1	NO. 07-CI-008553 JEFFERSON CIRCUIT COURT
2	DIVISION EIGHT (8) JUDGE A. C. MCKAY CHAUVIN
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4	ERIC KEELING, et al. PLAINTIFFS
5	ERIC RELLING, EC AL. PLAINIFFS
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7	VS. REMOTE DEPOSITION FOR THE DEFENDANT
8	VS. REMOTE DEFOSITION FOR THE DEFENDANT
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10	ROHM AND HAAS COMPANY DEFENDANT
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16	DEPONENT: NANCY M. McCLELLAN
17	DATE: APRIL 13, 2021
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19	
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20	
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1 APPEARANCES 2 FOR THE PLAINTIFFS: 3 GLEN M. CONNOR Quinn, Connor, Weaver, 4 Davies & Rouco, LLP 2700 Highway 280, Suite 380 5 Birmingham, Alabama 35223 gconnor@qcwdr.com б 7 FOR THE DEFENDANT: 8 RAYMOND A. KRESGE Cozen O'Connor 9 One Liberty Place 1650 Market Street, Suite 2800 10 Philadelphia, Pennsylvania 19103 rkresge@cozen.com 11 12 ALSO PRESENT: 13 SEAN OATES, Moderator AMY WORDEN 14 15 16 17 18 19 20 21 22 23 24 25

1 The remote deposition of NANCY M. 2 McCLELLAN, taken with the witness being present in her 3 home, Michigan, on Tuesday, the 13th day of April, 4 2021, at approximately 1:10 p.m.; said deposition 5 being taken pursuant to Notice for use in accordance with the Kentucky Rules of Civil Procedure. 6 7 8 9 10 MODERATOR: It is Tuesday, April 13th, 11 1:10 p.m. and we are now on the record. 12 COURT REPORTER: The witness will now 13 be sworn remotely by agreement of all parties. 14 15 NANCY M. McCLELLAN, after first being 16 duly sworn, was examined and testified as follows: 17 18 EXAMINATION 19 20 BY MR. KRESGE: 21 Good afternoon. 0. 22 Α. Good afternoon. 23 My name is Ray Kresge. I'm an Q. 24 attorney for Rohm and Haas Company, which is the 25 defendant in a lawsuit that has been brought by Eric

1 Keeling and approximately 160 other former or existing 2 production operators at the Louisville plant that had 3 been operated by Rohm and Haas and they were acquired 4 by Dow Chemical Company. This is in the action 5 captioned Keeling versus Rohm and Haas, which is Civil No. 07-005853 (sic). This is a civil lawsuit pending 6 7 in the Jefferson Circuit Court in Kentucky. Have you 8 ever been -- please state your name for the record. 9 Α. Nancy Manning McClellan. 10 And have you ever been deposed before? 0. 11 Yes. Α. 12 Okay. When -- when were you deposed Ο. 13 last? 14 Α. Well, I gave testimony in February. 15 Okay. And do you have a testimony Ο. 16 list that you have compiled as part of being an 17 expert? 18 No, I do not. Α. 19 Okay. So in February you testified, 0. 20 and how about before February? Have you ever 21 testified in a deposition as -- or at trial as an 22 expert? 23 Α. Yes. 24 Ο. Okay. And when -- how many -- about 25 how many times have you been -- have you testified?

1	1 A. Probably five to sev	ven times.
2	2 Q. Okay. And tell me a	about the cases in
3	3 which you've testified. Let's start	t with February of
4	4 2021.	
5	5 A. Well, in February 20)21 it's a case
6	6 regarding facility pandemic resilier	nce. I represented
7	7 the plaintiff, In Flight Services, o	lefendant was
8	8 Stockbridge Aventura, in the Miami-I	Dade County in
9	9 Florida.	
10	Q. And what was the spe	ecific issue that
11	11 you were providing an expert opinion	ı on?
12	A. The resilience or th	ne pandemic
13	¹³ resilience of the facility in order	that it be
14	14 occupied by people in a safe manner	
15	Q. Okay. And what was	the position that
16	16 you what was your opinion in that	deposition?
17	A. The facility was not	prepared for
18	18 people to occupy it.	
19	Q. Has there been any p	resolution to that
20	20 case?	
21	A. Yes. My side won.	
22	Q. Okay. And did you e	end up having to
23	23 testify at all at trial?	
24	A. Yes.	
25	Q. Okay. And when did	you testify in

1 trial? 2 Α. In February. 3 Oh, I see. So your February testimony 0. 4 was a trial testimony. Did you have any testimony 5 before that in that case that was deposition 6 testimony? 7 Α. No. 8 0. And what court was that? I know you 9 said you were down in Miami, but what court was it? 10 I think it was in the -- it's in the Α. 11 judicial court in Miami-Dade County. I could look it 12 up for you if you'd like. 13 Okay. Well, that's -- that's okay for Ο. 14 Maybe we can get -- through Mr. Connor we can now. 15 get a list of your testimony and the specific case and 16 the court in which you testified. 17 Before February 2021 in Miami, did you 18 testify in any trial before? 19 Yes, it was probably previous to 2011 Α. 20 when I returned to industry working directly for two 21 large corporations. 22 And so you're saying between -- let's 0. 23 say 2012 and 2020, in that period did you testify at 24 all --25 Α. No.

1	Q	- either by deposition or at trial as
2	an expert?	
3	A. N	Io.
4	Q. I	et me Jess mentioned a couple of
5	ground rules whic	h I know you're familiar with, I'm
б	sure, in terms of	having testified before, but if you
7	could just simply	wait for my question to be fully
8	asked before answ	vering so the court reporter can take
9	it down. Also, p	lease tell me if you do not hear any
10	one of my questic	ons, I'll be glad to repeat it.
11	Please tell me if	you do not understand any one of my
12	questions and I'l	l be glad to rephrase it. If you
13	answer any one of	my questions, I'll presume that you
14	both heard and un	derstood the question. Is all of
15	that understood?	
16	А. Ү	Zes.
17	Q. A	and you understand that you're under
18	oath today in thi	s deposition?
19	A. Y	Yes.
20	Q. A	and you understand that your answers
21	given today in th	is deposition may be used for any
22	legitimate purpos	e in this case, including and up
23	to and including	at trial?
24	А. У	Yes.
25	Q. A	are you on any medication today that

1	would influence yo	ur ability to testify?
2	A. No	
3	Q. Ok	ay. So I was going back just so I'm
4	clear, so between	2012 and 2020 had you testified at
5	all as an expert,	either in a deposition or trial
6	context?	
7	A. No	•
8	Q. Ok	ay. So prior to 2011 in what cases
9	did you testify?	
10	A. Th	ere were multiple cases that I don't
11	have a list of. I	didn't keep a record. They were
12	either representin	g industry, they were Michigan OSHA
13	cases, they were -	- I have a somewhat of a list
14	that I turned in t	o Glen. Let me look at this. Okay.
15	Yeah, they were fo	r insurance industry, Michigan OSHA
16	and for manufactur	ing industry, but I did not keep a
17	record. And that	was when I was consulting prior to
18	direct employment.	
19	Q. An	d have you ever testified in a case
20	involving a chemic	al plant facility?
21	A. No	
22	Q. Ha	ve you ever worked for a chemical
23	company?	
24	A. Ye	s.
25	Q. Ok	ay. When was that?

1 I worked for AbbVie Biopharmaceutical, Α. 2 and when you produce pharmaceuticals, half of your 3 production is chemical process. It's called active 4 pharmaceutical ingredient production. 5 Ο. Other than the pharmaceutical company, have you ever worked for a chemical company? 6 7 Yes, as a consultant. Α. 8 0. Okay. 9 I have consulted to a number of Α. 10 chemical companies. 11 Ο. And has that been since you returned 12 to consulting more recently? 13 Recently and then prior to 2011 in Α. 14 consulting, so both sides of that time span. 15 And when was it that you resumed 0. 16 consulting more recently? 17 Α. 2018. 18 And so from 2018 to the present, what 0. 19 chemical companies have you provided consulting 20 services to? 21 Just this one. Just this case. Α. 22 Oh, just this case. Ο. So my question 23 was more have you provided consulting services for a 24 chemical company since -- your consulting role since 25 2018?

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1 I'd have to look through my caseload Α. 2 to be sure. 3 Is all of your consulting work 0. 4 litigation related? 5 No, I provide field services as Α. No. Actually, yes, I can think of some chemical б well. 7 companies that are in Michigan that I have provided 8 consulting services to since 2018. 9 And just generally speaking, what --0. 10 what are -- what have you done in terms of providing 11 consulting services to chemical --12 Α. I've --13 Ο. -- companies? 14 Α. I've provided hazard assessment for 15 these chemical companies to evaluate what the hazards 16 are, how they should be prioritized and what 17 appropriate response should be in terms of controls. 18 Do you know a Dr. Zack Mansdorf? Ο. 19 Α. Yes, I do. 20 And how do you know him? 0. 21 I know him through volunteer Α. 22 professional associations. 23 And what type of associations do you Q. -- have you come across him? 24 25 He now serves on the board of Α.

1	directors of an	organization that I helped found and
2	was chair of for	13 years.
3	Q.	And what is Dr. Mansdorf's reputation
4	in the field of	industrial hygiene?
5	Α.	He has a very solid reputation.
6	Q.	And what is Dr. Mansdorf's reputation
7	in the field of	chemical protective clothing?
8	А.	That I am not aware of.
9	Q.	For purposes of our case, did you
10	speak with any p	laintiffs?
11	А.	No, I did not.
12	Q.	Did you review any deposition
13	testimony that e	exists in this case?
14	Α.	Yes, I did.
15	Q.	Okay. Other than Mr. Tompkins'
16	deposition, whic	h you cited in your report
17	Α.	Mm-hmm.
18	Q.	did you review any other deposition
19	testimony in thi	s case?
20	Α.	Yes. There were two depositions that
21	I reviewed in pr	eparation for this case, and it's the
22	Beam deposition,	B-E-A-M.
23	Q.	So other than Mr. Beam's deposition
24	and Mr. Tompkins	' deposition, did you review any other
25	depositions in c	consulting in this case?

1	Α.	No, I have not.
2	Q.	What what chemicals are made at the
3	plant at Louisv	ille, Kentucky, that's at issue here,
4	the plant that	Rohm and Haas had owned and that Dow
5	acquired?	
б	Α.	Methacrylates or it appears the basis
7	for glues, adhe	sives.
8	Q.	And are you aware of any other
9	chemicals that	are have been made at the Louisville
10	plant either by	Rohm and Haas or by Dow Chemical?
11	Α.	Yes. According to the PPE grids,
12	that's clear in	dication of the materials that are
13	being used and	produced at the facility.
14	Q.	And what what is your understanding
15	of what the pla	intiffs in this case did at work?
16	Α.	They donned or put on personal
17	protective equi	pment prior to their shift and then
18	Q.	I'm interested in terms of what they
19	did during thei	r job
20	Α.	Oh.
21	Q.	their workday. I'm not talking
22	about your repo	rt yet.
23	Α.	Oh.
24	Q.	I'm just talking about generally what
25	was it that	what is it and what was it, has it

1 been, that the plaintiffs did as part of their 2 workday? 3 They were operators and so they had a Α. 4 multitude of tasks that they performed, also outlined 5 in the PPE grids. And what is your understanding of what 6 Ο. 7 the operators -- these plaintiffs who were operators 8 did? 9 Α. I'm not sure I understand your 10 question. 11 Well, what did they do during the Ο. 12 course of a day? 13 Operators typically load materials or Α. 14 move materials in order for the process to go forward. 15 They're operating the equipment that would facilitate 16 reactions in order for the process of synthesizing 17 chemicals to go forward, so they're basically 18 operating the equipment. 19 Well, my question is not typically Ο. 20 what operators do, my question is what do the -- what 21 have the Louisville plaintiffs in this case, the 22 plaintiffs who worked at the Louisville plant, what 23 did they do in their job? 24 Α. Okay. 25 Can you -- do you know the answer Ο.

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1	without looking at anything?
2	A. Oh, I do.
3	Q. Okay. What is it what did they do?
4	A. They're load like I said, they're
5	loading equipment or they're loading materials into
6	the process, they're going to operate controls that
7	either start or stop or change the process, they're
8	going to monitor the process, they're going to make
9	changes as necessary and then they're going to be
10	responsible for making sure that product moves through
11	the process.
12	Q. And what is your understanding as to
13	how the operators actually do that work in terms of
14	loading raw materials into the process and operating
15	the controls and monitor the process? Where are they?
16	What are they how are they actually doing that?
17	A. They're going to move in and out of
18	control rooms, they're going to move in and out of
19	reactor rooms, they're going to move about probably a
20	multitude of areas.
21	Q. Well, you're saying probably. Do you
22	know what it is that the Louisville operators have
23	done, whether it be at Rohm and Haas or since the
24	acquisition by Dow?
25	A. I have not had the opportunity to

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1 physically watch them specifically in their 2 environment. 3 And what is your understanding of 0. their work environment? 4 5 Α. My understanding is watching and observing and performing hazard assessment firsthand 6 7 in similar operations for a long period of time in my 8 career. 9 Well, I'm asking what your actual 0. 10 factual knowledge is about the Louisville plant --Oh, it's --11 Α. 12 -- and what the work environment is 0. 13 that these plaintiff operators work in. Do you have 14 any understanding? 15 Yes, I do. It's very clear from the Α. 16 hazard assessment within the personal protective 17 equipment grids what the process was, what they were 18 working with, what the task was called upon for, and 19 what was expected of them. 20 Do you have any understanding, though, 0. 21 of their work environment? Are they working in a --22 Α. Yes. 23 -- control room for the most part Ο. 24 looking at and working with a variety of different 25 computer screens to run the production processes? Is

1 that what --2 MR. CONNOR: Object to that to the 3 extent that it's leading, I mean, but go ahead. 4 Yeah. I don't agree that there's a Α. 5 way to form a conclusion that they were in a control room for most of the time based on the tasks that are б 7 outlined. That's not clear at all. 8 0. Okay. So you don't have a clear understanding of what -- where the operators 9 10 physically worked for most of their day or all of 11 their day at the Louisville plant, do you? 12 I -- I do have a clear understanding Α. 13 based on experience and based on the personal 14 protective equipment grids that provide very clear 15 analysis of the hazards that these workers were 16 exposed to. 17 Well, did you ever explore with any of Ο. 18 the plaintiffs where they worked in order to formulate 19 an opinion about their work environment? 20 With a reasonable degree of scientific Α. 21 certainty as a certified and experienced industrial 22 hygienist, there were a multitude of tasks that was 23 required of these workers and sitting in a control 24 room was not the majority of their time. 25 And I just want to understand your Q.

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1 factual basis for that conclusion that being in the 2 control room did not constitute the majority of the 3 plaintiff's work time or workday. 4 Α. Correct. 5 0. I want to understand what the basis is for that. 6 7 The basis --Α. 8 Other than -- other than -- you know, 0. 9 other than some kind of general industry knowledge. I 10 want to understand specifically what your 11 understanding is and what your factual basis is for that -- that conclusion. 12 13 If I went through and did task Α. 14 assessment based on the PPE grids, it would disclose a 15 semblance of methods and analysis time, so part of my 16 job as an industrial hygienist is to look at task 17 analysis. The task analysis placed before me, also 18 placed before you, indicate a multitude of 19 requirements of their job that doesn't reflect that 20 the majority of their time was spent in a control 21 room. 22 Now, aren't PPE grids or PPE documents 0. 23 that talk -- they're task specific; correct? You 24 know, if you're going -- you're about to do something, 25 you need to put on a Tyvek suit or you need to put on

1	splash goggles	or things like that; correct?
2	Α.	Correct.
3	Q.	All right. And and no matter how
4	infrequent a pa	rticular PPE specific task is, it's
5	going to appear	on the grid; correct?
6	Α.	Correct.
7	Q.	So what basis do you have for
8	ascribing any k	ind of time during a workday for any
9	particular PPE	task that's on the PPE grids?
10	Α.	Based on my experience in observing
11	PPE being donne	d on or doffed, taken off, there's a
12	general amount	of time that you typically observe in
13	those tasks tha	t a worker must perform in addressing
14	PPE prior to a	task and after the task is completed.
15	Q.	So if there's PP if PPE grids
16	obviously will	encompass certain tasks such as
17	encountering a	line opening, for example
18	Α.	Mm-hmm.
19	Q.	did you see those in the PPE grids?
20	Α.	Yes.
21	Q.	And let me ask you this, so are those
22	part of the grid	ds that you were you're relying on
23	for this conclu	sion?
24	Α.	Correct.
25	Q.	Okay. So so you had different

1	now, did you understand that the Louisville site had
2	different buildings?
3	A. Yes.
4	Q. Okay. So you would see initials that
5	would that would be associated with different
6	buildings, so you'd see KBK with an opening or you
7	would see KB line opening, you would see KAC line
8	opening; correct?
9	A. Correct.
10	Q. And what is your and so you're
11	reaching a conclusion about what the operators did and
12	what their work environment was based in part on those
13	line opening grids; correct?
14	A. In part, yes.
15	Q. Okay. And do you know if any of the
16	plaintiffs actually did line opening?
17	A. No, I do not.
18	Q. Now, if we were to look at let's
19	take a look at if we could show what we've marked
20	as Exhibit Exhibit 10. I'll note that many of the
21	documents that we're going to be looking at today and
22	this afternoon are have been marked confidential.
23	They have been produced pursuant to the parties'
24	stipulated confidentiality agreement and/or protective
25	order, and so all of those terms are to be adhered to

1	with regard to this deposition.
2	By the way, did you get a copy of the
3	protective order in this case or the
4	A. Yes, I did.
5	(McCLELLAN DEPOSITION EXHIBIT 10 DISCUSSED)
6	Q. Okay. So those are the terms that
7	we're applying to most everything that we're looking
8	at today.
9	A. May I ask what is the title of
10	Exhibit 10?
11	Q. Exhibit 10 is a photograph.
12	A. Okay.
13	Q. And I'll represent to you that
14	Exhibit 10 is a photograph taken of a control room and
15	this photograph was requested by Dr. Mansdorf as part
16	of preparation of his report.
17	Is this this look in terms of what
18	you have in terms your own experience look like a
19	typical control room
20	A. It could be.
21	Q work environment? All right. Do
22	you have any reason to believe that this is not a
23	photo of a control room at the Louisville plant in one
24	of the plastic additives production buildings?
25	A. I have no reason to believe otherwise.

