FILED

12/07/2018

Ed Smith CLERK OF THE SUPREME COURT STATE OF MONTANA

Case Number: AC 17-0694

## **Exhibit D**

				Page 3
	IN THE ASBESTOS CLAIMS COURT	1	APPEARING TELEPHONICALLY:	1 490 5
	IN RE ASBESTOS LITIGATION, Cause No. AC-17-0694	2 3	STEVEN T. WILLIAMS	
	Consolidated Cases. THIS DOCUMENT RELATES TO	4	Attorney at Law Knight NiCastro, LLC	
	Ralph Hutt v. Maryland Casualty	5	401 North 31st Street, Suite 770	
	Company, et al., Eighth Judicial	6	Billings, Montana 59101	
	District Court,	7	Dinings, Wontana 59101	
	Cause No. DDV-18-0175	8		
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		16		
	DEPOSITION OF TERRY SPEAR, PH.D.	17		
		18 19		
	Taken at:	20		
	Nordhagan Court Danarting	$\begin{vmatrix} 20\\21 \end{vmatrix}$		
	Nordhagen Court Reporting 1734 Harrison Avenue	$\begin{array}{c} 21\\ 22 \end{array}$		
	Butte, Montana	23		
	November 2, 2018	24		
	9:30 a.m.	25		
	Page 2			Page 4
1	APPEARANCES OF COUNSEL:	1	I N D E X	
2		2	WITNESS: Pag	ge:
3	FOR THE PLAINTIFF RALPH HUTT:	3	TERRY SPEAR, Ph.D.	
4	DUSTIN LEFTRIDGE	4	Examination by Mr. Longosz	5
5	Attorney at Law	5	Examination by Mr. Leftridge	
6	McGARVEY HEBERLING SULLIVAN & LACEY	6	Examination by Mr. Longosz	210
7	345 First Avenue East	7		
8 9	Kalispell, Montana 59901	8		
9 10		9 10	EXHIBITS	
11	FOR THE DEFENDANT MARYLAND CASUALTY COMPANY:	10	PAGE DESCRIPTION	
12	EDWARD J. LONGOSZ, II, pro hac vice	12	211 Dr. Spear's flash drive	
13	Attorney at Law	13	(Exhibit number to be applied)	
14	ECKERT SEAMANS CHERIN & MERLLOTT, LLC	14	· · · · · · · · · · · · · · · · · · ·	
15	1717 Pennsylvania Avenue, NW	15		
16	12th Floor	16		
17	Washington, D.C. 20006	17		
18		18		
19		19		
20	JOE SEIFERT	20		
21	Attorney at Law	21 22		
22	KELLER LAW FIRM, P.C.	22 23		
23 24	P.O. Box 598 Helena, Montana 59624-0598	23		
24 25	нына, тыпана <i>3702</i> +*0370	25		
20				

	Page 5		Page 7
1	TERRY SPEAR, PH.D.	1	Q. In connection with those depositions, have you
2	FRIDAY, NOVEMBER 2, 2018; BUTTE, MONTANA	2	ever been deposed or given opinions directed at Maryland
3		3	Casualty?
4	BE IT REMEMBERED THAT, pursuant to Notice, the	4	A. Other than the affidavit in the Girard case,
5	Deposition of Terry Spear, Ph.D., was taken at the time	5	that's the only one that comes to mind.
6	and place and with the appearances of counsel hereinbefore	6	Q. And the Girard case affidavit you're referring
7	noted before Candice L. Nordhagen, Court Reporter - Notary	7	to is the bankruptcy court affidavit; is that correct?
8	Public for the State of Montana.	8	A. Yes.
9	It was further stipulated and agreed by and between	9	Q. And that was many years ago, at least ten
10	counsel for the respective parties that this deposition	10	years ago?
11	was taken pursuant to the Montana Rules of Civil	11	A. I think the early 2000s, if I remember right.
12	Procedure.	12	Q. Other than that, have you given any testimony
13		13	or any opinions directed at Maryland Casualty?
14	The following proceedings were had:	14	A. Not that I believe, no.
15		15	Q. The times that you've been deposed, were they
16	TERRY SPEAR, Ph.D.,	16	related to what occurred in Libby, Montana?
17	having been called as a witness by the Defendant, being first duly sworn, was	17	A. Yes, there and elsewhere.
18	examined and testified as follows:	18	Q. Okay. Have you been deposed in any cases not
19 20	examined and testified as follows.	19 20	involving W.R. Grace and the Libby Mine? A. Yes.
20 21	EXAMINATION	20	Q. What other types of cases have you given
21	BY MR. LONGOSZ:	21	testimony in other than the Libby cases?
22	Q. Good morning, Dr. Spear. Could you please	22	A. Oh, I don't know. I've been involved quite a
23 24	state your name for the record and give us your address so	23	bit with, I guess I'd call them, "asbestos product cases";
25	we have it on the record?	25	I've been involved in nonasbestos cases. It's a long
	Page 6		Page 8
1	A. My name is Terry Spear, and my permanent	1	list.
2	address is 110 South Hauser, H-A-U-S-E-R. That's in	2	Q. Have you compiled a list like the Federal
3	Anaconda, Montana.	3	Court requires a list? Have you compiled any type of list
4	(Telephonic interruption - Steve Williams has	4	of cases in which you've been either deposed or given
5	left the conference.)	5	courtroom testimony?
6	MR. LONGOSZ: I guess he'll join us back	6	A. I have, yes.
7	whenever.	7	Q. And if we make a request of Counsel, could you
8	Q. (By Mr. Longosz) Okay. Dr. Spear, my name's	8	provide that without too much hassle?
9	Ed Longosz. I represent Maryland Casualty Company in the	9	A. Sure.
10	Hutt lawsuit.	10	Q. Okay. What was the nature of your testimony
11	It's my understanding you've been identified as the	11	in those cases? Were you testifying, for example, were
12	an expert to give opinions with respect to Maryland	12	you testifying as an industrial hygienist?
13	Casualty to the Hutt lawsuit; is that correct?	13	A. Yes.
14	A. Yes.	14	Q. Okay. Is that the only area in which you were
15	Q. You've been deposed before, I presume?	15	testifying or have you gone outside of that area to
16	A. Yes.	16	testify?
17	Q. A couple times?	17	A. No, regarding asbestos, it's just been as an
18	A. A few times.	18	industrial hygienist.
19	(Telephonic interruption - Steve Williams has	19	Q. Nonasbestos cases, have you testified in areas
20	joined the conference.)	20	other than asbestos?
21	Q. (By Mr. Longosz) What's "a few"?	21	A. Oh, I've testified in like construction
22	A. I don't know how many. Less than a hundred,	22	accidents and things like that.
23 24	maybe, I don't know. Q. More than 50?	23 24	Q. Okay. In those types of cases, have you testified as an industrial hygienist?
∠+	$\mathbf{v}_{i}$ more than $\mathbf{v}_{i}$	1 24	icsinicu as an muusuiai nyglemst?

A. Well, as a safety and health professional, I

A. Probably. I don't know. I don't add them up.

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	Page 9		Page 11
1	guess is the way I'd phrase it.	1	Q. Okay. Well, none of the OSHA standards
2	Q. Are you an OSHA expert?	2	applied in 1968 and '69; is that correct?
3	A. I don't know what an "OSHA expert" is.	3	A. No.
4	Q. Do you know what OSHA is?	4	Q. No, it's not correct or it is correct?
5	A. I know what OSHA is.	5	A. No, OSHA wasn't in existence in '69.
6	Q. Okay. Have you ever qualified as an expert in	6	Q. Now, OSHA was directed at the employer,
7	OSHA?	7	correct?
8	A. I don't know.	8	A. Yes.
9	Q. Have you ever given opinions with respect to	9	Q. OSHA was not directed at anybody that was not
10	OSHA?	10	an employer, correct?
11	A. Yeah, probably many times.	11	A. No, it had employer responsibilities, worker
12	Q. Okay. And have you been retained and provided	12	responsibilities, so, yeah, employer.
13	courtroom testimony as an expert on OSHA?	13	Q. And your understanding in this case is that
14	A. Well, I believe I've given courtroom testimony	14	Maryland Casualty was not the employer, correct?
15	in cases related to accidents that involve standards and	15	A. They were the insurer, yes.
16	different things like that of OSHA, sure.	16	Q. They were only the insurer. They were not the
17	Q. Okay. Now, OSHA is not applicable to the Hutt	17	employer, correct?
18	case; is that correct? A. Well, I wouldn't agree with that totally, no.	18	A. Correct.
19 20	Q. Okay. Well, what year did OSHA come into	19 20	Q. Okay. Have you ever worked for an insurance
20	existence?	20	company? A. I have not.
21	A. 1970-71.	21	Q. Have you ever provided advice to an insurance
22	Q. Okay. And what year was Mr. Hutt working at	23	company?
23	the W.R. Grace facility?	23	A. I don't believe so.
25	A. In '68 and '69.	25	Q. Have you ever constructed an industrial
	Page 10		Page 12
1	Q. Okay. So OSHA came into existence after	1	hygiene program on behalf of an insurance company for an
2	Mr. Hutt was working in the W.R. Grace facility; is that	2	employer?
3	correct?	3	A. No.
4	A. Yes.	4	Q. Have you constructed an industrial hygiene
5	Q. Is it going to be your testimony that OSHA	5	program for an employer?
6	applies to the Hutt case?	6	A. Well, yes, I was an industrial hygienist for
7	A. Well, OSHA applies to, you know, workplace	7	EG&G Idaho, so I certainly constructed an industrial
8	standards when it went into effect in the early '70s, and	8	hygiene program and did all the things industrial
9 10	Maryland Casualty was still insuring W.R. Grace, you know, into the 1972-73 time frame.	9 10	hygienists do, sure. Q. So who were you an industrial hygienist for?
10	Q. But OSHA would not apply to Maryland Casualty	10	I didn't catch the name.
11	in the '68 to '69 time frame because OSHA didn't come into	11	A. It was a company called "EG&G Idaho,
12	existence then; is that correct?	12	Incorporated." And I don't know what EG&G is. It stands
13	A. Yes.	13	for three names that I can't pronounce.
15	Q. So you cannot render any opinions in this case	15	Q. When were you employed by EEG?
16	that Maryland Casualty violated any OSHA standards in 1968	16	A. EG&G.
17	and '69; is that correct?	17	Q. EG&G. We could give a funky acronym for it,
18	A. Well, again, the standards that came into play	18	couldn't we? What did they call themselves?
19	in the 1971-72 time frame of OSHA, they required that we	19	A. I don't know. It was referred to as "EG&G,
20	inform workers, monitor workers that are potentially	20	Incorporated."
21	exposed to asbestos, and we provide training and education	21	Q. Okay, EG&G.
22	and change of clothes, and different things like that. So	22	A. (Nodding head affirmatively.)
23	in that time frame, that's what applied.	23	Q. When were you employed by EG&G?
24	Q. In the '70s?	24	A. It would have been '80 to '83, I think, in
25	A. Yeah, after OSHA went into effect.	25	that time frame.

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	Page 13		Page 15
1	Q. Okay. And what did EG&G do? What was its	1	Q. So have you ever been employed by a
2	manufacturing process?	2	manufacturing facility to provide any type of industrial
3	A. Well, at that time, they were the prime	3	hygiene program?
4	contractor for the Idaho National Engineering Laboratory	4	A. Well, yeah, in the late '70s, I worked for a
5	near Idaho Falls, Idaho. So, you know, they oversaw the	5	short time, a summer, at the Anaconda copper smelter in
6	work at the Idaho National Lab.	6	Anaconda as an industrial hygienist.
7	Q. So they were not a manufacturer of any	7	Q. You said you worked there summers?
8	product?	8	A. It was a summer before I went off to graduate
9	A. I don't know what they did outside of the	9	school.
10	Idaho National Lab. They very well could have been. I	10	Q. So it was after you received your
11	don't know what they did. But at the National Lab, they	11	undergraduate degree was in biology, or something?
11	basically oversaw the contract, and then DOE is the	12	A. Yeah, I received my undergraduate degree in
12	•	12	microbiology. And then after I was out of school for a
	oversight, and just to comply with all of the safety and	13	
14	health regulations, environmental regulations.	14	couple years, then I came back to school at Montana Tech
15	Q. So what was their business? You said oversaw		and I spent a year taking courses in the occupational
16	it. Explain to me, if I walked in and I asked you for the	16	safety and health degree program in the late '70s.
17	Reader's Digest of what they do, explain it to me.	17	Q. So during the summer in the '70s, did you put
18	A. Well, they basically they held the contract	18	together any type of industrial hygiene safety program for
19	to make sure that the proper facilities were provided to	19	Anaconda Copper?
20	the employees at the Idaho National Lab, including the	20	A. At that time, I don't believe I had input into
21	professional staff. And, again, DOE was kind of the	21	the program. I basically went out and had seen what the
22	overseer of these National Labs.	22	workplace was and what they were doing and if they were
23	Q. Okay.	23	complying with the appropriate safety and health
24	A. So they basically had to respond to DOE in	24	standards.
25	terms of how they were conducting the business at the	25	Q. And the appropriate safety and health
	Page 14		Page 16
1	-	1	
1 2	Idaho National Lab.	1 2	standards at that time was OSHA, correct?
2	Idaho National Lab. Q. So what does the Idaho National Lab do?	2	
2 3	Idaho National Lab. Q. So what does the Idaho National Lab do? A. Well, basically, it's a nuclear research		<ul><li>standards at that time was OSHA, correct?</li><li>A. Yes, in part. Again, we rely on consensus and OSHA standards.</li></ul>
2 3 4	<ul><li>Idaho National Lab.</li><li>Q. So what does the Idaho National Lab do?</li><li>A. Well, basically, it's a nuclear research</li><li>facility. So at one time, that's were they trained all</li></ul>	2 3	<ul><li>standards at that time was OSHA, correct?</li><li>A. Yes, in part. Again, we rely on consensus and OSHA standards.</li><li>Q. But the workplace in the 1970s was driven by</li></ul>
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2 3 4 5 6 7	<ul><li>Idaho National Lab.</li><li>Q. So what does the Idaho National Lab do?</li><li>A. Well, basically, it's a nuclear research</li><li>facility. So at one time, that's were they trained all</li><li>the naval submarine operators. They had nuclear reactors,</li><li>research reactors, and they would run tests on reactors</li><li>and different things like that.</li></ul>	2 3 4 5 6 7	<ul><li>standards at that time was OSHA, correct?</li><li>A. Yes, in part. Again, we rely on consensus and OSHA standards.</li><li>Q. But the workplace in the 1970s was driven by OSHA, and OSHA was the standard that had to be followed by employers on behalf of employees, correct?</li><li>A. Yes.</li></ul>
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2 3 4 5 6 7 8 9	<ul> <li>Idaho National Lab.</li> <li>Q. So what does the Idaho National Lab do?</li> <li>A. Well, basically, it's a nuclear research</li> <li>facility. So at one time, that's were they trained all</li> <li>the naval submarine operators. They had nuclear reactors,</li> <li>research reactors, and they would run tests on reactors</li> <li>and different things like that.</li> <li>Q. Did you put together an industrial hygiene and</li> <li>safety plan for this Industrial National Lab?</li> </ul>	2 3 4 5 6 7 8 9	<ul> <li>standards at that time was OSHA, correct?</li> <li>A. Yes, in part. Again, we rely on consensus and OSHA standards.</li> <li>Q. But the workplace in the 1970s was driven by OSHA, and OSHA was the standard that had to be followed by employers on behalf of employees, correct?</li> <li>A. Yes.</li> <li>Q. Just to close the loop here, can you think of any other times when you were called upon by any</li> </ul>
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1	A. Well, basically, going out there and helping	1	A. I don't know what his safety responsibilities
2	them conduct sampling for different materials, whether it	2	were.
3	be silica, manganese, different metals; helping them write	3	Q. What's your understanding of his title?
4	programs; helping them devise their personal protective	4	A. I don't know.
5	program, respirators, things like that.	5	Q. How long have you been kind of looking at the
6	Q. When did you start doing that for the foundry?	6	W.R. Grace literature and looking at all the records and
7	A. That's a good question. It probably was, I'm	7	studying W.R. Grace's operation?
8	guessing, sometime in the mid '80 time frame, maybe.	8	A. Over 20 years.
9	Q. Did you provide that service by contract?	9	Q. In the 20 years you've been doing it, you
10	A. No, it was pretty much pro bono work. You	10	don't know what Mr. Kostic does or doesn't do at the mine
11	know, they hire our students. We had student internships,	11	during the 1960s?
12	they'd work out there. We've had students do graduate	12	A. I know he's designed, he's tried to help
13	research projects out there. So it's mainly working with	13	design their controls and work with their ventilation.
14	them through our students, and also working with them	14	Yeah, I've read all the different things he did, the test
15	without students. But I've never charged them a fee. I	15	on the stacks and things like that, sure.
16	think they've donated to the Montana Tech Foundation for	16	Q. And he was their safety person, wasn't he,
17	our work.	17	in-house?
18	Q. Was there any type of scope of work that was	18	A. I guess.
19	devised for you to help the foundry? Did you have a scope	19	Q. You would agree with me, right, that he was
20	of work of what their expectations were?	20	their safety person, in-house safety person?
21	A. It depended on what they needed done. If they	21	A. I guess I never saw it described that way, but
22	needed some monitoring, we would do that. If they needed	22	maybe he was.
23	help on their program for respirators or their safety	23	Q. What's your understanding of who Lovick was?
24	program or health program, we would do that.	24	A. He was a plant manager, I believe.
25	Q. Did they utilize	25	Q. What do you know about him and his background?
	Page 18		Page 20
1	A. We helped them devise some educational	1	A. Well, I read all his depositions.
2	programs for their employees, yeah.	2	Q. So what do those depositions tell you about
3	Q. And that's all driven by OSHA, correct?	3	Mr. Lovick?
4	1980s, it's driven by OSHA?	4	A. I don't remember what they tell me. I'd have
5	A. Well, OSHA would have been part of what we	5	to review his depositions. I haven't reviewed them for
6	tried to comply with, yes.	6	this case.
7	Q. Did they have a safety individual?	7	Q. And you've read all of his depositions over
8	A. No.	8	the last 20 years; is that correct?
9	Q. Okay.	9	A. I've read, I believe, every deposition he's
10	A. Well, they had a consultant who would come in	10	given. I don't know, there may be some I missed. I don't
11	every so often, but they never had a permanent, full-time	11	know.
12	safety person there that I'm aware of.	12	Q. Did you review any Kostic depositions?
13	Q. And you know that W.R. Grace had a full-time	13	A. I don't believe so.
14	safety person in the 1960s; is that correct?	14	Q. Okay.
15	A. No, I'd just seen the records where they	15	A. Not that I remember.
16	recommended, Maryland Casualty recommended that they hire	16	Q. Who was the plant manager during the 1960s at
17	a full-time safety persons. That was in '79 or that	17	W.R. Grace?
18	was in '71.	18	A. Bleich, I believe.
19	Q. So are you telling me today under oath that	19	Q. What do you know about Mr. Bleich?
20	you didn't see any records to indicate that W.R. Grace had	20	A. Well, I read his depositions, and I believe he
21	a full-time safety person?	21	was an engineer.
22	A. They might have had a corporate guy back in	22	Q. Do those depositions tell you anything about
23	Cambridge.	23	his experience with respect to the operation?
24 25	Q. Well, what's your understanding of who	24	A. I mean, I've read what he said in the
25	Mr. Kostic is?	25	different reports that W.R. Grace submitted or published,

	Page 21		Page 23
1	you know, their internal documents, where he would give	1	it, right?
2	summaries of dust conditions, and things like that, yeah.	2	MR. LEFTRIDGE: Objection; form and
3	He's the one who said that he thinks they could get a "5	3	foundation.
4	count" in the town of Libby.	4	THE WITNESS: Yeah, I know that they were
5	Q. When did he say that?	5	relying on Maryland Casualty to devise their dust control
6	A. Pardon?	6	program. And then they knew they weren't going to, Grace
7	Q. When did he say that?	7	knew they weren't going to be able to reach the 5 count,
8	A. I think it would have been in the '69 time	8	so then they apparently worked out something with Maryland
9	frame, if I remember right.	9	Casualty where they would not use that TLV of 5 million
10	Q. Actually talking about "5 count," what is it,	10	particles per cubic foot.
11	ppm, parts per million, the 5 count you're talking about?	11	Q. (By Mr. Longosz) How do you know that they
12	A. No, it's million particles per cubic foot.	12	worked out something with Maryland Casualty?
13	Q. Okay. That 5 count in the town of Libby, you	13	A. Because the documents say what do the
14	saw lots of documents that suggest that the people at	14	documents say?
15	W.R. Grace didn't want the 5 count in the plant; is that	15	Q. Show me the document. Show me the document
16	correct?	16	that says that Maryland Casualty subscribed to anything
17	MR. LEFTRIDGE: Objection; form, foundation.	17	greater than a 5 count and said that's okay. There's no
18	Q. (By Mr. Longosz) Did you see those documents?	18	document that says that, is there?
19	A. I don't ever I don't understand your	19	A. That Maryland Casualty they did not
20	question.	20	recommend 5 million particles per cubic foot later on in
21	Q. Okay. Have you seen documents where	21	their work there, no.
22	W.R. Grace subscribed to the 10 count recommended by the	22	Q. Have you read any Johns-Manville documents in
23	State of Montana in the Libby facility?	23	connection with your review of this case?
24	A. Yeah, it was 10 count, 12 count, I mean,	24	A. I've read the document where the Grace
25	different recommendations based on the percentage of	25	officials went over to the Johns-Manville facility, yes.
	Page 22		Page 24
1	asbestos that Wake was recommending, sure.	1	Q. And where Johns-Manville came to the Grace
2	Q. Right. And, in fact, Maryland Casualty	2	facility?
3	recommended a 5 count; is that correct?	3	A. Yes.
4	A. Yeah, part of Maryland Casualty explained to	4	Q. Okay. And that was during that '68-'69 time
5	Kostic or one of the people, I forget the name, that the	5	frame, correct?
6	TLV of 5 million particles per cubic foot prohibited the	6	A. Yes.
7	consideration of mixtures of dust, so it's basically all	7	Q. Okay. And Maryland Casualty was not invited
8	dust. If it's asbestos containing, it's 5 million	8	to any of those meetings; is that correct?
9	particles per cubic foot.	9	A. That, I don't know.
10	And then he also said in one of his memos that they	10	Q. Well, you saw the documents. Maryland
11	want to use the authoritative TLV, they don't want to	11	Casualty was not copied on any of the documents that came
12	devise their own from the insurance company. And then it	12	out of those meetings, correct?
13	turns out that they ended up using a higher million	13	A. Yeah, I didn't see Maryland Casualty when they
14	particle per cubic foot than the TLV.	14	went to Lompoc, no.
15	Q. So W.R. Grace rejected Maryland Casualty's	15	Q. And you didn't see Maryland Casualty being
16	recommendation; is that correct?	16	copied on the results of the Lompoc visit, correct?
17	A. I don't know if they rejected it. They	17	A. I don't know. I'd have to look and see who
18	referred them to what the State was saying, and then they	18	was copied on what. You know, I don't remember.
19	asked Maryland Casualty to rely on what the State was	19	Q. Well, if I were to tell you they weren't
20	saying. And so then Maryland Casualty agreed they would	20	copied, you would agree with me, right?
21	not refer to the 5 million particles per cubic foot again.	21	A. If you're saying so, I guess I'd have to agree
22	Q. Well, actually, W.R. Grace said they weren't	22	with you. But like I say, I don't pay a great deal of
23	going to follow the 5 count that Maryland Casualty	23	attention to who's copied on what.
24	recommended; is that correct?	24	Q. You don't care who's copied on what?
25	There's ample documentation to show it. You've read	25	A. Yeah, I care, but it's like I'm reading the
		I	

	Page 25		Page 27
1	report and I want to find out what the reports are saying.	1	mention it in the Grace report.
2	Q. Right. But isn't it important for people to	2	Q. Did you do any research to understand what
3	be aware of what is going on in the facility so that they	3	Johns-Manville had at the Lompoc mill in terms of signage?
4	can give appropriate recommendations or advice?	4	A. I did not. I just read the report.
5	A. Sure.	5	Q. Would you say the Lompoc mill was state of the
6	Q. And by the 1960s, 1968-69 time frame, W.R.	6	art in that time frame?
7	Grace was, essentially, keeping Maryland Casualty out of	7	A. It was state of the art for dust control, yes.
8	loop and rejecting their advice and going to	8	Q. Okay.
9	Johns-Manville and others for advice; is that right?	9	A. And worker protection for the dust.
10	MR. LEFTRIDGE: Objection; form, foundation.	10	Q. So the W.R. Grace individuals went to a
11	THE WITNESS: Yeah, I don't know if they were	11	state-of-the-art facility in 1968-69 and understood what
12	rejecting Maryland Casualty's advice or not. I believe	12	state of the art was for controlling dust in a
13	that they were searching for a good way to control the	13	manufacturing facility; is that correct?
14	dust and they weren't getting the advice from Maryland	14	A. Yes, they went to the Lompoc facility and
15	Casualty. That's how I interpret it.	15	looked at how they were controlling dust.
16	Q. (By Mr. Longosz) Right. So 1968 and '69 when	16	Q. And with that, with that visit, it's your
17	Mr. Hutt was employed at this facility, they searched	17	understanding that W.R. Grace ignored what was going on at
18	elsewhere and went to Johns-Manville for advice, right?	18	Lompoc and did not apply that to Libby; is that correct?
19	A. They went to see what their plant was like	19	A. I don't know what they applied, like I say.
20	over there in Lompoc, yeah.	20	Q. Let's go back to some of your background.
21	Q. And in looking at that, what did they learn	21	Have you ever authored a safety plan for a manufacturing
22	about the Johns-Manville plant?	22	facility?
23	A. They learned about how dust is controlled at	23	A. Well, I believe I've already discussed
24	the Johns-Manville plant, including ventilation and vacuum	24	devising safety plans for AFFCO and helping Montana
25	systems and personal cleaning and training, and different	25	Resources, and things like that, yeah.
	Page 26		Page 28
1	things like that. That's what they learned.	1	Q. But that's it, right?
2	Q. And did W.R. Grace in the 1968-69 time frame	2	A. Yeah, Montana Tunnels over there by Basin, I
3	bring any of that learning back to Libby to utilize in	3	did some consulting for them, looked at their program.
4	connection with its operation?	4	Q. I'm not talking looking at their program, I'm
5	A. Well, they published in their internal	5	talking about from the ground up developing and writing a
6	documents, yeah, they talked about going to Lompoc:	6	safety plan for a manufacturing facility. Have you ever
7	Here's how we control the dust.	7	done that?
8	Q. But did they take that information and then	8	A. No. My authorship of writing a program would
9	apply it to the W.R. Grace facility?	9	have been at EG&G, which was not a manufacturing facility,
10	A. Well, they didn't apply vacuum systems, they	10	I assume.
11	didn't apply personal cleaning, they didn't do training,	11	Q. One question: You consider yourself an
12	yeah.	12	industrial hygienist, right?
13	Q. And all of that as the employer is within	13	A. Yes.
14	their control to do; isn't that correct?	14	Q. Do you consider yourself a risk engineer?
15	A. Yes.	15	A. I'm not an engineer.
16	Q. So did any of those visits to the	16	Q. Okay. Do you consider yourself a
17	Johns-Manville facility talk about warning signs or	17	loss-prevention specialist or engineer?
18	signage?	18	A. No. My title is "industrial." That would be
19	A. They didn't talk about warning signs. They	19	working as an industrial hygienist for my entire career.
20	talked about education of the worker, training.	20	Q. Do you know the backgrounds of any of the
21	Q. Okay. And do you know whether Johns-Manville	21	Maryland Casualty individuals who participated in loss
22	at Lompoc was employing any signage for its workers?	22	control services under the workers' compensation policy at
11.7		1 12	the Libby facility?
23	A. I don't know. I know Johns-Manville put their	23	• •
23 24 25	A. I don't know. I know Jonns-Manville put their warning label on asbestos insulation in 1964. I don't know what signage they had at the Lompoc mill. It didn't	23 24 25	A. Well, my understanding in reading the documents is that Maryland Casualty had an accident

