusion, that the motion for new trial is
0	warranted. I hate to admit this because a
1	lot of the problems come back to me, but in
2	particular the jury instructions I feel were
3	Cincomplete, therefore insufficient and
4	inadequate and incorrect] This was
5	illustrated graphically by their response
6	and what we had to do to try to understand
7	what they meant.
в	During the trial itself I agree
9	that there were too many things that had
0	[been ruled improperly for the jury to
1	consider that were considered and the
2	presented to the jury, and probably the
3	worst of those was when we started talking
4	about this thyroid cancer which he
5	apparently didn't have. The Court took it

upon itself to make a comment about that and 1 made a comment which could well have been 2 misinterpreted. I just made -- did not 3 express what I tried to express by saying 4 that is not part of this lawsuit. It could 5 be understood that he actually had that and 6 it was not being considered now. 7 8 I deeply regret what I just said because, you know, I like to get cases over 9 with, but at the same time I feel that this 10 one was probably not handled appropriately 11 12 and needs to be handled again, whether by me or somebody else. So that's the extent of 13 what I want to say today. 14 MR. BAKER: All right, Your Honor, 15 we'll prepare the order. 16 (End of Proceedings at 2:04 p.m.) 17 18 19 20 21 22 23 24 25

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	CERTIFICATE
STATE OF	TENNESSEE:
COUNTY O	F KNOX:
	I, Jeffrey D. Rusk, Registered
Professi	onal Reporter and Notary Public, do hereby
certify	that I reported in machine shorthand the
foregoin	g proceedings; that the foregoing pages,
numbered	1 to 4, inclusive, were typed by me using
computer	-aided transcription and constitute a true
and accu	rate record of said proceedings.
	I further certify that I am not an
attorney	or counsel of any attorney or counsel
connecte	d with the action, nor financially
interest	ed in the action.
	Witness my hand and official seal
this the	19th day of August, 2011.
	Jeffrey D. Rusk
	Registered Professional Reporter
	Notary Public at Large
	My Commission Expires: 6/3/14
	TCRB License No. 212

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Payne v. CSX

October 5, 2012

Page 1 IN THE CIRCUIT COURT FOR KNOX COUNTY, TENNESSEE ANNE PAYNE, widow of WINSTON PAYNE, Plaintiff, No. 2-231-07 ν. CSX TRANSPORTATION, INC., Defendant.

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EXCERPT OF PROCEEDINGS Before: Honorable Dale Workman, Judge

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Friday, October 5th, 2012

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1	THE COURT: The parties stipulate
2	there was never the parties stipulate that
З	this individual plaintiff never had an
4	individual monitor to know how much if any
5	radiation he was exposed to?
6	THE WITNESS: To my knowledge, he was
7	never monitored.
8	THE COURT: The parties stipulate
9	that?
10	MR. JORDAN: We agree.
11	MR. SHAPIRO: Yes.
12	THE COURT: Okay. Go ahead.
13	BY MR. SHAPIRO:
14	Q And as far as surveys of actual
15	equipment, where a survey device was brought into
16	Witherspoon and things were tested, that was done at
17	different times, wasn't it?
18	A Well, as a licensee Witherspoon had an
19	obligation to do surveys. Whether they wrote them or
20	recorded them or not
21	THE COURT: Counsel, I don't know
22	where you're going, okay, and you may know and
23	I don't. But as I understand their attack
24	here, their attack relates to one scientific
25	issue, and that scientific issue is can you say

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Page 56 1 any radiation exposure can cause lung cancer if it's not measurable above 10 rems -- is attack 2 one. Attack two is that your witness cannot 3 say what exposure your client had. Now, those 4 are, I understand, the two attacks on the 5 science, not on the reliability, not on the 6 7 weighing of the evidence, not on whether you should believe this expert or that expert. 8 Those are the two things I think they're trying 9 to deal with. Now, this may relate to some of 10 11 that, I don't know, but let's -- let's get there if it does, okay? 12 BY MR. SHAPIRO: 13 14 Q Well, Dr. Dooley, first of all, 15 you're -- the Health Physics Society is not -- you're 16 not offering any medical causation opinions in this 17 case, are you? A I'm not a medical doctor, so no. It's 18 19 based on radiation science, not on my medical 20 expertise. 21 So this whole thing that the Health 0 Physics Society puts in this paper is an opinion of the 22 23 Physics Society about what, in their view, causes what? 24 Well, it's not just the opinion of the A Society, counselor, it's the opinion of the National 25

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