1 And so for these operators who are Ο. 2 here, there are two of them, we have blacked out the 3 face of one of them for privacy and as well as his 4 name, is this a control room -- a typical control room 5 kind of work environment that you have experience with? б 7 Not really. The fact that there's a Α. 8 ventilation unit in the center of the room indicates to me that in terms of hazard assessment that there's 9 10 high potential for hazards to be present in that room, 11 that it's not just a control room, it could be 12 adjacent to a process where they're worried about 13 contamination inside the room. 14 Do you have any knowledge of that? 0. 15 I have no knowledge but I have some Α. 16 clear indication that that's a possibility. 17 Right. All right. And so what we see Ο. 18 here are a bunch of different computer screens; 19 correct? 20 Α. Correct. 21 And is that your understanding of how 0. 22 chemical operators move chemical production batches? 23 Α. Correct. 24 Ο. Okay. So they're sitting in a room 25 looking at a computer console?

2Q.And how is how is go ahead.3A.Because it's requiring local what's4called local exhaust ventilation in that room, you can5see by the ductwork coming down into the center of the6room, and then you have a ventilation unit attached to7it.8Q.All right. And what is it what9 is it your understanding, based upon the documents10that you've looked at, that you would ascribe to the11percentage of time that the plaintiffs who are12operators, reactor operators, work in a control room13like this?14A.Yes. A potentially contaminated15control room but not I don't know what percentage16of time. Like I indicated before, given the task17assessment and the PPE grids, there's no way of18knowing what percentage of time, but based on my19experience, the majority of their time is not spent in20Q.So it's your based it's your	1	A. Potentially contaminated.
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17 assessment and the PPE grids, there's no way of 18 knowing what percentage of time, but based on my 19 experience, the majority of their time is not spent in 20 a control room.	15	control room but not I don't know what percentage
18 knowing what percentage of time, but based on my 19 experience, the majority of their time is not spent in 20 a control room.	16	of time. Like I indicated before, given the task
<pre>19 experience, the majority of their time is not spent in 20 a control room.</pre>	17	assessment and the PPE grids, there's no way of
20 a control room.	18	knowing what percentage of time, but based on my
	19	experience, the majority of their time is not spent in
Q. So it's your based it's your	20	a control room.
	21	Q. So it's your based it's your
²² view that if these operators worked 12-hour shifts	22	view that if these operators worked 12-hour shifts
23 that they were outside of that control room for more	23	that they were outside of that control room for more
24 than 6 of those 12 hours?	24	than 6 of those 12 hours?
25 A. That is very possible.	25	A. That is very possible.

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1	Q.	Well, again, do you know one way or
2	the other? You	're saying it's very possible. I want
3	to understand w	nat you what you actually believe
4	factually to be	true.
5	Α.	I don't have a methods and time
6	analysis.	
7	Q.	All right. So in the end you really
8	don't know how n	much time reactor operators in their
9	respective cont	rol room, do you, at the Louisville
10	plant?	
11	Α.	In part.
12	Q.	Well, what is it that you know
13	factually in par	rt?
14	Α.	I know factually that their
15	environments that	at involve all the tasks listed provide
16	exposure to cher	micals, and as your photograph
17	indicates here,	the control room is another
18	environment that	t is potentially contaminated.
19	Q.	You're saying potentially
20	contaminated.	Do you know if it's contaminated? Do
21	you have any fac	ctual basis to conclude that this
22	control room en	vironment is contaminated?
23	Α.	If it's a no, I do not.
24	Q.	Do you have any factual basis to
25	conclude that a	ny control room environment at in

1	any of the buildings at the Louisville plant are	
2	contaminated?	
3	A. I have evidence that the people who	
4	are qualified to assess their spaces believe that it	
5	is potentially contaminated because they provided a	
6	very expensive engineering control to address	
7	potential contamination and it is right	
8	Q. And you	
9	A right here before me.	
10	Q. All right. Do you have any factual	
11	basis, though, to conclude that any one of the control	
12	rooms at the Louisville site has ever been	
13	contaminated?	
14	A. Potentially contaminated, yes.	
15	Q. I'm asking do you have any basis that	
16	it is and/or has ever been contaminated?	
17	A. That's what I'm saying, yes, it had to	
18	have been contaminated in the past for them to employ	
19	engineering controls such as the one that you have	
20	placed before us because you would not do that unless	
21	you had contamination. So, yes, by inference that was	
22	a potentially contaminated space and they have	
23	addressed it.	
24	Q. Right. So as they are working in the	
25	space, is there any basis to conclude that it is	

1 contaminated? 2 I don't know because I don't know if Α. 3 that control is working properly. 4 So do you have any factual basis to Q. 5 conclude that any control room work environment at the 6 Louisville plant has ever been contaminated? 7 Yes, I do. It had to have been Α. 8 contaminated at one point. Whether it's contaminated 9 now, I do not know, but it had to have been 10 contaminated at an earlier point in time, so, yes. 11 Ο. So this -- you've just basing it on 12 nothing more than this ventilation system that you're 13 referring to? 14 Α. Yes. 15 Is that it? 0. 16 Α. Correct. 17 All right. And do you know if this Ο. 18 ventilation system that's sort of sitting here in the 19 middle of the photograph exists in any other control 20 room at the Louisville plant? 21 I do not know. Do you have additional Α. 22 pictures that you would like to share? 23 Well, I'm asking you. I'm asking you Q. 24 what you know. I'm just asking for your knowledge. 25 This is the only picture that's Α. No.

1 been provided today. 2 Okay. So let's take a look at -- let 0. 3 me ask you just generally speaking. For any of the other control rooms that exist at the Louisville 4 5 plant, do you have any factual basis to conclude that any of them had ever been contaminated? 6 7 No, I do not. Α. 8 0. Do you have any factual basis to 9 conclude that any of the operators who have worked in 10 this particular plastic additives control room that we 11 have here as a photograph as Exhibit 10 have ever 12 actually worked in a contaminated control room? Ι 13 understand your testimony that this ventilation system 14 is designed from your perspective to prevent 15 contamination, but my question is, you know, have any 16 of these operators ever worked in a contaminated 17 control room? 18 With a reasonable degree of scientific Α. 19 certainty as a certified industrial hygienist, yes. 20 And what's the basis for that 0. 21 conclusion? 22 Ventilation engineering controls have Α. 23 been implemented for a good reason. 24 Ο. Right. It's to prevent any 25 contamination; correct?

1	A. Right.
2	Q. So
3	A. But you implement it when you know you
4	have a problem unless you took a proactive approach,
5	but this kind of ventilation is a retrofit. This is
6	not an originally engineered ventilation control, this
7	is a retrofit, which is what you would put in after
8	the fact of knowing that you have a hazard present.
9	If it was originally installed because they had a
10	proactive approach and anticipated appropriately that
11	there could be a hazard an airborne hazard entering
12	the space, it would have been part of the ventilation
13	system that would have worked at an upstream point in
14	this process. But this is a retrofit, so this
15	indicates to me that they discovered a hazard in the
16	air contamination in this room and they've provided
17	this ventilation system to address it. So, yes, I can
18	say with a reasonable degree of scientific certainty
19	as an industrial hygienist that there was
20	contamination in this room and workers were exposed to
21	it.
22	Q. Do you have any can you state with
23	any degree of certainty as to when that occurred?
24	A. No. I do not know.
25	Q. Okay. And now, you see here the

1 operators wearing a -- what appears to be a uniform. 2 Α. Correct. 3 Do you see that? 0. 4 Α. Yes. 5 And is that what you understand to be 0. б the work uniform that has been provided in the -- at least since 2009 when Dow -- in or around when Dow 7 8 acquired Rohm and Haas, is that the work uniform that 9 you understood to be supplied to the plaintiffs? 10 Α. I believe so. 11 Ο. Okay. And -- now, do you have an 12 understanding as to -- we can take that down. Do you 13 have an understanding as to who else works in the 14 production area other than the plaintiffs? 15 No, I do not. Α. 16 Did you -- do you have any Ο. 17 understanding that supervisors or team leaders work 18 and are physically present in the production areas? 19 In some of the correspondence it did Α. 20 indicate or some of the documents that I reviewed it 21 did indicate that you have engineers, you have tours, 22 you have other people in that space, yes. 23 Right. So let's talk about 0. 24 supervisors or team leaders. Do you have any 25 understanding as part of your report and your analysis

1	as to whether or not there are supervisors or team	
2	leaders who are physically present in the production	
3	area of the Louisville plant buildings?	
4	A. Yes.	
5	Q. And do you have an understanding in	
6	terms of whatever you've reviewed as part of this	
7	record that there are also engineers, plant engineers	
8	who are physically present in the production areas of	
9	the Louisville plant?	
10	A. Correct, yes.	
11	Q. Do you also have an understanding as	
12	part of the preparation of your report that there are	
13	contractors who are present in the production areas of	
14	the Louisville plants and the different buildings at	
15	different times?	
16	A. Correct.	
17	Q. Okay. And as part of your preparation	
18	in terms of your report, did you obtain an	
19	understanding as to what clothing the supervisors or	
20	team leaders wear when they are at work and in the	
21	production areas of the Louisville plant?	
22	A. My understanding is that there was not	
23	a requirement for them to wear a uniform.	
24	Q. Right. And did you ever obtain an	
25	understanding based upon the record that exists in	

1	this case that the	e supervisors and/or team leaders who
2	worked in the prod	luction areas actually work and come
3	to work in their s	street clothes, work in their street
4	clothes and go hom	ne in their street clothes?
5	A. Ba	ased on duration and intensity of
6	exposure, that is	appropriate because their duration
7	of exposure and th	ne likely intensity of exposure to
8	what is in the wor	kplace, uniforms are not mandated.
9	Q. Ar	nd what is your understanding about
10	the duration of ex	posure that the supervisors and/or
11	team leaders have	in the production areas when
12	compared to, let's	s say, the reactor operators who are
13	in the control roo	oms?
14	A. It	would be less.
15	Q. Ar	nd what's the basis for that
16	understanding?	
17	A. It	:'s
18	Q. Wh	nat's
19	A. Th	ne base
20	Q. Go	ahead.
21	A. It	's understanding the roles that are
22	typical in a chemi	cal production facility.
23	Q. Ot	ther than what you view to be
24	typical, do you ha	ave any factual basis as it pertains
25	to the Louisville	plant as to the comparative time

1	that the supervisors and team leaders are in the
2	production areas of the plant when compared to the
3	reactor operators?
4	A. I have not been provided a time and
5	methods analysis of your engineers, production
б	supervisors, tour tour guides or whomever that are
7	in the facility.
8	Q. And with regard to the plant engineers
9	compared to the plaintiffs, who are the production
10	operators, if we take a look at the plant engineers,
11	do you have any factual basis to conclude as to how
12	much time they are actually in the production areas of
13	the plant when compared to the operators?
14	A. No, I do not.
15	Q. And how about with regard to the
16	contractors? If we have if there are contractors
17	at the Louisville plant, would it not be your
18	understanding that they are actually as contractors
19	there in the production areas for much of the day?
20	A. I don't have any factual way of
21	knowing how much time they're spending in the
22	facility.
23	Q. So you have no factual basis to
24	conclude as to whether or not the contractors who are
25	in their street clothes for the duration of the day

1 and go home in their street clothes are actually in 2 the production areas more or less when compared to the 3 production operators, who are the plaintiffs? 4 Α. Correct. 5 0. Did you also learn as part of your --6 in preparation for your report that when new 7 operator -- production operators start, people who are 8 in the positions that the plaintiffs have held at the 9 Louisville plant, that they actually for the first 10 several days or several weeks wear their street 11 clothes to and from work and do not -- until their 12 actual work uniforms are created for them and provided 13 to them? 14 Α. That period of time was never 15 specified for how long they wait for a uniform that is 16 mandatory. 17 Okay. And did you have an Ο. 18 understanding, though, that at least for some period 19 of time new hires into the production unit, which is 20 where the plaintiffs all have worked, that new hires 21 do have a period of time where they are just coming to 22 work in their street clothes and working in their 23 street clothes and going home in their street clothes? 24 That time was never specified, so I'm Α. 25 not sure of the accuracy of your statement.

1	Q.	Do you have an understanding if there
2	is at least some	e period of time
3	Α.	No, I do not.
4	Q.	in which new hires
5	Α.	No, I do not.
6	Q.	Do you have any basis to dispute my
7	statement that r	new hires have some period of time
8	where they're we	earing their street clothes into
9	production areas	s before their uniforms are provided?
10	Α.	No, I do not.
11	Q.	Do you have any understanding that
12	as part of the p	preparation for your report that some
13	operators, regar	dless of uniforms being provided to
14	them, worked in	their street clothes during the course
15	of their day in	a production area?
16	Α.	As part of noncompliance, yes.
17	Q.	And did you have any understanding as
18	to whether or no	ot the company ever disciplined any
19	such employees?	
20	Α.	I do not have an awareness of whether
21	discipline occur	cred.
22	Q.	Did you ever learn as part of the
23	preparation of y	your report that on occasion the
24	uniform company	may not have uniforms supplied for
25	particular produ	action operators?

1 Based on size, I remember mention of Α. 2 that, yes. 3 And so as a result of that, you know, 0. 4 for those particular days in which a -- the uniform 5 company did not have uniforms for a particular 6 production employee who would be a plaintiff, that 7 that plaintiff would then work the entire day in his 8 or her street clothes; correct? 9 That could be an assumption. Α. 10 I'd like to break up the time period 0. 11 between 2002 to 2009 and then 2009 to the present. 12 And the reason I'm saying that is that on April 1, 13 2009, the Dow Chemical acquired Rohm and Haas, and I 14 know that Rohm and Haas Chemicals, a subsidiary of the 15 Dow Chemical company, continues to operate in 16 Louisville, but for ease of our discussion I'm going 17 to refer to the April 1, 2009, to present period as the Dow period and the 2002 to 2009 period as the Rohm 18 19 and Haas period. 20 Α. Okay. 21 Q. Okay. And the reason I'm going back 22 to 2002 is that that's how far this case goes back. 23 So I'm going to look at the Rohm and Haas period first 24 in the 2002 to 2009 period. What is your 25 understanding of what the work uniform materials were

1	comprised of du	ring that time period?
2	Α.	Cotton.
3	Q.	Cotton for the entire time period?
4	Α.	There's some variation.
5	Q.	And what is the what is the
6	variation as yo	u understand it to be
7	Α.	There might have
8	Q.	during go ahead.
9	Α.	There might have been polyester.
10	Q.	So for some some period of time
11	do you know whe	n it was that there was some polyester
12	in the clothing	for the plaintiffs in within this
13	2002 to 2009 pe	riod?
14	Α.	I don't remember the exact date.
15	Q.	And then at some point in time is it
16	your understand	ing that Rohm and Haas converted it all
17	over to all cot	ton?
18	Α.	Correct.
19	Q.	Okay. And what is your understanding
20	of let me ma	ke sure we're on the same page. The
21	uniform that we	're talking about, whether it be the
22	Rohm and Haas p	eriod or the Dow period, was a shirt
23	and a pair of p	ants; is that correct?
24	Α.	Correct.
25	Q.	Okay. And that's what your opinion is

1 all about, is that shirt and the pair of pants; 2 correct? 3 Α. Correct. 4 What was the -- during the 2002 to Q. 5 2009 period, what was the material of the pants? 6 Α. I'm not sure it was specified. So do you have any understanding of 7 0. 8 what the material is that was of the pants in the 2002 to 2009 period? 9 10 No, I do not. Α. 11 So is your opinion with regard to work Ο. clothes limited to the work shirt? 12 13 Α. No. 14 0. Okay. So --15 Α. We're --16 Go ahead. 0. 17 We're looking at personal protective Α. 18 equipment that was captive. It needed to be 19 consistent, it needed to be clean, free of charge and 20 eventually it needed to become cotton as their 21 awareness improved with their hazard assessment. 22 So what is it that you're opining 0. 23 about in terms of what you describe as PPE? What is 24 -- what are the -- what is it that you're talking 25 about?