	Раде 20		Page 31
1	Page 29		Page 31
1	prevention division, which Park was the head. And he just		her name, Dr. Anna B-A-E-T-J-E-R, John Hopkins School of
2	gave descriptions of how he went to school under or	2	Medicine.
3	went to a class with this person under Harvard, or compating like that	3	(Quoted as read): "And having completed her
4	something like that.	4	course in industrial hygiene at the University, it is still my facing that as angingering progresses, in our
5	And then they also had the engineering section,	5	still my feeling that as engineering progresses, in our
6 7	Smits, and the name of the other guy, I forget. And then they had the inspectors, Walker and Baker. So they had a	7	country, these optimum standards will not only be met, but possibly exceeded.
8	team which would go to different facilities, including	8	"In 1938, when I took the course under Dr." -
8 9	Libby, to do their inspections and reports.	9	I won't pronounce her name - "many of the standards as
9 10	Q. Under the workers' compensation policy,	10	listed by ACGIH were the same as they are today, and very
10	correct?	10	few of them are being met industrially. Today, I am
12	A. I assume, yeah.	12	gratified to see that many of them are not only being met
12	Q. Okay. Do you know if any of those individuals	12	but exceeded.
13	were industrial hygienists like yourself?	13	"From attending local meetings of the American
14	A. Well, Park was.	15	Industrial Hygiene Association, Washington-Baltimore
16	Q. Where did you see or read that Park was an	16	Section, I can assure you that modern means of sampling
17	industrial hygienist?	17	are conducive to even greater progress in future years."
18	A. It says right in can I refer to my report?	18	Q. He talked to an industrial hygienist, but
19	Q. Absolutely. Anytime you need to, you can	19	you've seen nowhere in any of the documents where he's
20	refer to your report, Dr. Spear.	20	holding himself out to be an industrial hygienist like
21	A. This is back to front.	21	yourself; is that correct?
22	Q. Give us the page if you're going to refer to	22	A. Well, I see he's referring to taking a course
23	it.	23	in industrial hygiene
24	A. Well, on page 10 of my report, I refer to	24	Q. Sure.
25	Mr. Park, who was the supervisor, that he's the one most	25	A and going to industrial hygiene
	Page 30		Page 32
1	Page 30 prominent in the Maryland Casualty documents. He was an	1	Page 32 conferences.
1 2		1 2	-
	prominent in the Maryland Casualty documents. He was an		conferences.
2	prominent in the Maryland Casualty documents. He was an industrial hygienist. And I refer to Exhibits 66 and 42.	2	conferences. Q. Right.
2 3	<ul> <li>prominent in the Maryland Casualty documents. He was an industrial hygienist. And I refer to Exhibits 66 and 42.</li> <li>Q. And 66 and 42 are</li> <li>A. In the Spear exhibits.</li> <li>Q what we knew, previously knew as the Spear</li> </ul>	2 3	conferences. Q. Right. A. I don't know. I didn't see his resume, so I
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	Page 33		Page 35
1	all the requirements of that profession, correct?	1	hazards. And, hopefully, that will reduce their losses.
2	A. Yeah. You know, from '85 on, I've been	2	But I don't know, I don't know if it's loss prevention or
3	working primarily in aerosol research, so I kind of	3	not.
4	focused on that, and I got less involved with other	4	Q. Okay. And you've never provided
5	aspects of industrial hygiene like physical hazards or	5	risk-engineering inspection or services for a
6	noise or things like that.	6	manufacturing facility; is that correct?
7	Q. Are you going to be providing opinions in this	7	A. Do you want to define "risk engineering"?
8	case that discuss the standard of care of certified	8	Q. Well, do you know what that is?
9	industrial hygienists?	9	A. Well, I certainly define I certainly go in
10	A. I'm going to be discussing the standards of	10	and establish risk and tell people how we can minimize or
11	care in the field of industrial hygiene, yes.	11	eliminate that risk.
12	Q. Are you aware of whether anybody at Maryland	12	Q. Okay.
13	Casualty who was providing loss prevention for the	13	A. I'm not an engineer.
14	company, for Maryland Casualty during the time frame, the	14	Q. Okay. So you view that as part of your
15	1960 time frame that we're talking about here, was a	15	industrial hygiene background to go and identify risk and
16	certified industrial hygienist?	16	give advice as to how to reduce that risk?
17	A. I don't know.	17	A. Sure.
18	Q. Are you aware of anybody, any individuals at	18	Q. Okay. Do the people that you give that advice
19	Maryland Casualty who were either at the site or providing	19	to, the entities you give advice to, follow your advice
20	input regarding any of the responses to any of the	20	all the time?
21	programs at the site - the "site" being the Libby site -	21	A. Well, we make recommendations and then follow
22	was a certified industrial hygienist?	22	up on those recommendations to see if they've complied.
23	A. I never read any of that, I don't know.	23	Q. But it's up to them to either comply or not
24	Q. Are you aware of whether anybody at Maryland	24	comply and to follow your recommendations or not. You'd
25	Casualty held themselves out as an industrial hygienist?	25	agree with that, right?
	Page 34		Page 36
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1 2	<ul><li>A. I never saw it in any of the records, no.</li><li>Q. Casualty have you ever performed</li></ul>	2	A. Well, generally, yeah. If we have an imminent danger-danger situation, then if you're following the code
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2	<ul><li>A. I never saw it in any of the records, no.</li><li>Q. Casualty have you ever performed loss-prevention inspections or services for any manufacturing facility?</li></ul>	2 3 4	A. Well, generally, yeah. If we have an imminent danger-danger situation, then if you're following the code of ethics of industrial hygiene, then you have to make sure you inform people of an imminent danger situation,
2 3 4 5	<ul><li>A. I never saw it in any of the records, no.</li><li>Q. Casualty have you ever performed</li><li>loss-prevention inspections or services for any</li><li>manufacturing facility?</li><li>A. Again, I performed industrial hygiene</li></ul>	2 3 4 5	A. Well, generally, yeah. If we have an imminent danger-danger situation, then if you're following the code of ethics of industrial hygiene, then you have to make sure you inform people of an imminent danger situation, even though you have to maintain confidentiality of your
2 3 4 5 6	<ul> <li>A. I never saw it in any of the records, no.</li> <li>Q. Casualty have you ever performed</li> <li>loss-prevention inspections or services for any</li> <li>manufacturing facility?</li> <li>A. Again, I performed industrial hygiene</li> <li>services. I don't know however you phrase the word "loss</li> </ul>	2 3 4 5 6	A. Well, generally, yeah. If we have an imminent danger-danger situation, then if you're following the code of ethics of industrial hygiene, then you have to make sure you inform people of an imminent danger situation, even though you have to maintain confidentiality of your work.
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1	Q. And that's on the employer to decide whether	1	A. I know what Westinghouse is talking about what
2	they want to spend the money to comply with those	2	they were doing for warning their employees in my report.
3	recommendations or not; is that correct?	3	Q. In 1968-69?
4	A. Right, but it doesn't cost a lot of money to	4	A. Well, it was earlier than that.
5	put up a sign.	5	Q. But my question went to: Do you know what any
6	Q. I don't believe my question asked about a	6	asbestos-manufacturing facilities were doing in the
7	sign, did it?	7	1968-69 time period with respect to warning signs?
8	A. Well, that's part of loss.	8	A. Not in a plant on a product.
9	Q. No, my question didn't ask about a sign, did	9	Q. Have you ever put together guidelines and
10	it?	10	practices for an insurance company on how to perform
11	A. No.	11	risk-engineering inspections or loss-prevention
12	Q. Okay. My question related to cost, and it is	12	inspections?
13	up to the employer as to whether they want to spend that	13	A. For an insurance company?
14	money or not to follow a recommendation, correct?	14	Q. Yes.
15	A. Yes.	15	A. No.
16	Q. Back in the 1968-69 time frame, what was	16	Q. Have you ever reviewed any guidelines and
17	Johns-Manville recommending with respect to signage at its	17	practices for performing those inspections by insurance
18	manufacturing facilities?	18	companies?
19	A. I never researched, I don't know that.	19	A. I don't believe so.
20	Q. Have you researched to understand what any	20	Q. Do you have any knowledge about the internal
21	asbestos-manufacturing facility did in 1968 and '69 with	21 22	operating procedure of Maryland Casualty with respect to
22 23	respect to signage? A. Well, I know that Johns-Manville, as I already	22	loss-prevention services under a workers' compensation policy in the 1960s?
23 24	said, they had a warning on their insulation, which	23	A. My knowledge would come from the reports, you
25	basically said: Asbestos dust, avoid breathing the dust;	25	know, and how they describe how they had their teams
	customy said. Therefore aust, a tota creating the date,		
	Page 38		Page 40
1	and if you cannot use ventilation, make sure you protect	1	set up with Park the head, and then the engineers and the
2	and if you cannot use ventilation, make sure you protect yourself.	2	set up with Park the head, and then the engineers and the inspectors, and how they were going to design a
	and if you cannot use ventilation, make sure you protect yourself. And then in the Morrell court decision, the Court	2 3	set up with Park the head, and then the engineers and the inspectors, and how they were going to design a comprehensive industrial hygiene program.
2 3 4	and if you cannot use ventilation, make sure you protect yourself. And then in the Morrell court decision, the Court ruled that that was they called it "black humor,"	2 3 4	set up with Park the head, and then the engineers and the inspectors, and how they were going to design a comprehensive industrial hygiene program. MR. LONGOSZ: Could you read back the
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	Page 41		Page 43
1	insuring against asbestosis, I don't know if there's a	1	Q. Do you recall whether it did or didn't?
2	specific policy, no.	2	A. I'd have to review it again.
3	Q. Have you reviewed the workers' compensation	3	Q. Did you take that in consideration in
4	policy in this case?	4	connection with the opinions you're giving here today as
5	A. I've looked through the Hutt exhibits and read	5	to what the scope of work of Maryland Casualty was at the
6	through the policy, yeah.	6	site?
7	Q. So you've reviewed the actual workers'	7	A. I took into consideration what they were
8	compensation policy for this case?	8	saying in their documents to Grace, and what they were
9	A. I believe it was in the very first part of the	9	going to do in terms of developing a comprehensive
10	Hutt exhibits, I think. I'd have to go look and look at	10	industrial hygiene program. That's what I considered.
11	it.	11	Q. Okay. So, really, the consideration for your
12	Q. What Hutt exhibits are you talking about?	12	opinions in this case is derived from that, what you call
13	A. Just the list of what was called "Hutt." It	13	the "comprehensive safety plan"; is that right?
14	was a PDF document and it just had it was numbered	14	A. No, what they called the "comprehensive safety
15	pages.	15	program."
16	Q. Bates numbers down at the bottom?	16	Q. Well, does it say "comprehensive safety
17	A. Yeah.	17	program"?
18	Q. Okay. In terms of the insurance policy, do	18	A. It says "comprehensive industrial hygiene
19	you remember what it said with respect to any type of loss	19	program," yes.
20	prevention, risk-engineering services, or inspections that	20	Q. Okay. And that program was to be for all
21	were performed at W.R. Grace?	21	facilities or just Libby?
22	MR. LEFTRIDGE: Objection; form.	22	A. No, it was for other facilities. They were
23	THE WITNESS: Yeah, I reviewed what they were	23	looking at Wilder, Kentucky, and different places like
24	going to they, basically, set up, devised a safety	24	that, sure.
25	program. Then they did inspections three or four times a	25	Q. Right.
	Page 42		Page 44
1	•	1	-
1 2	year. And then they left a copy of that report with W.R.	1 2	-
	year. And then they left a copy of that report with W.R. Grace, and then they brought a copy back to their home		A. They were trying to get into look at South
2	year. And then they left a copy of that report with W.R. Grace, and then they brought a copy back to their home office, and then they sent service letters relating to	2	A. They were trying to get into look at South Carolina, or wherever the other facilities were. I don't
2 3	year. And then they left a copy of that report with W.R. Grace, and then they brought a copy back to their home	2 3	A. They were trying to get into look at South Carolina, or wherever the other facilities were. I don't remember all of them.
2 3 4	year. And then they left a copy of that report with W.R. Grace, and then they brought a copy back to their home office, and then they sent service letters relating to their recommendations. They had a time frame for Rupp - I	2 3 4	<ul><li>A. They were trying to get into look at South</li><li>Carolina, or wherever the other facilities were. I don't</li><li>remember all of them.</li><li>Q. Have you seen any documentation that the plan</li></ul>
2 3 4 5	year. And then they left a copy of that report with W.R. Grace, and then they brought a copy back to their home office, and then they sent service letters relating to their recommendations. They had a time frame for Rupp - I think it was Rupp - some of these other guys to respond to	2 3 4 5	<ul><li>A. They were trying to get into look at South</li><li>Carolina, or wherever the other facilities were. I don't remember all of them.</li><li>Q. Have you seen any documentation that the plan was accepted and implemented by W.R. Grace?</li></ul>
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	Page 45		Page 47
1	sir?	1	referring to.
2	A. No, sir.	2	Q. (By Mr. Longosz) No one has seen it so that's
3	Q. Well, read into the record what it says.	3	why I'm asking you.
4	A. "Last Friday, October 30, Mr. Gerlinger met	4	A. All right.
5	with Mr. Rupp and Mr. MacArthur and it is my understanding	5	Q. Okay. So, then, the second question from that
6	came to final agreement on a format for the proposed	6	is: Can you show me documents where W.R. Grace
7	Zonolite Division Safety Program. Mr. Gerlinger is now in	7	specifically refers to the following of this program?
8	the process of preparing this program for submission to	8	A. Well, there's a document where Mr. Rupp is
9	your people in Baltimore. It should be in your hands by	9	talking to Nelson saying that Maryland Casualty is
10	the end of this week."	10	formulating a program for dust control at the facility.
11	Q. Okay. So my question is: That's the format	11	Q. Okay, formulating. So show me a document, if
12	of the program, it's not acceptance. There's no final	12	it exists, to support your opinions that W.R. Grace and
13	program and no acceptance of that program contained within	13	Maryland Casualty were subscribing to a program.
14	that letter; is that correct?	14	A. Well, my opinion, based on reading the
15	A. Yeah, this is the format.	15	documents
16	Q. Okay. So show me the document which says that	16	Q. Not "opinion," I want fact. My question's
17	that program was accepted and implemented by W.R. Grace.	17	fact. I'm sorry to interrupt, but my question is fact.
18	A. Yeah, that's what I reference in my report was	18	MR. LEFTRIDGE: Excuse me, Mr. Longosz, please
19	that Exhibit 32.	19	offer the courtesy of Mr. Speare being able to answer.
20	Q. Okay. So you have seen no records and no	20	MR. LONGOSZ: I will. I apologize.
21	documentation that the program that you reference was	21	Q. (By Mr. Longosz) Do you understand my
22	accepted and implemented by W.R. Grace; is that correct?	22	question?
23	A. Well, it refers to Bates numbers, the next	23	A. Yes. I mean, reading the documents, my
24	numbers at the Bates stamp sequence after 31. Then it	24	opinion is that they formulated this plan, and then they
25	says (quoted as read):	25	went through a series of inspections over the years and
	Page 46		Page 48
1	"Grace implemented the Maryland Casualty	1	Page 48 made recommendations to W.R. Grace.
2	"Grace implemented the Maryland Casualty safety program and the documents show that in many	1 2	•
	"Grace implemented the Maryland Casualty safety program and the documents show that in many instances Grace cooperated with the program and their		made recommendations to W.R. Grace.
2	"Grace implemented the Maryland Casualty safety program and the documents show that in many instances Grace cooperated with the program and their recommendations."	2	<ul><li>made recommendations to W.R. Grace.</li><li>Q. There is no document that exists after the formulation of the plan that shows that the plan actually went into existence for implementation; is that correct?</li></ul>
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1	-	1	compensation?
1 2	they referred back to the plan. They referred to recommendations as to what they should be doing.	2	A. Well, they referred to the reports in their,
3	Q. (By Mr. Longosz) Okay. Now, with respect to	3	some of their correspondence. I don't remember the dates
4	this plan, I'm trying to understand just in sort of an	4	when they did it.
5	encapsulated way the areas that you're testifying. I'm	5	Q. Well, at any time while preparing this
6	looking at the summary of opinions on page 4 of your	6	proposed plan, did Maryland Casualty have the benefit of
7	report.	7	the state reports?
8	A. Okay.	8	A. At any time?
9	Q. So is it correct to say that one opinion is	9	Q. While preparing the plan, the proposed plan in
10	that you take issue with the plan that was formulated, is	10	1963-64, did Maryland Casualty have the benefit of those
10	that correct, proposed plan?	11	state reports?
12	A. Their safety program, yes.	12	A. I don't have specific information when they
12	Q. And we'll tease out some specifics, but what	12	say the state reports. I would hope they'd have them
13	is it in particular that you don't like about this	13	initially, but (pause.)
14	proposed plan?	15	Q. And you would hope that W.R. Grace would have
16	A. Well, specifically, I mean, they knew at the	16	provided them to them, correct?
17	time that dust, asbestos dust was the principal hazard and	17	A. Well, I'm sure that they could have gone to
18	that workers where sick because of the exposure to	18	the State of Montana and got them themselves, but I don't
19	asbestos. And, consequently, their safety program never	19	know.
20	mentioned "asbestos."	20	Q. But you would have hoped that the employer,
20	It talked about training in housekeeping and	20	W.R. Grace, would have provided all the information it had
21	something else, but it never really mentioned any training	22	to Maryland Casualty; is that correct?
23	as to how to protect so that the workers could protect	23	A. Well, they say in the Maryland Casualty
23	themselves from the dust. The respirator program was	24	documents that they were provided all the information they
25	essentially nonexistent that I could see.	25	needed from Mr. Rupp to develop the safety program.
23	essentially holexistent that I could see.	20	
	Page 50		Page 52
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1	A. Specifically?	1	W.R. Grace documents to understand what their training
2	Q. Right.	2	program was for workers in the 1960s?
3	A. No.	3	A. Well, I've looked through a lot of W.R. Grace
4	Q. So just to be clear, you take issue with the	4	documents. I saw no reference to training.
5	fact that while "dust" and "dust control" was mentioned in	5	Q. Did you ever make a request through the 20
6	this proposed plan, the word "asbestos" was not; is that	6	years that you've been doing this to W.R. Grace for
7	correct?	7	information concerning the training program that W.R.
8	A. That's one of them, yes.	8	Grace had for workers in the 1960s?
9	Q. Okay. And you also acknowledged that W.R.	9	A. Did I make a request of W.R. Grace?
10	Grace at the time of the proposed plan knew that asbestos	10	Q. Yes, sir.
11	was in the dust, correct?	11	A. No.
12	A. Yes.	12	Q. Did you ever request that a request should be
13 14	<ul><li>Q. So what's the second issue?</li><li>A. Again, the training just talked about training</li></ul>	13 14	made of W.R. Grace to understand what training that they
14 15	associated with housekeeping. It didn't talk about	14	were doing for workers in the 1960s? A. Yeah, I requested that I be provided with
16	training pertaining to really specific dust hazards.	15	documents from W.R. Grace, which I was. I looked through
17	Again, it didn't prescribe respiratory protection that	17	thousands of documents on W.R. Grace and don't recall
18	would have been adequate for sure.	18	seeing anything on training.
19	Q. So the plan talked about training, but in your	19	Q. Do you have any understanding of what the
20	view, it should have talked about part of that training	20	unions were saying about dust in the 1960s at the Libby
21	should have been about dust hazards?	21	facility?
22	A. Yes.	22	A. Well, I know that there were requests from
23	Q. Do you know what training with respect to	23	Bundrock, or whoever the person was, to get more
24	housekeeping was provided by W.R. Grace in the 1963-64-65	24	information on the dust and things like that. I haven't
25	time frame?	25	seen any specific union meeting records or anything.
	Page 54		Page 56
1	Page 54 A. That was provided by W.R. Grace?	1	Page 56 Q. Did you ever make any inquiry regarding
1 2		1 2	Q. Did you ever make any inquiry regarding information from union meetings regarding the dust at the
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	Page 57		Page 59
1	letter.	1	Q. But the case was in litigation. You knew
2	Q. And who did they make the inquiry of?	2	that?
3	A. I thought it was made to Grace, but I don't	3	A. Right.
4	remember specifically.	4	Q. And you didn't preserve your notes?
5	Q. Did Grace respond to that inquiry?	5	A. I may have scribbled notes, I don't know. I
6	A. I don't know.	6	know that my procedure is to do an interview, then
7	Q. Do you know whether the union ever told any of	7	transcribe them so everything is fresh so that I have a
8	its members that there was asbestos in the dust at W.R.	8	readable copy, and then that's what I work off of.
9	Grace?	9	Q. But as you sit here today, you don't know
10	A. Well, they never told Mr. Hutt.	10	whether you have your notes or not?
11	Q. I didn't ask about Mr. Hutt. My question is:	11	A. I don't remember physically. You know, I've
12	Do you know if the union told any of its members that	12	got thousands of interviews with people and which ones I
13	there was asbestos in the dust at W.R. Grace?	13	could find, I don't know.
14	A. Not that I'm aware of.	14	Q. Just so for organizational purposes, do you
15	Q. Mr. Hutt actually said that he went to union	15	keep like a folder or a file particular to a case?
16	meetings but he doesn't remember anything about what they	16	A. Yes.
17	talked about at the union meetings.	17	Q. Okay. So it would be easy for you to go look
18	A. Right, I think he said he went to the union	18	in the Hutt file to see whether your notes of Mr. Hutt's
19	meetings once in a while.	19	interview are in there because that's specific to this
20	Q. So you don't know whether they told Mr. Hutt	20	case?
21	or not because you don't know whether he was at a meeting	21	A. Sure, I'd be happy to look.
22	when they talked about asbestos, if they did, in the dust	22	Q. Okay. You didn't look before today?
23	at W.R. Grace, correct?	23	A. Like I say, I provided the transcribed notes
24	A. What Mr. Hutt said was he was never told that	24	that went into my report.
25	there was asbestos, and that it was farm dust, and like	25	Q. Well, the transcribed notes are in your
	Page 58		Page 60
			0
1	hundreds of other workers were told the same thing: "It's	1	report.
1 2	hundreds of other workers were told the same thing: "It's nontoxic, it's not going to hurt you."	1 2	report.
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	Page 61		Page 63
1	in Libby?	1	(A brief recess was taken.)
2	A. He lived in Troy.	2	BY MR. LONGOSZ:
3	Q. How far is Troy?	3	Q. So, Dr. Spear, we were looking at this
4	A. Oh, it's down the road about probably ten	4	proposed safety plan which is marked in the common exhibit
5	miles, maybe, from Libby.	5	book MCE-036.
6	Q. Would you suggest that Mr. Hutt had any	6	A. Right.
7	exposure outside of just his 18 months in the Libby mine,	7	Q. So you have that in front of you. So we were
8	community exposure?	8	talking about the plan never mentioned "asbestos," and we
9	The fact that he lived ten miles, or so, from Libby,	9	went and talked about dust and those sorts of things.
10	would he have had exposure through the environment?	10	The second thing is that it talked about training,
11	A. Oh, it's possible. You know, he also said	11	but it didn't specify the type of training, correct, the
12	that he at one time got bags of vermiculite that he put	12	safety plan?
13	into his garden.	13	A. Yes.
14	Q. Right.	14	Q. Okay. Then the third thing that I have in my
15	A. Sure.	15	notes is "respirators." Does the safety plan talk about
16	Q. What is the radius that you consider to be a	16	respirators?
17	community exposure radius?	17	A. It mentions "respirators." Prior to that, now
18	A. For Libby?	18	that I've had a chance to review, you know, their safety
19	Q. Yeah.	19	program did not include, basically, work practice
20	A. I know Troy is an operable unit just like	20	controls. I mean, that's what we do in industrial hygiene
21	Libby and some of the other ones are, so we know that	21 22	is we start with the hierarchy of controls, engineering controls, and then in combination with administrative
22	there was insulation there; that they used it in their	22 23	
23 24	houses, some people did. So there was contamination from traffic and things like that, so, yeah.	23	controls, which would include prohibition of dust-disturbing activities like brooms or air hoses. They
24 25	Q. How about airborne contamination like in the	24	never ever addressed that issue because Mr. Hutt was still
25	Q. How about anothe containination like in the	23	never ever addressed that issue because ivit. Hutt was still
	Page 62		Page 64
1			
1	wood or trees, that sort of thing?	1	using air hoses and brooms when he was working there.
2	A. Well, I mean, there was contamination, you	2	Well, they talk about control dust, but they didn't
2 3	A. Well, I mean, there was contamination, you know, that went out, I guess, within 18 miles from the	2 3	Well, they talk about control dust, but they didn't really have a very adequate control for dust such as using
2 3 4	A. Well, I mean, there was contamination, you know, that went out, I guess, within 18 miles from the mine in all directions. You know, it's been found in bark	2 3 4	Well, they talk about control dust, but they didn't really have a very adequate control for dust such as using baghouses instead of cyclones.
2 3 4 5	A. Well, I mean, there was contamination, you know, that went out, I guess, within 18 miles from the mine in all directions. You know, it's been found in bark of trees, Flower Creek, which is the opposite side of	2 3 4 5	Well, they talk about control dust, but they didn't really have a very adequate control for dust such as using baghouses instead of cyclones. Let me just look real quick here (perusing
2 3 4 5 6	A. Well, I mean, there was contamination, you know, that went out, I guess, within 18 miles from the mine in all directions. You know, it's been found in bark of trees, Flower Creek, which is the opposite side of Libby, so, yeah.	2 3 4 5 6	Well, they talk about control dust, but they didn't really have a very adequate control for dust such as using baghouses instead of cyclones. Let me just look real quick here (perusing document.) Their safety program did address or mention
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$\begin{array}{c} 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 12\\ 13\\ 14\\ 15\\ 16\\ 17\\ 18\\ 19\\ 20\\ 21\\ 22\\ 23\\ \end{array}$	<ul> <li>A. Well, I mean, there was contamination, you know, that went out, I guess, within 18 miles from the mine in all directions. You know, it's been found in bark of trees, Flower Creek, which is the opposite side of Libby, so, yeah.</li> <li>Q. So he's within that 18 miles?</li> <li>A. Probably close, yeah.</li> <li>Q. Would you say that Mr. Hutt had any community exposure or exposure outside of the mine?</li> <li>A. I think you just asked me about community exposure. I said, "It's possible."</li> <li>Q. Okay. So we talked about it never mentioned "asbestos." We talked about they had talked about a training program but it wasn't specified what that program should be, correct?</li> <li>A. Right.</li> <li>Q. Okay.</li> <li>A. Can I see a copy of the safety program, Exhibit 30?</li> <li>Q. Oh, sure.</li> <li>A. I'll spend some more time on it to refresh my memory.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Well, they talk about control dust, but they didn't really have a very adequate control for dust such as using baghouses instead of cyclones.</li> <li>Let me just look real quick here (perusing document.) Their safety program did address or mention requiring employees to shower before going home, but they never ever enforced that, and we know that Grace never did have a shower facility.</li> <li>Q. So the employer, W.R. Grace, never enforced that?</li> <li>A. It was never mentioned in any of the Maryland Casualty inspection reports, either.</li> <li>Q. Well, Maryland Casualty was only there, at best, four times a year.</li> <li>A. Right.</li> <li>Q. There was no expectation they'd be there more than that, and that W.R. Grace was there every day, correct?</li> <li>A. Right.</li> <li>Q. And W.R. Grace did not it is up to W.R.</li> <li>Grace to enforce the safety plan, correct, implement it and enforce it as the employer?</li> </ul>