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1	A. Personal protective equipment is the
2	first layer in this case with uniforms is the first
3	layer of protection from a multitude of hazards.
4	Q. All right. So you're referring to
5	both the pants and the shirt?
б	A. Correct.
7	Q. Is there anything else that you're
8	referring to in your opinion other than the pants and
9	the shirt that were provided to the plaintiffs first
10	in 2002 to 2009 under Rohm and Haas and then later
11	under Dow?
12	A. No.
13	Q. Okay. Now, I know you testified that
14	you don't know what the material composition was of
15	the pants in 2002 to 2009. What was the material
16	composition of the pants in the Dow period 2009 to the
17	present?
18	A. Cotton.
19	Q. Cotton. And let's just focus on 2002
20	to 2009 again, the Rohm and Haas period. Did you
21	learn as part of your preparation of your report that
22	in that period of time that Rohm and Haas allowed the
23	plaintiffs to wear short sleeves?
24	A. Yes.
25	Q. Okay.

1	A. Well, as part of noncompliance.
2	Q. Well, are you is it your
3	understanding that Rohm and Haas required long sleeves
4	but that
5	A. Correct.
6	Q the operators wore short sleeves?
7	A. As part of noncompliance. What was
8	written in the policy and what was written in the
9	documentation was that long sleeves were required.
10	Q. All right. And I just want to make
11	sure we're clear. I'm focused only on the Rohm and
12	Haas period, 2002 to 2009.
13	A. Mm-hmm.
14	Q. Is it your understanding that Rohm and
15	Haas had a written requirement during that period of
16	time that all production operators, all plaintiffs,
17	had to wear long-sleeved shirts?
18	A. Let me look that up. In the corporate
19	personal protective equipment standard dated 2008,
20	Appendix 1 lists personal protective equipment is
21	mandatory. Could you repeat your question
22	Q. My question
23	A for me.
24	Q is, is the only thing that you rely
25	on that shows a written requirement by Rohm and Haas

1	in the 2002 to 2009 period that required long-sleeved
2	shirts to be worn by the plaintiffs?
3	A. No.
4	Q. Okay. And so is it your
5	understanding, then, that the long-sleeved requirement
б	came into being after Dow acquired Rohm and Haas in
7	2009?
8	A. Actually, according to the Rohm and
9	Haas personal protective equipment grids for that
10	are dated October 28th, 2008, there are requirements,
11	and I will find that, that long sleeves this is
12	Document No. EHS 521.004, that long sleeves are
13	required as general protection from the work
14	environment, and that's in the section to be
15	protected, the skin and the arms. So there is written
16	evidence in the period of 2002 to 2009 that long
17	sleeves were required.
18	Q. And where is that again? What's the
19	document number?
20	A. Document number EHS 521.004, and it's
21	the environmental health and safety standard entitled
22	Personal Protective Equipment, and you're looking on
23	Page 367.
24	Q. And what's the title of the document
25	again, please?

1	Α.	It's entitled Personal Protective
2	Equipment.	
3	Ι	MR. CONNOR: Nancy, is there a Bates
4	number on it?	
5	5	THE WITNESS: I don't have it
6	well oh, yeah	. Wait, no, there's it's labeled
7	Exhibit No. 2, wl	hen this was for the deposition for
8	Tompkins, so it w	was Exhibit 2 in the Tompkins
9	deposition exhib	its, if that helps.
10	Q. 2	And in that particular document you're
11	reading from, it	says it refers first to disposable
12	sleeves; correct	?
13	Α.	Yes.
14	Q. 1	Like Tyvek and Corex, and it also
15	refers to electra	ically rated rubber sleeves; correct?
16	A. I	Mm-hmm. Correct.
17	Q. 2	And so in order to prevent shock
18	protection or any	y kind of electrical protection, you
19	need to have that	t rubber insulation to the sleeve;
20	correct?	
21	Α.	Correct.
22	Q. (Okay. And then what you're referring
23	to says, long sle	eeves, including static uniforms and
24	lab coats; do you	u see that?
25	Α.	Correct.

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1	Q.	And then in the comments section it
2	says, evaluate n	need during MOC hazard review or SOP;
3	correct?	
4	Α.	Correct.
5	Q.	Right? So it doesn't say that long
6	sleeves are requ	uired at all times, it says you have to
7	evaluate and it	says here long sleeves, including
8	static uniform.	What's a static uniform?
9	Α.	Static could mean one of two things.
10	It could mean so	omething that is captive or maintained
11	there or it coul	ld be what's called an ESD garment,
12	electrostatic d	issipating garment. I'm not sure
13	which.	
14	Q.	All right. And what's a lab coat?
15	Α.	A lab coat
16	Q.	What's your just a normal lab coat?
17	Α.	A lab coat, yes.
18	Q.	And it says here in part of the
19	protection reaso	on is for special protection from
20	static buildup;	do you see that?
21	Α.	Sure. That's that's
22	Q.	What's the
23	Α.	an additional use, it's not just
24	static buildup.	They're saying including static
25	uniforms, lab co	pats.

1		Q.	Right. But that's what they're
2	specifi		ferencing, static uniforms and lab
3	coats as part of this		
4	courb u	A.	Not
5		Q.	long sleeve statement?
6		Α.	I don't agree. I don't think it's
7	excludi	ng unifo	rms.
8		Q.	But where does it say that it's if
9	it says	here eva	aluate need during MOC, hazard review
10	or SOP;	correct	?
11		Α.	Correct.
12		Q.	That's the comment to this to this
13	to tl	he right	of what you're referring to. So that
14	so wl	hat MOC,	hazard review or SOP do you have that
15	states 1	that long	g sleeves are required at all times for
16	all prod	duction o	operators during any point in time that
17	Rohm and	d Haas op	perated the Louisville plant?
18		Α.	I don't need an MOC or a hazard review
19	or SOP.	I have	this document that says, long sleeves
20	are requ	uired as	general protection from the work
21	environ	ment, and	d it matches the PPE grids that also
22	state tl	he same.	
23		Q.	But the PPE grids came from Dow;
24	correct	?	
25		A.	Well, it it's carried over from

1	2008 Rohm and Haas saying long sleeves are required.
2	Q. Well, where's it say that long sleeves
3	are required?
4	A. In the reference that we just
5	reviewed.
6	Q. Where does it say are required? It
7	says, evaluate need during MOC, hazard review or SOP.
8	Evaluate need, it doesn't say required.
9	A. If it's on this personal protective
10	equipment evaluation, the insinuation is that it's
11	required.
12	Q. But
13	A. They don't put it here as a
14	suggestion.
15	Q. But there's nothing else there's
16	if you take a look at that particular page, there's no
17	other reference in any of the comments section to
18	evaluating a need. This particular one says, evaluate
19	need during MOC, hazard review or SOP. So my question
20	to you is, what did you look to in terms of MOC,
21	hazard review or SOP to determine that Rohm and Haas
22	required long sleeves to be worn by the production
23	operators?
24	A. When they say evaluate need, it refers
25	to the other circumstances, such as including static
L	

1	uniforms and lab coats. When you're looking at those		
2	variations or those deviations from normal work		
3	uniforms that should have long sleeves, that's when		
4	you're going to evaluate need for what that should		
5	look like.		
6	Q. But that doesn't that limitation		
7	that you're imposing on those words, evaluate need,		
8	are not stated there; correct? That's just your		
9	interpretation		
10	A. And		
11	Q of a document that you didn't		
12	write.		
13	A. And with a reasonable degree of		
14	scientific certainty in not only reading this document		
15	but writing these kinds of documents, that's an		
16	appropriate inference.		
17	Q. But what's reasonable degree of		
18	scientific certainty have to do with understanding		
19	what some Rohm and Haas person wrote in terms of		
20	evaluating need? What does that have to do with		
21	scientific certainty?		
22	A. I'm assuming that with a reasonable		
23	degree of certainty that the person who designed this		
24	and who wrote this personal protective equipment		
25	policy was competent and in good faith effort		
L			

1	indicated that long sleeves should be included as
2	general protection from the work environment. That
3	means uniforms.
4	Q. So you're making a lot of jumps here,
5	you know, you're saying that means a uniform. Why
6	does it mean a uniform?
7	A. I'm not sure I understand your
8	question.
9	Q. Why does the long sleeves have to be a
10	uniform?
11	A. I still don't
12	Q. I can understand
13	A understand your question.
14	Q a static lab coat I can
15	understand a static lab coat being something you have
16	to get from the company, but why is the long sleeve
17	not a street clothes long sleeve?
18	A. Your long-sleeved uniform is dispensed
19	from stores like all the other personal protective
20	equipment. Within the documentation that I was
21	provided, PPE in general is being paid for and
22	dispersed to the workforce through stores, including
23	work uniforms, long-sleeved work uniforms.
24	Q. Where did you get that conclusion,
25	that do you know what the Rohm and Haas reference

1	is to stores? Let me just ask that of you.
2	A. I can find that
3	Q. Well, you tell me now. You're
4	referring to it. Tell me what you understand stores
5	to mean at the Louisville plant.
6	A. It's they also call it the crib
7	sometimes in work environments, but
8	Q. I don't want generalities. You used
9	the word stores and that's a Louisville plant term.
10	A. Okay.
11	Q. I understand that.
12	A. Yeah.
13	Q. What is your understanding of stores?
14	A. It says all PP I'm referring to a
15	document that was also actually this was the same
16	document. If you look on Page 2 of 13 or I think its
17	Bates number might be Rh 007350. And the very last
18	sentence on that page for protective personal
19	equipment policy states, all PPE used in the plant by
20	employees and visitors should be obtained from stores.
21	PPE obtained by any other means must be approved by
22	EHS department.
23	Q. Okay.
24	A. Uniforms are coming from stores;
25	therefore, it is protective personal equipment.

1 Oh, that's the leap I'm trying to 0. 2 I understand what you read and I understand. 3 indeed -- I understand that, that stores is where PPE 4 is provided and/or stored. So if you need a Tyvek 5 suit, you go to what they call the stores at the б Louisville plant and I'm with you on that and I 7 understand that. Where does it say that uniforms are 8 provided at the stores? 9 I'm at Page --Α. 10 Okay. So it's your working 0. 11 assumption, then, that since you view uniforms to be 12 PPE, then the uniforms must come from the stores? 13 They could come from the stores. Α. 14 Oh, but you just testified that it 0. 15 did. Now you're backing off of that as you were 16 saying it just could? 17 I'm saying that it is possible, and Α. 18 that was my original statement. 19 No, I think your testimony was that it Ο. came from the stores, just like all the other PPE. 20 21 Uh-huh. Α. 22 Right? That was your testimony. Did 0. 23 you ever determine if the uniforms came from the 24 stores? 25 Α. No, I have not.

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1	Q.	Did you ever determine how indeed
2	uniforms are de	livered and where they're delivered
3	to	
4	Α.	No, I have not.
5	Q.	at the Louisville plant?
б	Α.	No.
7	Q.	Did you ever determine how dirty
8	clothes are hand	dled? You know, that is dirty, that is
9	worn clothes, no	ot necessarily I'm just saying, you
10	know, at the end	d of the day you've worn them after
11	your 12-hour sh	ift, did you ever determine as part of
12	your report how those clothes were handled?	
13	Α.	I think that the later information
14	that you provided indicated that there was a cleaning	
15	service, Cintas	
16	Q.	Yes.
17	Α.	that picks up and launders, but
18	when I was form	ing my opinions, I didn't have access
19	to that information	tion.
20	Q.	Did you ever ask for the information
21	as to how the c	lothes were handled as part of your
22	report?	
23	А.	No.
24	Q.	Did you ever ask to determine whether
25	or not there we	re any special laundering instructions

1 for purposing of handling the plaintiffs' work 2 clothes? 3 Α. No. 4 Do you know if there are any special Q. 5 laundering instructions for handling the plaintiffs' work clothes? 6 7 Α. Not in this case. 8 0. Do you know what the plaintiffs do 9 with their work clothes once they -- once their 10 workday ends? 11 Α. I know that on a weekly basis that 12 they're turned in for laundering. 13 Where are they turned in? Where are 0. 14 they placed? 15 Α. In a locker room or wherever they 16 change out into their street clothes. 17 So what do they -- what does that --Ο. 18 what do the plaintiffs do at the end of each workday, 19 though? At the end of their shift what do they do 20 with their clothes that they just wore? 21 Hang them up in a locker where they're Α. 22 contained and they change into their street clothes 23 and go home. 24 0. So it's your understanding that they 25 just hang them up in the locker where they have their

1 street clothes? 2 Unless they're contaminated and then Α. 3 they turn them in for laundering immediately. 4 Okay. So in the event of a Q. 5 contamination, it goes through a different special 6 procedure; correct? 7 It would just get turned in Α. No. earlier for laundering. 8 9 Where do you see that in any document? 0. 10 Is that -- let me ask you this. What's the basis for 11 your --12 Α. It --13 Ο. -- for your statements here? 14 It would depend on the level of Α. 15 Okay. To qualify what I just said, it contamination. 16 would depend on the level of contamination what the 17 worker would do with their clothing. If it were 18 contaminated minimally and the worker threw it in the 19 regular laundry or versus heavily contaminated and the 20 worker bags it and contains it in of itself so that it 21 gets special handling, those are the two likely 22 scenarios. 23 0. So you just used the word likely. Do 24 you know --25 Α. No, I do not know.

1 -- how contaminated clothes are 0. 2 handled --3 No. Α. 4 -- at the Louisville plant? Q. 5 Α. I do not know. Not the specific 6 details, but based on experience in working in this 7 industry, based on experience for likelihood of 8 contamination, those are the most typical routes for 9 how laundry is handled when you have a laundry service 10 like Cintas, which I am well familiar with. 11 0. But you never -- you never asked to 12 find out --13 Α. No. 14 -- exactly how the clothes are handled 0. at the end of the work shift? 15 16 Α. No, I did not. 17 Now, let me take you to --Ο. 18 MR. CONNOR: Ray, if you're shifting 19 gears, would now be a good time for a short break? 20 Yes. Could we -- could MR. KRESGE: 21 we just do one thing, Glen, if I could? 22 MR. CONNOR: Sure, yeah. 23 MR. KRESGE: And then we'll take a 24 break after that. 25 0. Let me direct your attention to

1	Exhibit 27, ple	ase.
2	Α.	And what is that entitled?
3	Q.	He's going to pull it up.
4		MODERATOR: Give me just a second.
5	Q.	It's the Tompkins deposition that you
6	read.	
7	Α.	Okay.
8	(McCLELLAN	DEPOSITION EXHIBIT 27 DISCUSSED)
9		MODERATOR: I think this is right.
10	Hold on.	
11		MR. KRESGE: Yes, it is.
12	Q.	If we could, then, Sean, move it to
13	four pages in.	So we'll stop let's go three pages
14	in first. Ther	e we go. Okay. So that's the the
15	second let's	go back one page just to the cover.
16	So there we're	looking at Mr. Tompkins was deposed
17	on two days. I	know that you read this particular
18	transcript beca	use you cited it in your report, so
19	this is the sec	ond day, which is April 25, 2018. And
20	so now let's go	to the next page and if we can
21	highlight that	answer on the bottom back when we made
22	the Line 21.	
23		MR. CONNOR: Can you make it a little
24	bigger? Thank	you.
25	Q.	There we go. Do you see that?

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1	A. Mm-hmm.
2	Q. Do you
3	A. Yes, I do.
4	Q. Do you recall reading that at all as
5	part of your preparation of your report because that
6	is I think you cited Pages 36 to 38 but that's
7	Page 39. Do you see that?
8	A. I do.
9	Q. So do you remember reading that,
10	Mr. Tompkins testified on behalf of the company that
11	Rohm and Haas had no requirement to wear long sleeves
12	and that they had short-sleeved shirts?
13	A. Okay.
14	Q. Okay. Do you remember reading that?
15	A. Yes.
16	Q. Okay. And do you have any reason to
17	dispute that statement that Mr. Tompkins testified to,
18	which is that during the Rohm and Haas period
19	short-sleeved shirts were allowed?
20	A. In Mr. Tompkins' opinion, there were
21	no requirements to wear long-sleeved shirts at that
22	time.
23	Q. Well, he's not testifying as to an
24	opinion, he's testifying factually on behalf of the
25	company. So he's not providing an opinion, he's

1	stating what happened, and so he's saying that they
2	had short-sleeved shirts and no long-sleeved shirt
3	requirement. Do you have any reason during the
4	Rohm and Haas period.
5	A. Mm-hmm.
6	Q. Do you have any
7	A. If there's
8	Q. And, again, Rohm and Haas gets
9	acquired by Dow on April 1, 2009. Do you have any
10	reason to dispute his statement that during the Rohm
11	and Haas period, before April 1, 2009, that the
12	plaintiffs had the option of wearing short-sleeved
13	shirts?
14	A. Yes. Based on the personal protective
15	equipment policy that I just read that indicated that
16	they had a general requirement for long sleeves.
17	Q. And is it your testimony that Rohm and
18	Haas implemented that long-sleeve requirement?
19	A. Could you state that again.
20	Q. Is it your testimony, based upon that
21	one document that you looked at that you cited to us,
22	which is the 2008 PPE policy, that Rohm and Haas
23	implemented a long-sleeved shirt requirement at least
24	in 2008?
25	A. I have no evidence that they

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1 implemented what they stated in their own policy. 2 So do you have any knowledge or basis 0. 3 for what the practice was? 4 Α. No, I do not. 5 0. Did you ever inquire about the 6 practice as to whether or not short-sleeved shirts 7 were allowed throughout the time that Rohm and Haas owned the Louisville plant? 8 There were documents that indicated 9 Α. 10 short sleeves were part of noncompliance with the 11 policy. 12 0. Well, was there any policy -- I 13 understand and we may respectfully disagree over 14 whether or not that particular document that you 15 referred to from October 2008 is a policy of 16 long-sleeved requirement, but before that document was 17 there any document that you're aware of in which you base a conclusion that there was a long-sleeved 18 19 requirement at Rohm and Haas? 20 Are you -- are you asking me if there Α. 21 were other documents in addition to the PPE document 22 that would indicate a requirement for long sleeves? 23 Other documents before October 28th, 0. 24 2008, which is the date of EHS 521.004 that you cited? 25 Α. No.