	Page 65		Page 67
1	And it was never referred to, again, in any inspection	1	disconnect here.
2	reports.	2	MR. LONGOSZ: But if you could read back the
3	Q. Can you show me where it says "industrial	3	question.
4	hygiene" in the safety plan? It doesn't say an	4	(The record was read by the court reporter as
5	"industrial hygiene plan," does it?	5	follows:
6	A. Well, they were designing a comprehensive	6	"QUESTION: And they were not contemplated to
7	safety program, which includes a comprehensive industrial	7	be on the management committee because they didn't have
8 9	hygiene program. That's what they said they were going to do.	8	any management or control authority over this facility; is that right?")
10	Q. But what I'm asking you is: MCE-036 does not	10	Q. (By Mr. Longosz) "Yes" or "no"?
11	mention an industrial hygiene program. The title of it is	11	A. I'm not going to answer a yes-or-no question.
12	"Safety Program and Organization." Isn't that the title?	12	The documents say that this company was relying on our
13	A. Yes.	13	recommendations. This is a risk that needs our
14	Q. Okay. So with that title, that sets up safety	14	recommendations, so feel free to make recommendations. So
15	committees, correct?	15	that's what I take to mean Grace was relying on Maryland
16	A. Correct.	16	Casualty regarding their industrial hygiene program.
17	Q. And within that under safety committees, it	17	Q. Dr. Spear, again, who managed the Libby
18	sets up a management committee, correct?	18	facility? Who managed it on a daily basis from an
19	A. Right.	19	operational standpoint?
20	Q. So the management committee has individuals on	20	A. It was Grace.
21	it such as the manager, system manager, it has	21	Q. Okay. Who controlled all aspects of the W.R.
22 23	superintendents, department heads, it also has employees that are supposed to sit on the safety committee or	22 23	Grace facility day to day? A. It was W.R. Grace's facility looking for
23 24	management committee, correct?	23	outside support to help them in industrial hygiene.
24	A. Yes.	25	Q. Dr. Spear, again, who controlled the
			2. 2. spom, «gam, «no comonos no
	Page 66		Page 68
1	Q. And because it was unionized, Maryland	1	operations of the W.R. Grace facility day to day?
2	Casualty in the proposal suggested that unions should be	2	A. W.R. Grace.
3	invited to serve on the committee as well, right?	3	Q. On page 2, No. 5, it says the management
4	<ul><li>A. It does mention the union there, yeah.</li><li>Q. Do you know whether W.R. Grace and no</li></ul>	45	safety committee. Do you know whether W.R. Grace ever set
5 6	Maryland Casualty people were on this management	6	up a management safety committee? A. We're on page 2?
7	committee, correct?		Q. Yes, sir.
8	A. No. They reported to you know, Maryland	8	A. I do not read where they established a
9	Casualty made the recommendations and then provided	9	management committee or not.
10	service letters based on their recommendations.	10	Q. Okay. Then it talks about an operating safety
11	Q. But Maryland Casualty was not on the	11	committee. Who is to be on the operating safety
12	management committee.	12	committee?
13	A. I didn't see them on the management committee.	13	A. It says (quoted as read): "The manager or
14	Q. Okay. And they were not contemplated to be on	14	assistant manager shall immediately appoint in writing,
15	the management committee because they didn't have any	15	with copy of a personnel file, an operating safety
16		16	committee consisting of a member of the management
	management or control authority over this facility; is		
17	that right?	17	committee to serve as chairman and six foremen or
18	that right? A. They were developing the industrial hygiene	17 18	supervisors."
18 19	<ul><li>that right?</li><li>A. They were developing the industrial hygiene</li><li>Grace didn't have an industrial hygienist, and they were</li></ul>	17 18 19	supervisors." Q. Maryland Casualty is not part of this
18 19 20	<ul><li>that right?</li><li>A. They were developing the industrial hygiene</li><li>Grace didn't have an industrial hygienist, and they were</li><li>relying on Maryland Casualty to provide industrial hygiene</li></ul>	17 18 19 20	supervisors." Q. Maryland Casualty is not part of this operating safety committee; is that correct?
18 19 20 21	that right? A. They were developing the industrial hygiene Grace didn't have an industrial hygienist, and they were relying on Maryland Casualty to provide industrial hygiene services. The documentation is very clear.	17 18 19 20 21	supervisors." Q. Maryland Casualty is not part of this operating safety committee; is that correct? A. Well, it doesn't mention Maryland Casualty,
18 19 20	<ul><li>that right?</li><li>A. They were developing the industrial hygiene</li><li>Grace didn't have an industrial hygienist, and they were</li><li>relying on Maryland Casualty to provide industrial hygiene</li></ul>	17 18 19 20	<ul> <li>supervisors."</li> <li>Q. Maryland Casualty is not part of this</li> <li>operating safety committee; is that correct?</li> <li>A. Well, it doesn't mention Maryland Casualty,</li> <li>no.</li> </ul>
18 19 20 21 22	<ul> <li>that right?</li> <li>A. They were developing the industrial hygiene Grace didn't have an industrial hygienist, and they were relying on Maryland Casualty to provide industrial hygiene services. The documentation is very clear.</li> <li>Q. Dr. Spear, I'll ask the court reporter to read</li> </ul>	17 18 19 20 21 22	supervisors." Q. Maryland Casualty is not part of this operating safety committee; is that correct? A. Well, it doesn't mention Maryland Casualty,
18 19 20 21 22 23	<ul> <li>that right?</li> <li>A. They were developing the industrial hygiene Grace didn't have an industrial hygienist, and they were relying on Maryland Casualty to provide industrial hygiene services. The documentation is very clear.</li> <li>Q. Dr. Spear, I'll ask the court reporter to read back the question, and if you could answer my question.</li> </ul>	17 18 19 20 21 22 23	supervisors." Q. Maryland Casualty is not part of this operating safety committee; is that correct? A. Well, it doesn't mention Maryland Casualty, no. Q. Okay. And with respect to the operating

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	Page 69		Page 71
1	Q. It says: "Members of the operating safety	1	A. Well, I read the inspection reports, the
2	committee shall have the authority and responsibility to	2	service reports. There were outstanding recommendations
3	notify the foreman in charge of any emergency arising out	3	that weren't followed. I read different things.
4	of any unsafe acts or conditions."	4	Q. I'm looking at page 16, IX.
5	Would you say working with high levels of dust and	5	A. Sixteen.
6	asbestos in dust is an unsafe act or condition?	6	Q. Actually, before that, I apologize, let's
7	A. It's an unsafe condition, yes.	7	start at page 12, VII. There's a section that talks about
8	Q. And do you see anywhere where W.R. Grace, as	8	safety standards and rules and procedures. Do you see
9	part of this safety plan and as part of the operating	9	that?
10	safety committee, notified the foreman in charge of such	10	A. Yes.
10	unsafe acts or conditions?	10	
11		12	Q. And that would be part of any safety program,
	A. That specifically, no.		correct?
13	Q. And do you take issue with the fact that it's	13	A. It would, yes.
14	a good practice to have a management committee and a	14	Q. Okay. And contained within an appropriate
15	safety committee as part of your safety program? Is that	15	safety program would be things enumerated here like
16	correct?	16	electrical wiring and grounding; inflammable storage and
17	A. I think safety committees are common, yes.	17	handling; transportation and storage and use of
18	Q. Okay. So on page 5, letter "D," Zonolite	18	explosives; manless elevator skips; cranes, derricks, and
19	Division Monthly Report (quoted as read):	19	hoists; head, eye, and respiratory equipment; exhaust
20	"Zonolite Division monthly accident report	20	systems; sanitation; fired and unfired pressure vessels;
21	will be submitted monthly to the home office with	21	controlled safety devices. All that is appropriately
22	permanent local office review for review of safety	22	included under the safety standards of rules and
23	committees or other recognized authority."	23	procedures, correct?
24	Did the Zonolite division provide a monthly accident	24	A. Yes, the sanitation is one of them.
25	report to its home office?	25	Q. And, then, continuing on, No. 3 talks about:
	Dage 70		Dogo 72
1	Page 70	1	Page 72
1	A. I have to read that real carefully, please.	1	"Standards and codes of applicable national advisory or
2	<ul><li>A. I have to read that real carefully, please.</li><li>Q. Sure.</li></ul>	2	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be
2 3	<ul><li>A. I have to read that real carefully, please.</li><li>Q. Sure.</li><li>A. (Perusing document) I don't know if they</li></ul>	2 3	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied."
2 3 4	<ul><li>A. I have to read that real carefully, please.</li><li>Q. Sure.</li><li>A. (Perusing document) I don't know if they did or they didn't.</li></ul>	2 3 4	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied." You would agree that the U.S. Department of Health,
2 3 4 5	<ul> <li>A. I have to read that real carefully, please.</li> <li>Q. Sure.</li> <li>A. (Perusing document) I don't know if they did or they didn't.</li> <li>Q. Looking at page 6, Accident Analysis, it talks</li> </ul>	2 3 4 5	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied." You would agree that the U.S. Department of Health, U.S. Department of the Interior, Bureau of Mines, State
2 3 4 5 6	<ul> <li>A. I have to read that real carefully, please.</li> <li>Q. Sure.</li> <li>A. (Perusing document) I don't know if they did or they didn't.</li> <li>Q. Looking at page 6, Accident Analysis, it talks about the management of the safety committee again.</li> </ul>	2 3 4 5 6	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied." You would agree that the U.S. Department of Health, U.S. Department of the Interior, Bureau of Mines, State Departments of Labor, Mines, or Health or others existing
2 3 4 5 6 7	<ul> <li>A. I have to read that real carefully, please.</li> <li>Q. Sure.</li> <li>A. (Perusing document) I don't know if they did or they didn't.</li> <li>Q. Looking at page 6, Accident Analysis, it talks about the management of the safety committee again.</li> <li>A. Yes.</li> </ul>	2 3 4 5 6 7	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied." You would agree that the U.S. Department of Health, U.S. Department of the Interior, Bureau of Mines, State Departments of Labor, Mines, or Health or others existing as applicable; local fire or health departments as
2 3 4 5 6 7 8	<ul> <li>A. I have to read that real carefully, please.</li> <li>Q. Sure.</li> <li>A. (Perusing document) I don't know if they did or they didn't.</li> <li>Q. Looking at page 6, Accident Analysis, it talks about the management of the safety committee again.</li> <li>A. Yes.</li> <li>Q. Do you agree that that's a good practice to</li> </ul>	2 3 4 5 6 7 8	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied." You would agree that the U.S. Department of Health, U.S. Department of the Interior, Bureau of Mines, State Departments of Labor, Mines, or Health or others existing as applicable; local fire or health departments as applicable; National Board of Fire Underwriters and
2 3 4 5 6 7 8 9	<ul> <li>A. I have to read that real carefully, please.</li> <li>Q. Sure.</li> <li>A. (Perusing document) I don't know if they did or they didn't.</li> <li>Q. Looking at page 6, Accident Analysis, it talks about the management of the safety committee again.</li> <li>A. Yes.</li> <li>Q. Do you agree that that's a good practice to have the management safety committee and the operating</li> </ul>	2 3 4 5 6 7 8 9	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied." You would agree that the U.S. Department of Health, U.S. Department of the Interior, Bureau of Mines, State Departments of Labor, Mines, or Health or others existing as applicable; local fire or health departments as applicable; National Board of Fire Underwriters and American Standards Association are all appropriate
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2 3 4 5 6 7 8 9 10 11	<ul> <li>A. I have to read that real carefully, please.</li> <li>Q. Sure.</li> <li>A. (Perusing document) I don't know if they did or they didn't.</li> <li>Q. Looking at page 6, Accident Analysis, it talks about the management of the safety committee again.</li> <li>A. Yes.</li> <li>Q. Do you agree that that's a good practice to have the management safety committee and the operating committee looking at and reporting those items?</li> <li>A. As I said, committees are common. It depends</li> </ul>	2 3 4 5 6 7 8 9 10 11	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied." You would agree that the U.S. Department of Health, U.S. Department of the Interior, Bureau of Mines, State Departments of Labor, Mines, or Health or others existing as applicable; local fire or health departments as applicable; National Board of Fire Underwriters and American Standards Association are all appropriate standards and codes to be applied. A. Yes, as well as general principles of
2 3 4 5 6 7 8 9 10 11 12	<ul> <li>A. I have to read that real carefully, please.</li> <li>Q. Sure.</li> <li>A. (Perusing document) I don't know if they did or they didn't.</li> <li>Q. Looking at page 6, Accident Analysis, it talks about the management of the safety committee again.</li> <li>A. Yes.</li> <li>Q. Do you agree that that's a good practice to have the management safety committee and the operating committee looking at and reporting those items?</li> <li>A. As I said, committees are common. It depends on how active they are and how long well they work, but</li> </ul>	2 3 4 5 6 7 8 9 10 11 12	"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied." You would agree that the U.S. Department of Health, U.S. Department of the Interior, Bureau of Mines, State Departments of Labor, Mines, or Health or others existing as applicable; local fire or health departments as applicable; local fire or health departments as applicable; National Board of Fire Underwriters and American Standards Association are all appropriate standards and codes to be applied. A. Yes, as well as general principles of industrial hygiene.
2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A. I have to read that real carefully, please.</li> <li>Q. Sure.</li> <li>A. (Perusing document) I don't know if they did or they didn't.</li> <li>Q. Looking at page 6, Accident Analysis, it talks about the management of the safety committee again.</li> <li>A. Yes.</li> <li>Q. Do you agree that that's a good practice to have the management safety committee and the operating committee looking at and reporting those items?</li> <li>A. As I said, committees are common. It depends on how active they are and how long well they work, but (pause.)</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>"Standards and codes of applicable national advisory or local controlling agencies such as the following will be applied."</li> <li>You would agree that the U.S. Department of Health, U.S. Department of the Interior, Bureau of Mines, State Departments of Labor, Mines, or Health or others existing as applicable; local fire or health departments as applicable; National Board of Fire Underwriters and American Standards Association are all appropriate standards and codes to be applied.</li> <li>A. Yes, as well as general principles of industrial hygiene.</li> <li>Q. Well, it says: "Standards and codes of</li> </ul>
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	Page 73		Page 75
1	in that section.	1	A. Well, no, because it wasn't required. I mean,
2	Q. Yeah, it talks about respirators before that,	2	they didn't make it mandatory in all areas where dust was
3	though. There is a lot of correspondence and many	3	present and they also didn't explain why they needed
4	recommendations made by Maryland Casualty for the use of	4	respirators.
5	respirators, correct?	5	In other words, why is a worker going to wear a
6	A. Well, there were reports stating that they did	6	respirator if he doesn't know what the hazard is, you
7	not yeah, they recommended posting a sign, they also	7	know? It's pretty hard to get him to wear it. That's the
8	recommended posting a warning sign for overhead hazard, a	8	point.
9	Maryland Casualty sign.	9	Q. So W.R. Grace was not telling the worker why
10	Q. I'm talking about respirators.	10	he needed to wear a respirator; therefore, W.R. Grace was
11	A. Right, I'm just talking about their	11	not enforcing that recommendation, correct?
12	recommended signage.	12	A. And neither was Maryland Casualty.
13	Q. I didn't ask about signage, I asked about	13	Q. Well, Maryland Casualty could not enforce the
14	respirators.	14	recommendation because they didn't have any control or
15	A. Yeah, they recommended posting signs. They	15	enforcement power in the mine or in the facility, correct?
16	said workers weren't wearing their respirators and that	16	A. No, but they could have posted warnings.
17	went on into 1970s.	17	Q. Maryland Casualty could not post warnings
18	Q. Right. And W.R. Grace wasn't enforcing that	18	because Maryland Casualty, again, does not have any
19	recommendation; is that correct?	19	control over the facility, correct?
20	A. Yeah, the safety program didn't really	20	A. Then why did they post warnings for overhead
21	include, well, if you're going to provide respirators, we	21	hazard?
22	have to, No. 1, provide the respirator selected based on	22	Q. And you're not asking me the question, I'm
23	the hazard; and we have to have training on how to use the	23	asking you the question. And the question is: Maryland
24	respirator; we have to explain why we're using the	24	Casualty had no control over that facility on an
25	respirator, why we need it; then we go through a fit	25	operational basis day to day to make employees wear
	Page 74		Page 76
1	Page 74	1	Page 76
1	testing to make sure that they're fit; and then we have a	1	respirators; is that correct?
2	testing to make sure that they're fit; and then we have a program to make sure that everybody's following the rules	2	respirators; is that correct? MR. LEFTRIDGE: Objection; form.
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	Page 77		Page 79
1	Q. Right.	1	Q. Again, really, Dr. Spear, I don't need the
2	A. So when they told that to Kujawa, I believe,	2	editorial. I need you to answer the question.
3	he said, "We will get these people in respirators."	3	MR. LONGOSZ: I'll have madam reporter read
4	Q. Do you know what type of respirator Maryland	4	back the question.
5	Casualty recommended?	5	(The record was read by the court reporter as
6	A. I don't. That's part of the problem.	6	follows:
7	Q. You didn't see anywhere in any of the records	7	"QUESTION: And it would have been appropriate
8	or any of the documents the type of respirator that	8	if W.R. Grace provided that type of respirator to Mr.
9	Maryland Casualty was recommending. Is that your	9	Hutt, correct?")
10	testimony?	10	THE WITNESS: It would have been appropriate,
11	A. If I saw it, I don't remember specifically	11	did you say? Yes.
12	what it was.	12	Q. (By Mr. Longosz) Did W.R. Grace ever come back
13	Q. Did you see it?	13	to Maryland Casualty, as far as you know, and ask Maryland
14	A. I never saw any reference to the specific type	14	Casualty to provide a more detailed program other than
15	of respirator in the safety program.	15	what was proposed?
16 17	Q. Did you see any reference to the type of	16	A. Not that I saw.
17 18	respirator that the workers should be wearing in any of	17 18	Q. Okay. Did W.R. Grace ever suggest that they
18 19	the documentation, Maryland Casualty's documentation, that you reviewed?	10	did not know how to implement the proposed program? A. The obvious reference I saw to that is when
20	A. Not that I remember seeing.	20	they had the meeting with one of the Maryland Casualty
20	Q. Okay. Did you talk to Mr. Hutt about the type	20	inspectors and they talked about the safety program. And
22	of respirator he was wearing?	22	Grace said that we've been doing all this stuff and
23	A. Yeah, he said "dust mask."	23	they're waiting for recommendations, or something like
24	Q. Okay.	24	that.
25	A. Like almost all the workers said they had, a	25	Q. So the answer is "no," that other than what
	Daga 78		Dage 80
1	Page 78	1	Page 80
1	paper mask.	1	you just described, there was no suggestion by W.R. Grace
2	paper mask. Q. A paper mask?	2	you just described, there was no suggestion by W.R. Grace that they needed other advice as to how to implement
2 3	paper mask. Q. A paper mask? A. (Nodding head affirmatively.)	2 3	you just described, there was no suggestion by W.R. Grace that they needed other advice as to how to implement specifics, or specific advice regarding each one of the
2 3 4	<ul><li>paper mask.</li><li>Q. A paper mask?</li><li>A. (Nodding head affirmatively.)</li><li>Q. And that's not adequate, correct?</li></ul>	2 3 4	you just described, there was no suggestion by W.R. Grace that they needed other advice as to how to implement specifics, or specific advice regarding each one of the categories in the safety program; is that correct?
2 3	<ul><li>paper mask.</li><li>Q. A paper mask?</li><li>A. (Nodding head affirmatively.)</li><li>Q. And that's not adequate, correct?</li><li>A. In my opinion, no.</li></ul>	2 3 4 5	you just described, there was no suggestion by W.R. Grace that they needed other advice as to how to implement specifics, or specific advice regarding each one of the categories in the safety program; is that correct? A. That W.R. Grace needed more advice?
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	Page 81		Page 83
1	A in their safety program, and then there was	1	A. Didn't work.
2	one report where they were going to install a vacuum on	2	Q. So are you saying that the air, the quality
3	one floor of the dry mill, yeah.	3	and the amount of dust did not go down over the years
4	Q. Okay. So what else is not included?	4	while Maryland Casualty was doing loss control at that
5	A. And, then, the training, we're getting on page	5	facility?
6	21, again, it talks about accident investigation; it talks	6	A. Yes.
7	about training to include human relations, communications.	7	Q. I was looking at page 13 of your report. Do
8	It doesn't mention any health training. It just doesn't	8	you see that little bar graph there?
9	mention anything of how to train these people to keep the	9	A. Yes.
10	dust down so that they aren't exposing themselves.	10	Q. So in 1962 before Maryland Casualty took over
11	Q. Well, management at W.R. Grace knew that you	11	the workers' compensation policy, do you see how high that
12	need to keep the dust down; is that correct?	12	bar is?
13	A. Conceivably, yes.	13	A. Yeah.
14	Q. Well, specifically, yes, correct?	14	Q. Okay. So '63, it's lower; '64, it's lower;
15	A. Yeah, they were told by Wake that they needed	15	'67, it's lower; '68, it springs up a little bit. So are
16	to keep the dust down.	16	you saying that that and you did this, right, this is
17	Q. And, internally, they told themselves they	17	your work?
18	need to keep the dust down, correct?	18	A. Right.
19	A. Yes, "We need to improve working conditions."	19	Q. Okay. So you're saying that that doesn't
20	Q. Yeah.	20	reflect a reduction in the amount of dust, dust samples
21	A. Correct.	21	that were at the Libby facility?
22	Q. So what else?	22	A. Yeah, that's showing a reduction, but then in
23	A. Well, 25, dust control, personal protection,	23	'69, they're talking about the dust is getting worse. And
24 25	work atmosphere with specific contaminants below the threshold limit value and nuisance dust below the maximum	24	then I've got to find my reference to when I looked at all
25	threshold limit value and huisance dust below the maximum	25	those reports.
	<b>D</b> . 00		
	Page 82		Page 84
1	level allowable concentrations are required by the I	1	Yeah, again, if you go to page 33, you can see that
2	level allowable concentrations are required by the I meant to say American Conference of Governmental	2	Yeah, again, if you go to page 33, you can see that there's spikes and there's very little decrease in the
2 3	level allowable concentrations are required by the I meant to say American Conference of Governmental Industrial Hygienists will be maintained at all times, and	2 3	Yeah, again, if you go to page 33, you can see that there's spikes and there's very little decrease in the dust. If you look at the chart on page 34, you know, you
2 3 4	level allowable concentrations are required by the I meant to say American Conference of Governmental Industrial Hygienists will be maintained at all times, and then air discharged into the outer atmosphere will be	2 3 4	Yeah, again, if you go to page 33, you can see that there's spikes and there's very little decrease in the dust. If you look at the chart on page 34, you know, you can see the dust level as being, essentially, high the
2 3 4 5	level allowable concentrations are required by the I meant to say American Conference of Governmental Industrial Hygienists will be maintained at all times, and then air discharged into the outer atmosphere will be controlled at these same limits.	2 3 4 5	Yeah, again, if you go to page 33, you can see that there's spikes and there's very little decrease in the dust. If you look at the chart on page 34, you know, you can see the dust level as being, essentially, high the whole time.
2 3 4 5 6	level allowable concentrations are required by the I meant to say American Conference of Governmental Industrial Hygienists will be maintained at all times, and then air discharged into the outer atmosphere will be controlled at these same limits. And we know that that was never, never accomplished,	2 3 4 5 6	Yeah, again, if you go to page 33, you can see that there's spikes and there's very little decrease in the dust. If you look at the chart on page 34, you know, you can see the dust level as being, essentially, high the whole time. And then when I looked at their dust sampling from
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	Page 85		Page 87
1	Q. Okay.	1	maximum of 5 million particles per cubic foot," and
2	A and then Maryland Casualty did the same	2	that's Hutt 62.
3	thing.	3	"Grace wrote back to MCC stating that they
4	Q. No, Maryland Casualty told them it should be	4	were adhering to the state standards and that 'you
5	five. And there's correspondence and pushback by W.R.	5	continue to measure our performance against a different
6	Grace that said, "We're not going to do that."	6	standard.'
7	You would agree with me?	7	"MCC wrote back, noting that the ACGIH had set
8	MR. LEFTRIDGE: Counsel, you seem to be	8	the standards for dust containing asbestos and this was
9	testifying and misstating the record.	9	the basis of their recommendations. However, in June
10	MR. LONGOSZ: I'm not misstating the record.	10	1966, Maryland Casualty stated that because the State
11	I can assure you, I'm not misstating the record.	11	requirements had been met in controlling the dust, 'it was
12	Q. (By Mr. Longosz) Go ahead, Dr. Spear.	12	agreed that no further reference to our recommendations is
13	A. Park explained to them the correct use of the	13	necessary at this time."
14	TLV. And he said, "We're not going to make up a limit	14	So that's
15	we're going to use the authoritative TLV of 5 million	15	Q. Go on.
16	particles per cubic foot," and then they gave that up.	16	A. (Quoted as read): "Maryland Casualty stated
17	They said, "Well, we'll just go with whatever Grace is	17	'State of Montana public health official has approved a
18	going to do and we don't care if we have sick workers."	18	maximum allowable concentration of 10 million particles
19	Q. Show me the document that says, "We don't care	19	per cubic foot of air as present planned threshold, but at
20	if we have sick workers."	20	the same time stated that 5 million particles per cubic
21	A. Well, the point is that	21	foot should be a management goal and therefore continue to
22	Q. No, no. I want to know. You testified here	22	strive for such control."
23 24	on the record that Maryland Casualty said, "We don't care if we have sick workers." Show me where that document is.	23 24	And I believe that Wake used 12 million particles per cubic foot, not 10, but I would have to review all
24 25	A. There's no document.	24	those documents again.
23	A. There's no document.		mose documents again.
	Page 86		Page 88
1	Q. Okay.	1	Q. And Wake is for the State, correct?
2	<ul><li>Q. Okay.</li><li>A. They didn't say that.</li></ul>	2	<ul><li>Q. And Wake is for the State, correct?</li><li>A. Yes. And MCC-1864 says 10. They talk about</li></ul>
2 3	<ul><li>Q. Okay.</li><li>A. They didn't say that.</li><li>Q. All right. And consistently through the years</li></ul>	2 3	<ul><li>Q. And Wake is for the State, correct?</li><li>A. Yes. And MCC-1864 says 10. They talk about repairing the leaky cyclones and they'll achieve that 5</li></ul>
2 3 4	<ul><li>Q. Okay.</li><li>A. They didn't say that.</li><li>Q. All right. And consistently through the years and through the recommendations, Maryland Casualty has</li></ul>	2 3 4	<ul><li>Q. And Wake is for the State, correct?</li><li>A. Yes. And MCC-1864 says 10. They talk about repairing the leaky cyclones and they'll achieve that 5 million particles per cubic foot.</li></ul>
2 3 4 5	<ul><li>Q. Okay.</li><li>A. They didn't say that.</li><li>Q. All right. And consistently through the years and through the recommendations, Maryland Casualty has always said, "Five is the number."</li></ul>	2 3 4 5	<ul> <li>Q. And Wake is for the State, correct?</li> <li>A. Yes. And MCC-1864 says 10. They talk about repairing the leaky cyclones and they'll achieve that 5 million particles per cubic foot.</li> <li>Q. Can you look at do you have the MCE book?</li> </ul>
2 3 4 5 6	<ul> <li>Q. Okay.</li> <li>A. They didn't say that.</li> <li>Q. All right. And consistently through the years and through the recommendations, Maryland Casualty has always said, "Five is the number." And, consistently, W.R. Grace said, "No, it's 10,</li> </ul>	2 3 4 5 6	<ul> <li>Q. And Wake is for the State, correct?</li> <li>A. Yes. And MCC-1864 says 10. They talk about repairing the leaky cyclones and they'll achieve that 5 million particles per cubic foot.</li> <li>Q. Can you look at do you have the MCE book?</li> <li>Can you look at MCE-074?</li> </ul>
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1	paragraph, W.R. Grace goes on to say:	1	like that.
2	"I can see no reason for further limitation on	2	Q. Again, this is a general guideline, and you
3	us. Mr. Park's recommendations are unreasonable and	3	don't even know whether W.R. Grace implemented or followed
4	impossible and unnecessary."	4	through on the recommendations that were made in
5	And that's the W.R. Grace view of the world; is that	5	connection with the safety plan; is that correct?
6	correct?	6	A. With regard to?
7	A. That's what it says in that reference. Can I	7	Q. The showers, for example.
8	read the entire document?	8	A. They never, they never installed showers, no.
9	Q. You may.	9	Q. Okay.
10	A. (Perusing document) yeah, they just	10	A. Or a change house.
11	mentioned on that second paragraph that they conned	11	Q. A safety plan is only as good as the
12	Mr. Walker out of a copy of a letter or we would never	12	implementation by the employer; is that correct?
13	have known any results.	13	A. Well, it's as good as the implementation and
14	Q. It goes on to say that the samples analysis by	14	the specificity of it, yeah, what has to be done.
15	Maryland Casualty are worthless. They like to do their	15	Q. Well, my question is: The safety plan is only
16	own samples and analysis. And they didn't want to follow	16	as good as the implementation by the employer, correct?
17	and they didn't follow Maryland Casualty's samples and	17	A. Yes, and the
18	analysis, correct?	18	Q. You could have a 60-page safety plan that
19	He's saying they're worthless, correct?	19	tells you what you should do every minute of every hour of
20	A. He said they were worthless, yeah.	20	every day, and unless the employer implements that, that
21	Q. And you'd agree with me that the ACGIH in 1966	21	safety plan is useless, correct?
22	and certainly in 1963 was calling for 5?	22	A. Yeah, you've got to have engineering,
23	A. Yes.	23	education, and enforcement, the three Es of safety.
24	Q. Okay.	24	That's what we used to talk about in the old days.
25	A. Of asbestos containing dust.	25	Q. Right.
1	Page 90		Page 92
1	Q. And, in fact, it was calling for 5 in 1968 and	1	A. You've got to have engineering, you've got to
2	Q. And, in fact, it was calling for 5 in 1968 and '69; is that correct?	2	A. You've got to have engineering, you've got to have education of the workers, and then enforcement.
2 3	<ul><li>Q. And, in fact, it was calling for 5 in 1968 and</li><li>'69; is that correct?</li><li>A. Yes. And then they talked about the</li></ul>	2 3	<ul><li>A. You've got to have engineering, you've got to have education of the workers, and then enforcement.</li><li>Q. And the employer needs to do that.</li></ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>Q. And, in fact, it was calling for 5 in 1968 and '69; is that correct?</li> <li>A. Yes. And then they talked about the percentage of the dust, 40 percent. And then they're talking about the safe the dividing line between safe and unsafe conditions, the range at which controls should be set. So that's what the TLV was, was really a control limit. It was really knowing that it wasn't a fine line between safe and healthful. In fact, many people were criticizing the TLV.</li> <li>Q. But, in fact, what this letter tells you is that W.R. Grace set, for their own purposes, voluntarily set the standards at 10 and weren't going to follow the 5 and saw no reason to follow Mr. Park's recommendation at the 5 limit; is that right?</li> <li>A. Yes.</li> <li>Q. Let's go back to the report. Is there anything else in it? We're talking about the safety plan now. We have sort of these points here that you're bringing up. Is there any other points that you want to bring up relative to that safety plan?</li> <li>A. Going back to my yeah, regarding the change</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. You've got to have engineering, you've got to have education of the workers, and then enforcement.</li> <li>Q. And the employer needs to do that.</li> <li>A. Yeah, it has to be in the safety program.</li> <li>Q. The employer needs to do all of those items, correct?</li> <li>A. Yes.</li> <li>Q. Okay. Do you know whether W.R. Grace followed any of the guidelines or proposed recommendations of the safety plan and implemented them?</li> <li>A. Well, according to Maryland Casualty, they did.</li> <li>Q. Well, according to what you've reviewed, and you've reviewed many W.R. Grace documents over the last 20 years, can you tell me what items of this proposed safety plan were actually followed by W.R. Grace and implemented?</li> <li>A. I can tell you that Maryland Casualty was stating in their reports that Grace was generally cooperative in meeting Maryland Casualty's recommendations. We can look at Exhibits 42, 53, 56, 59. All recommendations were complied with. That's in 60, 70,</li> </ul>