1	Q. S	o do you have any basis for
2	concluding any	factual basis for concluding that
3	before October 28	th, 2008, Rohm and Haas had a
4	long-sleeved shir	t requirement for the plaintiffs?
5	A. N	o, I don't.
6	М	R. KRESGE: All right. Let's take
7	our break. We'll	come back in I think we always
8	try to make it sh	orter but let's do it 10 to
9	15 minutes.	
10	М	R. CONNOR: All right. Thanks.
11	М	R. KRESGE: All right.
12	М	ODERATOR: All right. It is 2:23 and
13	we're going off t	he record. We are off the record
14	now.	
15		(OFF THE RECORD)
16	М	ODERATOR: We're back on the record
17	right now.	
18	М	R. KRESGE: Yes, I just don't know
19	can you hear me?	
20	М	ODERATOR: I can hear you.
21	М	R. KRESGE: No, no, the witness I'm
22	asking.	
23	М	ODERATOR: Ms. McClellan, can you
24	hear us?	
25	М	R. KRESGE: She doesn't seem to be.

1	That's why I was waiting.
2	MODERATOR: Okay. Let me take us back
3	off the record. Okay. Hold on. It is 2:41 and we're
4	going off the record. We're off the record.
5	(OFF THE RECORD)
6	MODERATOR: It is 2:42 and we're back
7	on the record.
8	Q. Do you agree that a short-sleeved
9	shirt offers no protection against any hazards in the
10	workplace?
11	A. No, I don't agree with that.
12	Q. All right. Do you agree that a
13	short-sleeved shirt is not PPE?
14	A. No, I do not agree with that.
15	Q. All right. So is it your expert
16	position that a short-sleeved shirt is PPE in this
17	case?
18	A. It depends on the circumstances.
19	Q. Well, I'm asking I asked it
20	specifically in this case. So was a short-sleeved
21	shirt as worn by the operators, at least at some point
22	during the Rohm and Haas period, and we'll get back to
23	that, is it PPE in your opinion?
24	A. Again, it depends on the hazard.
25	Q. Well, you've offered an opinion that a

1	long-sleeved sh:	irt is PPE in this case; correct?
2	Α.	Correct.
3	Q.	All right. And all I'm asking is, is
4	it your opinion	that a short-sleeved shirt is not PPE
5	in this case?	
6	Α.	No. I would have to say that
7	short-sleeved sh	nirt could be personal protective
8	equipment depend	ding upon the hazard.
9	Q.	So
10	Α.	It depends on what part of the body
11	you want to prot	tect.
12	Q.	I just want to understand your
13	position. So in	n terms of this case, one way or the
14	other is the sho	ort-sleeved shirt PPE for the
15	production opera	ators, who are the plaintiffs?
16	Α.	In part, yes.
17	Q.	Okay. And then tell me what part it
18	is that it is a	ctual PPE.
19	Α.	It could provide skin protection for
20	the core of the	body, simply not the arms.
21	Q.	So having anything on your body in
22	your opinion in	a chemical plant is PPE?
23	Α.	Depending on the hazard, yes.
24	Q.	All right. So just having let's
25	say I had a tanl	k top. Would a tank top be PPE because

1	it would be cove	ring part of my body?
2	Α.	No.
3	Q.	Why not?
4	Α.	Because it doesn't cover the majority
5	of your body or	of your torso.
6	Q.	So at what point in the coverage of
7	the body is it t	hat you make a determination that
8	something's PPE	and then something's not?
9	Α.	Aside from this case?
10	Q.	No, this case. That's all I'm
11	interested in.	
12	Α.	Long sleeves are better PPE than short
13	sleeves.	
14	Q.	I'm not that's not my question. My
15	question is that	you've made it you've stated that
16	at some point wi	th body coverage something goes from
17	being PPE for th	e plaintiffs in their chemical plant
18	at Louisville an	d at some point it becomes not PPE
19	depending upon t	he body coverage, and I want to
20	understand at wh	at point. What's the scientific
21	breakdown in you	r opinion as to where body coverage at
22	what point becom	les PPE?
23	Α.	It depends on the hazard. It's
24	Q.	Well, I'm asking about this job. You
25	know you	

1 Which job, KAC KB, KVPA and which Α. 2 tasks? 3 So are you saying that a short-sleeved Ο. 4 shirt is PPE for certain production buildings but not 5 others at Louisville? 6 Α. According to -- according to the 7 defendant, they considered uniforms as PPE because for 8 many of the hazards in the PPE grids nothing 9 additional was called for even though specific 10 chemicals were at risk of producing skin exposure. 11 Ο. What -- so what document are you 12 referring to that states that a short-sleeved shirt 13 was viewed by Rohm and Haas company to be PPE? 14 Α. In the Louisville plant electrical 15 safety policy they list T-shirt, short-sleeve, as in 16 the matrix for PPE. This is issue date November 2005, 17 Page No. 21 of 25. 18 What's the name of the document? 0. 19 Α. It's called Louisville Electrical 20 Safety Policy. I think the Bates number is 21 RH 00003154. 22 0. Just give me one second, please. 23 Α. Sure. 24 0. I know the document you're referring 25 to, but I just need to find it. I have a document

1 that's electrical safety EH 537, but you're saying 2 that's not it? 3 This is part of the Beam exhibits, so Α. 4 look in your exhibits that are --5 Q. No, I have to go -- I have to find I -- what's the title of the document again? 6 that. 7 Louisville electrical safety policy. Α. 8 0. Go ahead and -- I'll find it. I don't 9 have it right here with me, but I'll get it guickly. 10 But go ahead and tell me what you're referring to. 11 Maybe I can help you. All Α. Here. 12 right. Okay. 13 0. Oh, okay. 14 So I'm looking --Α. 15 At the grid. 0. 16 Α. Yes, it's a grid. 17 Appendix 2? 0. 18 Yeah. And it's --Α. 19 (Audio cuts out) 3154? Ο. 20 31 -- yeah. Α. 21 Q. Okay. 22 Okay. So on that grid you have a Α. 23 listing of personal protective equipment. It lists 24 short-sleeved shirts and it ticks boxes for where 25 short-sleeved shirts are considered appropriate PPE.

1	For that hazard	like I said, it's according to
2	hazard, they're	listing it they're calling it PPE.
3	Q.	Let's take a look at Exhibit 17,
4	please.	
5	Α.	Okay. What's the title of that one?
6	Q.	It's what you were looking at.
7	Α.	Okay.
8		MODERATOR: Hold on a second.
9	Α.	Okay.
10	(McCLELLAN	DEPOSITION EXHIBIT 17 DISCUSSED)
11	Q.	Now, 17 is just a three-page document?
12	Α.	Yeah. 3134.
13		MR. KRESGE: 17, Sean, remember we did
14	that? There we	go.
15		MODERATOR: I'm sorry. I kept that
16	one in there ju	st so we would note 17.
17	Q.	Okay. So 17 is this what you were
18	looking at; cor	rect?
19	Α.	Correct.
20	Q.	If we could blow it up a little bit
21	for everybody,	just a little bit.
22	Α.	I can see it fine.
23	Q.	Okay.
24	Α.	But, yes, if you look at Line A in the
25	far left-hand c	olumn it says T-shirt, short-sleeve.

1	Q.	And if you you understand that this
2	is a chart or a	matrix that came from NFPA 70E;
3	correct?	
4	Α.	Okay.
5	Q.	Do you understand that?
6	Α.	I do, and whenever I adopt a chart
7	from a reference	e such as this into my policy, it
8	becomes my poli	cy.
9	Q.	Yeah. And your understanding of do
10	you have a work	ing good working understanding of
11	NFPA 70E?	
12	Α.	Yes.
13	Q.	Okay. And what is it? What is NFPA
14	70E just genera	lly speaking?
15	Α.	It's it revolves around personal
16	protective equip	pment.
17	Q.	But is it an industry consensus kind
18	of standard?	
19	Α.	Yes.
20	Q.	Okay. It's not a regulation; correct?
21	Α.	No. It's a guideline.
22	Q.	Okay. It's not something from OSHA
23	is it something	at all from OSHA?
24	Α.	No. It's not legally enforceable; you
25	are correct.	

1	Q.	All right. Now, if we take a look at
2	this matrix tha	t Rohm and Haas just took from
3	NFPA 70E, it ha	s hazard ratings on the top.
4	Α.	Correct.
5	Q.	Okay. You see hazard risk category.
б	And a hazard ri	sk of zero means that there's zero
7	risk; correct?	
8	Α.	Correct.
9	Q.	And then as the risk goes up, it gets
10	higher from one	to two to three to four with
11	Category 4 bein	g the highest risk in terms of exposure
12	to electrical s	hock or other electrical hazards;
13	correct?	
14	Α.	Correct.
15	Q.	So if zero means zero risk, minus one
16	reflects less t	han zero risk; correct?
17	Α.	Correct.
18	Q.	So it's only in this nonexistent risk
19	category that w	e see a reference to a short-sleeved
20	shirt; correct?	
21	Α.	It's no, it's also noted for risk
22	categories two,	three and four.
23	Q.	I see. In terms of that option. All
24	right. And so	how does then explain to me, how
25	does a short-sl	eeved shirt protect one against an

1 electrical hazard? 2 It's a base layer that would go under Α. 3 your -- your protective clothing that's fire resistant or fire rated. 4 5 Well, this -- this distinguishes from Ο. fire rated, which is in the column below. You see FR 6 7 clothing? 8 Α. Right. 9 And then the top, the short-sleeved Ο. 10 shirt is not FR clothing; correct? 11 Α. Correct. Your question to me is, does 12 a short-sleeved shirt count as personal protective 13 equipment --14 0. Yes. 15 Α. -- my answer is yes. 16 And what does a short-sleeved shirt --Ο. 17 you know, if production operators like the plaintiffs 18 would come to work at their choice wearing a 19 short-sleeved shirt --20 Α. Okay. 21 -- so -- and that's what they would Ο. 22 come to work in and they would work the day in a 23 short-sleeved shirt, what does that short-sleeved 24 shirt protect against in terms of electrical hazards? 25 If it's a untreated natural cotton Α.

1 fiber, it counts as personal protective equipment in 2 the event of a negative one, two, three or four 3 electrical risk. 4 Ο. And what is that -- that's -- my 5 question, though, to you is, what is that short-sleeved shirt protecting our plaintiffs against? 6 7 You mean in the event of an electrical Α. 8 hazard? 9 Ο. Let's take a look at an arc Yes. 10 flash, for example. What is the -- what is the 11 short-sleeved shirt protecting our plaintiffs against 12 in terms of -- in the context of an arc flash? 13 It's protecting against additional Α. 14 harm that would come from a noncotton or nonnatural 15 fiber. 16 Ο. So what you're saying is that a 17 nonnatural fiber could aggravate or exacerbate a burn 18 because it would melt to the skin; correct? 19 Correct. Α. 20 Okay. So all this -- all we're doing 0. 21 by moving to a natural fiber like cotton is that we're 22 preventing against that -- we're eliminating that 23 potential for an aggravation of the burn; correct? 24 Α. Correct. And it's listed as 25 protective clothing and equipment.

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1 And you -- well, it's listed here as Ο. 2 but we'll get to it later in terms of whether it 3 really is, because -- but we'll get to that, but let's 4 take a look at the T-shirt. So the short-sleeved shirt, if you're exposed to electrical hazard such as 5 6 an arc flash or it could be any other electrical 7 hazard, it does not protect you against getting a 8 burn; correct? 9 Α. Correct. 10 Okay. And, in fact, the fact that 0. 11 your arms are completely exposed means that you have a 12 lot less protection by wearing a short-sleeved shirt; 13 correct? 14 Α. I don't know if you have a lot less 15 protection but you do have less protection. 16 And this short-sleeved shirt that's Ο. 17 cotton or untreated natural -- some other -- I guess 18 it's really referred to as cotton, so we'll just call 19 it a cotton short-sleeved shirt, that is something 20 that anyone could buy at a department store like 21 JCPenney; correct? 22 That is possible. Α. 23 0. Right. And a long-sleeved cotton 24 shirt that we're talking about of the material that 25 the plaintiffs wore is something that anyone could buy

1	at a department store like JCPenney; correct?
2	A. You can buy it. It doesn't mean that
3	it meets the requirements as a uniform.
4	Q. I'm just trying to understand what the
5	shirt is. So you know, I just want to make sure.
6	So, again, when we're referring to a long-sleeved
7	shirt as worn by the plaintiffs, we're referring to a
8	shirt of the nature that one could buy at a department
9	store like JCPenney; correct?
10	A. Not in consistency with a uniform, no,
11	that I disagree with.
12	Q. What is done to the shirt? Is there
13	anything done to the shirt the shirts that were
14	worn, whether they were short-sleeve or long-sleeve,
15	that were worn by the plaintiffs?
16	A. Yes. The shirts that are provided as
17	uniform are in good repair, they are consistent and
18	they are clean. That is different than a shirt that
19	you're going to buy at JCPenney's.
20	Q. How? Is JCPenney selling me a dirty
21	shirt?
22	A. Perhaps.
23	Q. So your testimony is that a shirt at a
24	department store is dirty or potentially?
25	A. Potentially.

1	Q.	I see. All right. Putting that
2	aside, then isn'	t the materials of a short-sleeved or
3	long-sleeved shi:	rt that the plaintiffs wore at the
4	Louisville plant	of the type and material that you
5	could buy at a d	epartment store?
б	Α.	I do not know.
7	Q	All right. Did you ever determine by
8	looking at any o	ne of the shirts that the plaintiffs
9	wore?	
10	Α.	I have photographs of consistent
11	quality cotton u	niforms from the documents that were
12	provided.	
13	Q. '	That was last night you mean?
14	Α.	Correct.
15	Q. (Okay. Before that, when you did your
16	report, you didn	't have those documents, did you?
17	A. 1	No, I did not.
18	Q	All right. So when you formulated
19	your opinion, die	d you ever see any picture of a
20	long-sleeved or	short-sleeved shirt that the
21	plaintiffs wore a	at the Louisville plant?
22	A. 1	No, I did not.
23	Q. 2	And did you before you
24	formulated in	writing your opinion, as of the time
25	of reaching your	opinion and your opinion letter, did

1 you speak with any plaintiff about what their shirt 2 was like? 3 Α. No, I did not. 4 And you agree with me that the Q. 5 short-sleeved or the long-sleeved shirts that were 6 provided to the plaintiffs were not treated in any 7 way; correct? 8 Α. I would not have that awareness. 9 Well, didn't you ask? Because that's Ο. 10 what you're -- you're opining about these work 11 uniforms. Didn't you bother to ask about whether or 12 not the shirts were treated in any way? 13 Are you referring to the flame Α. 14 resistant or fire resistant? 15 I'm just referring to anything because 0. 16 this is referring to an untreated cotton shirt. So 17 I'm asking you, did you ever determine or -- whether 18 or not the shirts that were provided, whether they be 19 short-sleeved or long sleeved, that were provided to 20 the plaintiffs were ever treated in any way? 21 It's on the basis of cotton Α. No. No. 22 uniforms. 23 Okay. So was it your understanding 0. 24 that the shirts that the plaintiffs wore at all times, 25 whether they be short-sleeved or long-sleeved, were

1 indeed untreated? 2 Α. Correct. 3 Okay. And, now, with regard to the 0. 4 pants that the plaintiffs wore at all times, what is 5 your -- is it your understanding that those pants were б cotton? 7 I'm not sure. Α. 8 Okay. Did you ever determine what the 0. 9 material composition was of the pants that were worn 10 by the plaintiffs --11 Α. That --12 -- at any time --0. 13 Α. Oh. 14 -- during this case, which is going 0. 15 back to 2002? 16 Α. Cotton during the period of time for Dow Chemical. 17 18 And did you ever determine what the 0. 19 material composition was of the pants during the 2002 20 to 2009 Rohm and Haas period? 21 I don't believe I'm aware of the Α. 22 composition. 23 Ο. And were the pants ever treated in any 24 way, that the pants that the plaintiffs wore at any 25 point in time dating back to 2002 ever treated in any

1 way?

2

A. I'm not sure, but let me look.

Q. But in terms of your opinion, is your
opinion based upon the pants being treated or not
treated?

In terms of the clothing being worn 6 Α. 7 for purposes of chemical exposure, my opinion was on 8 the basis of them being untreated. For my opinions 9 regarding electrical exposure hazards, I know that the 10 company transitioned into using treated clothing that 11 was flame resistant for that purpose, so there was a response to that hazard. So it depends on the hazard 12 13 once again.

Q. Okay. And so let's just talk about the work uniforms. Is it your understanding that the work uniforms were ever -- that the plaintiffs wore that your opinion is all about were ever treated to become flame resistant?

19 My opinion was on the basis that there Α. 20 was not a clear indication of what kinds of 21 long-sleeved uniforms were provided by Rohm and Haas. 22 So you've written an opinion in Okay. 0. 23 this case which relates to -- which encompasses a 2002 24 to 2009 period in which you don't even know the 25 composition of the uniform materials during that

1	period; is that correct?
2	A. It was variable composition. They
3	went from polycotton blends to cotton blend around the
4	period of time that Dow Chemical acquired them. That
5	was very clear from the evidence.
6	Q. Okay. How about the fire-resistant,
7	the flame-resistant clothing?
8	A. Again, there was a transition during
9	the Rohm and Haas period of time where they recognized
10	a need for treated clothing in response to the
11	electrical hazard.
12	Q. And that you're saying that and
13	it's your understanding as part of your report that
14	that would that occurred for the plaintiffs, that
15	transition to flame-retardant for flame-resistant
16	clothing occurred for the plaintiffs? Is that
17	A. Yes. I believe
18	Q your understanding?
19	A. I believe so.
20	Q. Okay. Now, what goes into
21	flame-resistant clothing? What makes it flame
22	resistant?
23	A. Chemical treatment.
24	Q. And what is that chemical treatment?
25	What is it what's done to the clothes to make it

1 flame resistant? 2 It's -- I'm not sure what the chemical Α. 3 is that's used to treat fabric in order to make it 4 chemically -- or make it flame resistant. 5 Now, NFPA 70E changes every couple of 0. 6 years; correct? 7 Α. Correct. It's updated. 8 0. And in 2015 NFPA 70E was changed to 9 remove risk categories negative one and zero; correct? 10 Mm-hmm. Α. 11 Is that correct? 0. 12 Α. Correct. 13 Ο. Let me show you -- and that was done 14 because the analysis was that there's no reason to 15 include a zero hazard rating in a PPE table because 16 there's no PPE required for a zero hazard rating; 17 isn't that right? 18 Correct. Α. 19 Ο. So as of -- from 2015 to the present 20 the NFPA 70E matrix does not include columns for 21 negative one or a zero risk as appeared here on 22 Exhibit 17; correct? 23 Α. Correct. 24 Ο. Now, did the plaintiffs ever engage in 25 any work that touched upon or which they encountered

1 hazard with one, two, three or four on an NFPA 70E 2 matrix? 3 Α. There were indication in the PPE grids 4 that there was exposure to electrical hazards. 5 Whether it fell within the one, two, three or four 6 exposure risk category, I would have to look. 7 And if there was an exposure to one, Ο. 8 two, three or four for any particular work, was there 9 associated with that actual PPE other than the work 10 uniform? 11 I don't believe so, no. Α. 12 All right. What your -- make sure I 0. 13 understand what you're saying, is that you don't know 14 whether any of the plaintiffs did any work that 15 involved them with hazard risk ratings one, two, three 16 or four on the NFPA 70E matrix; correct? 17 If it was included in their tasks as Α. 18 part of operator's responsibility, there is 19 probability that they would have exposure. 20 I'm not asking -- I'm asking for what 0. 21 you understand because it's per your report, what is 22 your understanding, did -- one way or the other, did 23 any of the plaintiffs engage in any work that exposed 24 them to hazard risk ratings one, two, three or four on 25 the NFPA 70E matrix?

1	A. I'll let I'll look.	
2	Q. Well, do you remember? Before as	
3	you look I'm going to let you look but I want to	
4	make sure I understand you know, since you wrote in	
5	your report and you have an opinion, before you look	
6	just if you could just answer my question before	
7	you look for documents, what is your understanding?	
8	A. My understanding is, yes, they had	
9	exposure.	
10	Q. To hazard risk one, two, three and	
11	four. And can you identify without looking at any	
12	documents what job tasks they did, any of the	
13	plaintiffs did, that exposed them to hazard risks one,	
14	two, three or four?	
15	A. No. Oh.	
16	Q. And do you know if let's just	
17	take	
18	A. Oh, actually I take that back. The	
19	answer is, yes, for the dryer task, there is	
20	electrical exposure.	
21	Q. Okay. What are you looking at?	
22	A. Dryer PPE grid regular duties, second	
23	well, it's my second page, may not be your second	
24	page, dated September 2018 updates.	
25	Q. Can you give us a Bates stamp number	

1 on the bottom? 2 I don't have a Bates stamp on mine. Α. 3 Okay. So you're looking at a dryer's 0. 4 PPE grid, and what's on top of it? Is it line 5 equipment opening or is it something else? б Α. Here. Let me open it on my computer. 7 Okay. 8 0. And I know these are all awfully hard 9 to read. 10 Yeah, that's why I've opened it on my Α. 11 screen, so that I can read it --12 0. Okay. 13 -- more readily. If you look at Α. 14 Line 40 of that document. 15 I don't know what you're looking at. Ο. 16 Α. Okay. At the very top of the -- top 17 of the document, it's called EHS safety dryer PPE 18 grid. 19 0. T --20 It's an Excel -- it's an Excel Α. spreadsheet, if that helps. 21 22 And it says EHS on it? 0. 23 Mine does. Α. 24 Ο. And it doesn't have a -- it doesn't 25 have a Bates stamp number in the corner anywhere?

1	A. Not on mine. I	I have my it's part
2	of the Tompkins exhibits. Oh,	wait, you know what,
3	maybe it's not, though, because	e I blended Tompkins
4	exhibits with additional docume	entation, but it's
5	it's one of the PPE grids that	were provided.
б	Q. All right. Go	ahead and say what it
7	says.	
8	A. It says on Line	e 40 being within
9	50 feet of fired equipment duri	ing lighting sequence,
10	and the hazard is flash and the	e potential route of
11	exposure is skin.	
12	Q. I don't know wh	nat you're looking at,
13	I'm sorry.	
14	A. Here. We can c	lo what I did before.
15	And I have it marked electrical	in my notes.
16	Q. I don't remembe	er this is a much
17	nicer version than what I have.	. I don't remember
18	this.	
19	Glen, do you kr	now where that
20	document's coming from?	
21	MR. CONNOR: Ra	ay, we produced that
22	that was some of the documents.	. We produced them a
23	little bit later. We didn't Ba	ates stamp them. We
24	I can't remember, I was just lo	ooking to see when I
25	sent those to you. I sent those	se to you at one point.

1 Oh, might explain it because if Hmm. Ο. 2 I -- because all I did was look through Bates stamp 3 production documents in preparation for this. 4 All right. Well, so what -- do you 5 know what hazard rating that particular task is associated with? 6 7 Α. No, I do not. 8 0. Okay. And other than that one task 9 that you just identified, is there any other task at 10 which -- with which the plaintiffs had that exposed 11 them to any electrical hazards? 12 There are additional tasks, but do you Α. 13 want me to go back through and find the rest of them? 14 Well, I'm just asking you what you Ο. 15 remember. 16 I do remember --Α. 17 Do you remember --0. 18 I do remember additional tasks that Α. 19 carried electrical hazards. 20 And do you remember any of them off 0. 21 the top of your head? 22 Α. No. 23 0. Okay. And do you know what hazard 24 rating on the NFPA 70E matrix any of those tasks were 25 associated with?

1	Α.	No, I do not.
2	Q.	Do you know if any of the plaintiffs
3	were actually o	ualified to do electrical work?
4	Α.	I do not know.
5	Q.	Do you know if Dow Chemical ever
6	adopted or appl	ied NFPA 70E as part of its policies?
7	Α.	I do not know.
8	Q.	And I'll show you what we've marked as
9	Exhibit 3. Wha	t is your background, if any, in
10	electrical engi	neering?
11	Α.	I studied it in graduate school and I
12	have conducted	electrical hazard assessments with
13	teams of people	as part of my job responsibilities at
14	AbbVie Biopharm	aceutical.
15	(McCLELLA	N DEPOSITION EXHIBIT 3 DISCUSSED)
16	Q.	Now, when you said you studied it with
17	teams, did you	particularly do the electrical
18	engineering par	rt?
19	Α.	No, I did not.
20	Q.	Do you have any degrees in electrical
21	engineering?	
22	Α.	No, I do not.
23	Q.	And you said you studied it in
24	graduate school	. Is that just in the form of a
25	course?	

1 Pardon? Α. 2 Is that in the form of a course in Ο. 3 graduate school? 4 Α. Yes. 5 0. Okay. So I'm showing you here just as 6 a segment of the first couple of pages of the NFPA 70E 7 that we see here on the upper left-hand corner 2015 8 edition. And I'll just direct your attention to the 9 last page of this -- or the next-to-last page. 10 MR. CONNOR: Ray, that's the 11 next-to-last page of your exhibit, not the 12 next-to-last page of -- oh, well, never mind. MR. KRESGE: Yes, of the exhibit. 13 14 So that's the last page. If we could Ο. 15 move to the prior page, please. 16 MR. CONNOR: Well, Ray, since I can't 17 see it, is the exhibit the full document? 18 MR. KRESGE: Yes, we'll pull it up. 19 MR. CONNOR: Or is it portions of --20 or extracts from the document? 21 MR. KRESGE: It's just the first part 22 of it, Glen. 23 MR. CONNOR: Okay. 24 0. So can you take a look at -- let's 25 blow up the bottom part. It just says, other major

1	revisions include the following, just so we have
2	context of what we're looking at. Do you see that?
3	A. No, I don't.
4	Q. Okay. Very bottom part, other major
5	revisions include the following, and it goes one,
6	two I just want to highlight that one.
7	A. Oh, okay.
8	Q. Other major revisions. Do we see
9	that?
10	A. Yes, I do.
11	Q. Include the following. So then if we
12	go to the bottom of this page just so we're clear that
13	there's nothing else there, just scroll up so we see
14	the bottom. Okay. Let's move to the next page. So
15	you see here a list of the major revisions that
16	NFPA 70E did, and then let's highlight No. 14, please.
17	MODERATOR: Which number?
18	MR. KRESGE: 14.
19	MODERATOR: Okay. Hold on.
20	MR. KRESGE: Sure.
21	Q. So what I've highlighted as Revision
22	Number 14 NFPA 70E states, quote, Hazard/Risk
23	Category 0 has been removed from Table 130.7(C)(16).
24	Hazard/risk category will now be referred to as PPE
25	category. Hazard/Risk Category 0 was deleted because

1	the new PPE tabl	e only specifies PPE for work within
2	the arc flash bo	undary. If there is no arc flash
3	hazard, then no	arc flash PPE is required and it is
4	therefore not ne	cessary on a table devoted to PPE.
5		Is that consistent with what you
6	testified to as	the change that NFPA 70E made to the
7	matrix in removi:	ng Hazard Category 0?
8	Α.	Correct.
9	Q.	What is a flash suit? We can take the
10	document down.	What is a flash suit?
11	Α.	Flash suit is a higher level of
12	personal protect	ive equipment for electrical work.
13	I'm not sure wha	t's included in the ensemble. That's
14	beyond the scope	of this this case.
15	Q.	I'm just asking you what you know.
16	Α.	Okay. A suit it's a total clothing
17	system consisting	g of arc-rated shirt and pants and/or
18	arc-rated covera	lls.
19	Q.	And work uniforms that the plaintiffs
20	wore were not fla	ash suits; correct?
21	Α.	Correct.
22	Q.	And what is a Tyvek suit?
23	Α.	Tyvek suit is a suit that's chemical
24	protective equip	ment.
25	Q	And what does that do?

1	A. It's what's referred to as impermeable
2	where you can't it can't soak through to the
3	worker's skin, so it's chemical protective clothing
4	meant to protect the worker's skin from exposure to a
5	chemical. In most cases it can also be protection
6	against dust and fibers.
7	Q. So obviously if you have a
8	short-sleeved shirt on, you have no protection against
9	any chemical splash or spill; correct?
10	A. To your arms, that is correct.
11	Q. And if you even had a long-sleeved
12	cotton shirt on, there's no protection against the
13	chemical being absorbed within the shirt and remaining
14	absorbed against your skin; correct?
15	A. According to Rohm and Haas during
16	their period of time, 2002 to 2009, they considered
17	regular uniforms as protective because there was no
18	additional PPE warranted for many tasks, even though
19	there was exposure to different carcinogens, mutagens,
20	teratogens, sensitizers, hepatotoxins and
21	nephrotoxins.
22	Q. I'm asking you, isn't it true that if
23	you're wearing a long-sleeved shirt, which is
24	you're wearing a uniform, the long-sleeved uniform
25	A. Mm-hmm.

1 -- that that long-sleeved shirt that 0. 2 the plaintiffs wore, if they got exposed to a chemical 3 splash or spill, that shirt is not going to protect 4 them against a chemical burn; correct? Because it's 5 actually unlike the Tyvek suit that you described, the shirt is actually going to absorb the chemical and 6 7 keep it up against the skin; correct? 8 Α. It depends on the chemical, so, no, that is not true. 9 It depends on the amount, depends 10 on the duration of exposure, depends on the intensity 11 of the exposure. So what I'm saying, it depends on 12 the splash, the extent of the splash, the period of 13 time that it's left on the worker's skin, if it soaks 14 through, whether it presents a danger. 15 Well, what is the long-sleeved shirt Ο. 16 protecting against in the context of a chemical spill 17 or splash? 18 That first line of defense. If a Α. 19 worker is -- is splashed and he removes the shirt, then the shirt did provide him with a layer of 20 21 protection. 22 Just like any shirt we could get at a 0. 23 department store; correct? 24 Α. No. Not like any shirt that you could 25 get at the department store. The shirt that you might

1	buy at the depa	rtment store may not have the same
2	cloth density,	it may not be in good repair, it may be
3	torn or it alre	ady may be previously contaminated
4	Q.	But I can buy
5	Α.	for all I know.
6	Q.	I can go and get at a department
7	store somewhere	a shirt like the plaintiffs wore;
8	correct?	
9	Α.	I don't know. I can't confirm that.
10	Where do you sh	.op?
11	Q.	I'm asking generally speaking. I can
12	get a shirt lik	e the plaintiffs wore somewhere in the
13	United States,	online from some kind of department
14	store, vendor,	L.L. Bean, somewhere; correct?
15	Α.	Correct.
16	Q.	All right. So what you're saying is a
17	shirt I can buy	online is what you're describing now
18	as personal pro	tective equipment against a chemical
19	spill; correct?	
20	Α.	The uniform
21	Q.	Yes or no?
22	Α.	Could you please re-ask your
23	question	
24	Q.	Yes.
25	Α.	and I
1		

1 Why don't you repeat -- let's go --0. 2 what I'm asking is, a shirt that -- you've already 3 testified that I could buy a shirt like the plaintiffs 4 wear somewhere in the United States online. So that 5 all-cotton shirt that I can buy that would be like 6 what the plaintiffs wear at the Louisville plant is 7 what you're saying is a personal protective equipment 8 in the chemical plant? 9 No. It wouldn't be because it Α. 10 wouldn't be laundered, it wouldn't be handled the same 11 way as the uniforms. Part of the PPE is not that it's the same cloth, it's that it's being inspected for its 12 13 durability, it's being laundered on a regular basis, 14 it's captive to the facility, and something that you 15 buy somewhere else does not meet those qualifications. 16 Well, how do you know what it is that 0. 17 Cintas's clothing quality is when they're bringing a 18 new shirt in to an employee? 19 They have their own standards for how Α. 20 they --21 And what are those standards? Q. 22 Α. They have standards for inspection. 23 No, no, what are the standards for the Q. new clothes that you're talking about? 24 25 Α. Oh, the new -- new uniforms --

1	Q.	Yes.
2	Α.	that are being brought in?
3	Q.	You're saying there's Cintas
4	standards. Did	l you ask for those standards as part of
5	your preparatio	on of your report?
6	Α.	No. I'm aware
7	Q.	Do you have those standards did you
8	rely on those s	tandards in preparation of your report?
9	Α.	I relied on my awareness of those
10	standards in pr	reparation for my report, yes.
11	Q.	So it's your testimony that you've
12	read the Cintas	s standards at some point in the past?
13	Α.	In the past, yes, I have.
14	Q.	And are the standards different from
15	company to comp	pany?
16	Α.	You mean from Cintas compared to other
17	cleaning compan	lies?
18	Q.	No, from Cintas as it supplies Dow
19	versus Cintas a	s it applies supplies other
20	companies?	
21	Α.	There can be some variation, yes.
22	Q.	Okay. So did you ever find out what
23	the Cintas star	dards are for Dow Chemical?
24	Α.	No, I did not.
25	Q.	All right. So you don't know what the

1	standards are as it relates to the clothing to compare
2	it to something that I could buy online; correct?
3	A. I can state with a reasonable degree
4	of scientific certainty that when uniforms are handled
5	by a uniform company like Cintas that they're going to
6	arrive consistent, they're going to arrive in good
7	shape, they're not going to be torn, they're going to
8	arrive clean and it's that consistency that you're
9	paying for as part of your personal protective
10	equipment.
11	Q. What's the difference between a new
12	good shape shirt that I buy online, all-cotton shirt,
13	versus a new shirt that Cintas supplies to a new Dow
14	production operator?
15	A. I have no way of making that judgment.
16	Q. Okay. So in the context of a chemical
17	spill or splash, what protection does a short-sleeved
18	shirt provide against a chemical burn?
19	A. Against chemical burn, it provided
20	protection to the torso against chemical burn
21	depending on the duration and the intensity of the
22	splash and the hazard of the material.
23	Q. Now, do you know anything about the
24	vendors uniform supplier during the Rohm and Haas
25	period? I'll represent to you it was different than