Page 93Page 931trying to comply with Maryland Casualty's recommendations.1Q. Okay.3keep tabling about tecommendation and you've cherry picked1Q. Okay.4C. But you saw nowhere in any recommendation1U. Surgana.51watu to go back to my original question. Did you3the safety program.6do an analysis as to whether W. K. Grace was in compliance1Q. May. And you saw nowhere in any recommendation7with the implementation of the safety plan.1Q. May. And you saw nowhere in any recommendation8Nealth at the W. R. Grace was safety plan.2A. Not that 1 remember.9basically instabled guards, the yh ada guard man over the1111electrical installations and different things like that.1113in the safety program.23414Q. So is it your testimory that all the1115recommendations in the safety program were complied with1116ty W.R. Grace?1117A. All of them? No, I didn't say that. I1118said they-13320Okay. Which ones were not? Did you do an analysis to understand which ones were not?1221A. I dafter. Tjust read their reports at to what were recommendations. Those recommendations made when a Maryland Casaulty2321A. I dafter. Tjust read their reports at to what were recommendations. Those recommendation	<u> </u>			· · · · · · · · · · · · · · · · · · ·
2         Q. Now, my question goes to the safety plan. You         A. But imade recommendations of things out of           4         certain documents for your report.         But you saw nowhere in any recommendation           5         I want to go back to my original question. Did you         6           6         But you saw nowhere in any recommendation           7         With the safety plan aftersess safety and         6           9         Dosically installed guarks, they had a guarket safety and         6           10         basically installed guarks, they had a guarket safety and         7           11         elserie al installations and different things like that.         8           12         So, yeah, they were complied with these recommendations         10           13         in the safety program.         7           14         Q. So is it your restrimory that all the         7           15         recommendations in the safety program were complied with and         7           16         by W.R. Grace?         1           17         A. Idioft enrity. No. I diant say that. 1         1           18         said they         1         7           20         A. I diant remer recommendations         1           18         besit your restery intoin al sais to make for co		Page 93		Page 95
3         keep taiking about recommendation and you've chery-picked         4         0         Bay as workhere in any recommendation           5         T want to go back to my original question. Did you         6         0         Bay as workhere in any recommendation           6         do an analysis as to whether W.R. Grace was in compliance         4         0         Bay as workhere in any recommendation           7         A. Welt, the safety plan adtersed safety and         the safety program.         9         0         Class, And you saw nowhere in any recommendation           10         basically installed guards, they had a guard man over the         0         Not that transmeter if any developed and           11         the safety program.         0         Not that transmeter if any recommendations           12         So, yeah, they were complying with these recommendations         10         Not that transmeter if any recommendations           13         in the safety program.         11         11         11         11           14         Q. So is it your testimony that all the         1         1         11         11           15         recommendations in the safety program.         1         1         11         11           14         Q. Okay. Mich ones were not?         2         Not that 1         1	1	trying to comply with Maryland Casualty's recommendations.	1	Q. Okay.
4       Q. Bit you saw nowhere in yon yon yon ginal question. Did you         6       do an analysis as to whether W.R. Grace was in compliance with the implementation of the safety plan?         7       w.W.H. the safety plan addressed safety and         9       health at the W.R. Grace facility. So, yeah, they         11       electrical insullations and different things like that.         12       So, yeah, they was complied with electrical insullations and different things like that.         13       in the safety program.         14       Q. So is ity our testimony that all the         15       recommendations in the safety program were complied with ad         16       by W.R. Grace?         17       A. All of them? No, I didn't say that. I         18       said they         19       Q. Okay. Which ones were not?         12       A. Candor the safety plan?         18       said they         19       Q. Okay. Which ones were not?         10       on seven not?         12       A. Idon't remension a safety plan?         13       about are recommendations that you're talking         10       G. Ray. Which ones were not?         11       Q. Okay. Mich ones were not?         12       A. I don't remensin a safety plan?	2	Q. Now, my question goes to the safety plan. You	2	A. But it made recommendations of things out of
5       Iwant to go back to my original question. Did you       is         6       do an analysis as to whether W.R. Grace win complance       is         7       A. Welt, the safety plan aftersed safety and       is         8       A. Welt, the safety plan aftersed safety and       is         9       beach at the W.R. Grace facility. So, yeah, they were complying with these recommendations in the safety program.       is         12       So, yeah, they were complying with these recommendations in the safety program.       is         13       Q. So is it your estimory that all the       is         14       Q. So is it your estimory that all the       is         15       recommendations in the safety program.       is         16       by W.R. Grace.       A. All of them? No, I didn't say that. I         18       said they -       Q. Okay. Which ones were con?! Did you do an         19       Q. Okay. Which ones were con?! Did you do an       manalysis to undestand which ones were con?!         24       Q. All right. Because you keep talking       20         25       "recommendadions are not linked. Nowthere in those letters       G. Buy is to to make recommendations.         26       about are recommendations made when a Maryland Casually       1         27       break it ways is anecommendations.       1 <t< td=""><td>3</td><td>keep talking about recommendation and you've cherry-picked</td><td>3</td><td>the safety program.</td></t<>	3	keep talking about recommendation and you've cherry-picked	3	the safety program.
6       do an analysis are to whether W.R. Grace was in compliance       6       that talked about the proposed safety plan, correct?         7       with the implementation of the safety plan?       7       A. Well, the safety plan addressed safety and         9       health at the W.R. Grace facility. So, yeah, they       9       9       When this proposed safety plan was being developed and drafted of any more reference to the safety plan after         11       electrical installations and different things like that.       7       A. Not that Liked about the proposed safety plan was being developed and drafted of any more reference to the safety plan after         13       in the safety program.       10       A. I doftern? No. I didn't say that. I         15       recommendations in the safety program were complied with and 21       10       A. Yeah, we talked about that. I referenced the formulation of the plan.         10       analysis to understand which ones were not?       Did you do an analysis to understand which ones were not?         21       okay. All right. Because you keep talking       7         23       what were recommendations made when a Maryland Casanly       10         24       Q. All right. Because you keep talking       21         25       "recommendations are not linked. Nowhere in thas all or encert?       23         24       Q. By Mr. Longosz) That's a long question. II       24	4	certain documents for your report.	4	Q. But you saw nowhere in any recommendation
7       A. Not that I remember.         8       A. Well, the safety plan addressed safety and health at the W.R. Grace facility. So, yeah, they basically installed guards, they had a guard man over the electrical installations and different things like that.       7       A. Not that I remember?         10       basically installed guards, they had a guard man over the electrical installations and different things like that.       8       Q. Okay. And you saw nothing from W.R. Grace a coepting a final version of a safety plan; is that correct?         12       So, seh, they were complying with these recommendations in the safety program were complied with by W.R. Grace?       11       11       11       11         15       recommendations in the safety program were complied with by W.R. Grace?       13       Q. Yous, wnothing from W.R. Grace a coepting a final version of a safety plan; is that correct?         16       formulation, of the plan.       14       15       N. Liddin't say that. I saw nothing accepted in a final version, correct?         17       A. All of them? No. I didn't say that. I saw othing accepted in a final version, correct?       N. Liddin't say that.       18         12       saw nothing accepted in a final version, correct?       N. Liddin't say that.       18         12       when were recommendations made when a Maryland Casualty       10       N. Liddin't say that.       12         12       secoretriting and makes: recommendations based on the safety	5	I want to go back to my original question. Did you	5	letter or any write-up by Maryland Casualty individual
8       A. Well, the safety plan addressed safety and       9         9       heakit at the W.R. Grace facility. So, yeah, they       9         11       electrical installations and different things like that.       9         12       So, yeah, they were complying with these recommendations       10         13       in the safety program.       11         14       Q. Okay. And you saw nothing since around 1064         15       recommendations in the safety program were complied with the       11         16       by W.R. Grace?       0. Right. We talked about that. I referenced the         17       A. All of them? No.I didn's say that. I       13         18       said they -       0. Right. We talked about that. I referenced the         19       Q. Okay. Which ones were not?       0. Right. We talked about that. I referenced the         10       analysis to understand which ones were core?       10         23       what were recommendations made when a Maryland Casualty       20         24       Q. All right. Because you keep talking       21         25       "recommendations are not linked. Nowhere in those       21         26       Just are recommendations made when a Amyland Casualty       21         26       Just are recommendations are not linked. Nowhere in those       22	6	do an analysis as to whether W.R. Grace was in compliance	6	that talked about the proposed safety plan, correct?
9       health at the W.R. Grace facility. So, yeah, they       9       when this proposed safety plan was being developed and drafted of any more reference to the safety plan after         10       basically installed guards, they had a guard man over the       10       that point in time by W.R. Grace; is that correct?         12       So, yeah, they were complying with these recommendations in the safety program.       11       12         14       Q. So is it your testimony that all the       14       14         15       recommendations in the safety program were complied with and       14       14         16       by W.R. Grace?       14       14         17       A. All of them? No, 1 didn't say that. 1       15       16         18       said they -       18       18       18         19       Q. Okay, Which ones were no?       19       A. Yeah, 1 could only reference what 1 saw.         21       what were recommendations that you're talking       21       see anything referencing a formalization and acceptance of the safety plan, fight?         22       what were recommendations made when a Maryland Casualty to were recommendations mode when a fargy and sate or constilizes throughout the country?       MR. LEPTRIDGE: Objection; form, foundation.         24       Q. Mar ingis and makes recommendations based on what wey save?       11       Q. Okay. Anti in connection with hose vi	7	with the implementation of the safety plan?	7	A. Not that I remember.
10       basically installed guards, they land a guard man over the electrical installations and different things like that.       10       drafted of any more reference to the safety plan after that point in time by W.R. Grace: is that correct?         11       So, yeah, they were complying with these recommendations in the safety program.       10       drafted of any more reference to the safety plan after that point in time by W.R. Grace accepting a final version of a safety plan, is that correct?         12       So, yeah, they were complying with these recommendations in the safety program were complied with the program.       10       drafted of any more reference to the safety plan. after that point in time by W.R. Grace accepting a final version of a safety plan, is that correct?         13       Q. So is it your testimony that all the recommendations in the safety program.       10       drafted of any more reference to the safety plan. after that point in time by W.R. Grace accepting a final version of a safety plan. is that correct?         14       Q. Nay. Which ones were not?       Q. Nay. Which ones were not?       N. Yeah, to clud only reference what I saw.         23       what were recommendation state you're talking       21       see anything referencing a formalization and acceptance of the safety plan, right?         24       Q. All right. Because you keep talking       23       MR. LEFTRIDGE: Objection; form, foundation.         25       'recommendations made when a Maryland Casually wert there on a quartery ban; it has and referering to, kind of used that as a guide. That's addressed	8	A. Well, the safety plan addressed safety and	8	
11       electrical installations and different things like that.       11       that point in time by W.R. Grace: is that correct?         12       So, yeah, they were complying with these recommendations in the safety program.       12       A. I don't remember if I did or not, actually.         14       Q. So is it your testimony that all the       11       that point in time by W.R. Grace is that correct?         15       recommendations in the safety program were complied with 16       14       final version of a safety plan; is that correct?         16       analysis to understand which ones were not?       10 you do an       0. Right. We talked about that. I referenced the formulation of the plan.         17       A. I doith i, list read their reports as to       18       saw nothing accepted in a final version, correct?         18       analysis to understand which ones were complied with and       10       N. Yeah, LEFTRIDGE: Objection; asked and answered.         17       A. I doith i, list read their reports as to       23       MR. LEFTRIDGE: Objection; asked and answered.         18       about are recommendations made when a Maryland Casualty       24       Q. (By Mr. Longosz) Did you make inquiry as to         19       plan, or it doesn't even mention a safety plan; is that       5       and referring to, kind of used that as a guide. That's         26       MR. LEFTRIDGE: Objection; form, founduation.       10       4<	9		9	when this proposed safety plan was being developed and
12       So, yeah, they were complying with these recommendations       12       A. I don't remember if I did or not, actually.         13       in the safety program.       13       Q. You saw nothing from W.R. Grace accepting a         14       Q. So is it your testimony that all the       13       G. You saw nothing from W.R. Grace accepting a         15       recommendations in the safety program were complied with and       13       Q. Naw. Which ones were not?         18       said they -       0. O Kay. Which ones were not?       Did you do an         20       analysis to understand which ones were complied with and       16         21       what were recommended.       20       Q. But just to make for completences, you didn't         23       what were recommendations that you're talking       22       The were mention a safety plan, right?         23       what were recommendations made when a Maryland Casualty       13       MR. LEFTRIDGE: Objection; form, formafutanion         24       Q. All right. Because you keep talking       23       MR. LEFTRIDGE: Objection; form, formafutanion         25       "recommendations made when a Maryland Casualty       14       The were recommendations tased on the safety         26       (By Mr. Longosz) That's a long question. I'll       20       (By Mr. Longosz) That's a long question. I'll         26       (A	10		10	
13       in the safety program.       13       Q. You saw nothing from W.R. Grace accepting a         14       Q. So is it your testimony that all the       14       final version of a safety plan; is that correct?         15       recommendations in the safety program were complied with       14       final version of a safety plan; is that correct?         16       by W.R. Grace?       A. All of them? No, I didn't say that. I       13       Q. Yous saw nothing from W.R. Grace accepting a         17       A. All of them? No, I didn't say that. I       13       Q. Way, Which ones were not?       Q. Use yas to make for correct?         19       Q. Okay, Which ones were not?       14       final version of a safety plan; is that correct?         21       what were recommended.       Q. HI right. Because you keep talking       14       final version of a safety plan, right?         22       what were recommendations that you're talking       23       M. LEFTRIDGE: Objection; saked and answered.         24       Q. All right. Because you keep talking       24       THE WTINESS: Yeah, I mean, if I do, I don't remember it.         25       recommendations are ont linked. Nowhere in those letters say is 'recommendations aced on the safety plan was tilized in connection with say ou're contexp were says this recommendations. Those recommendations aced on the letters of the safety plan at South Carolian wherever it was, and referring to, kind of used that as a guide. That's addresset in	11	electrical installations and different things like that.	11	
14       Q. So is it your testimony that all the       14       final version of a safety plan; is that correct?         15       recommendations in the safety program were complied with all the       14       final version of a safety plan; is that correct?         17       A. All of them? No, I didn't say that. I       15       A. Yeah, we talked about that. I referenced the         18       said they –       Q. Okay. Which ones were not?       14       7         19       Q. Okay. Which ones were not?       14       7       A. Yeah, te talked about formulation, but you saw nothing accepted in a final version, correct?       9       Q. Right. We talked about that. I references that I saw.       20       20       as nothing acceptate of the safety plan, right?         23       what were recommended.       21       22       The version of a safety plan, right?       23       What were recommended.       20       A. Yeth, I could only reference what I saw.         24       Q. All right. Because you keep talking       23       THE WTINESS: Yeah, I mean, if I do, I don't remember it.         25       "recommendations made when a Maryland Casualty       1       24       Q. (By Mr. Longosz) Did you make inquiry as to whether the safety plan and subce in one sto the safety plan; is that correct?         26       MR. LEFTRIDGE: Objection; form, foundation.       20       A. T just remember.       21       A. Sus a				
15       recommendations in the safety program were complied with       15       A. Yeah, Yeah, We talked about that. I referenced the         16       by W.R. Grace?       7       A. All of them? No, I didn't say that. I       16         17       A. All of them? No, I didn't say that. I       18       saw nothing accepted in a final version, correct?         20       analysis to understand which ones were complied with and       19       A. Yeah, I could only reference what I saw,         21       what were recommended.       10       But just to make for completeness, you didn't see anything reference ing a formalization and acceptance of         23       what were recommended.       11       See anything referencing a formalization and acceptance of         24       Q. All right. Because you keep talking       23       MR. LEFTRIDGE: Objection; asked and answered.         24       "recommendations made when a Maryland Casualty       11       MR. LEFTRIDGE: Objection; asket and answered.         25       "recommendations based on the safety plan; is that       2       4       THE WITNESS: Yeah, I mean, if I do, I don't         26       whether the safety plan at South Carolina wherever it ad       any other K. Grace facilities         3       about are recommendations based on the safety       1       4         4       recorert?       A. Yes.       1       2	13			
16       by W.R. Grace?       16       formulation of the plan.         17       A. All of them? No, I didn't say that. I       18       said they         19       Q. Okay. Which ones were not? Did you do an       20       analysis to understand which ones were not?       21         20       analysis to understand which ones were not?       22       A. I didn't. Just read their reports as to       23       What were recommended.       22         23       what were recommended.       23       WR. LEFTRIDGE: Objection; asked and answered.         24       Q. All right. Because you keep talking       23       MR. LEFTRIDGE: Objection; asked and answered.         25       "recommendations are not linked. Nowhere in those letters       24       Q. (By Mr. Longosz) Did you make inquiry as to         3       sees certain things and makes recommendations. Those       2       X. I gist remember reading where Park was talking         3       g. (By Mr. Longosz) Did you make inquiry as to       whether the safety plan at South Carolina wherever it was,         3       about are recommendations are not linked. Nowher in those letters       4         4       G. (By Mr. Longosz) That's along question. Till       5         5       MR. LEFTRIDGE: Objection; form, foundation.       9         9       Q. (By Mr. Longosz) That's along question. Till				
17       A. All of them? No, I didn't say that. I       17       Q. Right. We talked about formulation, but you         18       said they -       .	15			
18       said they -       18       saw nothing accepted in a final version, correct?         19       Q. Okay, Which ones were not? Did you do an analysis to understand which ones were complied with and which ones were not?       A. Yeah, Lould only reference what I saw.         21       A. I didn't. I just read their reports as to which ones were not?       A. I didn't. I just read their reports as to the were recommendation and acceptance of the safety plan, right?         23       What were recommended.       MR. LEFTRIDGE: Objection; asked and answered.         24       Q. All right. Because you keep talking       MR. LEFTRIDGE: Objection; asked and answered.         25       "recommendations made when a Maryland Casualty loss-control person comes to the site once a quarter and section times and makes recommendations. Those recommendations are not linked. Nowhere in those letters does it says it's recommendations based on the safety glan, or it doesn't even mention a safety plan; is that correct?       Q. (By Mr. Longosz) Did you make inquiry as to whether the safety plan was tullized in connection with any other facilities. any other W.R. Grace facilities throughout the country?         10       break it down. You would agree with me that Maryland Casualty went there on a quarterly basis?       9         12       A. Yes.       9       0. Kay. Are safety plan a living document?         12       A. Yes.       10       0. Okay. Are safety plan a living document?         12       A. Yes.       10       0. Okay. Are safety plan a living d		-		I I I I I I I I I I I I I I I I I I I
19       Q. Okay. Which ones were not? Did you do an analysis to understand which ones were complied with and which ones were not?       19       A. Yeah, I could only reference what I saw.         20       analysis to understand which ones were complied with and which ones were not?       Q. But right: us to make for completeness, you didn't searching a formalization and acceptance of the safety plan, right?         21       A. I didn't. I just read their reports as to what were recommendations that you're talking       20         22       A. I didn't. The recommendations that you're talking       21         23       "recommendations made when a Maryland Casualty       1         24       Q. (By Mr. Longosz) Did you make inquiry as to whether the safety plan was utilized in connection with any other facilities, any other W.R. Grace facilities throughout the country?       Page 96         1       about are recommendations based on the safety plan, or it doesn't even mention a safety plan; is that correct?       0. (By Mr. Longosz) That's a long question. I'll         6       plan, or it doesn't even mention a safety plan; is that correct?       Q. (By Mr. Longosz) That's a long question. I'll         7       Q. (By Mr. Longosz) That's a long question. I'll       9       Q. It was a different safety plan.         8       MR. LEFTRIDGE: Objection; form, foundation.       9       Q. It was a different safety plan.         8       Q. Okay. And in connection with those visits, they would make recommendations based on th		•		
20       analysis to understand which ones were complied with and       20       Q. But just to make for completeness, you didn't         21       A. I didn't. I just read their reports as to       21         23       what were recommended.       22         24       Q. All right. Because you keep talking       23         25       "recommended." The recommendations that you're talking       24         26       about are recommendations made when a Maryland Casualty       24         27       about are recommendations made when a Maryland Casualty       1         28       whether thesafety plan, was utilized in connection with sees certain things and makes recommendations.       7         3       sees certain things and makes recommendations.       7         4       correct?       A. Ident in connection with those letters         5       does it says it's recommendations based on the safety       7         6       plan, or it doesn't even mention a safety plan; is that correct?       7         7       A. I gust remember is aliving document?         8       MR. LEFTRIDGE: Objection; form, foundation.       9         9       Q. By Mr. Longosz) That's a long question. TII       9         10       break it down. You would agree with me that Maryland       10         11       Casualty went		5		
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25 reterenced the safety program, not that I saw. 25 requesting Maryland Casualty or anyone else outside of				