1	Cintas. Did you	u do you know anything about them?
2	Α.	No, I do not.
3	Q.	Okay. And did you ever determine what
4	the nature of th	he uniforms were that were provided by
5	the pre-Cintas	vendor?
6	Α.	I'm not sure.
7	Q.	Okay. And did you ever learn anything
8	about the laund	ering instructions or what was done
9	with regard to 2	laundering by the pre-Cintas vendor at
10	the Louisville]	plant?
11	Α.	I'm not sure.
12	Q.	And do the all-cotton pants provide
13	any protection a	against a chemical spill or splash?
14	Α.	It depends on the hazard and it
15	depends on the o	duration and intensity of exposure,
16	but, yes.	
17	Q.	Let me
18	Α.	They can
19	Q.	Okay. Go ahead.
20	Α.	They can provide some level of
21	protection.	
22	Q.	Just like any pair of all-cotton pants
23	can; correct?	
24	Α.	No, that's not true.
25	Q.	No? I see. So now tell me what the

1 difference is between the cotton pair of pants that I 2 can buy online versus the all-cotton pants that Cintas 3 provided to the Dow employees. 4 You may choose a pair of jeans that Α. 5 have holes already cut in them and you may be 6 comparing that to a uniform. 7 No, I don't buy them -- I don't buy Ο. 8 them that way. So I'm buying a nice pair of jeans 9 without holes. I'm not into the mod style. 10 Α. Okay. 11 So I buy a regular pair of jeans or Ο. 12 all-cotton pants, you know, and so what is the 13 difference between my all-cotton pants and the 14 all-cotton pants worn by the plaintiffs? 15 Again, the cotton pants worn by the Α. 16 plaintiffs that were uniform are consistent, they are 17 clean, they were in good repair and they're part of a 18 mandatory uniform. 19 Right. Ο. 20 The ones that you choose to wear off Α. 21 the street, I have no idea. 22 What you -- do you know anything about 0. 23 what the difference is between a new pair of pants 24 provided to a new employee at Dow who was a production 25 operator at the Louisville plant versus a new pair of

1	good quality pants, all-cotton pants or jeans that I
2	buy online? What's the difference?
3	A. I I don't have the information to
4	make that determination.
5	Q. Okay. And you agree that based upon
6	your review of those PPE grids that in the event of a
7	potential exposure to a chemical splash that the PPE
8	grids call for protection in the in different
9	forms, such as wearing a Tyvek suit or a Tyvek apron;
10	correct?
11	A. No. Not always. There's potential
12	for exposure for a number of chemicals, serious
13	chemicals, and it's medium to high potential for
14	exposure, and in many cases it does not call for
15	additional body personal protective equipment.
16	Q. So give me an example.
17	A. I have lots of those.
18	Q. Can you give me an example
19	A. Sure.
20	Q off the top of your head?
21	A. Sure. In the KAC process, there's a
22	number of mutagens, teratogens, meaning these are
23	reproductive harm in many cases, there's organ
24	damaging, like hepatotoxins and nephrotoxins. In that
25	process where the worker is exposed and there's medium

1 to high probability of exposure, the route of exposure 2 is skin and yet there's not additional PPE called for; 3 therefore, Rohm and Haas and Dow Chemical were relying 4 upon uniforms as being the personal protective 5 equipment. And what is the medium to high --6 Ο. what's the high exposure? 7 8 Α. It means it has a higher likelihood of 9 occurring. 10 Right. And what -- so let's take a Ο. 11 look at your example. What's the chemical you're 12 talking about, what's the route of high exposure that 13 you're referring to? Do you recall without looking? 14 Yeah, I do. I should be able to --Α. 15 Oh, you can look. I'm asking first --0. 16 Α. Thank you. 17 -- do you recall without looking since Ο. 18 you did your report? 19 Yes, I do. Yes, I do. Methacrylate Α. is a good example. 20 21 Q. Okay. 22 Α. There's many exposures to 23 methacrylate --24 Ο. So --25 Α. -- based chemicals in this process

1 where additional PPE is not called upon for the body 2 and there's a complete reliance on the work uniform to 3 protect that worker, even though there's high 4 probability of exposure and skin is the route of 5 exposure. б So let's take a look -- you look at it Ο. 7 and tell me what -- give me an example of a high 8 exposure risk to skin contact with methacrylate in 9 which no PPE is required other than what you refer to 10 as a PPE in the form of a shirt and pants. 11 Α. Sure. No problem. 12 MR. KRESGE: And, Glen, my problem is 13 I don't know how to deal with this because she's 14 referring to these documents that I don't have and I'm 15 confident that you provided them to us, but I can't --16 I don't know what -- how to manage this because I 17 don't -- I don't remember it. I'm sure that you did 18 send it to us but I don't have them. 19 Okay. This is the KB plant PPE grid. Α. 20 If you want I can share my screen because I do have 21 them on my screen. Would that help? 22 Yes, please. 0. 23 Okay. Okay. Let me fish that one out Α. 24 of my documents here and I'll open it up and then I'll 25 share my screen. Okay. And lucky for us it's the top

1 one right across the -- and I'm assuming I have share 2 screen -- let's see. 3 It may not work with this, I don't 0. 4 know. 5 Α. I think we'll be okay. Yep. All 6 right. Can you guys see my screen now? 7 Yes, I can. All right. So this is an 0. 8 August 2018 version. 9 Correct. And in this version, you Α. 10 have this first duty where they're loading tank trucks 11 and they're exposed to methyl methacrylate and some 12 other acrylates, which all fall into a similar 13 category as being sensitizers. They're also 14 teratogens and it even states here what those possible 15 embryo and fetal toxics effects are for that chemical. 16 It explains to you, too, here -- I'm going to enlarge 17 this a little bit so that no one goes blind, it 18 explains that it -- route of exposure, the way it gets 19 into the body, is through exposed skin here and that 20 you have -- exposure routes for skin contact is medium 21 and yet even though you have medium potential for 22 exposure -- oops, sorry about that -- you don't have 23 any additional PPE added in that process, so you are 24 basically relying on your uniform to be your coverage 25 for your body to protect your skin with -- skin is a

1	major route of exposure to something that is a
2	mutagen, teratogen, carcinogen, sensitizer, okay? So
3	PPE is indeed the work uniform and there's
4	Q. Can you scroll over to the right. I
5	just
6	A. Sure.
7	Q. I'd like to see this. Thank you.
8	A. And I think there's one more column.
9	There we go. Yeah, it ends there. Is there anything
10	else that you wanted to see? There's several more in
11	this particular PPE grid that are severe irritants.
12	For instance, we can go down to some of the other
13	chemicals if you want me to.
14	Q. Can you go down to the third column,
15	unloading monomers from bottom valve?
16	A. Sure.
17	Q. And here where we have an actual high
18	skin contact for exposure, the grid requires the
19	wearing of a Tyvek full suit; correct?
20	A. Correct. And we can go up to this
21	one, sampling or draining lines, you have the same
22	methacrylate or acrylate hazards, you have exposed
23	skin as your pathway that it gets into the body and
24	it's high potential and, again, there's no additional
25	PPE added to this, so you are yet to rely on your

1 uniform as your PPE to protect your skin. 2 Okay. Can we just scroll across the 0. 3 Row 16, please. 4 Α. Is that where you wanted to be? Sure. 5 0. Just a little bit further, please. 6 Thank you. 7 Okay. Yep. They mention adding Α. 8 gloves but they do not mention adding any other body 9 PPE. They don't even mention it -- anything as even 10 being optional. 11 Ο. If we could go up to the upper 12 left-hand corner, please. 13 This -- oh, left. My other left. Α. 14 There we go. 15 And you see here -- and I know you 0. 16 refer to this in your report, but you see here No. 4, 17 and it says, work uniform or long pants and 18 long-sleeved shirt. 19 Α. Correct. 20 So according to this grid and others, 0. 21 because this line appears in the other grids as well, 22 the standard can be satisfied by wearing a nonuniform 23 long-sleeved shirt and a nonuniform pair of pants; 24 correct? 25 Α. Yes.

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1	Q.	And you agree that the grid here, this
2	grid for KB plan	nt we'll use as an example, does not
3	make any referen	nce to the need to keep work clothes on
4	site; correct?	
5	Α.	Correct.
6	Q.	And is there
7	Α.	There's no
8	Q.	Is there any grid that you saw and
9	that you review	ed in preparation of your report that
10	stated that any	work clothes worn by the plaintiffs
11	needed to be kep	ot on site and not taken off site and
12	needed to be, ye	ou know, retained on site or to use
13	your words held	captive to the to the plant?
14	Α.	Actually, yes, there were indications
15	for the need for	r captive work uniforms.
16	Q.	How about on this grid? Let's just
17	start with this	grid.
18	Α.	Oh, no, not on this grid.
19	Q.	And is it your testimony that there
20	are other the	ere's some other plant PPE grids that
21	do reference cap	ptive clothing?
22	Α.	Not grids, it's policy.
23	Q.	Okay. So my question is, is there any
24	PPE grid that ye	ou reviewed and that you've relied on
25	in preparing you	ur report that states that work clothes

1	worn by the plaintiffs have to be held, in your words,
2	captive to the site and not taken off the site?
3	A. Not in the grids, no. In the policies
4	and in the OSHA laws.
5	Q. You're referring to an OSHA log. Are
6	you referring to a company OSHA log?
7	A. No. OSHA law, L-A-W.
8	Q. Oh, OSHA law.
9	A. Mm-hmm.
10	Q. Oh, all right. And you're saying it's
11	OSHA law and what else?
12	A. Policies.
13	Q. When you're saying policies, just
14	generally and then we can get to them, but generally
15	what are you looking at? What kind of policies? Are
16	you talking about like an electrical safety policy
17	or
18	A. No. PPE policy, but I'd have to look
19	it up. I'm not sure which one.
20	Q. Okay. What but you did testify
21	that OSHA requires the work uniforms worn by the
22	plaintiffs to be kept, in your words, captive to the
23	plant and not taken off the outside of the plant.
24	What OSHA law, either statutory or regulation,
25	requires the holding of the plaintiffs' work uniforms

1	captive to the Louisville plant?
2	A. The ones for 1910.120 called hazardous
3	waste operations and emergency response,
4	Standard 1910.119, process safety management of highly
5	hazardous chemicals, 1910.132, general requirements,
6	PPE, then for your specific contaminants, such as
7	vinyl chloride, asbestos, inorganic arsenic, lead,
8	cadmium, benzene, acrylonitrile, ethylene oxide,
9	formaldehyde, methylenedianiline, butadiene, methylene
10	chloride. All of those indicate that it is considered
11	standard best practices to keep your PPE, your work
12	uniforms on site.
13	Q. All righty. Let's take a look at
14	because I want to see where it says that and, you
15	know, as opposed to indicate, I want to see where it
16	states in these particular provisions that you're
17	citing. So let's take a look at Exhibit 7.
18	A. We can start with the lead standard,
19	which is OSHA 1910.1025 for lead.
20	Q. Let's start with Exhibit 7, please.
21	And is everything you just cited in your report?
22	A. No. I don't think that's necessarily
23	cited or described.
24	(McCLELLAN DEPOSITION EXHIBIT 7 DISCUSSED)
25	Q. All right. Well, I'm going with what

1	you cited, so if we could pull up Exhibit 7.
2	MODERATOR: Okay. Could you unshare
3	your screen, Ms. McClellan, please.
4	THE WITNESS: Oh, sorry about that.
5	MODERATOR: No problem.
6	Q. All right. Let's go to the second
7	next page. This is a regulation that you cited,
8	1910.132. And it's referencing, of course, the
9	protective equipment.
10	A. Mm-hmm.
11	Q. Now, I'll direct your attention to the
12	third page first. Let's take a quick look at that.
13	And if we can highlight are we on the third page?
14	MODERATOR: Yes.
15	A. No.
16	Q. No, that's the second page.
17	MODERATOR: Next one?
18	MR. KRESGE: Yes, please. There we
19	go. And can we highlight No. 4.
20	MODERATOR: Okay. Hold on.
21	Q. All right. Here we see and this
22	regulation states that the employer is not required to
23	pay for, and then, quote, everyday clothing, such as
24	long-sleeve shirts, long pants, street shoes and
25	normal work boots.

1	Α.	Right.
2	Q.	Do you see that? So in this
3	particular regu	lation that you cited, the long-sleeve
4	shirts and long	pants are referred to as, quote,
5	everyday clothi	ng; correct?
6	Α.	In that context, yes.
7	Q.	Okay. Now, where where does it say
8	that the everyda	ay clothing that's provided to the
9	plaintiffs has	to be held captive to the site?
10	Α.	I'm not I'm not calling everyday
11	clothing PPE, I	'm referring to uniforms being captive.
12	Q.	But the work uniforms that you're
13	opining about h	ere are long-sleeve shirts and long
14	pants; correct?	
15	Α.	As uniforms long-sleeve shirts and
16	long pants.	
17	Q.	Right.
18	Α.	There's a difference.
19	Q.	All right. But OSHA's referring to
20	long-sleeve shi:	rts and long pants as everyday
21	clothing; corre	ct?
22	Α.	If the employer's not paying for it.
23	The employer in	this case is paying for the uniforms.
24	We're not refer:	ring and that's this is another
25	reason that Roh	m and Haas consider their uniforms as

1 personal protective equipment, is because they pay for 2 it. 3 Ο. But did you ever -- did you ever learn 4 as part of this report what the actual history was in terms of how work clothing came to be provided to the 5 6 employees? 7 Α. Yes. 8 0. Okay. And what did you -- what did 9 you learn? 10 Α. What I learned is it was an evolution. 11 And how did it start? Ο. 12 It started with the need for Α. 13 consistency. 14 Ο. Did you ever learn -- did you No. 15 ever learn anything about a collective bargaining 16 process? 17 No. Α. 18 You understand that the plaintiffs are 0. 19 all represented by a union; correct? 20 Α. Correct. 21 Q. And for the past 40 years the 22 plaintiffs have all been represented by a union at the 23 Louisville plant? 24 Α. Yes. And as part of their agreement 25 they began providing uniforms.

1	Q. Right? So the origin was a as you
2	understand it, as you've learned, was an actual
3	bargaining demand from the union to provide work
4	clothes to the employees?
5	A. Mm-hmm.
6	Q. Is that correct?
7	A. Correct.
8	Q. And did you also learn as part of
9	developing the facts for your report that that that
10	a change occurred in 1997 to provide to keep the
11	clothes on site?
12	A. Correct.
13	Q. Okay. And did you learn at all that
14	about that the company actually proposed that as
15	a matter of inventory control because it was losing
16	uniforms when they were being taken off the site and
17	as a result they wanted to sort of stop the bleeding
18	of money of lost uniforms?
19	A. Correct.
20	Q. Okay. And so as a result of a need
21	for inventory control, the company included as part of
22	the proposal that it would provide clean clothes to
23	the plaintiffs as long as they would change in and out
24	of the clothes on the site so as to retain inventory
25	control?

1

A.	Right

2 And then did you also learn that the 0. 3 original proposal language in 1997 said that dirty work clothes could not be taken home but then that as 4 5 part of -- consistent with the inventory control б rationale of the company for having the clothes remain on site, that the company then changed the language in 7 8 the next bargaining session to say that clean clothes 9 or dirty clothes or worn clothes could not be taken 10 off site, that is, that the company added in any 11 clothes, work clothes, whether they be clean or worn, 12 could not be taken off site?

A. Right. As I indicated earlier, it was
an evolution.

Q. Right. And that evolution was to be even more encompassing and consistent with their inventory control rationale, which is that they didn't want to lose clean work clothes or worn work clothes having them go off site; correct?

A. Correct. And that has a benefit of ensuring that contaminants that could be on dirty work clothes do not migrate to employees' vehicles, does not migrate to employees' homes.

Q. And was your rationale ofcontamination ever in any part of the collective

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1	bargaining history between the company and the union
2	as it pertained to the Louisville plant?
3	A. In part, yes.
4	Q. All right. What is it that you can
5	point to in our record that says as part of the
6	bargaining history that prevention of contamination is
7	a reason in whole or in part for keeping the clothes
8	on site?
9	A. In the document there isn't any
10	indication in the collective agreement.
11	Q. And how about in the in any of the
12	discovery records, be it deposition testimony or be it
13	in any of the proposals, is there anything that you
14	can point to that would show that prevention of
15	contamination was a reason in whole or in part for
16	maintaining the clothes and keeping the clothes, the
17	work uniforms on site?
18	A. After working for United Auto Workers
19	organization, I worked for General Motors, I know that
20	the reasons behind making decisions for collective
21	bargaining agreements are based on health and safety
22	considerations and with a reasonable degree of
23	scientific certainty, I'm sure that the maintenance of
24	captive uniforms, that consideration was making sure
25	that those materials did not migrate off of the site.

1	Q. So you're now opining with a
2	reasonable degree of scientific certainty without any
3	factual basis in the record; correct?
4	A. It's based on my experience.
5	Q. Right. About what's happening over at
б	General Motors; right?
7	A. Well, what happens in collective
8	bargaining agreements with unions involved, yes.
9	Q. All right. But you have no specific
10	factual basis for concluding that prevention of
11	contamination was a reason in whole or in part for the
12	company's decision and bargaining proposal and
13	bargaining agreement to maintain the clothes, the work
14	uniforms on site; correct?
15	A. It's part correct, it's part of
16	best practices.
17	Q. Well, whatever you define as best
18	practices, but I'm just looking at the collective
19	bargaining agreement process
20	A. Okay. Correct.
21	Q and what they were talking about.
22	So now let's go to since you're talking about OSHA
23	law, let's talk about this regulation. Tell me where
24	it is that it says that a long-sleeve shirt or long
25	pants, and we can back out of this, which again is

1	referred to here as everyday clothing, where it says
2	that that needs to be kept on site.
3	A. If you look in the lead standard
4	1910
5	Q. No, no, no. No, no. Let's stay
6	with this. I because you cited this and you relied
7	on it, so I want to talk about what you're referring
8	to or relying on.
9	A. So in my opinion you mean?
10	Q. Yeah.
11	A. Oh, okay.
12	Q. Pull this up from I didn't pull
13	this out of there, I pulled it from your opinion.
14	A. Oh, I know. I didn't know if you
15	wanted to put it on the screen or not.
16	Q. Yes, I'd like it back up, please. And
17	we can take that part down, the highlighted part. And
18	if we could go back to two pages beforehand, please.
19	And if we could blow it up a little bit so that she
20	can see it. And then we can just scroll down as you
21	wish. If you can if you know the answer without
22	looking, fine, but if you'd like to, you can just
23	my question generally is, looking at this particular
24	regulation that you cited, where does it state that
25	the work uniforms worn by the plaintiffs have to be

1	kept on site, 1	had to be held, as you put it, captive?
2	Α.	I'm just looking for my copy of the
3	PPE standard t	hat I have marked.
4	Q.	Well, I'm looking at the OSHA law.
5	I'm not looking	g at the PPE standards. Are you talking
6	about an OSHA a	standard?
7	Α.	That's what a PPE standard is. That
8	is what 1910.1	32 is. That's the OSHA PPE standard.
9	Q.	So you're looking for your version of
10	.132?	
11	Α.	Uh-huh. Yeah.
12	Q.	Okay.
13	А.	Oh, there we go. Actually, it's in
14	the specific s	tandards. So more specifically than
15	132, it's in t	ne PPE section of material specific
16	standards, like	e lead, which is one of the materials
17	that they are	exposed to.
18	Q.	We'll get to that. And if my
19	question is	
20	А.	Captive is not specified here, I'll
21	answer your que	estion.
22	Q.	Okay.
23	А.	Captive is not specified in 1910.132
24	but it is spec.	ified in 1910.100 and it's also
25	specified in 1	910.1025. So if we want to review

1 those, we're going to review the PPE section in those 2 standards. 3 Which -- which one said -- again, you Ο. 4 said lead, is that .1025? 5 Α. Yeah, we're going to look at lead and б asbestos. 7 And that's .1001. Ο. 8 Α. Which --9 Okay. Go ahead. Ο. 10 Α. Yeah. 11 Ο. I'm sorry. 12 Α. Okay. So in asbestos if you look on 13 Page 9 out of 25, the reference is 1910.100, 14 Section H, as in Harry, (2)(ii). It states that the 15 employer shall ensure that no employee takes 16 contaminated work clothing out of the change room 17 except those employees authorized to do so for the 18 purpose of laundering, maintenance or disposal. 19 Let's go to Exhibit 9A, please, and Ο. 20 that's what this is, what you're referring to. So 21 we're going to pull it up on the screen. 22 Α. Okay. 23 MODERATOR: 9A? 24 MR. KRESGE: Yes, Sean. 25 Α. That's not the correct --

1 And if --0. 2 Oh, wait, that is the one. Okay. Go Α. 3 to Page 9 of that document. 4 I have it as Page 8, Sean, but it's Q. 5 Section H. б Α. It -- yeah, H and then Paragraph 4. 7 Keep going. Oh, there you go. So this is the PPE, 8 protective work clothing and equipment. If you look 9 at -- yep, Item ii, that's the statement that I just 10 made. 11 (McCLELLAN DEPOSITION EXHIBIT 9A DISCUSSED) 12 Ο. Now, this standard that we're looking 13 at here is -- deals solely with asbestos; correct? 14 Α. Correct. 15 Okay. And on a daily basis were the 0. 16 plaintiffs exposed to asbestos in their work? 17 Α. Mm-hmm. 18 0. Is that a yes? 19 I don't know, but it is on the grids, Α. there is potential for it. 20 21 Q. Right. 22 Α. So --23 I'm not talking about potential, I'm Q. 24 asking you were the plaintiffs exposed to asbestos as 25 part of their job on a regular basis?

1	Α.	Yes. According to the PPE grids, it
2	is listed as a	potential contaminant on a regular
3	basis and I can	look up the probabilities for you in
4	the grids.	
5	Q.	And then is it your testimony, then
6	so you're yo	u're relying on this particular
7	asbestos standa	rd from OSHA based upon your view that
8	the plaintiffs	were regularly exposed to asbestos in
9	their work?	
10	Α.	No.
11	Q.	Is that correct?
12	Α.	No. I'm relying on the PPE grids that
13	alerts the read	er to the fact that asbestos is
14	potentially in	the work environment of the operators.
15	Q.	Right. But a PPE grid just gives
16	certain circums	tances or situations that could arise
17	as part of a jo	b; correct?
18	Α.	Correct.
19	Q.	And if it was for example, there
20	could be a PPE	grid for line opening that the
21	plaintiffs won'	t even do; correct?
22	Α.	I don't know.
23	Q.	Right. So you don't know the details
24	of what the pla	intiffs do on a on you know, at
25	any point in ti	me

1	Α.	No.
2	Q.	during the past 19 years; correct?
3	Α.	I I do know what they do on a daily
4	basis on the bas	sis of the PPE grids, the frequency at
5	which is indicat	ted by the low, medium and high
6	probability rat:	ing. If you'd like for me to look them
7	up in the PPE g	rids, I can tell you whether it was
8	low, which means	s maybe that task exposed them to
9	asbestos on a ve	ery rare basis up to high, which might
10	have been a dai	ly basis.
11	Q.	Well, no, doesn't the low, medium or
12	high relate to	the exposure risk in performing that
13	specific task at	t that time, whether it be once a year
14	or every day?	
15	Α.	It can be a combination of duration
16	for that task a	nd it can be in combination with some
17	of the other the	ings that they're doing.
18	Q.	Did you ever find out what it was?
19	А.	Find out what it what it
20	Q.	You're saying it could be this I'm
21	sorry to interro	upt you. Go ahead.
22	Α.	Could you repeat your question.
23	Q.	Yeah. Did you ever you're
24	answering here a	and testifying, well, it could be this
25	or it could be	that, but the question is, what was it

at Rohm and Haas and Dow in Louisville? Did you ever 1 2 find out what that PPE grid reference to medium, low 3 or high was? 4 Α. Yes. 5 Was it a reference -- was it indeed a 0. 6 reference to just the exposure risk in doing that task 7 regardless of how -- the frequency of the task or was 8 it a reference to the frequency of the task? 9 The -- there's a note in the thing Α. 10 where if you click on it, it says, degree of exposure 11 routes, low means low potential for exposure, not anticipated chemical contact. Medium means under 12 13 normal conditions some potential for exposure. 14 Right. 0. 15 And it specifies it so, yes, I did Α. 16 find out it is in here --17 Right. Ο. 18 -- and it does indicate what the Α. 19 potential is. 20 Ο. But your reading doesn't tell you the 21 frequency of the task, it just tells you what the 22 exposure risk is when you're performing that specific 23 task regardless of frequency; correct? 24 Α. Frequency is part of exposure risk. 25 Q. That's your interpretation of the

1 grid, then? 2 Α. Yes. 3 Okay. So -- all right. Now, if 0. 4 you're working with a line opening, because some of 5 those grids were for line openings; correct? 6 Α. Correct. 7 And in the context of line openings, 0. 8 that typically would be something where there might 9 be, might be a potential for some asbestos exposure; 10 correct? 11 Α. Correct. 12 And do you know one way or the other 0. 13 whether our plaintiffs ever did line openings? 14 Given that these were written for Α. 15 regular duties for operators as well as line opening 16 -- line and equipment opening. 17 Well, there's two different set of 0. 18 grids; right? There's the line opening grids and then 19 there's the regular duty grids. 20 Α. Right. 21 So my question to you is with regard 0. 22 to the line opening grids, is it --23 This applies to all operators, both Α. 24 sheets, they've simply separated out your daily duties 25 from your occasional line opening and equipment

1 opening grids. 2 All right. So it's your -- your 0. 3 testimony that the documents that you're looking at 4 were for -- that the documents you're looking at 5 related to line openings applied to the plaintiffs? 6 Α. I can't confirm that with certainty, 7 no. 8 0. Okay. Did you ever ask any of the plaintiffs whether or not they did any line openings? 9 10 Α. No. 11 Ο. So when we're looking at asbestos 12 exposure in this particular standard that's 1910.1001, 13 is it your -- is it your -- is your opinion based in 14 part -- in terms of your reliance on this particular 15 standard, is it based in part -- is it based on your 16 factual conclusion that the plaintiffs were regularly 17 exposed to asbestos? 18 Could you restate your question. Α. 19 Okay. Is your reliance on this Ο. 20 particular section, 29 C.F.R., Section 1910.1001 on 21 asbestos, is your reliance on this, on this standard 22 in your report based on your factual assumption that 23 the plaintiffs were regularly exposed to asbestos in 24 their work? 25 Α. No.

1 Okay. Is it -- what's it based on? 0. 2 It's based on the PPE grids that Α. 3 actually characterize the workers' potential 4 exposures. 5 0. Well, I'm getting to that. So that's 6 what my question is. I understand that you have --7 you have your interpretation of those grids, but is it 8 your -- let me make sure I'm clear. Is it your 9 interpretation of the PPE grids, and we're going to 10 have to try to deal with this somehow because I'm 11 going to need to get ahold of what you're looking at, but is that -- is it your interpretation of those PPE 12 13 grids from 2018 the basis for your conclusion that the 14 plaintiffs were regularly exposed to asbestos? 15 If you leave the word regularly out, Α. 16 it's a basis for assumption or it's a basis for --17 with a reasonable degree of scientific certainty that 18 they were exposed. The exposure potential is going to 19 vary based on what tasks they were involved in but the 20 PPE grids do indicate that they were exposed. 21 And is it your testimony that the PPE Q. 22 grids show or demonstrate the frequency of exposure of 23 asbestos to the plaintiffs? 24 Α. To an extent, yes, based on the 25 exposure route probabilities that they embedded in the

1 grids. 2 Okay. And your interpretation of 0. 3 medium, low and high? 4 Α. Correct. 5 So, then, if -- if there is all this Ο. exposure to asbestos for the plaintiffs that underlies б 7 your reliance here on Section 1910.1001, then a lot 8 has to be done with regard to those clothes other than 9 just giving them over to Cintas; right? 10 The protocols for cleaning I'm not Α. 11 aware of. 12 I see. So -- well, let's just take a 0. 13 look at the standard that you're relying on. It's 14 right there in part. So if we go down a little bit 15 below here to Number (iv). 16 Α. Mm-hmm. 17 It says that, the employer shall Ο. 18 ensure that containers of contaminated work clothing, 19 which are to be taken out of change rooms or the 20 workplace for cleaning, maintenance or disposal, bear 21 labels in accordance with Paragraph (j) of this 22 section. 23 Mm-hmm. Α. 24 Ο. And then if we were to go down to (j), 25 there's all these warning signs that need to be -- so

1	we have to keep going further down. It's on Page 12
2	of my document, my printout, all these warning labels
3	that have to be placed on the laundry the laundry
4	bags.
5	A. Correct.
6	Q. So, right, it says, warning, may cause
7	cancer, cause damage to the lungs, authorized
8	personnel only, wear respiratory protection,
9	protective clothing in this area; right?
10	A. Mm-hmm. Correct.
11	Q. Now, was any of that ever done with
12	Rohm and Haas and its vendor or Dow and its clothing
13	vendor as it came to the plaintiffs clothes?
14	A. It depends on the layer of clothing
15	that you're talking about. The outer layer of what
16	you would wear if you were suspecting that asbestos
17	was going to be in your environment, you would handle
18	that with this level of care and caution.
19	Q. I see.
20	A. Your base layer
21	Q. Good ahead.
22	A. Yeah, your base layer of clothing,
23	which would be your work uniform, as long as it's
24	laundered and you've turned the fibers from dry to
25	wet, then there's less caution that is needed than

1	with the outer la	ayers, the Tyvek suits or whatever
2	that you typical	ly dispose of as regulated waste.
3	Q.	So when you're what you're saying
4	is that when you	actually are working with asbestos,
5	let's assume that	t the plaintiffs actually did, that
6	they have to wear	r Tyvek suits and other PPE on top of
7	their uniforms;	correct?
8	Α.	When they yes, when you anticipate
9	exposure to asbe	stos, you should be wearing additional
10	PPE.	
11	Q. 1	Right. Because the work uniform
12	itself does not j	protect you against the asbestos
13	Α.	Correct.
14	Q.	correct?
15	Α.	Correct.
16	Q	And so then the work uniform itself,
17	then, because by	virtue of wearing a Tyvek suit on top
18	of it, the work	uniform itself whenever there's
19	exposure to asbe	stos does not become contaminated;
20	correct?	
21	Α.	That is the hope.
22	Q.	So then all of these provisions under
23	Section 8 H,	I mean, if we could go back to H
24	A. 1	Mm-hmm.
25	Q.	all of these provisions which are

1 quite detailed about removal and storage and cleaning 2 and replacement and showers, well, that's in I, we'll 3 get to that, but, you know, removal and storage and 4 cleaning and replacement, those particular provisions, 5 Sections 2 and 3, do not apply to our case; correct? б Α. They -- they do not apply to our case 7 unless the worker accidentally removes their coveralls 8 or their Tyvek suit and accidentally contaminate their clothing, their work clothing, their uniform, and then 9 10 you would be left to assume that now your work uniform 11 needs to be handled similarly. All right. And Section I refers to 12 Ο. 13 special rules with regard to -- if we can scroll down, 14 Section I refers to special rules with regard to 15 change rooms and requiring of showers; right? 16 Α. Correct. 17 And Section I of the asbestos standard Ο. does not apply to our case, either; correct? 18 19 Hygiene practices, change rooms, no, Α. 20 these are typically the approaches that you would 21 employ if you were abating asbestos. 22 Right. So, again, would you agree 0. 23 with me that Section I of the asbestos standard here 24 that appears on Page 9 of my printout, which has 25 sections on change rooms and showers, that this

1	Section I does not apply to our case?
2	A. In the circumstances that we're
3	discussing, no.
4	Q. Okay. My question was, do you agree
5	with me, so do you agree with me that Section I of the
6	asbestos standard does not apply to our case?
7	A. To what?
8	Q. Let me ask it differently so it's
9	clear. Does Section I let me just make sure I have
10	it of the does Section I of this asbestos
11	standard, that is, 29 C.F.R. 1910.1001, apply at all
12	to our plaintiffs in our case?
13	A. It does if they are removing asbestos
14	or disturbing asbestos is part of line and equipment
15	operations.
16	Q. And let me make it more precise. Does
17	Section I of this regulation that we've marked as
18	Exhibit 9A apply to the plaintiffs' work uniforms?
19	A. The plaintiffs' what?
20	Q. Work uniforms.
21	A. It's not meant to apply, it says
22	it's not this isn't meant to apply to a certain
23	part of their clothing, it's meant to apply to people
24	who are doing certain tasks. What I'm saying is that
25	the task that it applies to is to anybody who's

1	disturbing or re	moving or abating asbestos.
2	Q.	And your testimony is that the
3	plaintiffs do.	That's why you're relying on this
4	standard; right?	
5	Α.	Before I answer you, let me check.
6	No, it does not.	
7	Q.	So does Section I of the asbestos
8	standard that we	've marked as Exhibit 9A apply to the
9	plaintiffs' work	uniforms? I think you just answered
10	no, but I just w	ant to make sure it's clear.
11	A	No.
12	Q	Now, were the plaintiffs ever required
13	to shower at the	end of their work shift?
14	Α.	I don't believe so.
15	Q.	So indeed if there had been if
16	there was any co	ntamination or potential contamination
17	with asbestos, t	here would be a requirement for
18	showering at the	end of the work shift before the
19	employee leaves	the work site; correct?
20	Α.	Correct.
21	Q.	Indeed wouldn't that be true for lead
22	as well?	
23	Α.	Typically, yes.
24	Q.	Okay. And so let's take a look at the
25	lead standard th	at you also were relying on, which is

1	Exhibit 9B, ple	ase. Now, as the starting point, is
2	this the OSHA s	tandard that you're relying on?
3	Α.	Yep, it is.
4	(McCLELLAN	DEPOSITION EXHIBIT 9B DISCUSSED)
5	Q.	Okay. Now, did our plaintiffs in this
6	case ever have	exposure to lead?
7	Α.	Yes.
8	Q.	Okay. And what tasks did they have
9	exposure to lea	d, if you know offhand? You can look
10	at it later but	do you know offhand?
11	Α.	No. I don't remember offhand.
12	Q.	And do you know how frequent the
13	exposure of the	plaintiffs was to lead?
14	Α.	I don't remember offhand.
15	Q.	Now, I noticed that the PPE grids that
16	you were lookin	g at were created in 2018.
17	Α.	Mm-hmm.
18	Q.	Do you know how many of our plaintiffs
19	were actually w	orking at the Louisville plant in 2018?
20	Α.	I do not know.
21	Q.	Did you ever look at any of the PPE
22	grids that were	before 2018?
23	Α.	I have some PPE grids that are
24	illegible.	
25	Q.	That would be mine, yeah, so I'm