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	Page 97		Page 99
1	Maryland Casualty to update the safety plan?	1	Q. Sure.
2	A. Just in terms of the TLV, I guess, would be	2	A. I know that they were recommending warnings
3	the only thing, what they're going to comply with.	3	back in the Merewether days in England. They don't
4	Q. Did you see any evidence in any of the records	4	specifically refer to signage. Yeah, when I get into the
5	you reviewed of W.R. Grace looking to other, whether it be	5	warning literature is really on page 50.
6	entities such as Johns-Manville, or other engineering	6	So warnings should never be used as a substitute for
7	firms to engineer any of the Libby risk?	7	a safeguard if the latter can be devised or a hazard
8	A. Just on the visit to the Lompoc.	8	eliminated. Well, we know that the hazard wasn't
9	Q. That's the only thing you remember seeing?	9	eliminated at Libby.
10	A. As I sit here today, yes.	10	So the signs should point to dangers which cannot
11	Q. Do you recall seeing any evidence or records	11	reasonably be eliminated by engineering improvements.
12	where Maryland Casualty recommended that W.R. Grace	12	Again, they were never able to control the dust and we
13	contact or look elsewhere for engineering assistance?	13	needed to warn the workers.
14	A. Well, they recommended in the safety program	14	Q. You saw where Maryland Casualty told W.R.
15	they're going to incorporate the Bureau of Mines and their	15	Grace that, for example, respirators were not a substitute
16	knowledge on this issue of mining and dust, yeah, so that	16	for controlling dust, correct?
17	would be a place to go.	17	A. I don't remember seeing that. You'd have to
18	Q. Okay. Other than that, did you see anywhere	18	point me to a specific. I've read a lot of documents.
19 20	in any of the records that Maryland Casualty recommended	19	Q. You would agree that respirators are not a substitute for controlling the dust; is that correct?
20 21	to W.R. Grace that it look elsewhere for engineering assistance?	20 21	6
21	A. Not that I remember.	$\begin{vmatrix} 21\\22 \end{vmatrix}$	A. No, they are not. They're the least preferred method of control because we have to rely on the worker.
22	Q. Did the Bureau of Mines do a study of the W.R.	22	Yeah, we need to go with engineering controls,
23	Grace facility?	23	administrative controls, keeping the dust wet. I never
25	A. They did in the beginning of the '70s, yeah.	25	saw any recommendations pertaining to using wet methods
	Page 98		Page 100
1	Q. And you saw no reference to the Bureau of	1	other than, I think, one pertaining to the haul roads
2	Mines doing anything prior to the '70s?	1 1	
		2	· •
3		$\begin{vmatrix} 2\\ 3 \end{vmatrix}$	from Maryland Casualty, and then respirators would be the
3 4	A. Not that I remember.	3	from Maryland Casualty, and then respirators would be the last control.
4	<ul><li>A. Not that I remember.</li><li>Q. Did you look at in the 1960s any literature to</li></ul>	3 4	from Maryland Casualty, and then respirators would be the last control. Q. You saw references where Maryland Casualty
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	Page 101		Page 103
1	know and you haven't looked at that, correct?	1	Q. Okay. And in that connection, and Johns
2	A. Yeah, I mean, warnings are warnings.	2	W.R. Grace met with Johns-Manville research and
3	Q. Okay.	3	engineering representative in developing an industrial
4	A. They apply. We have to warn using the	4	hygiene survey?
5	guidance of these professional organizations. And the	5	A. Yeah, on a specific part?
6	Manufacturing Chemists' Association was the first one that	6	Q. No. I'm just saying you read it, correct?
7	devised the L-1 manual. It basically said we needed to	7	A. Right.
8	warn and it gave the proper signage.	8	Q. Am I correct in summarizing what that is?
9	There were specific companies recommending warning,	9	A. Yeah, they met with JM.
10	but again, it doesn't specify what the sign should say.	10	Q. Right.
11	Any warning would be better than no warning, I guess.	11	A. I don't know exactly what you said.
12	Q. Could you look at MCE-107.	12	Q. Well, you would agree with me that it says the
13	A. MCE-107?	13	purpose of the meeting was to discuss dust problems and
14	Q. Yeah, that's in that booklet there.	14	controls at Zonolite, more specifically at Libby, correct?
15	A. Okay.	15	A. Yes.
16	Q. Do you recall seeing that document?	16	Q. And, in fact, there was a recommendation that
17	A. Yeah. Can I read it?	17	W.R. Grace and Libby, or W.R. Grace, conduct an industrial
18	Q. Sure. That's a document, just for the record,	18	hygiene survey of Libby, correct?
19	dated January 5, 1968, correct?	19	A. Yes.
20	A. Yes.	20	Q. Do you know whether W.R. Grace ever conducted
21	Q. It's from Peter Kostic, W.R. Grace, safety	21	an industrial hygiene survey at Libby pursuant to that
22	engineer to the Zonolite/W.R. Grace home office person,	22	recommendation?
23	R.W. Sterrett; is that correct?	23	A. Whether W.R. Grace did?
24	A. Did you say "safety engineer"?	24	Q. Yes.
25	Q. Well, you said Kostic was a safety	25	A. Specifically, no.
	Page 102		Page 104
1	A. Well, I think you said that. I'm not sure	1	Q. And this is in 1968, January 5, 1968, where
2	what he did, but (pause.)	2	the recommendation to it by one of its industry people or
3	Q. Well, I thought originally okay.	3	company in the industry where they're seeking advice
4	You don't know what Kostic did? After 20 years of	4	suggested to W.R. Grace that it conduct an industrial
5	studying W.R. Grace, you don't know what Kostic did?	5	hygiene survey at Libby?
6	A. Well, I know that they recommended they have a	6	A. Yeah. Grace was collecting their own samples
7	full-time safety guy at the plant, so I assume they didn't	7	at Libby throughout the time, and then they were using
8	have one.	8	their results. Maryland Casualty was collecting samples
9	Q. Well, was Kostic the full-time safety guy?	9	at Libby, and then relying on their own sampling as well
10	A. (Shaking head negatively.)	10	as W.R. Grace's sampling.
11	Q. You don't know?	11	Q. But this specific internal recommendation at
12	A. No.	12	W.R. Grace was that they do an industrial hygiene survey
13	Q. Okay.	13	to be done as soon as possible at Libby.
14	A. (Perusing document) okay.	14	A. Yes.
15	Q. Okay. You've seen that document before,	15	Q. Was that ever done by W.R. Grace, do you know?
16	correct?	16	A. Well, I know they were collecting samples.
17	A. Yeah.	17	Q. Sir, my question is: Do you know whether an
18	Q. And that's a document, an internal Grace	18	industrial hygiene survey was done as soon as possible at
19	document, that talks about their visit to the	19	Libby pursuant to this internal recommendation of Grace?
20	Johns-Manville facility, correct?	20	A. I don't know.
21	A. Yes.	21	Q. Was there any reference in this takeaway from
22	Q. And it's follow-up discussion or	22	the Grace facility where discussions would strike that.
23	recommendations relative to talking with the	23	Was there any recommendation as a takeaway from the
24	Johns-Manville people, correct?	24	discussions with Johns-Manville that signage should be put
25	A. Yes.	25	up or any kind of warnings should be put up in the W.R.
1		1	

	Page 105		Page 107
1	Grace facility, Libby facility?	1	they knew about it from Johns-Manville, correct?
2	A. Well, after, they recommended that employees	2	MR. LEFTRIDGE: Objection; form.
3	should be informed regarding the consequences of inhaling	3	Q. (By Mr. Longosz) "Yes" or "no"?
4	dust particles and the complications.	4	A. Yeah, they never informed Mr. Hutt, I know
5	Q. And it says that in here, right?	5	that.
6	A. Yes. Cancer, it mentions "cancer."	6	Q. Okay.
7	Q. So as of January 5, 1968, W.R. Grace was	7	A. Nobody did.
8	advised by its counterpart, Johns-Manville, and	8	MR. LONGOSZ: I think this is probably a good
9	specifically was internally advising that employees should	9	place to take our lunch break.
10	be advised; is that correct?	10	(The lunch recess was taken from
11	A. Yeah. They weren't advised that by Maryland	11	12:15 p.m. to 1:15 p.m.)
12	Casualty. That's the point of industrial hygiene.	12	BY MR. LONGOSZ:
13	Q. Well, the point is in 1968, W.R. Grace knew,	13	Q. Dr. Spear, we're on the record again. I hope
14	or at least had a recommendation, that they should be	14	you enjoyed your lunch break.
15	telling its employees about the dust and the dangers of	15	A. Yes.
16	the dust; is that correct?	16	Q. Okay. You have the common exhibit book.
17	A. Yes. They should have been telling their	17	Could you look at Common Exhibit 060? It just 60 there.
18	employees when they took over in '63.	18	A. So 60?
19	Q. And we're looking at Mr. Hutt who was employed	19	Q. Yeah, 60. And for the record, could you
20	from '68 to '69. And prior to Mr. Hutt's employment in	20	identify what that exhibit is?
21	1968, W.R. Grace was told that by Johns-Manville and knew	21	A. It's the United States Department of the
22	that it should be advising its employees about the dangers	22	Interior, Bureau of Mines, Health and Safety Activity;
23	of the dust, correct?	23	Health and Safety Inspection Report, Zonolite Strip Mine
24	A. Yeah. They weren't told that by Maryland	24	and Mill, Zonolite Division, W.R. Grace & Company;
25	Casualty who did the industrial hygiene program.	25	February 1-3, 1965.
	Page 106		Page 108
1	Page 106 MR. LONGOSZ: Read back the question.	1	-
1 2	-	1 2	Page 108 Q. That inspection was done at the Libby facility, correct?
	MR. LONGOSZ: Read back the question.		Q. That inspection was done at the Libby
2	MR. LONGOSZ: Read back the question. Q. (By Mr. Longosz) Sir, can you answer my question and not editorialize? Answer my question. A. I'm trying to answer your question.	2	Q. That inspection was done at the Libby facility, correct?
2 3	MR. LONGOSZ: Read back the question. Q. (By Mr. Longosz) Sir, can you answer my question and not editorialize? Answer my question.	2 3	<ul><li>Q. That inspection was done at the Libby facility, correct?</li><li>A. Yes.</li></ul>
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	Page 109		Page 111
1	one time or another. I don't specifically know if I	1	Q. And it also talks about that Kujawa and Lovick
2	reviewed this document for the case or not.	2	served personally on the committee. Do you see that as
3	Q. And this was an inspection done by a	3	well?
4	government entity and totally independent third-party	4	A. Yes.
5	sources; is that correct?	5	Q. Do you see any recommendations or any
6	A. By the Bureau of Mines, I believe.	6	discussion about dust in the facility?
7	Q. Right. And the Bureau of Mines is a	7	A. It just talks about two large fans installed
8	government entity that is familiar with mining operations;	8	in the mill and exhausting.
9	is that correct?	9	Q. Do you see any recommendations or any
10	A. Yes.	10	suggestions of the lack of signage in the facility or
11	Q. And it's familiar with what goes on during a	11	warnings?
12	mining operation, correct?	12	A. Let me finish looking at it. Yeah, it just
13	A. Well, I guess it depends on what mining	13	has recommendations on the bottom of page 6. It talks
14	operation, but they're the Bureau of Mines so they deal	14	about a handrail, and then drill holes, explosives,
15	with mining.	15	electricity, and illumination.
16	Q. Okay. And the W.R. Grace facility deals with	16	And it just says under "General Health and Safety":
17	mining, correct?	17	"All persons employed at this facility should wear
18	A. Yes.	18	protective footwear." And that's the end of the
19	Q. And the Bureau of Mines did a safety	19	recommendations.
20	inspection, health and safety inspection of the Libby	20	Q. Under "General Health and Safety," it also
21	facility, correct?	21	says that "protective hats were worn by all employees.
22	A. From this report, yes.	22	Respirators and eye protection were used where needed."
23	Q. And this report was not shared with Maryland	23	The Bureau of Mines viewed that respirators were
24	Casualty as far as you can see; is that right?	24	used where needed. Do you see that?
25	A. I don't know if it was or it wasn't. I don't	25	A. Where are you at?
	Page 110		Page 112
1	-	1	
1 2	see any copies on it.	1 2	Q. On page under "General Health and Safety," the
2	see any copies on it. Q. You see no copy of the report going to	1 2 3	Q. On page under "General Health and Safety," the fourth paragraph.
	see any copies on it.	2	Q. On page under "General Health and Safety," the
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2 3 4 5	<ul><li>see any copies on it.</li><li>Q. You see no copy of the report going to</li><li>Maryland Casualty; is that correct?</li><li>A. No.</li><li>Q. And you haven't seen any documentation that</li></ul>	2 3 4 5	<ul> <li>Q. On page under "General Health and Safety," the fourth paragraph.</li> <li>A. Yeah, protective hats. Yeah, this is on page 5, okay.</li> <li>Q. Yeah. Let's go to MCE-77, if we could.</li> <li>A. Okay.</li> <li>Q. And, then, identifying this document, this is</li> </ul>
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	Page 113		Page 115
1	deviation from that 5 number or goal, correct?	1	whether the Libby mill was in compliance with the previous
2	A. This document references the 5. Let me read	2	recommendations made by the State; is that correct?
3	it (perusing document.) Yeah, it references the 5	3	A. Yes.
4	without referring to any literature pertaining to the	4	Q. The State of Montana suggests that the dust in
5	inadequacy of the TLV.	5	the mill had been reduced substantially from previous
6	Q. It references the 5 and does not suggest that	6	periods. Do you see that?
7	any number less than 5 should be maintained in the	7	A. That's what it says, yes.
8	facility, correct?	8	Q. And that's based on samples taken at that time
9	A. Yeah, it references 5 million particles per	9	and a review at that time in 1967; is that right?
10	cubic foot.	10	A. Right. And then if you look at the counts
11	Q. Then let's look at page 2. Mr. Park goes on	11	Q. We're going to I'm not asking you a
12	to say:	12	question there, sir.
13	"We are pleased to learn that the total	13	A. Well, I
14	severity frequency rates for this plant are the lowest	14	Q. I asked my question. Let's go to 105.
15	they have been in the last five years. This indicates the	15	A. Well, it's part of the
16	effectiveness of your," meaning Grace's, "safety program."	16	Q. Let's go to 105.
17	Do you see that reference?	17	A. It's part of the report.
18	A. Yes.	18	MR. LEFTRIDGE: Excuse me, Mr. Longosz, would
19	Q. It also says: "Continued emphasis upon	19	you please let
20	employee education and closer supervision to establish	20	MR. LONGOSZ: You see, this is part of the
21	safe work habits can be expected to further reduce	21	problem, and I think you need to instruct the witness that
22	accident frequency and severity."	22	I'm asking the questions. And you can cross-examine him,
23	This was a suggestion/recommendation made by	23	you can redirect him. But I'm asking questions, and so
24	Maryland Casualty to W.R. Grace.	24	many times during this deposition, he decides he's going
25	A. Yes.	25	to editorialize relative to the question.
	Page 114		Page 116
1	Q. And it also asks for Grace's cooperation in	1	THE WITNESS: You called my attention to the
2	making this recommendation effective. Do you see that?	2	report.
3	A. I do. And it's talking education, it's	3	MR. LEFTRIDGE: Mr. Longosz, you're asking
4	talking about severity and frequency rates for accidents.	4	about a particular document. And there are aspects
5	Q. Let's look at No. 88, MCE-88. While the	5	MR. LONGOSZ: I asked him
6	condition of that document isn't all that great, it	6	MR. LEFTRIDGE: Please let me finish. There
7	probably came off microfiche or some other thing, we can	7	are aspects of the document that are relevant to his
8	at least take a look at that. And we know that this is a	8	answer in putting his answer into context including pages
9	letter sent to Mr. Bleich, the manager at the Libby	9	of that same document. We would appreciate it if you
10	facility, a letter sent by Mr. Wake to Mr. Bleich as of	10	allowed Dr. Spear, in order to be able to answer your
11	February 9, 1967. Do you see that?	11	question completely and thoroughly, to reference aspects
12	A. Yes.	12	of that document as well as other aspects of other
13	Q. Mr. Wake is with the Montana State Board of	13	documents that put his answer and your question into
14 15	Health. Do you see that? A. Yes.	14	perspective.
15 16		15	Q. (By Mr. Longosz) Have it your way. If you
16 17	<ul><li>Q. Have you seen this letter before?</li><li>A. Yes.</li></ul>	16	want to editorial with respect to you answered my
18	Q. Okay. And this was a report of a partial	17	question.
18	industrial hygiene study done at the Libby facility,	18 19	A. I want to refer to the whole report that was provided by Mr. Wake. Okay?
20	correct?	20	Q. Sure.
20	A. Yep.	20	A. If you look at the concentration on the last
21	Q. And this was done by the State of Montana in	21	page, the concentration, you see that we have a 14, 11.2,
23	1967.	23	7.2 - and I can't read all of them - 20, and 25. So
2.0			and i cult i cus un of monit 20, und 20, 50
	A. Yes.	24	there's really one sample that's below the TLV in that
23 24 25	<ul><li>A. Yes.</li><li>Q. And the reason for this was to ascertain</li></ul>	24 25	there's really one sample that's below the TLV in that whole mix. That's the full report, just so we get it in

	Page 117		Page 119
1	the record.	1	A. Yes, it mentions some instructions.
2	Q. The report references TLV levels compared to	2	Q. Have you reviewed this document carefully to
3	the prior report. Does it reference that in what you've	3	ascertain whether W.R. Grace had adequate instructions for
4	just read to me? Can you compare that to what the State	4	their employees?
5	of Montana previously found?	5	A. Well, I've reviewed many W.R. Grace documents
6	A. Well, if I called up the 64 and the different	6	and they did not have adequate instructions. It's
7	samples, I could, yeah, but this is just giving the	7	recommending a Dustfoe respirator without instructing as
8	results based on this 1967 report, and they said they were	8	to why or when it should be worn. I mean, it's pretty
9	lower than they were previously.	9	general.
10	Q. Okay.	10	Q. Well, we know from documents we reviewed this
11	A. All over the limit, all over the TLV.	11	morning that a respirator should be worn at all times,
12	Q. I didn't ask you whether they were over the	12	correct?
13	limit or not. I asked you whether they were lower than	13	A. Well, they should be worn anywhere if we are
14	the prior report. And that's what that references; is	14	exposed to dust, yes, that they're in high concentrations,
15	that correct?	15	particularly if there's dust clouds.
16	A. It says right in the document they were, they	16	Q. We also know that employees were not wearing
17	were lower.	17	the respirators like they should have been; is that
18	Q. Right. And they certainly were above the 5	18	correct?
19	TLV that Maryland Casualty had recommended, correct?	19	A. Yeah, what I know is that Lynch and the Public
20	A. They are all above that, yes.	20	Health Service in 1968 basically said that the respirator
21	Q. Okay. Let's go to 105. Have you seen this	21	program was inadequate and workers were wearing unimproved
22	document before?	22	respirators.
23	A. Yes.	23	Q. Okay.
24	Q. Where did you see this document?	24	A. That's what I have to go on.
25	A. Probably as part of the Grace exhibits. I	25	Q. Would you consider the Dustfoe 66 an
	Page 118		Page 120
1	Page 118 have seen this document, though.	1	Page 120 appropriate respirator for this facility?
1 2	have seen this document, though. Q. I'm sorry?	2	
	<ul><li>have seen this document, though.</li><li>Q. I'm sorry?</li><li>A. I said I've seen this document.</li></ul>		appropriate respirator for this facility? A. The Dustfoe was a BOM-approved respirator, I believe, yes.
2 3 4	<ul><li>have seen this document, though.</li><li>Q. I'm sorry?</li><li>A. I said I've seen this document.</li><li>Q. What is this document?</li></ul>	2 3 4	appropriate respirator for this facility? A. The Dustfoe was a BOM-approved respirator, I believe, yes. Q. Okay.
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	Page 121		Page 123
1	employees advising them that respirators must be worn,	1	Q. And do you agree that the Montana Safety
2	correct?	2	Standards cover the general situation regarding protection
3	A. I don't see a date on it, but maybe there	3	against dust, fumes, mist, vapors, and gases?
4	isn't one, I don't know.	4	A. Well, yes. And if you're referring to, you
5	Q. Let's look at 106.1.	5	know, the dust standard, it wasn't the appropriate
6	A. Okay.	6	standard, so (pause.)
7	Q. Have you seen this document before?	7	Q. Again, Dr. Spear, my question is: Do you
8	A. Yes.	8	agree that the Montana Safety Standards cover the general
9	Q. And this rule is for the use of respirators?	9	situation regarding protection against dust, fumes, mist,
10	A. Yes.	10	vapors, and gases? "Yes" or "no."
11	Q. And this is a document that was January 1,	11	A. I can't answer it "yes" or "no."
12	1968?	12	Q. Okay. Are you conversant with the Montana
13	A. Yeah, it looks like '68.	13	Safety Standards in 1968?
14	Q. Okay. So this document would have covered the	14	A. I have reviewed them in the past, yes.
15	time while Mr. Hutt was working in the facility or at	15	Q. Do you know what they say? Can you tell me
16	least came to work in the facility in 1968?	16	today what they say?
17	A. Yes. Let me read the document.	17	A. I'd be happy to review them with you.
18	Q. Sure.	18	Q. Can you tell me today specifically what the
19	A. It's a hard one to read.	19	Montana Safety Standards say with respect to dust in 1968?
20	Q. I think if you look at the last it's three	20	A. I haven't looked at it in awhile, no.
21	pages. If you look at the third page, it looks like	21	Q. Okay. The rule here also, this document also
22	there's a translation, so to speak.	22	says that every employee received a copy of these general
23	A. Okay. May I read that, please?	23	standards, meaning the Montana Safety Standards. Do you
24	Q. Yeah.	24	see that?
25	A. (Perusing document) I believe regarding a	25	A. Where are you at?
	Page 122		Page 124
1	document like this on respirators	1	Q. The very first paragraph.
1 2	document like this on respirators Q. I didn't ask a question, but if you want to	2	<ul><li>Q. The very first paragraph.</li><li>A. That every employee, question mark, received,</li></ul>
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1	asbestos. Yes, that's my opinion.	1	A. No.
2	Q. Okay. My question to you is: Is it your	2	Q. Okay. A Dustfoe 66 is an actual respirator
3	opinion that there's a lot of dust in the Libby, Montana	3	that does a lot more than a paper mask, doesn't it?
4	site? "Yes" or "no."	4	A. It would be more protective than a paper mask,
5	A. At the W.R. Grace facility?	5	yeah.
6	Q. Yes, sir.	6	Q. Okay. And
7	A. Yes.	7	A. But again, it's a half-mask respirator with a
8	Q. Okay. If you were an employee in 1968 and saw	8	cartridge on the front.
9	the dust or worked in the dust environment and you were	9	Q. Right.
10	told to wear a respirator, would you wear a respirator?	10	A. It's limited in the concentration that it can
11	A. Well, I would probably try, and that's what	11	protect against.
12	their workers said. Mr. Hutt tried to wear a respirator	12	Q. Mr. Hutt never said that he wore a Dustfoe 66,
13	and he couldn't. It would plug up. That's what all the	13	correct?
14	workers told me. They didn't know why they needed one.	14	A. No.
15	Q. So let's answer my question now, Dr. Spear.	15	Q. Okay. And you saw correspondence in the
16	A. I just did.	16	documents where W.R. Grace said that they gave
17	Q. If you were a worker in the W.R. Grace	17	respirators, not paper masks, to employees; is that
18	facility, seeing the dust that was there, would you wear a	18 19	correct? A. I believe I have seen that document. I also
19 20	respirator? "Yes" or "no."	20	
20 21	<ul><li>A. I would try to wear a respirator, yes.</li><li>Q. Okay. Would it matter to you what was in the</li></ul>	20	saw the document from Lynch and the Public Health Service that said workers were using unapproved respirators.
21	Q. Okay. Would it matter to you what was in the dust?	21	Q. Who gave the workers the unapproved
22	A. It would matter to me a great deal what was in	22	respirators?
23 24	the dust. If I knew that it was a carcinogen, I would	23	A. I don't know.
25	definitely want to be very diligent about wearing a	25	Q. Okay.
	definitely want to be very difficient about wearing a		<b>X</b> . o
	Page 126		Dece 129
			Page 128
1	respirator.	1	A. Hutt said that he saw one worker wearing a
2	respirator. Q. But if there wasn't a carcinogen and you saw	2	A. Hutt said that he saw one worker wearing a respirator, and that worker went down to the hardware
2 3	respirator. Q. But if there wasn't a carcinogen and you saw that dust, you wouldn't care whether you wore a respirator	2 3	A. Hutt said that he saw one worker wearing a respirator, and that worker went down to the hardware store and bought one.
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	Page 129		Page 131
1	testified to, and other workers have testified to the same	1	operating machines"?
2	thing.	2	Do you agree that it should be mandatory that
3	Q. When did those other workers work at the Grace	3	respirators be worn in the dry mill?
4	facility that you keep talking about?	4	A. Yes.
5	A. All sorts of time frames.	5	Q. Do you believe that it is mandatory that
6	Q. Well, did any of those workers work during	6	respirators should be worn in the skip area?
7	1968-69?	7	A. It says in the skip area while sweeping or
8	A. I'm sure they did, yes. I can't remember	8	cleaning.
9	Q. No, I want to know specifically: What worker	9	Q. Do you agree with that?
10	worked during 1968 and '69 when Mr. Hutt was there? Give	10	A. Yes.
11	me the name.	11	Q. Okay. Do you agree that it's mandatory that
12	A. I can't given you a specific name of who	12	respirators be worn in the laboratory while grinding,
13	worked when. I just know I interviewed workers in person	13	crushing, or applying samples?
14	up at Libby.	14	A. Yes, if we enforce it, and they're using a
15	Q. Did any of the workers that you interviewed	15	good respirator, and they know why they're wearing it, and
16	wear a Dustfoe 66?	16	they're fit-tested.
17	A. I believe there could have been some workers	17	Q. Do you agree that it should be mandatory that
18	that wore a Dustfoe 66. Other ones said they wore paper	18	respirators be worn in the rotary drill while drilling?
19	masks. I don't remember who specifically, but (pause.)	19	A. Yes, under the same stipulations.
20	Q. Now, this rules for use of respirators that	20	Q. Do you agree that it's mandatory that
21	was given out by W.R. Grace to its employees	21	respirators be worn while employed in the secondary drill
22	A. Which one were we on again?	22	while drilling?
23	Q. It's 106.1.	23	A. Yes.
24	A. Yes.	24	Q. Do you agree that it's mandatory, that it
25	Q. Okay. You would agree with this, that, No. 1:	25	should be mandatory that respirators be worn while
			· · · · · · · · · · · · · · · · · · ·
	Page 130		
	Page 150		Page 132
1	"It is mandatory that respirators be worn while regularly	1	Page 132 employed operating these trucks while loading or dumping
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	"It is mandatory that respirators be worn while regularly		employed operating these trucks while loading or dumping
2	"It is mandatory that respirators be worn while regularly or temporarily employed in certain specific areas or on	2	<ul><li>employed operating these trucks while loading or dumping materials?</li><li>A. Yes. Again, under the same stipulations that we know why we're wearing them, and they're approved</li></ul>
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>"It is mandatory that respirators be worn while regularly or temporarily employed in certain specific areas or on certain specific jobs."</li> <li>Do you agree with that statement?</li> <li>A. It says that, yes.</li> <li>Q. Do you agree with that statement?</li> <li>A. Well, it says it's mandatory. I don't know if they enforced it or not.</li> <li>Q. Do you agree with that statement?</li> <li>A. Well, it says it's what it says, yes.</li> <li>Q. Do you agree that that's what it says, yes.</li> <li>Q. Do you agree that it would be mandatory in an industrial setting such as this that respirators be worn while regularly or temporarily employed in certain specified areas or on certain specific jobs?</li> <li>A. I believe that it should be, yes.</li> <li>Q. Okay.</li> <li>A. Then you have to enforce it.</li> <li>Q. And that's up to the employer to enforce; is that correct?</li> <li>A. It's up to who?</li> <li>Q. The employer.</li> <li>A. Yes.</li> </ul>	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>employed operating these trucks while loading or dumping materials?</li> <li>A. Yes. Again, under the same stipulations that we know why we're wearing them, and they're approved respirators, and they know the hazards, you bet.</li> <li>Q. So your testimony is you should allow the employee to decide whether it should be mandatory to wear these respirators or not?</li> <li>A. No, that's not. My testimony is to require respirators without doing an evaluation of whether or not they're effective against the concentrations of dust and not educating the workers, then you're providing a false sense of security to the workers.</li> <li>In other words, you know, it could be, essentially, they're overloading a respirator and they're not really being protected when they think they are.</li> <li>Q. Well, what does the word "mandatory" mean to you?</li> <li>A. It means it's required.</li> <li>Q. Okay. Do you believe it's mandatory that respirators be worn at the loading dock while using this machinery to move material?</li> </ul>

	Page 133		Page 135
1	Q. My question is: Do you agree that it's	1	Q. And Mr. Bleich is the manager of the Libby
2	mandatory that respirators be worn at the loading dock?	2	mine?
3	A. Yes.	3	A. Correct.
4	Q. Do you agree that it is mandatory that	4	Q. And you don't see any indication that this
5	respirators be worn at the Zonolite station while cleaning	5	report was sent to Maryland Casualty, do you?
6	cars or during loading?	6	A. I don't.
7	A. Yes, if they enforce it.	7	Q. Okay.
8	Q. Do you agree that it's mandatory that	8	A. This is the one where he's talking about the
9	respirators be worn at the export dock while cleaning	9	respirators.
10	cars, loading trucks, or backing?	10	Q. What is the date of this report?
11	A. Yes, if they enforce it.	11	A. September 4, 1968.
12	Q. Well, "mandatory" means what? What is the	12	Q. It has a general category and then it talks
13	definition of "mandatory"?	13	about dust exposure on page 2?
14 15	A. It means it's required.	14 15	A. Yes.
15	<ul><li>Q. Okay.</li><li>A. But that doesn't mean they've enforced that</li></ul>	15	Q. It talks about the threshold limit value on page 2 as well?
10	requirement. There's record after record saying they	17	A. Yes.
18	weren't wearing respirators.	18	Q. Okay. Does it talk about what TLV does it
19	Q. Number 3: "It is mandatory that respirators	19	suggest be followed?
20	be worn while employed in the following job	20	A. Well, it's talking about if there's different
20	classifications when working as designated in Paragraph	20	minerals present. On that page, I believe you're on
22	2."	22	page 2
23	Do you agree that it is mandatory for respirators to	23	Q. Yes.
24	be worn for all of these job classifications that are here	24	A. (Quoted as read): "However, since a
25	"A" through "N"?	25	significant amount of tremolite asbestos is present, the
	Page 134		Page 136
1	A. Yes, under the previous stipulation that I've	1	asbestos is a major health hazard and the asbestos TLV
2	A. Yes, under the previous stipulation that I've already talked about.	2	asbestos is a major health hazard and the asbestos TLV will be governing. The present accepted TLV for asbestos
2 3	<ul><li>A. Yes, under the previous stipulation that I've already talked about.</li><li>Q. Well, in other words, it's required for all</li></ul>	2 3	asbestos is a major health hazard and the asbestos TLV will be governing. The present accepted TLV for asbestos containing dust is 5 million particles per cubic foot. In
2 3 4	<ul><li>A. Yes, under the previous stipulation that I've already talked about.</li><li>Q. Well, in other words, it's required for all employees to wear respirators when they're working at any</li></ul>	2 3 4	asbestos is a major health hazard and the asbestos TLV will be governing. The present accepted TLV for asbestos containing dust is 5 million particles per cubic foot. In applying this TLV, all the dust is counted, not just the
2 3 4 5	<ul><li>A. Yes, under the previous stipulation that I've already talked about.</li><li>Q. Well, in other words, it's required for all employees to wear respirators when they're working at any of those job classifications, correct?</li></ul>	2 3 4 5	asbestos is a major health hazard and the asbestos TLV will be governing. The present accepted TLV for asbestos containing dust is 5 million particles per cubic foot. In applying this TLV, all the dust is counted, not just the fibers, and no correction is made for the asbestos content
2 3 4 5 6	<ul> <li>A. Yes, under the previous stipulation that I've already talked about.</li> <li>Q. Well, in other words, it's required for all employees to wear respirators when they're working at any of those job classifications, correct?</li> <li>A. If they're trained and they know why they're</li> </ul>	2 3 4 5 6	asbestos is a major health hazard and the asbestos TLV will be governing. The present accepted TLV for asbestos containing dust is 5 million particles per cubic foot. In applying this TLV, all the dust is counted, not just the fibers, and no correction is made for the asbestos content of the dust.
2 3 4 5 6 7	<ul> <li>A. Yes, under the previous stipulation that I've already talked about.</li> <li>Q. Well, in other words, it's required for all employees to wear respirators when they're working at any of those job classifications, correct?</li> <li>A. If they're trained and they know why they're wearing it, yes.</li> </ul>	2 3 4 5 6 7	asbestos is a major health hazard and the asbestos TLV will be governing. The present accepted TLV for asbestos containing dust is 5 million particles per cubic foot. In applying this TLV, all the dust is counted, not just the fibers, and no correction is made for the asbestos content of the dust. "A new tentative asbestos TLV of 2 million
2 3 4 5 6 7 8	<ul> <li>A. Yes, under the previous stipulation that I've already talked about.</li> <li>Q. Well, in other words, it's required for all employees to wear respirators when they're working at any of those job classifications, correct?</li> <li>A. If they're trained and they know why they're wearing it, yes.</li> <li>Q. My question to you, sir, is okay. So if</li> </ul>	2 3 4 5 6 7 8	asbestos is a major health hazard and the asbestos TLV will be governing. The present accepted TLV for asbestos containing dust is 5 million particles per cubic foot. In applying this TLV, all the dust is counted, not just the fibers, and no correction is made for the asbestos content of the dust. "A new tentative asbestos TLV of 2 million particles per cubic foot or 12 fibers per cc longer than 5
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	Page 137		Page 139
1	Q. When was that?	1	document nor provided it as far as you can see, correct?
2	A. 1971.	2	A. Not that I can see.
3	Q. Right.	3	Q. Okay. This document refers to an individual
4	A. The very first one.	4	from Johns-Manville conducting an industrial hygiene
5	Q. Are you a member, by the way, of the American	5	survey of the Libby operations; isn't that correct?
6	Industrial Hygiene Association?	6	A. Yes.
7	A. I am.	7	Q. And this was a survey and advice asked for by
8	Q. Okay. You are a member. And are you a member	8	W.R. Grace; is that correct?
9	of the American strike that.	9	A. Let me look at it, please. (Perusing
10	Page 4, there's recommendations.	10	document) yeah, it says at our request, okay.
11	A. Okay.	11	Q. Okay. And, then, looking at this, the very
12	Q. And part of the recommendations is that:	12	first section here is R.D. Hindmarch from J-M. That's
13	"Bureau of Mines approved respirators should be provided	13	Johns-Manville. I guess that's his industrial hygiene
14	for all intermittent hazardous operations where local	14	survey.
15	exhaust is not practical. They should be regularly	15	A. Yes.
16	maintained and their proper use should be enforced."	16	Q. Then looking at page 2, he noted certain
17	Do you see that?	17	conditions at the facility. Do you see that?
18	A. Yes. And, then, may I read the rest of the	18	A. Yeah, you know, he's talking about quantity of
19 20	report real quick?	19 20	tremolite in the whole dust ranged from 12 to 23 percent.
20 21	Q. Sure.	20 21	That's the percentage of tremolite based on the threshold
21	A. (Perusing document) under Controls, it talks about:	$\begin{vmatrix} 21\\22 \end{vmatrix}$	limit values for tremolite of 5 million particles per cubic foot. It would indicate that this value would be
22	"Dump trucks churned up a cloud of dust from	22	applicable to your operation.
23 24	the road dirt which contained some tremolite. Although	23	Of the 47 samples collected, dust counts in 13 of
25	the seriousness of the exposure is doubtful, the use of a	25	the samples, 5 million particle per cubic foot threshold,
23	the seriousness of the exposure is doubtrui, the use of u	25	the samples, 5 minion particle per cube root uneshold,
	Page 138		Page 140
1	binder on the road would be beneficial."	1	the highest counts were shown in samples collected on the
2	binder on the road would be beneficial." "A detailed listing of the improvements	2	the highest counts were shown in samples collected on the second floor of the dry mill.
2 3	binder on the road would be beneficial." "A detailed listing of the improvements necessary is not possible because of the number and	2 3	<ul><li>the highest counts were shown in samples collected on the second floor of the dry mill.</li><li>Q. I was actually referring to page 2 where it</li></ul>
2 3 4	binder on the road would be beneficial." "A detailed listing of the improvements necessary is not possible because of the number and variety of the machines."	2 3 4	<ul><li>the highest counts were shown in samples collected on the second floor of the dry mill.</li><li>Q. I was actually referring to page 2 where it says: "During the survey the following conditions were</li></ul>
2 3 4 5	binder on the road would be beneficial." "A detailed listing of the improvements necessary is not possible because of the number and variety of the machines." And then it recommended a tightening up of all the	2 3 4 5	<ul><li>the highest counts were shown in samples collected on the second floor of the dry mill.</li><li>Q. I was actually referring to page 2 where it says: "During the survey the following conditions were noted."</li></ul>
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	Page 141	Page 1	43
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1	Q. Right. And it would be your recommendation to	1 "Local exhaust ventilation is used extensively	
2	use vacuum cleaners, right? Would it be your	2 in the dry mill but that it is not sufficiently effective,	
3	recommendation to use vacuum cleaners, sir?	<ul><li>that a tightening-up of all exhaust hoods is required,</li></ul>	
4	A. They're saying	<ul><li>4 that a combination of smaller hood openings and increas</li></ul>	sed
5	Q. No, no.	5 air flow should be obtained such that control velocities	scu
6	A. Yes, sir.	6 of at least 200 fpm result at all openings, and that this	
7	Q. Again, Dr. Spear, would it be Dr. Spear's	7 is a matter of detailed hood redesign, increased system	
8	recommendation to use vacuum cleaners rather than brooms	8 capacity and continuous maintenance."	
9	and air hoses?	9 Do you see that?	
10	A. That is the recommendation of industrial	10 A. Yes. And that was the	
11	hygiene, and they were not doing this. This is what they	11 Q. And he's telling W.R. Grace that they need to	
12	noted. You seem to be confused.	12 do that.	
12	Q. No, I'm not confused, Doctor.	13 A. That was the intent of the safety program, to	
13	A. Okay, well	14 design-engineer the dust out, correct.	
15	Q. And if you need to take a break, let me know.	15 Q. And, apparently, W.R. Grace was not doing	
16	My question to you is: Would Dr. Spear recommend to	16 that; is that true?	
10	use vacuums rather than air hoses and brooms? "Yes" or	17 A. In my opinion, Maryland Casualty was not	
18	"no."	18 making appropriate recommendations to engineer the du	ıst
10	A. Yes.	19 out. Their recommendations were not effective. They	150
20	Q. Okay. And Johns-Manville is suggesting they	20 didn't specify the volume there. We got the	
21	should be using vacuums rather than air hoses and brooms,	21 state-of-the-art Lompoc mill we could go by, and they	
22	correct?	<ul><li>didn't do it. They recommended the wrong air cleaning.</li></ul>	
23	A. Yes. They should be using vacuums instead of	<ul><li>23 They were dispersing the dust throughout the area aroun</li></ul>	
24	air hoses and brooms.	<ul><li>the dry mill instead of trying to collect it in the</li></ul>	
25	Q. And W.R. Grace, as of October 7, 1968, has	<ul><li>baghouse with some other device.</li></ul>	
	<b>.</b>		
	Page 142	Page 1	44
1		-	44
1 2	Page 142 this recommendation and knows it should be using vacuum cleaners instead of air hoses and brooms, correct?		44
	this recommendation and knows it should be using vacuum	1 So, yeah, I mean, that's what they say, they were	44
2	this recommendation and knows it should be using vacuum cleaners instead of air hoses and brooms, correct?	1 So, yeah, I mean, that's what they say, they were 2 going to provide a comprehensive industrial hygiene	44
2 3	<ul><li>this recommendation and knows it should be using vacuum cleaners instead of air hoses and brooms, correct?</li><li>A. Yes.</li></ul>	<ol> <li>So, yeah, I mean, that's what they say, they were</li> <li>going to provide a comprehensive industrial hygiene</li> <li>program so that we could engineer the dust out of the</li> </ol>	44
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1	I wore a mine safety D-Foe respirator which has Bureau of	1	workers know why they're wearing the respirator, sure.
2	Mines' approval."	2	Q. And if the workers don't know why they're
3	Do you see that?	3	wearing the respirator, you do not approve of enforcement
4	A. Yeah, "Dustfoe."	4	of approved respirators; is that your testimony?
5	Q. Okay.	5	A. I don't believe it's proper and best
6	A. You said something different. Yeah, that's	6	industrial hygiene to allow workers to rely on respirators
7	what he says.	7	when they don't know why they're wearing them. That's
8	Q. He also says: "The only conclusion to be	8	all.
9	drawn is that he might have seen one or two employees	9	Q. So what you're saying is that if I don't tell
10	wearing respirators that they have obtained elsewhere."	10	the worker why he's wearing the respirator, I should not
11	A. That's where the enforcement comes in.	11	allow the worker to use the respirator?
12	Q. And the enforcement is on the part of W.R.	12	A. No, it's going to be harder to enforce it.
13	Grace, the employer, correct?	13	And it's going to be a lot easier to get them to wear the
14	A. Yeah, part of W.R. Grace.	14	respirators when they know why they're wearing them.
15	Q. So then we have another comment here by a W.D.	15	That's the point.
16	Nordin - Zonolite Libby. Do you know who that individual	16	Q. Okay. But if it's mandatory, it's mandatory,
17	is?	17	and they should wear it if it's required, correct?
18	A. Not off the top of my head.	18	A. Yeah, they should.
19	Q. You see the recommendation section, the	19	Q. The enforcement, the education is necessary
20	internal recommendation section?	20	for the enforcement.
21	A. Let me look at this whole thing real quick.	21	A. Yes.
22 23	Q. I'm looking at page 4 where it says "Recommendations," if you could turn to that, please.	22 23	Q. Okay. So other than that, do you agree with all of the recommendations that he is making?
23 24	A. May I read the start of the document	23	A. Yeah, he's referring to the skip operator's
24 25	Q. No, turn to page 4 where it says	24	enclosure as dust-tight as possible. It would be nice if
25		23	enerosure as dast light as possible. It would be nice n
	Page 146		Page 148
1	Page 146 "Recommendations."	1	-
1 2		1 2	Page 148 it was under positive pressure. I'm not sure what he's referring to by "dust-tight."
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TERRY SPEAR, PH.D.

	Page 149		Page 151
1	O. And what is this document?	1	Q. (By Mr. Longosz) Yes, sir.
2	A. It's a Department of Health, Education, and	2	A. I don't believe so, no.
3	Welfare, Public Health Service, October 17, 1968. It's to	3	Q. Let's look at 135. Could you identify this
4	Ben Wake, who's with the State of Montana, from Jeremiah	4	document for us?
5	Lynch, Public Health Service.	5	A. It's Personal and Confidential to R.M. Vining
6	Q. This is another report from the department,	6	from R.E. Schneider. The subject is: In situ and
7	this is another report from Montana this is from Lynch	7	Environmental Dust Control for Libby Vermiculite Mining
8	to Ben Wake at the State Department of Health in Montana,	8	and Expanding Operations.
9	correct?	9	And then there's Grace people copied in on it, I
10	A. Right.	10	believe.
11	Q. And it's basically giving them the results	11	Q. And you see no Maryland Casualty people copied
12	from their survey of the W.R. Grace facility, correct?	12	on it; is that correct?
13	A. Yes.	13	A. Not that I recognize, no.
14	Q. And in connection with that public	14	Q. And this is the result of the visit to the
15	Department of Health, Education, and Welfare, HEW survey,	15	Johns-Manville facility when we're talking about Lompoc,
16	was any of that information on here sent to Maryland	16	California?
17	Casualty?	17	A. Yeah. Can I look at this one?
18	A. I don't see anybody copied on it, so I don't	18	Q. Sure.
19	know.	19	A. (Perusing document) he's talking about we
20 21	Q. And you've certainly seen no information to suggest it was sent to Maryland Casualty; is that correct?	20 21	should be concerned with the obligation to our employees, namely permitting them to work "permitting them to
21	A. No.	$\begin{array}{ c c } 21 \\ 22 \\ \end{array}$	perform their services under working conditions which we
22	Q. Okay. Would you look at 124, please?	23	have good reason to believe are hazardous." And then they
23	A. Okay. Do you want me to identify it?	24	recommended testing and monitoring.
25	Q. Yes, if you would identify it, please.	25	Do you want me to refer to a specific part?
	Page 150		Page 152
1	A. It's October 31, 1968, and it's from Earl	1	Q. I will. The question is that this references
2	A. It's October 31, 1968, and it's from Earl Lovick to Ben Wake, referring to Lynch's report.	2	Q. I will. The question is that this references the visit to Lompoc, California, correct?
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$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $	<ul> <li>A. It's October 31, 1968, and it's from Earl Lovick to Ben Wake, referring to Lynch's report.</li> <li>Q. And they received it. And it goes on to state that in Paragraph 2, it says:</li> <li>"We have been and are continuing to improve conditions over the entire operation. We do not understand the statement that our respiratory program is not effective, since the respirators are not of an approved type."</li> <li>It goes on to talk about the two respirators that they're using. And he talks about:</li> <li>"These respirators are furnished to all employees working in areas where we have found exposure to be high. It is mandatory they be worn in these areas, and we try to strictly enforce this rule."</li> <li>Do you see that?</li> <li>A. Yes.</li> <li>Q. Do you see any recommendation from either the State Public Health Service or from Johns-Manville regarding education programs for the use of respirators and programs that should be provided to employees? MR. LEFTRIDGE: Objection; form.</li> </ul>	$ \begin{array}{c} 2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\end{array} $	<ul> <li>Q. I will. The question is that this references the visit to Lompoc, California, correct?</li> <li>A. Yes.</li> <li>Q. Okay. And</li> <li>A. It also references the New Yorker article that talked about the different hazards with asbestos.</li> <li>Q. All right. And this is written and circulated within W.R. Grace, where W.R. Grace is specifically concerned with respect to the working conditions, the hazardous working conditions of the workers; is that correct?</li> <li>A. Yes.</li> <li>Q. And it also talks about the fact that as we gather, meaning W.R. Grace, "continue to gather information as to potential hazards at Libby and elsewhere in Zonolite, we must be concerned about our moral obligations to our employees. Current evidence dictates we must take prompt action."</li> <li>A. Where did you read that part?</li> <li>Q. On the last paragraph.</li> </ul>

	Page 153		Page 155
1	outlined in the report. And that program would be an	1	A. We're talking about silica, I think, with that
2	expenditure of money for testing and monitoring that Grace	2	statement, right.
3	would have to expend; is that correct?	3	Q. Regardless, it was, 5 was the marker being
4	A. Yes.	4	used.
5	Q. So it was up to Grace to decide whether they	5	A. For this example, yeah.
6	wanted to spend the money to make the conditions less	6	Q. Looking at page 5, they reviewed the dust
7	hazardous for its workers; is that correct?	7	control at the mine and the facility, correct?
8	A. Yes.	8	A. Yes.
9	Q. So looking at this report from Lompoc, I will	9	Q. They also looked at preventive maintenance of
10	refer to page 3. If you want to look through the report,	10	what they do with respect to their equipment?
11	that's fine, before we get started.	11	A. Yes, they did.
12	A. Yeah, so I don't get lost.	12	Q. They looked at the safety record of the
13	Q. Okay. Just to get some context, okay. Just	13	individuals, No. 3?
14	take a minute to look through it and then we can have some	14	A. Yeah, the lost-time accidents.
15	questions.	15	Q. And they also looked at the production
16	A. All right, I've got my report where I refer to	16	efficiency.
17	that and then I've got the documents.	17	A. Correct.
18	Q. I was going to go page 3 of the report,	18	Q. In terms of the mill, they looked at the mill
19 20	please, where it talks about the "Visit to Johns-Manville	19	at the Lompoc facility, and they looked at how it was
20 21	Lompoc, California Mine and Mill." A. Okay.	20 21	maintained. Do you see that?
21	Q. It appears from this report halfway down the	21 22	A. Yeah, they say it's similar to Libby, so they don't describe what the mill was or how it operated.
22	page that the mine and mill was visited, JM's - and	22	Q. Okay.
23	Johns-Manville I'll refer to "JM" as it is here in the	23	A. But, yeah. So you're on the next page?
25	report - JM's mine and mill visit was on November 19,	24	Q. Yeah, on page 7. And just looking through it,
			Q. Tean, on page 7. This just looking anough h,
	Page 154		Page 156
1	1968. Do you see that?	4	
		1	it talks about the baghouse operations. It also talks,
2	A. Yes.	2	more importantly, down at the bottom paragraph, about:
3	<ul><li>A. Yes.</li><li>Q. And that was during Mr. Hutt's employment; is</li></ul>	2 3	more importantly, down at the bottom paragraph, about: "Considerable design goes into each dust
3 4	<ul><li>A. Yes.</li><li>Q. And that was during Mr. Hutt's employment; is that correct?</li></ul>	2 3 4	more importantly, down at the bottom paragraph, about: "Considerable design goes into each dust collection system, and through the years specific air
3 4 5	<ul><li>A. Yes.</li><li>Q. And that was during Mr. Hutt's employment; is that correct?</li><li>A. Yes.</li></ul>	2 3 4 5	more importantly, down at the bottom paragraph, about: "Considerable design goes into each dust collection system, and through the years specific air flows and face velocities have been established for
3 4 5 6	<ul> <li>A. Yes.</li> <li>Q. And that was during Mr. Hutt's employment; is that correct?</li> <li>A. Yes.</li> <li>Q. And the people from the W.R. Grace that</li> </ul>	2 3 4 5 6	more importantly, down at the bottom paragraph, about: "Considerable design goes into each dust collection system, and through the years specific air flows and face velocities have been established for different phases of dust collection."
3 4 5 6 7	<ul> <li>A. Yes.</li> <li>Q. And that was during Mr. Hutt's employment; is that correct?</li> <li>A. Yes.</li> <li>Q. And the people from the W.R. Grace that attended was this R.E. Schneider, Pete Kostic, F.W. Eaton,</li> </ul>	2 3 4 5 6 7	more importantly, down at the bottom paragraph, about: "Considerable design goes into each dust collection system, and through the years specific air flows and face velocities have been established for different phases of dust collection." Do you see that?
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3 4 5 6 7 8 9	<ul> <li>A. Yes.</li> <li>Q. And that was during Mr. Hutt's employment; is that correct?</li> <li>A. Yes.</li> <li>Q. And the people from the W.R. Grace that attended was this R.E. Schneider, Pete Kostic, F.W. Eaton, and R.J. Kujawa. Do you see that?</li> <li>A. Yes.</li> </ul>	2 3 4 5 6 7 8 9	<ul> <li>more importantly, down at the bottom paragraph, about:</li> <li>"Considerable design goes into each dust</li> <li>collection system, and through the years specific air</li> <li>flows and face velocities have been established for</li> <li>different phases of dust collection."</li> <li>Do you see that?</li> <li>A. Yes.</li> <li>Q. On page 8, it talks about the vacuum system?</li> </ul>
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	Page 157		Page 159
1	Q. Right.	1	for Establishing Required Changes." This is what was
2	A. So we're clear. I'm sorry for interrupting.	2	being recommend by the W.R. Grace writer; is that correct?
3	Q. No, that's okay. What they did here was they	3	A. Yes.
4	noticed that the Johns-Manville facility had a system	4	Q. Okay. So the first area is Monitoring, and
5	where the dust was passed through cyclones and then into	5	under No. 1, Personnel. And what it says here is:
6	an open baghouse.	6	"Dust monitoring at Libby is done by an
7	A. Right, to clean the air.	7	Engineering Department technician on a monthly basis. He
8	Q. And on page 9, they talk about the	8	should continue to do the monitoring there."
9	bulk-loading section and then they talk about personal	9	So we know that Libby had an engineering department,
10	cleaning stations.	10	and a technician was doing monitoring for dust.
11	A. Yes.	11	A. Yeah, it says that there.
12	Q. Are you aware of whether W.R. Grace ever	12	Q. Okay. And then it talks about on page 11:
13	adopted any of the things that they saw at or any of the	13	"Monitoring at our expanding plants throughout the country
14	types of preventative maintenance, dust control, personal	14	will be conducted by Cambridge Engineering."
15	cleaning stations, bulk-loading operations? Did they	15	Cambridge Engineering is the W.R. Grace Engineering;
16	adopt any of those operations that Johns-Manville was	16	is that correct?
17	using?	17	A. Yes.
18	A. They did not use vacuums. They did not have	18	Q. So W.R. Grace was doing its own engineering;
19 20	vacuums for cleaning. They didn't have baghouses. So in	19	is that correct?
20	the time frame that we're talking about, I don't believe	20	A. Well, they're doing monitoring through the
21 22	so. Q. Do you know if W.R. Grace ever adopted any of	21 22	engineering, yeah. They do, occasionally, spot checking at Libby for evaluating the efficiency of the equipment.
22	the items they saw at the Johns-Manville facility?	22	Yes, okay.
23 24	A. You know, I don't know specifically. I'd have	23	Q. All right. And then No. 2 is the Type Test
25	to go back and look at some of their documents on what	25	and Equipment, and it talks about what they have in place
23	to go blek and look at some of their documents on what		and Equipment, and it with about what they have in place
	Page 158		Page 160
1	they actually put in in later years.	1	Page 160 at Libby?
2	they actually put in in later years. Q. You do know in later years that they actually	2	-
2 3	they actually put in in later years. Q. You do know in later years that they actually rebuilt the facility, I think, in 1972 or '73?		at Libby? A. Let me read it real quick. Q. That's fine.
2 3 4	<ul><li>they actually put in in later years.</li><li>Q. You do know in later years that they actually rebuilt the facility, I think, in 1972 or '73?</li><li>A. They put in a wet mill</li></ul>	2 3 4	at Libby? A. Let me read it real quick. Q. That's fine. A. (Perusing document) yeah, they were trying
2 3 4 5	<ul><li>they actually put in in later years.</li><li>Q. You do know in later years that they actually rebuilt the facility, I think, in 1972 or '73?</li><li>A. They put in a wet mill</li><li>Q. Right.</li></ul>	2 3 4 5	<ul><li>at Libby?</li><li>A. Let me read it real quick.</li><li>Q. That's fine.</li><li>A. (Perusing document) yeah, they were trying to get switched over to the filter method.</li></ul>
2 3 4 5 6	<ul> <li>they actually put in in later years.</li> <li>Q. You do know in later years that they actually rebuilt the facility, I think, in 1972 or '73?</li> <li>A. They put in a wet mill</li> <li>Q. Right.</li> <li>A which started construction in the early</li> </ul>	2 3 4 5 6	<ul> <li>at Libby?</li> <li>A. Let me read it real quick.</li> <li>Q. That's fine.</li> <li>A. (Perusing document) yeah, they were trying to get switched over to the filter method.</li> <li>Q. Of monitoring?</li> </ul>
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	Page 161		Page 163
1	etc.)"	1	MR. LEFTRIDGE: Thanks.
2	A. Yes.	2	MR. LONGOSZ: I'm not sure, I know this is
3	Q. So they're tuned into all these things and	3	Spear 85, and I'm not sure if it's in the common book.
4	they know they have to look and evaluate those things and	4	I'll show it to Counsel here. We can go off the record
5	come up with solutions to better control the dust.	5	for a second.
6	A. Yes, the dust was not controlled.	6	(Off-the-record discussion.)
7	Q. At any point in this, the recommendations	7	Q. (By Mr. Longosz) You're looking at what's down
8	section, is there any reference to or suggestion that they	8	at the bottom marked Exhibit 85, which is a letter from
9	looked to Maryland Casualty to make any recommendations in	9	John F. Murphy to Peter Kostic dated March 29, 1966.
10	that regard?	10	MR. LONGOSZ: If Counsel is in agreement, we
11	A. Well, no, but they are responding. They were	11	will give it an MCE common exhibit number, but not today,
12	being recommended ventilation controls by Maryland	12	not knowing where we're going to pick up, but at least we
13	Casualty. It's not referenced in this document, but	13	have identified in the record No. 85 and we can come to an
14	(pause.)	14	agreement on a common exhibit number.
15	Q. So there's a cost section on page 14. Do you	15	MR. LEFTRIDGE: Sounds good.
16	see those line items in areas that are being suggested?	16	Q. (By Mr. Longosz) Have you had an opportunity
17	A. Yes.	17	to review this document?
18	Q. Okay. And this was a program being suggested	18	A. Yes.
19	by their own internal engineering department. Do you see	19	Q. Have you seen this document before?
20	the estimated costs of this program?	20	A. Yes.
21	A. Yeah, way at the very bottom there?	21	Q. Okay. Did you review it in connection with
22	Q. Yeah, of 14. It's one, two, three, and	22	your opinions in this case?
23	then	23	A. I believe I did, yes.
24	A. I see that.	24	Q. Okay. And it's an internal Grace document
25	Q. So is it your opinion that these items should	25	summarizing a variety of a timeline of items and
	Page 162		Page 164
1	be items that W.R. Grace should implement in 1968 as a	1	correspondence and reports relating to the dust problem at
2	result of their review of their status at the facility?	2	the Libby facility; is that correct?
3	A. They needed to implement whatever controls	3	A. Yes.
4	they could to reduce the dust levels below hazardous	4	Q. In that document, let's look at page 4, if you
5	levels.	5	would. The entry for 2/15/66.
6	Q. And he attaches for consumption to management	6	A. Page 4?
7	of W.R. Grace this New Yorker article that came out in	7	Q. The date of $2/15/66$ . Do you see that?
8	October 12 of 1968	8	A. Yes.
9	A. Yes.	9	Q. Looking at the last sentence of that entry?
10	Q talking about the magic mineral.	10	A. I see that.
11	A. And the health hazards of asbestos.	11	Q. It says: "As to a total concentration of 5
12	Q. So, certainly, at that point in time,	12	mppcf, there seems to be a discrepancy in our thinking on
13	everybody at W.R. Grace knew of the hazards of asbestos in	13	this figure."
14	1968 when Mr. Hutt started his employment at Grace; is	14	The thinking meaning Maryland Casualty is using 5
15	that correct?	15	and either the state or W.R. Grace is using a higher
16	A. They were informed about the health hazards of	16	number; is that correct?
17	asbestos in 1956 by Wake.	17	A. Yeah, let me look at that whole thing to keep
18	Q. All right.	18	it in context. (Perusing document) the dust count is
19	A. So from '56 on, and this is just adding some	19	just shown to a level that is as good as present equipment
20	additional information.	20	can maintain.
21	Q. Okay.	21	Q. That's W.R. Grace talking, that management at
22	MR. LEFTRIDGE: Sorry for this late	22	Libby seemed to feel that the total dust count is shown to
23	interjection. I just want to add an objection to that	23	a level that is as good as present equipment can maintain,
24 25	last question to form as to "everybody." MR. LONGOSZ: Sure.	24 25	right? A. Yes.
23	wik. Londosz. Suie.	23	A. 105.

	Page 165		Page 167
1	Q. So in terms of the "discrepancy in our	1	Q. I couldn't find it in there. If it is in
2	thinking," is the discrepancy between W.R. Grace and	2	there, we'll cross-reference it. If you could look at
3	Maryland Casualty in terms of thinking about whether it's	3	that document and let us know if you've seen that one
4	5 or 10. You agree with that, right?	4	before.
5	A. Well, the reference is "Park" up above, so	5	A. I've seen it before and I'll read it.
6	yeah, I guess I can't say for sure who the discrepancy is	6	Q. Okay.
7	with.	7	A. (Perusing document.)
8	Q. Well, consistent through all the documents and	8	MR. LEFTRIDGE: Is this not MCE-83?
9	things you've read, there's been discrepancy of thinking	9	MR. LONGOSZ: Thank you. It is.
10	between W.R. Grace and Maryland Casualty regarding the	10	Q. (By Mr. Longosz) Dr. Spear, why don't you look
11	figure to use, correct?	11	at MCE-83. It's the same document, we believe, but for
12	A. Yes. Maryland Casualty went with the higher	12	clarity, why don't we look at MCE-83. That way we're
13	number.	13	looking at the same document.
14	Q. Maryland Casualty went with the lower number,	14	MR. LONGOSZ: Thanks, Dustin.
15	5; W.R. Grace went with the higher number, 10.	15	THE WITNESS: (Perusing document) okay.
16	A. Right. So, then, Maryland Casualty would not	16	Q. (By Mr. Longosz) Have you had a chance to
17	further recommend 5. Yeah, that's what happened.	17	review that document?
18	Q. Maryland Casualty recommended 5; W.R. Grace	18	A. Yeah. Eighty-three, right?
19	wanted 10; is that correct? "Yes" or "no"?	19	Q. Yes.
20	A. Initially, yes, and then it went up.	20	A. Yeah.
21	Q. According to what you say you read.	21	Q. What's the date of that document?
22	A. Yes.	22	A. It is 7/25/66.
23	Q. But you can't point me to that document?	23	Q. And this is a tour of the facility on one of
24	A. They would not refer to the 5 million	24	the quarterly visits by W.E. Walker from Maryland
25	particles per cubic foot again. That's what the document	25	Casualty?
	Page 166		Page 168
1	says.	1	A. Yes.
2	Q. And what year was that?	2	Q. It's recording his impressions of what he saw
3	A. God, what year was it it would have been	3	at the facility; is that true?
4	in, let's see, I've got it right under this, I think. I	4	A. Yes, talking about the inspection.
5	already read this part.	5	Q. And a copy of this form was left with
6	Q. I think we read those documents earlier in the	6	Mr. Bleich, the plant manager. That's what it says in the
7	deposition, right? And that's what we're referring to.	7	first paragraph, correct?
8	A. We did read this.	8	A. Yes.
9	Q. Right.	9	Q. He goes on to talk about that of the nine
10	A. And so Grace wrote back, and then Maryland	10	previous recommendations submitted, there are four
11	Casualty wrote back knowing that what the standard was,	11	outstanding which should receive priority in being
12	the ACGIH:	12	completed. Do you see that?
13	This was the basis for the recommendation.	13	A. Yes.
14	However, in June 1966, Maryland Casualty stated that	14	Q. So he's looking for compliance from W.R.
15	because the State requirement had been met, it was agreed	15	Grace, which wasn't happening; is that correct?
16	that no further reference to our previous recommendation	16	A. Yes. He said only 7, No. 7, has been done.
17	is necessary at this point.	17	Q. And it goes on to say in that paragraph: "It
18	So that's all I was referring to.	18	was understood from local management that money had been
19 20	Q. Okay. So let's put that document aside. I'm	19	allocated to extend the discharge from dust collector
20	going to show you a document. And I don't have a Bates	20	system."
21	number on it, but I have an MCC number that we can make	21	Do you see that?
22 23	into a common exhibit. I'll give you a copy. The Bates No. is MCC-h001858. The date of the document is 7/25/66.	22 23	A. Yes. O The next noragraph talks about the fact that
23 24	I'm going to show that document to you.	23	Q. The next paragraph talks about the fact that Mr. Kujawa, the mill superintendent, flatly makes the
24 25	A. It's not in here, then?	24 25	statement that because these 11044 weren't supplied, this
20		25	succinent that because these 110++ weren't supplied, this

	Page 169		Page 171
1	form, they were not going to meet any of the	1	exposures is."
2	recommendations.	2	That's Mr. Walker writing on behalf of Maryland
3	A. Yes.	3	Casualty; is that correct?
4	Q. Even though he knew about the recommendations,	4	A. That's what he says, yeah.
5	he's just saying, "We're not going to do it." Is that	5	Q. Let's look at 9 90, I'm sorry. Just for
6	your understanding?	6	the record, identifying this, this is MCE-90, which is a
7	A. That he's not going to do it.	7	form that's filled out by, in this case, by Mr. Joe E.
8	Q. Yeah. "By his statement they are not going to	8	Baker from Maryland Casualty on his visit to the facility
9	overhaul the dust collection system even though the money	9	in April, on April 27, 1967, correct?
10	has been appropriated, unless specifically ordered to do	10	A. Yes.
11	so from their home office," meaning W.R. Grace's home	11	Q. All right. If you want to take a quick look
12	office.	12	at that and familiarize yourself.
13	Do you see that?	13	A. If I may (perusing document.)
14	A. Yes.	14	Q. Have you finished reading it?
15	Q. So, again, W.R. Grace is not going to do any	15	A. Yes.
16	work on the dust collection system unless it's ordered to	16	Q. This is a report of the tour of the mine and
17	do some from their headquarters. That's what Mr. Kujawa	17	the mill, and the tour was done with Mr. Kujawa. That's
18	was saying.	18	what it says in the first sentence, right?
19	A. Yeah.	19	A. Yes.
20	Q. Okay. (Quoted as read): "Mr. Kujawa made the	20	Q. If we can go to the next page, there's
21	statement that our recommendations regarding total	21	reference to readings that were taken by W.R. Grace.
22	allowable dust concentrations based on the American	22	Actually, it's a continuation from the bottom of the first
23	Conference of Industrial Hygienists established threshold	23	page to the second page, which says:
24	limits was now out the window.	24	"The dust problem does not seem any better or
25	"He states (and I quote) 'A new threshold	25	worse. Readings this time taken April 11, 1967 were," and
	Page 170		Page 172
1	limit value has been established by the aforementioned	1	then he goes through those readings.
2	group to cover tremolite ore.' Any official publication	2	A. Yes. They are 7.9, 9.6, 10.7, 5.9, 14.4,
3	of this would be appreciated, by this writer."	3	14.6, and 6.4.
4	So as of July 1966, Kujawa is not going to follow	4	Q. So 5 of those readings out of the 7 were at
5	the recommended limit of 5; is that correct?	5	the 10 well, 10.7, but essentially at 10 or under, and
6	A. Yeah, that's what it says there.	6	2 readings were above 10; is that correct?
7	Q. And then it goes on to say - I'm looking at	7	A. Yeah, all of them were above the ACGIH TLV of
8	the next page, page 2	8	5
9	A. Hang on one second.	9	Q. Correct.
10	Q. Sure.	10	<ul><li>Q. Correct.</li><li>A and then we had one, two, three, four of</li></ul>
10 11	<ul><li>Q. Sure.</li><li>A. Okay.</li></ul>	10 11	<ul><li>Q. Correct.</li><li>A and then we had one, two, three, four of them above their so-called "new limit."</li></ul>
10 11 12	<ul><li>Q. Sure.</li><li>A. Okay.</li><li>Q. I guess he had Mr. Bleich, the plant manager,</li></ul>	10 11 12	<ul> <li>Q. Correct.</li> <li>A and then we had one, two, three, four of them above their so-called "new limit."</li> <li>Q. They had 3 above the new limits: 10.7 being</li> </ul>
10 11 12 13	<ul><li>Q. Sure.</li><li>A. Okay.</li><li>Q. I guess he had Mr. Bleich, the plant manager, sign that Form 11044 which we know provides</li></ul>	10 11 12 13	<ul> <li>Q. Correct.</li> <li>A and then we had one, two, three, four of them above their so-called "new limit."</li> <li>Q. They had 3 above the new limits: 10.7 being above; but 2 significantly above, 14.4 and 14.6, correct?</li> </ul>
10 11 12 13 14	<ul> <li>Q. Sure.</li> <li>A. Okay.</li> <li>Q. I guess he had Mr. Bleich, the plant manager, sign that Form 11044 which we know provides recommendations to acknowledge the receipt of same.</li> </ul>	10 11 12 13 14	<ul> <li>Q. Correct.</li> <li>A and then we had one, two, three, four of them above their so-called "new limit."</li> <li>Q. They had 3 above the new limits: 10.7 being above; but 2 significantly above, 14.4 and 14.6, correct?</li> <li>A. Three of them above, yes.</li> </ul>
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10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Sure.</li> <li>A. Okay.</li> <li>Q. I guess he had Mr. Bleich, the plant manager, sign that Form 11044 which we know provides recommendations to acknowledge the receipt of same. Do you see that?</li> <li>A. Yes.</li> <li>Q. Okay. And, then: "Mr. Lovick, who is plant engineer and personnel manager, remains friendly and I believe would be cooperative if he could. As for the other local management, they class us all as 'arm chair generals.' This is a tough assignment and I felt at the meeting of 5-19-66 that this was on its way to smoothing out, but now I have my doubts. This inspector will keep</li> </ul>	10 11 12 13 14 15 16 17 18 19 20 21 22 23	<ul> <li>Q. Correct.</li> <li>A and then we had one, two, three, four of them above their so-called "new limit."</li> <li>Q. They had 3 above the new limits: 10.7 being above; but 2 significantly above, 14.4 and 14.6, correct?</li> <li>A. Three of them above, yes.</li> <li>Q. Yeah.</li> <li>A. To me, 10.7 is significant because of the toxicity of asbestos.</li> <li>Q. Okay. So looking at this, they talk about different things. It does say here that:     "I understand from both Mr. Kujawa and also</li> <li>Mr. Lovick that the extension of the duct has been canceled by the home office."</li> </ul>

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1	Q. Okay.	1	Q. So while the Maryland Casualty person has
2	A. And I found this document interesting as I was	2	pointed out these issues, W.R. Grace won't acknowledge
3	reading in the Maryland Casualty documents. And it's	3	them, won't accept them, and even though they've done
4	pointing out that we have men showing a worsening of	4	their own engineering on it, won't do it.
	condition when it includes people who don't work in the	5	MR. LEFTRIDGE: Objection; form, foundation,
5	dry mill. Even a man who works in the lab and is wearing	1	-
6		6	argumentative.
7	a respirator, he's getting worse.	7	Q. (By Mr. Longosz) That's what he's saying.
8	Q. Okay.	8	A. Well, the first a couple things. Number 1,
9	A. And then it should give evidence that the dust	9	the engineering using the cyclones, they weren't using
10	in the mill is causing trouble. And he says:	10	state-of-the-art with the baghouses, so it doesn't matter
11	"I think if we could actually show that men	11	what they put on if the cyclone is going to create
12	are facing an exposure, we would have more chance of	12	contamination to the outside atmosphere. And so from that
13	getting somewhere."	13	standpoint, the engineering was faulty to begin with, and
14	And that is their job as providing the industrial	14	Maryland Casualty could not engineer the risk like they
15	hygiene program was to show W.R. Grace that these men are	15	claimed they could.
16	facing an exposure.	16	Q. Did you see any evidence where Maryland
17	Q. And that's what they're doing, and W.R. Grace	17	Casualty provided or suggested they would provide an
18	just won't acknowledge it and ignores the recommendations	18	engineer and ductwork and motors in any other area, to go
19	on a consistent basis.	19	in there and to provide duct engineering, electrical
20	A. Yeah, he said: "If we could show." I don't	20	engineering, fan engineering, exhaust engineering? "Yes"
21	know how they're showing them.	21	or "no."
22	Q. Well, they're showing them. They're providing	22	A. Yes.
23	this information and they're showing them, and just W.R.	23	Q. Okay. Show me exactly where a Maryland
24	Grace won't acknowledge that there's a problem. MR. LEFTRIDGE: Objection; argumentative.	24 25	Casualty engineer went to the site, an engineer in that way, went to the site to make those recommendations?
25	MR. LEFTRIDGE. Objection, argumentative.	23	way, went to the site to make those recommendations?
		1	
	Page 174		Page 176
1	Page 174 THE WITNESS: These are measurements in the	1	Page 176 A. Well, Schneider was an engineer, or whatever
1 2	ç	1 2	
	THE WITNESS: These are measurements in the	1	A. Well, Schneider was an engineer, or whatever
2	THE WITNESS: These are measurements in the dry mill. Q. (By Mr. Longosz) Sure. A. Okay. We're talking about the exposure coming	2	<ul><li>A. Well, Schneider was an engineer, or whatever his name was, and he went to the site. Do I have the name right?</li><li>I mean, so if you look at page 29 of my report: "In</li></ul>
2 3	THE WITNESS: These are measurements in the dry mill. Q. (By Mr. Longosz) Sure.	2 3	<ul> <li>A. Well, Schneider was an engineer, or whatever his name was, and he went to the site. Do I have the name right?</li> <li>I mean, so if you look at page 29 of my report: "In 1964, Maryland Casualty engaged their safety engineers,</li> </ul>
2 3 4	THE WITNESS: These are measurements in the dry mill. Q. (By Mr. Longosz) Sure. A. Okay. We're talking about the exposure coming	2 3 4	<ul><li>A. Well, Schneider was an engineer, or whatever his name was, and he went to the site. Do I have the name right?</li><li>I mean, so if you look at page 29 of my report: "In</li></ul>
2 3 4 5	THE WITNESS: These are measurements in the dry mill. Q. (By Mr. Longosz) Sure. A. Okay. We're talking about the exposure coming from the stack that's vented outside and contaminating the rest of the area where these people are exposed. That's what we're talking about.	2 3 4 5	<ul> <li>A. Well, Schneider was an engineer, or whatever his name was, and he went to the site. Do I have the name right?</li> <li>I mean, so if you look at page 29 of my report: "In 1964, Maryland Casualty engaged their safety engineers,</li> </ul>
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	Page 177		Page 179
1	you described, correct?	1	A. Yeah, they were given those.
2	A. May I go on?	2	Q. Okay. So would you agree with me
3	Q. No, just answer my question first.	3	MR. LONGOSZ: I'm sorry, Dustin. Have you
4	A. Yes.	4	seen this?
5	Q. Okay.	5	Would you mind making a copy of this?
6	A. (Quoted as read): "Maryland Casualty stated	6	(Off-the-record discussion.)
7	that the safety program would cover the 'entire Zonolite	7	Q. (By Mr. Longosz) Dr. Spear, I'm going to show
8	operation in all faces of prevention and control of dust	8	you what is marked previously as Exhibit 110. And
9	conditionsThe contemplated program will be most	9	likewise with respect to this one, we'll integrate it and
10	comprehensive covering all phases of accident prevention	10	give it an MCE number.
11	as well as industrial hygiene."	11	Just for today's purposes, it shows an exhibit
12	And that's Exhibit 23.	12	sticker of 110 down at the bottom, correct?
13	Q. Okay. And we know now that W.R. Grace failed	13	A. Yes.
14	to follow most, if not almost all, recommendations made by	14	Q. And could you identify this document, the date
15	Maryland Casualty; is that correct?	15	and the individuals?
16	A. You may know that, I don't.	16	A. It looks like an R.M. Vining to Peter Kostic,
17	Q. The records speak for themselves, in other	17	with two people copied in, dated August 20, 1968.
18	words.	18	Q. It looks like it's signed by Kostic down at
19	A. The documents say that they complied, they	19	the bottom, so it's probably a memo, look at the bottom,
20	followed this, sometimes they didn't follow this, so	20	probably from Peter Kostic to R.M. Vining with the others
21	Q. And sometimes they wouldn't spend the money to	21	copied in. Does that
22	follow this?	22	A. I see Peter Kostic's name at the bottom, yeah.
23	A. Right.	23	Q. All right.
24	Q. Yeah. And full compliance is absolutely	24	A. I don't know.
25	necessary in order to maintain an appropriate level of	25	Q. And none of these people are Maryland Casualty
	Page 178		Page 180
1	-	1	
1 2	control on a manufacturing facility; is that correct?	1 2	people, and you have no reason to believe that this was
	control on a manufacturing facility; is that correct? A. But we would certainly like to have full	2	
2	control on a manufacturing facility; is that correct?		people, and you have no reason to believe that this was provided to Maryland Casualty.
2 3	<ul><li>control on a manufacturing facility; is that correct?</li><li>A. But we would certainly like to have full</li><li>compliance, but whether or not that's realistic, I don't</li></ul>	2 3	<ul><li>people, and you have no reason to believe that this was provided to Maryland Casualty.</li><li>A. I don't know.</li></ul>
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1	HEW doing a study of the W.R. Grace facility, correct?	1	minus, that were documents I presume you reviewed in
2	A. Yes.	2	connection with this case.
3	Q. And here it talks about, and looking halfway	3	We've talked about a bunch of documents here. Are
4	down the page, if you look at the statement made by	4	there any other documents that you can think of that we
5	Mr. Kostic to others at W.R. Grace, it says: "These	5	didn't cover or blocks of documents that you reviewed, or
6	activities have presented no problems to JM" - referring	6	are you using your body of knowledge of things that you've
7	to the HEW activities.	7	looked at through the years?
8	Do you see that?	8	A. Well, no, I've reviewed the Spear exhibits
9	A. Yes.	9	that were in the initial
10	Q. "They are not kept under wraps but rather	10	Q. Yeah.
11	employees are informed of what's going on."	11	A and then I reviewed the Grace common
12	Do you see that?	12	exhibits, and then the Hutt exhibits.
13	A. Yes.	13	Q. Okay.
14	Q. Okay.	14	A. And I've also got medical records and Hutt's
15	A. He's referring to JM, correct?	15	deposition.
16	Q. Yes.	16	Q. You've reviewed Hutt's deposition?
17	A. Okay.	17	A. I did.
18	Q. But this was in August 20, 1968. Mr. Kostic,	18	Q. Okay. And you also were able to speak to
19	knowing that JM informed employees of what was going on	19	Mr. Hutt?
20	knew that at least one other company, manufacturing	20	A. On the phone, yeah.
21	facility, informed employees of what was going on at their	21	Q. Right. Did you speak with anybody else in
22	facility, correct?	22	connection with formulating your opinions in this case,
23	A. Yes.	23	other than lawyers, but any outside industrial hygienist,
24	Q. And, certainly, there was no reason for W.R.	24	or certified industrial hygienist, or anybody of that
25	Grace not to inform employees at the W.R. Grace facility	25	nature to assist you?
	Page 182		Page 184
1	as to what was going on; is that correct?	1	A. No.
2	A. Well, they didn't inform them. I don't know	2	Q. I know you have literature that you've
3	how	3	reviewed through the years. Is there any particular
4	Q. My question is: There's no reason for them	4	article or piece of literature that you're specifically
5	not to inform employees at the W.R. Grace facility, the	5	relying upon in connection with your opinions for this
6	Libby facility, of what was going on?	6	case?
7	A. There was every reason to inform them, yes.	7	A. Specifically, you know, I think the
8	Q. Okay. And they knew that there was every	8	bibliography in my report is pretty extensive.
9	reason to inform them as of August 20, 1968, if not	9	Q. Right.
10	before, correct?	10	A. And, then, certainly, that is in addition to
11	A. Yeah, it would have been before, yes.	11	my body of literature that I have been accumulating over
12	Q. Okay.	12	the last 30 years, which I have in my office. And so,
13	A. When they were described the toxicity from Ben	13	yeah, I just read a lot of literature.
14	Wake to them.	14	Q. I just wanted to know if there's any
15	Q. Right. And Mr. Hutt certainly, during the	15	sometimes with certain cases, there's specific situations.
16	time Mr. Hutt was employed at the Libby facility, they had	16	Somebody can say, "Oh, yeah, I've kind of pulled this one
17	every reason to inform the employees of what was going on	17	off the shelf or this one off the shelf," specifically, as
18	at the Libby mine, correct?	18	opposed to, obviously, the compendium of things you've
19	A. Yes. Mr. Hutt was not informed.	19	looked at through the years and put in your bibliography.
20		00	A. I don't think I could point to anything.
20	MR. LONGOSZ: Let's take five.	20	The Tubilit unine Tooland point to anything.
20 21	MR. LONGOSZ: Let's take five. (A brief recess was taken.)	21	Q. Okay. Have you, in connection with your
		21 22	Q. Okay. Have you, in connection with your opinions, reviewed any practices, procedures, best
21	(A brief recess was taken.)	21 22 23	Q. Okay. Have you, in connection with your opinions, reviewed any practices, procedures, best practices for loss-control people, such as Mr. Park back
21 22 23 24	<ul><li>(A brief recess was taken.)</li><li>BY MR. LONGOSZ:</li><li>Q. Let me ask you a few questions about your review, just so I understand what you did review. I had a</li></ul>	21 22 23 24	Q. Okay. Have you, in connection with your opinions, reviewed any practices, procedures, best practices for loss-control people, such as Mr. Park back in the 1960s, on behalf of a workers' compensation
21 22 23	(A brief recess was taken.) BY MR. LONGOSZ: Q. Let me ask you a few questions about your	21 22 23	Q. Okay. Have you, in connection with your opinions, reviewed any practices, procedures, best practices for loss-control people, such as Mr. Park back

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	Page 185		Page 187
1	A. I have not. I review standard practices all	1	state-of-the-art equipment, this equipment should have
2	the time in industrial hygiene, but not specific to what	2	been in that facility, this equipment would have had this
3	you're saying there.	3	output, and this equipment would have collected this
4	Q. Okay. And then have you talked with or	4	amount of dust. You didn't do that?
5	consulted with any individuals from insurance companies	5	A. I didn't go through that process, no.
6	that would know what the standard risk-engineering or	6	Q. Did you take what was being done at Lompoc
7	loss-prevention services would have been pursuant to a	7	facility for JM and translate to how that could have been
8	workers' compensation policy back in the 1960s?	8	implemented at the Libby facility?
9	A. I have not.	9	A. Well, by "translate," yeah, the mills were
10	Q. Okay. Did you independently conduct a risk	10	similar, so it would have meant putting in a much higher
11	engineering survey strike that.	11	air volume and putting in cleaning stations and all of the
12	Did you independently prepare an engineering survey	12	things talked about in that Lompoc. But I didn't, other
13	of the W.R. Grace facility in the 1960s?	13	than the way I describe it in my report.
14	A. Did I prepare an engineering survey?	14	Q. Before seeing that Lompoc report by Grace or
15	Q. Yes.	15	summary by Grace, were you aware of the Lompoc facility?
16	A. I guess I don't know what you mean by	16	A. Yes, I read about the Lompoc a long time ago.
17	"engineering survey."	17	Q. Did you make any cost assessment as to what it
18	Q. Okay. Did you sit down and prepare what	18	would have cost W.R. Grace in the 1960s - 1968, '67, '68,
19	should have been, if you were going to be an industrial	19	'69 - to the W.R. Grace Libby facility with the same
20	hygienist in your profession, certified industrial	20	equipment that was at Lompoc?
21	hygienist well, you're not certified, so an industrial	21	A. I did not.
22	hygienist in your profession, did you sit down and prepare	22	Q. Did you conduct or prepare any cost benefit
23	an industrial hygiene program for the W.R. Grace facility	23	analysis for the purposes of this case?
24	in the 1960s?	24	A. I did not.
25	A. I have not. I've, you know, read over all	25	Q. Now, it's my understanding that you have given
	Page 186		Page 188
1	Page 186	1	Page 188
1	their documents over the years and even for this case. A	1	testimony or had opinions prior to this case, the Hutt
2	their documents over the years and even for this case. A lot of them just draw conclusions based on the way they	2	testimony or had opinions prior to this case, the Hutt case, against a variety of entities, including W.R. Grace
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	Page 189		Page 191
1	Q. You also gave opinions that W.R. Grace did not	1	was supposed to read something.
2	have a proper respirator program at the Libby facility; is	2	Q. Do you hold the opinion that W.R. Grace,
3	that correct?	3	through the 1960s, had an inadequate and was in violation
4	A. Yes.	4	of industrial standards, including housekeeping,
5	Q. You also gave opinions that W.R. Grace failed	5	maintenance, ventilation capacity, and exhaust air
6	to properly control the dust at the Libby facility.	6	cleaning?
7	A. Yes.	7	A. Yes.
8	Q. You also gave opinions that the TLVs, or at	8	Q. And it's your opinion that W.R. Grace had
9	least the values that they were using, were incorrect at	9	proper dust control available and it was feasible at that
10	the Libby facility; is that correct?	10	time, correct?
11	A. Yes.	11	A. Yes.
12	Q. And all of those opinions, in your view, led	12	Q. Did you conduct any proper dust control
13	to them being negligent in the way in which they	13	feasibility studies that you can point me to in the 1960s
14	manufactured, mined, and addressed worker safety; is that	14	that you performed?
15	correct?	15	A. No.
16	A. Well, repeat that one more time. Sorry, I got	16	Q. It's your opinion that W.R. Grace's measures
17	a little lost.	17	for protection of workers and their family members from
18	Q. Okay. The violation of all those things - the	18 19	toxic dust was inadequate and in violation of industrial
19 20	respirator program, the education program, the failure to control dust, and the TLV value - all contributed to W.R.	20	hygiene standards? A. Yes.
20 21	Grace's negligence in properly protecting the worker.	20	Q. And it's your opinion that W.R. Grace knew or
21	A. Yes. Whether or not that covers everything of	$21 \\ 22$	should have known how to properly control dust at the
22	what I talked about in those previous reports since I	22	facility; is that correct?
23 24	don't have it.	23	A. Well, if they didn't know, they should have
25	Q. At least those four areas?	25	sought help, which is, I believe, what they were getting
	Page 190		Page 192
1	A. Yes.	1	out of Maryland Casualty.
2	Q. And there may be more?	2	Q. Well, it's been your opinion, and you still
3	A. There could be.	3	hold the opinion, that W.R. Grace knew or should have
4	Q. Now, you also are aware that Zonolite owned	4	known what the standards for proper industrial hygiene
5	that facility prior to Grace purchasing it in 1962-63,	5	were in the W.R. Grace facilities in the 1960s.
6	correct?	6	A. Yes.
7	A. Right.	7	Q. And their failure, W.R. Grace's failure to
8	Q. And Grace inherited the Zonolite operation,	8	understand what those standards were and comply with them
9	correct?	9	was a violation of industrial hygiene standards; is that
10	A. They bought it.	10	correct?
11 12	Q. So they inherited what was there.	11 12	<ul><li>A. Yes.</li><li>Q. Irrespective of what Maryland Casualty may or</li></ul>
12	A. I guess. They bought it; I don't know what they inherited.	12	Q. Irrespective of what Maryland Casualty may or may not have told Grace or what Maryland Casualty's advice
13	Q. So you have the opinion with respect to W.R.	13	was to Grace, Grace had an independent responsibility, as
15	Grace that up until the early at least through the	15	the employer, to assure that proper industrial hygiene
16	1960s, that dust control at the Libby facility was	16	standards were complied with. You'd agree with that?
17	inadequate and in violation of industrial hygiene	17	A. Yes.
18	standards including housekeeping, maintenance, ventilation	18	Q. You'd also agree that W.R. Grace knew and
19	capacity, and exhaust air cleaning; is that correct?	19	should have been well aware of occupational medicine,
20	A. Are you reading off an affidavit or are you	20	industrial hygiene literature in the 1960s.
21	just reading notes?	21	A. Yes.
22	Q. I'm asking you that question.	22	Q. You would also agree with me that W.R. Grace
23	A. Are these your notes?	23	acted irresponsibly for many years with respect to the
24	Q. Do you hold that opinion?	24	mining and milling operation in Libby.
25	A. Yeah, one more time. Sorry, I don't know if I	25	A. Yes.

	Page 193		Page 195
1	Q. You would also agree with me that the W.R.	1	correct?
2	Grace company can inform itself by searching literature	2	MR. LEFTRIDGE: Objection; asked and answered.
3	and conducting studies as to proper industrial hygiene	3	THE WITNESS: Yeah, I don't, know. I've given
4	considerations?	4	opinions that pertain to Maryland Casualty in the Girard
5	A. Can inform itself?	5	case, if that's the right name, yeah. Not whether or
6	Q. That W.R. Grace can inform itself by searching	6	not
7	literature or conducting studies as to proper industrial	7	Q. (By Mr. Longosz) That's it, but you've never
8	hygiene compliance.	8	mentioned W.R. Grace, you've never mentioned strike
9	A. Yeah, any company had a responsibility to	9	that.
10	search the literature and see what they're saying about	10	You had never mentioned Maryland Casualty in any
11	toxins and what the controls are, sure.	11	opinion or in any case arising out of the Libby mine that
12	Q. And you would agree with me that the central	12	you've given testimony; is that correct? "Yes" or "no."
13	principles of industrial hygiene through the literature	13	MR. LEFTRIDGE: Objection; asked and answered.
14	are to study, to warn, and to protect the workers; is that	14	THE WITNESS: With all the depositions I've
15	correct?	15	given, I can't make a blanket statement, I mean.
16	A. Yes. We have to study it, we have to warn the	16	Q. (By Mr. Longosz) Do you recall any instances
17	workers, and we have to protect the workers, sure.	17	where you have, in a deposition, mentioned Maryland
18	Q. And you would agree with me that W.R. Grace	18	Casualty as providing any type of industrial hygiene
19	had the responsibility for warning its workers with	19	services to W.R. Grace?
20	respect to any hazards in the W.R. Grace facility, the	20	A. I could not recall any sitting right here
21	Libby facility.	21	today, but I've given a lot of depositions.
22	A. W.R. Grace and Maryland Casualty, yes.	22	Q. Can you remember any opinion or report that
23	Q. My question is that: W.R. Grace had the	23 24	you've written in any of these cases with respect to W.R. Grace where you have indicated that Maryland Casualty had
24 25	responsibility to warn and to protect its workers in the Libby facility?	24	any input regarding recommendations to W.R. Grace?
23	Libby facility?	25	any input regarding recommendations to w.r. Orace:
	Page 194		Page 196
1	MR. LEFTRIDGE: Objection; asked and answered.	1	A. I couldn't point to a specific example. I
2	THE WITNESS: They had responsibility, the	2	don't know if I did or I didn't.
3	State of Montana had a responsibility, and so did Maryland	3	Q. I'm trying to understand what your opinions
4	Casualty.	4	are with respect to the State. What opinions did you have
5	Q. (By Mr. Longosz) You just told me, you told me	5	with respect to the State of Montana?
6	long ago that W.R. Grace had the responsibility to its own	6	A. That they failed to inform the workers and the
7	workers, and it was the sole responsibility of W.R. Grace	7	public about the toxic exposures to Libby amphibole
8	to its workers; is that correct? Because it's the		asbestos.
9	employer.	9	Q. And how and when were they to notify the
10			
	A. Yes, but they're relying on industrial hygiene	10	workers and the community about the toxic exposure?
11 12	service.	11	A. The same way we would describe providing
12	service. Q. You'd agree with me that W.R. Grace's conduct	11 12	A. The same way we would describe providing warning in my report, you know: Flyers, leaflets,
12 13	service. Q. You'd agree with me that W.R. Grace's conduct in this case well, strike that.	11 12 13	A. The same way we would describe providing warning in my report, you know: Flyers, leaflets, pamphlets. And Wake, essentially, attempted to get his
12 13 14	service. Q. You'd agree with me that W.R. Grace's conduct in this case well, strike that. In none of your opinions prior to today and in this	11 12 13 14	A. The same way we would describe providing warning in my report, you know: Flyers, leaflets, pamphlets. And Wake, essentially, attempted to get his inspection reports made public, and then he was
12 13 14 15	service. Q. You'd agree with me that W.R. Grace's conduct in this case well, strike that. In none of your opinions prior to today and in this Hutt case have you ever mentioned Maryland Casualty, nor	11 12 13 14 15	A. The same way we would describe providing warning in my report, you know: Flyers, leaflets, pamphlets. And Wake, essentially, attempted to get his inspection reports made public, and then he was erroneously told by the attorney general that he could not
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12 13 14 15 16 17 18 19 20 21 22	<ul> <li>service.</li> <li>Q. You'd agree with me that W.R. Grace's conduct in this case well, strike that.</li> <li>In none of your opinions prior to today and in this</li> <li>Hutt case have you ever mentioned Maryland Casualty, nor have you ever pointed to Maryland Casualty as advising or providing advice to W.R. Grace or recommendations; is that correct?</li> <li>A. Yeah, I mean, I've written the affidavit in</li> <li>Girard that was against Maryland Casualty, I believe.</li> <li>Q. Of all the depositions and all the opinions that you have given, okay, through the years, the last 20</li> </ul>	11 12 13 14 15 16 17 18 19 20 21 22	<ul> <li>A. The same way we would describe providing warning in my report, you know: Flyers, leaflets, pamphlets. And Wake, essentially, attempted to get his inspection reports made public, and then he was erroneously told by the attorney general that he could not release those reports.</li> <li>Q. So what you're saying is that the State of Montana should have provided warnings in the Libby facility?</li> <li>A. Yes.</li> <li>Q. Separate and apart from W.R. Grace?</li> <li>A. Yes. In conjunction with, since Grace wasn't</li> </ul>

	Page 197		Page 199
1	A. I mean, I don't know if that's a legal	1	the W.R. Grace facility?
2	question. I know that, based on the Orr decision, I	2	A. I don't believe so.
3	believe that they concluded that they had	3	Q. Do you have records of the individuals you
4	Q. Well, I'm not asking you okay, let me	4	spoke with who worked at the facility?
5	phrase it another way.	5	A. Oh, I'm sure I have records. I could have
6	Are you aware of whether in the 1960s the State of	6	records somewhere. I don't know.
7	Montana had any enforcement power relative to the W.R.	7	Q. Have you reviewed any of those specific
8	Grace Libby facility?	8	records for the time frame 1968 to 1969 when Mr. Hutt was
9	MR. LEFTRIDGE: Objection; calls for a legal	9	working at W.R. Grace, any co-workers, any co-worker
10	conclusion.	10	records during that '68 to '69 time period?
11	THE WITNESS: Yeah, I mean, like I say, I just	11	A. No.
12	know what transpired in the Orr decision.	12	Q. I'm just going to review my notes.
13	Q. (By Mr. Longosz) I don't want to know about	13	Have we, through your report or your testimony, have
14	the Orr decision. I want to know what you know about any	14	we covered all the opinions, at least at this point in
15	of the State of Montana's enforcement power in the 1960s,	15	time, that you can remember that you will be called upon
16	if you know.	16	to testify to?
17	MR. LEFTRIDGE: Same objection.	17	Obviously, if there's anything else that comes up,
18	THE WITNESS: Yeah, I don't know. I mean,	18	you'll let us know in supplement. But either your report
19	typically, you know, at that time, the states did not have	19	or your testimony, if we combine those two, will that be
20	enforcement. They had to be invited into places. But	20	the opinions you tend to render at the trial in this
21	whether or not that applied, I don't know. I don't know	21	matter?
22	if it's a legal conclusion or not.	22	A. At this time, yeah.
23	Q. (By Mr. Longosz) Well, let me ask you this:	23	Q. Okay. That's all I have.
24	You have not surveyed the literature nor the statutes to	24	MR. LEFTRIDGE: Give us 10 minutes.
25	understand whether the State had the enforcement power in	25	(A brief recess was taken.)
			()
	Page 198		Page 200
1	the 1960s; is that correct?	1	THE WITNESS: I pass the witness.
2	A. Well, I've looked at literature. I don't know	2	BY MR. LEFTRIDGE:
3	if I've looked at the statutes or not. I could have, but	3	Q. Dr. Spear, I just have a few questions for
4	I don't remember.	4	you. One of the first things we were talking about this
5	Q. Do you know if there's any entity other than	5	morning, Mr. Longosz had a line of questions regarding
6	W.R. Grace itself that could shut down the Libby	6	OSHA in the 1970sand some of the standards of the
7	operations to enact safety considerations in the mine?	7	industrial hygiene standards associated with OSHA.
8	A. Well, I believe in my state case that you're	8	Can you describe to us the basis of industrial
9	talking about, I opine that they had the power to shut	9	hygiene knowledge and practices pre OSHA. Where does that
10	them down because they had done so at the phosphate plant	10	information come from?
11	and different places.	11	A. Well, it really comes from the literature. I
			-
12	Q. You'd agree with me, and it's your opinion,	12	mean, industrial hygiene became part of the Public Health
13	that the State could have immediately initiated an	13	mean, industrial hygiene became part of the Public Health Service back in like 1914, or something like that. The
13 14	that the State could have immediately initiated an industrial hygiene program to remove the asbestos hazard,	13 14	mean, industrial hygiene became part of the Public Health Service back in like 1914, or something like that. The original industrial hygienists were guys like Bloomfield
13 14 15	that the State could have immediately initiated an industrial hygiene program to remove the asbestos hazard, prevent further asbestos-related disease, and conducted a	13 14 15	mean, industrial hygiene became part of the Public Health Service back in like 1914, or something like that. The original industrial hygienists were guys like Bloomfield who were engineers. They were performing industrial
13 14 15 16	that the State could have immediately initiated an industrial hygiene program to remove the asbestos hazard, prevent further asbestos-related disease, and conducted a public information campaign to disseminate pertinent	13 14 15 16	mean, industrial hygiene became part of the Public Health Service back in like 1914, or something like that. The original industrial hygienists were guys like Bloomfield who were engineers. They were performing industrial hygiene doing surveys, writing reports, and then it
13 14 15 16 17	that the State could have immediately initiated an industrial hygiene program to remove the asbestos hazard, prevent further asbestos-related disease, and conducted a public information campaign to disseminate pertinent information to workers, their families, and the general	13 14 15 16 17	mean, industrial hygiene became part of the Public Health Service back in like 1914, or something like that. The original industrial hygienists were guys like Bloomfield who were engineers. They were performing industrial hygiene doing surveys, writing reports, and then it evolved over time.
13 14 15 16 17 18	that the State could have immediately initiated an industrial hygiene program to remove the asbestos hazard, prevent further asbestos-related disease, and conducted a public information campaign to disseminate pertinent information to workers, their families, and the general community?	13 14 15 16 17 18	mean, industrial hygiene became part of the Public Health Service back in like 1914, or something like that. The original industrial hygienists were guys like Bloomfield who were engineers. They were performing industrial hygiene doing surveys, writing reports, and then it evolved over time. So, you know, the basic principles of industrial
13 14 15 16 17 18 19	<ul><li>that the State could have immediately initiated an industrial hygiene program to remove the asbestos hazard, prevent further asbestos-related disease, and conducted a public information campaign to disseminate pertinent information to workers, their families, and the general community?</li><li>A. Yeah, they recommended an industrial hygiene</li></ul>	13 14 15 16 17 18 19	<ul> <li>mean, industrial hygiene became part of the Public Health</li> <li>Service back in like 1914, or something like that. The</li> <li>original industrial hygienists were guys like Bloomfield</li> <li>who were engineers. They were performing industrial</li> <li>hygiene doing surveys, writing reports, and then it</li> <li>evolved over time.</li> <li>So, you know, the basic principles of industrial</li> <li>hygiene have been pretty consistent over the many, many</li> </ul>
13 14 15 16 17 18 19 20	<ul> <li>that the State could have immediately initiated an industrial hygiene program to remove the asbestos hazard, prevent further asbestos-related disease, and conducted a public information campaign to disseminate pertinent information to workers, their families, and the general community?</li> <li>A. Yeah, they recommended an industrial hygiene program. Along those lines, I don't know if Wake had the</li> </ul>	13 14 15 16 17 18 19 20	<ul> <li>mean, industrial hygiene became part of the Public Health</li> <li>Service back in like 1914, or something like that. The</li> <li>original industrial hygienists were guys like Bloomfield</li> <li>who were engineers. They were performing industrial</li> <li>hygiene doing surveys, writing reports, and then it</li> <li>evolved over time.</li> <li>So, you know, the basic principles of industrial</li> <li>hygiene have been pretty consistent over the many, many</li> <li>years. I mean, obviously, our knowledge changes about the</li> </ul>
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,	Page 201		Page 203
1	Q. There was also an extensive discussion this	1	A. Yes.
2	morning regarding whether or not Maryland Casualty	2	Q. So they're saying that Grace will be well
3	provided industrial hygiene services versus whether or not	3	prepared to plan for the future by close observation of
4	they were providing loss prevention analysis.	4	industrial hygiene practices which are established?
5	Based upon your review of the records, did Maryland	5	A. Correct.
6	Casualty embark on providing an industrial hygiene	6	Q. What is the significance of that sentence to
7	program?	7	you?
8	MR. LONGOSZ: Objection; form, foundation.	8	A. Well, that they were formulating a plan for
9	Go ahead.	9	industrial hygiene controls to control lung disease and
10	THE WITNESS: Yes.	10	prevent asbestosis.
11	Q. (By Mr. Leftridge) Let me direct you to a few	11	Q. So Mr. Park is recommending or referring to
12	exhibits. If we could turn to MCE-22. I don't recall if	12	the best industrial hygiene practices. Is that your
13	we looked at this one this morning, but this is a letter	13	understanding?
14	of 1964 from Park to Trimmer; is that correct?	14	A. Yes.
15	A. Yes.	15	Q. And I'll turn your attention to MCE-73. And
16	Q. And on page 1 in Paragraph 3, we're talking	16	this is a document to Mr. Rupp at W.R. Grace written by
17	about the development of the program. It states: "We are	17	Park, is that correct, from Maryland Casualty?
18	particularly interested at this time in the industrial	18	A. Yes.
19	hygiene portion of that program."	19	Q. And on page 2 at the very top, it's talking
20	Do you see that?	20	about the million particles per cubic foot in the TLV. Do
21	A. Yes.	21	you see that?
22	Q. What is the significance of that in your	22	A. Yeah, let me read the that.
23	opinion?	23	Q. It's on the first page, it's talking about
24	MR. LONGOSZ: Objection; form.	24	A. Yeah, it's talking about it at the bottom of
25	THE WITNESS: Well, that, you know, they	25	the first page.
	Page 202		Page 204
1	Page 202 recognize, Maryland Casualty recognized the fact that	1	Page 204 Q. ACGIH and TLV standards?
1 2	recognize, Maryland Casualty recognized the fact that there was a significant health hazard in the facility, and	2	<ul><li>Q. ACGIH and TLV standards?</li><li>A. Yes. He's explaining that these limits are</li></ul>
	recognize, Maryland Casualty recognized the fact that there was a significant health hazard in the facility, and so they were, basically, doing the industrial hygiene		<ul><li>Q. ACGIH and TLV standards?</li><li>A. Yes. He's explaining that these limits are based on the best available information.</li></ul>
2	recognize, Maryland Casualty recognized the fact that there was a significant health hazard in the facility, and so they were, basically, doing the industrial hygiene portion to, I assume, control it.	2 3 4	<ul><li>Q. ACGIH and TLV standards?</li><li>A. Yes. He's explaining that these limits are</li></ul>
2 3	recognize, Maryland Casualty recognized the fact that there was a significant health hazard in the facility, and so they were, basically, doing the industrial hygiene portion to, I assume, control it. Q. And that would be the industrial hygiene	2 3 4 5	<ul><li>Q. ACGIH and TLV standards?</li><li>A. Yes. He's explaining that these limits are based on the best available information.</li><li>Q. And on the top of page 2, it says, regarding the TLV standard:</li></ul>
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	Page 205		Page 207
1	hygiene and interpreted and applied by persons trained in	1	safety program that we were looking at earlier, wasn't the
2	this field. And then later on, he says that Mr. Walker	2	only time that Maryland Casualty made recommendations to
3	has made the recommendations of 5 million particles per	3	Grace; is that right?
4	cubic foot.	4	A. That's correct.
5	A. Yes, I see that.	5	Q. Then, in fact, there were recommendations
6	Q. What is the significance of these statements	6	being made in correspondence as well as inspection
7	to you?	7	reports. Is that your understanding?
8	MR. LONGOSZ: Objection to form.	8	A. Yes.
9	THE WITNESS: Well, that they were industrial	9	Q. There was a lot of talk today about the
10	hygienists and they were with industrial hygiene in making	10	threshold limit value of 5 million particles per cubic
11	the recommendations.	11	foot.
12	Q. (By Mr. Leftridge) Does it continue to be your	12	A. Yes.
13	position that Maryland Casualty was offering	13	Q. And you were asked questions about the
14	recommendations in the field of industrial hygiene?	14	recommendations from Maryland Casualty, the TLV
15	A. Yes.	15	recommended by the State, the TLV advocated for by W.R.
16	Q. We also talked this morning, and	16	Grace. Do you remember all of that?
17	Mr. Longosz asked you to point to a specific document in	17	A. Yes.
18 19	which W.R. Grace accepted the safety program. Do you	18 19	Q. Is it your opinion that 5 million particles
20	recall that line of questioning? A. Yes.	20	per cubic foot of air was sufficient to protect the health of workers?
20	Q. And at the time, you pointed to a particular	20	A. No. It's my opinion that the TLV of 5 million
21	document regarding the formulation of the plan.	21	particles per cubic foot was, basically, an engineering
23	A. Correct.	22	number to try to meet. And I believe it's so stated by
24	Q. And you weren't able to identify any specific	24	the ACGIH, that their limit was not intended as a safe
25	document that said we accept, "we," W.R. Grace, accept	25	line between safe and not safe.
	Page 206		Page 208
1	Page 206 Maryland Casualty's plan; is that right?	1	Page 208 And, you know, there's no limit that could be really
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	Page 209		Page 211
1	toxic constituents, including the asbestos, and design the	1	hygiene program" that you can recall?
2	controls accordingly. And if the controls don't work,	2	A. Not that I can recall.
3	then we have to make sure we use other controls such as	3	MR. LONGOSZ: I have no further questions.
4	training the worker, providing work practice controls, and	4	(Off-the-record discussion.)
5	personal protective equipment.	5	MR. LONGOSZ: In response to the deposition
6	Q. There was some questions regarding W.R. Grace	6	notice, Dr. Spear brought his flash drive of documents
7	and whether or not they had the sole responsibility as the	7	that we are submitting as an exhibit to this deposition.
8	employer to conduct a number of activities at the mill.	8	We'll mark it as the next common exhibit
9	Do you recall those questions?	9	number when we go back and finalize the list.
10	A. Yes.	10	(The document concluded at
11	Q. And is it your testimony that W.R. Grace had	11	approximately 4:45 p.m.)
12	the sole responsibility to provide warnings to employees?	12	
13	MR. LONGOSZ: Objection; asked and answered.	13	* * * * *
14	THE WITNESS: No.	14	
15	Q. (By Mr. Leftridge) Dr. Spear, you provided a	15	
16	very extensive expert report in this case. And after a	16	
17	very long deposition today, going over many of those	17	
18	documents that you cite, as well as your report itself,	18	
19	was there anything in the deposition today that changed	19	
20	any of the expert opinions that you rendered in your	20	
21	report?	21	
22	A. No.	22	
23	MR. LEFTRIDGE: I have no further questions.	23	
24	MR. LONGOSZ: I just have one or two	24	
25	follow-ups.	25	
	Page 210		Page 212
1	BY MR. LONGOSZ:	1	STATE OF MONTANA )
	DI MIC ECITOODE.		
2	O Looking at again Exhibit No MCE-36 do you		:
2	Q. Looking at, again, Exhibit No. MCE-36, do you see that?	2	: County of Silver Bow )
3	see that?	2 3	: County of Silver Bow )
3 4	see that? A. Yes.	2 3 4	: County of Silver Bow ) I, Candice L. Nordhagen, Court Reporter - Notary
3 4 5	see that? A. Yes. Q. The title of it is "Safety Program and	2 3	: County of Silver Bow ) I, Candice L. Nordhagen, Court Reporter - Notary Public in and for the County of Silver Bow, State of
3 4	see that? A. Yes. Q. The title of it is "Safety Program and Organization," correct?	2 3 4 5 6 7	: County of Silver Bow ) I, Candice L. Nordhagen, Court Reporter - Notary Public in and for the County of Silver Bow, State of Montana, do hereby certify:
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3 4 5 6 7 8	<ul> <li>see that?</li> <li>A. Yes.</li> <li>Q. The title of it is "Safety Program and Organization," correct?</li> <li>A. Yes.</li> <li>Q. The title of it is not "Industrial Hygiene</li> </ul>	2 3 4 5 6 7 8 9	: County of Silver Bow ) I, Candice L. Nordhagen, Court Reporter - Notary Public in and for the County of Silver Bow, State of Montana, do hereby certify: That the witness in the foregoing deposition, Terry Spear, Ph.D., was by me first duly sworn according to law
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1 2 3	DEPOSITION OF: TERRY SPEAR, Ph.D. DEPOSITION DATE: NOVEMBER 2, 2018 IN RE: ASBESTOS LITIGATION, HUTT vs. MARYLAND CASUALTY COMPANY	
4	COURT REPORTER: CANDICE L. NORDHAGEN	
5 6	I have read my deposition and make the following corrections or additions:	
7 8 9	PAGE # LINE CORRECTION	
10 11 12 13		
13 14 15 16		
10 17 18 19		
20 21		
22 23	Signed under penalty of perjury this day of,	
24		
25	Terry Spear, Ph.D.	

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