1	sorry.		
2		Α.	Yeah.
3		Q.	Okay.
4		Α.	Yeah.
5		Q.	So did you ever attempt to review
6	those?	I know t	they're hard to read but did you ever
7	attempt	to revie	ew those?
8		Α.	I did and I found many of the same
9	contamir	nants and	l hazards.
10		Q.	All right. So let's get back to lead.
11	Is it yo	our testi	imony that this OSHA regulation on lead
12	requires	s the pla	aintiffs' work uniforms to be kept
13	captive	to the s	site?
14		Α.	Correct.
15		Q.	And that would be on a daily basis
16	regardle	ess of wł	nether they worked with lead or not
17	that par	ticular	day?
18		Α.	Correct.
19		Q.	And so if on any particular day all of
20	our plai	intiffs w	who were working at the Louisville
21	plant ha	ad no exp	posure to lead, why is this
22	Section	1910.102	25 relevant?
23		Α.	In case they have had exposure that
24	they're	unaware	of.
25		Q.	So you're just saying now we're going

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1	to apply a regulation to some hypothetical exposure?
2	A. It's not hypothetical, it's in your
3	PPE grids.
4	Q. And is it your testimony that the PPE
5	grids support a position or a factual conclusion that
6	the plaintiffs on a regular basis are exposed to lead?
7	A. Yeah, I believe that was in the old
8	PPE evaluations that were that dated back to Rohm
9	and Haas exposures.
10	Q. And do those documents that you're
11	referring to address the frequency of exposure to lead
12	by our plaintiffs?
13	A. No, they do not.
14	Q. Do you have any knowledge, factual
15	basis I should say, for the frequency of exposure to
16	lead by our plaintiffs in the Louisville plant at any
17	point in time over the course of the last 19 years?
18	A. No, I do not.
19	Q. So let's take a look at Section G.
20	It's on Page 7 of mine. There we go. So is it your
21	testimony that Section G of OSHA regulation 1910.1025
22	requires that the plaintiffs' work uniforms be kept
23	captive to the plant and not removed?
24	A. Correct.
25	Q. All right. And so is it your

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1	testimony that Section G of 1910.1025 applies to the
2	plaintiffs' work uniforms?
3	A. Potentially, yes.
4	Q. I'm not asking potentially, I'm asking
5	one way or the other, does it apply? Because you've
6	cited it and refer to it in your report as you're
7	relying on it. So I want to understand if you're
8	saying not potentially, is it your position and
9	opinion that Section G of 1910.1025 applies to the
10	plaintiffs' work uniforms?
11	A. Yes.
12	Q. Okay. So then if we were to look at
13	what Section G requires, just like with the asbestos,
14	the Section G requires very special laundering
15	instructions and disposal of clothes that have been
16	exposed to lead. So let's take a look and see what
17	those are. So let's take a look at the very next
18	page. So highlight it. So the first thing that OSHA
19	says when we've got exposure to lead is that the work
20	clothes must be changed in a change room solely
21	provided for that purpose. Do you see that?
22	A. Mm-hmm.
23	Q. And does that apply to our plaintiffs
24	and their work uniforms?
25	A. I don't know.

1	Q.		You don't know. So you're testifying
2	that the s	section	applies to the plaintiffs but you
3	don't ever	n know	how they change and what the change
4	rooms were	e?	
5	A		Because it's listed in your hazard
6	assessment	ts that	were provided in documentation, I am
7	left to be	elieve	with a reasonable degree of scientific
8	certainty	that t	hey did have these work systems in
9	place and	that t	here was potential for exposure to
10	lead and t	to the	work uniforms.
11	Q.	•	So is it your testimony that on a
12	daily basi	is that	the plaintiffs would then have to go
13	to a speci	ial cha	nge room designated just for lead and
14	go through	n the p	process of clothes changing in that
15	room?		
16	A		Maybe not on a daily basis.
17	Q.		On a regular basis?
18	A		Maybe not even on a regular basis.
19	Q.		On any basis?
20	A.	•	Yes. On some basis because it is in
21	their PPE	grids,	yes.
22	Q.		So is it your testimony, then all
23	right. So	o it's	your testimony that there is some
24	special le	ead cha	nge room?
25	A.		There there very well could have

1 been because it was -- yes, because it was listed in 2 the PPE grids. 3 All right. And it's your testimony 0. 4 that the plaintiffs -- did you know if one way or the 5 other the plaintiffs ever had to use that special lead 6 room --7 I do not --Α. 8 0. -- to change? 9 Α. -- know. 10 Okay. Now, what OSHA also requires 0. 11 when we've got exposure to lead is that you have to --12 in the next Subpart (v), we have to place all this 13 contaminated clothing in a closed container in that 14 special change room to prevent the dispersion of lead. 15 Α. Mm-hmm. 16 Ο. Is that what -- how our plaintiffs' work uniforms were handled? 17 18 I do not know. Α. 19 Okay. And then what OSHA also 0. 20 requires in this section that you rely on is that the 21 employer, in this case either Rohm and Haas or Dow 22 Chemical, must inform the launderer of the exposure to 23 lead and label the bags of contaminated clothing with all these danger warnings; do you see that? 24 25 Α. Yes.

1 Is that -- is that how -- let me just 0. 2 say this way, is that how Rohm and Haas interacted 3 with its clothing vendor or vendors --4 Α. I do not know. 5 Ο. -- when handling the plaintiffs' work б uniforms? 7 I do not know. Α. And is what we see in Sections --8 0. 9 Subparts (vi) and (vii) here that are subparts of 10 Section G, is that how Dow Chemical has interacted and 11 provided -- has interacted with its clothing vendors, 12 such as Cintas, in handling the plaintiffs' work 13 uniforms? 14 Α. I do not know. 15 And is it your understanding that when 0. 16 there is exposure to lead that employees are supposed 17 to shower before leaving work? 18 Α. Correct. 19 And, again, did Rohm and Haas or Dow 0. 20 Chemical ever require plaintiffs to shower before 21 leaving work? 22 I do not know. Α. 23 MR. KRESGE: I think this would be a 24 good time, if we could, just to take a break. 25 Couldn't wait. Glad you MR. CONNOR:

1 asked. 2 MR. KRESGE: All right. Thank you. 3 MR. CONNOR: 10 minutes, 15 minutes? 4 MR. KRESGE: Yes, that would be good, 5 Glen. 6 MODERATOR: It is 4:32 and we are 7 going off the record. 8 (OFF THE RECORD) 9 It is 4:56 and we are back MODERATOR: 10 on the record. 11 Ο. I'd like to -- let me ask it just 12 generally. You also cited and relied on an OSHA 13 standard related to silica. 14 Mm-hmm. Α. 15 Do you recall that? 0. 16 Α. Yes. 17 Okay. And what is silica? 0. 18 Silica, in this specific case I'm Α. 19 referring to respirable crystalline silica and that is why that there's an OSHA standard. It's a particle 20 21 material, it's a solid, and it's -- when you think of 22 sand, it's -- the very finest smallest of quartz 23 silica tends to be the most hazardous and so that's why it's considered a carcinogen as well as causing a 24 25 disease called silicosis.

1 And is it a hazard through exposure by 0. 2 breathing? 3 Α. Correct. Carried on the skin, 4 exposure by breathing, yes. 5 And let's take a look at -- is there Ο. anything in the silica standard from OSHA that relates 6 7 to clothing, if you recall? We'll pull it up. 8 Α. Oh, not in the standard itself. You 9 cover personal protective equipment as you develop 10 what's called an exposure control program for silica, 11 so your personal protective equipment, including 12 clothing or uniforms, would be covered in your ECP. 13 Let's take a look at Exhibit 9C. 0. 14 Α. If you refer to Section F, Line 2, 15 Item I. Okay. So methods of compliance, you go down 16 to Item I, it says that the employer shall establish 17 and implement a written exposure control plan that 18 contains at least the following items. It's within 19 those sections where it mentions engineering controls, work practices, RPE to limit the employee to exposure. 20 21 It's within that section of your exposure control plan 22 that you would make reference to PPE, including work 23 uniforms and change-out cycles and what have you. (McCLELLAN DEPOSITION EXHIBIT 9C DISCUSSED) 24 25 And does this OSHA standard that we've Ο.

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1 marked as Exhibit 9C, which you cited in your report, 2 directly support in any way your position that the 3 work uniforms worn by the plaintiffs had to be kept 4 captive to the Louisville plant? 5 Within the exposure control plan Α. Yes. section of that, it would indicate that you need б 7 captive uniforms as part of that ECP. 8 0. Well, where is that stated in the standard that we have marked as Exhibit 9C? 9 10 The standard is called a Α. 11 performance-based standard. All OSHA standards are 12 considered performance based. They don't tell you 13 exactly how to accomplish these things, they just tell 14 you that you need to accomplish defining your 15 engineering controls and work practices, and it's 16 within work practices that you would talk about what 17 you're going to do in terms of PPE change-out. 18 But the other standards that we Ο. 19 reviewed, the asbestos and lead in particular, had 20 specific sections on protective clothing that we --21 that we reviewed. 22 Yeah. Α. 23 Does the silica standard that we've 0. 24 marked as Exhibit 9C have any section on protective 25 clothing?

1	Α.	Yes. Just not specific details.
2	Q.	Where is this section that you're
3	referring to?	Is it anything other than Section F,
4	Subpart 2, litt	le I?
5	Α.	Correct.
6	Q.	That's it?
7	Α.	Yes. That's it.
8	Q.	Okay. So all right. And other
9	than Section F,	Subpart 2, little I, is there any
10	other part of t	he silica standard marked as Exhibit 9C
11	that you rely o	n to support your position that the
12	work uniforms w	orn by the plaintiffs had to be kept
13	captive to the 2	Louisville plant?
14	Α.	No.
15	Q.	And is it your position that the
16	plaintiffs had	exposure to silica as part of their
17	job?	
18	Α.	It was in the personal protective
19	equipment grid,	so, yes.
20	Q.	And do you know how frequent it was
21	that the plaint	iffs had exposure to silica in their
22	jobs?	
23	Α.	Yes. Based on the hazard risk ratings
24	of low, medium a	and high.
25	Q.	So that, again, goes to your

1	interpretation of low, medium, high as relating to
2	frequency contact as opposed to the exposure risk?
3	A. Correct.
4	Q. And do you know if all the plaintiffs
5	had exposure to silica
6	A. I do not know.
7	Q as part of their job? And were
8	those instances that you saw in the PPE grids with
9	regard to exposure to silica, was there anything
10	additional in terms of body protection that was
11	required on there, if you remember?
12	A. Beyond the PPE grids, no.
13	Q. No?
14	A. I don't recall.
15	Q. No, was any and we'll as I
16	addressed with plaintiffs' counsel, we'll address the
17	grids another time, but I'm just asking you based
18	on if you recall if the in connection with the
19	silica exposure references that you're saying existed
20	on some of these PPE grids that was there anything
21	in the body section that was to be added for
22	protection for the employee?
23	A. No. Not that I recall. I can look it
24	up if you'd like.
25	Q. We'll deal with the grids, as we said,

1	another time. And typically when is it that there's
2	silica exposure? What creates it?
3	A. Silicon can be added as an additive to
4	a chemical process, it can be used as an abrasive. It
5	has a number of uses, it just depends on what the
6	chemical reaction calls for.
7	Q. And do you know if silica has been
8	is indeed an additive to any of the production
9	processes that are run by the plaintiffs?
10	A. It's possible. I can look it up if
11	you'd like on the PPE grids.
12	Q. I'd like to show you what we marked as
13	Exhibit 6. Before we do that, before we pull it up,
14	do you rely on any Kentucky law in support of your
15	position that the plaintiffs' work uniforms
16	constituted PPE and had to remain captive to the
17	Louisville plant?
18	A. In terms of captive uniforms and
19	Kentucky law, I don't believe I made a statement based
20	on that association.
21	Q. And is there anything in Kentucky law
22	that you know of that supports the position that the
23	work uniforms are PPE?
24	A. Not that I'm aware of, but I'm not a
25	legal expert or a labor law expert. I only know from

1	the documents that I was provided.
2	Q. I'll show you what we've marked as
3	Exhibit 6.
4	MODERATOR: Hold on.
5	MR. KRESGE: If you could just blow it
6	up just a little bit, please. So and scroll up a
7	little bit so we see the title. No, up. The other
8	way. There we go.
9	Q. So I'll represent to you that
10	Exhibit 6, and we'll scroll through it, are three
11	separate Kentucky labor laws that you cited in your
12	report.
13	A. Okay.
14	(McCLELLAN DEPOSITION EXHIBIT 6 DISCUSSED)
15	Q. And so I want to go through them and
16	make sure I understand why it is I have your report
17	but I want to make sure I understand any connection to
18	PPE and/or I think you've already testified about
19	captive, but let's take a look at each statute. So
20	the first one that you cited was on minimum wages and
21	that's Section Kentucky law Chapter 337.285. What
22	in this Kentucky law supports a position what, if
23	anything, supports a position that the plaintiffs'
24	work uniforms are PPE?
25	A. It doesn't.

1	Q.	Okay. And what, if anything, in this
2	Kentucky law, wh	nich is 337.285, supports your position
3	that the plaint:	iffs' work uniforms were had to be
4	retained as capt	tive to the Louisville plant?
5	Α.	It doesn't.
6	Q.	Now let's take a look at a couple
7	pages later to t	the section titled Lunch Period
8	Requirements, 33	37.355.
9	Α.	Can you
10	Q.	We're going to get there.
11	Α.	Okay.
12	Q.	Scroll down. I apologize.
13	Α.	Oh, okay.
14		MODERATOR: Trying to figure out where
15	you want to go.	
16		MR. KRESGE: To the lunch period
17	requirements, ke	eep going down. 337.355.
18	Α.	It's the next document. It's not this
19	document.	
20	Q.	Right.
21	Α.	It's the next one.
22	Q.	Next page.
23	Α.	Yeah.
24	Q.	There we go. Let's blow that up,
25	please. All rig	ght. Now, you also cited Kentucky

1 law 337.355 in your report. What, if anything, does 2 Kentucky law 337.355 on lunch period requirements have 3 to do with your opinion that the plaintiffs' work uniforms are PPE? 4 5 Α. They're required to use their lunch period to don on or -- and doff the PPE. 6 7 What PPE? 0. 8 Α. The work uniforms. 9 So your testimony that it's your Ο. 10 understanding that the plaintiffs have to change into 11 work uniforms at lunch? 12 If they're leaving the site they do. Α. 13 And do you know if the plaintiffs 0. 14 leave the site for -- left the site? 15 I think it's fair to conclude that Α. 16 workers do leave the site for their lunch break. 17 Well, do you have any factual basis 0. 18 for that conclusion? 19 No, I do not. Α. 20 Do you know as a matter of fact if 0. each of the buildings that -- the production buildings 21 22 that exist at the Louisville plant actually have a 23 separate lunchroom for employees? 24 Α. I did not see any evidence that 25 indicated that workers were captive to the site for

1 their lunch. 2 I'm not saying that they are, I'm just 0. 3 asking you, do you know if they had lunchrooms provided to them? 4 5 Α. I -- yes, I do believe they did have lunchrooms provided for. 6 7 0. And so what's your -- what's the 8 factual basis for your statement that the employees changed into and out of their work uniforms at lunch? 9 10 For the reasons that we just stated, Α. 11 that there are instances where the worker could leave 12 the site for lunch and would need to leave what is 13 captive on site. 14 And so for those instances that you're 0. 15 referring to, let's assume they exist, in which the 16 employees actually leave the site to go get lunch 17 somewhere, do you know as a matter of fact if indeed 18 those employees change out of their work clothes 19 before they leave the site and change back into the 20 work clothes when they come back with their lunch or 21 after lunch? 22 They would have to. They would have Α. 23 to change out of their work uniforms. 24 Ο. Why? 25 If they're wearing -- if they're Α.

1	wearing if t	hey came in in street clothes and they
2	leave in street	clothes because the uniforms are
3	captive	
4	Q.	Well, you
5	Α.	then that
6	Q.	concluded that they're captive.
7	The company has	never said that other than for
8	inventory contr	ol reasons that they don't want people
9	leaving at the	end of their work shift with their work
10	clothes.	
11	Α.	Correct. So that's a fair estimation
12	of the situation	n where you're expected to leave it on
13	site, you're	you're not allowed to leave in your
14	uniform. So if	you're going to leave for lunch,
15	you're going to	have to leave that uniform behind.
16	Q.	Well, where is that written?
17	Α.	I don't know where it's written but
18	from	
19	Q.	And
20	Α.	from inference.
21	Q.	I just let's cut through it to
22	make it quick,	then we can move on. Is there
23	anything any	thing factual that you have based on
24	the record that	supports your thinking that when a
25	plaintiff would	leave the site for lunch or to get

1 lunch that he or she changed out of their work clothes
2 and then upon return changed back into their work
3 clothes?

4 The workers wear a supplied Α. Yes. 5 uniform. The uniform is supposed to stay on site. Ιf б you leave the site, you're going to have to change out 7 of that work uniform for whatever circumstances. 8 Those are all facts in other documents and logically 9 it leads you to the conclusion that if you're going to 10 leave for lunch you're going to have to change out of 11 that work uniform, you're going to have to spend time doing so. 12

13 I'm just asking for facts. Ο. I'm not 14 asking for whatever your logic might be. I'm asking 15 for facts. What facts do you have in the record that 16 this actually occurs, that this process of employees 17 going out to lunch and changing in and out of their 18 work uniforms as they leave to go to lunch and then 19 changing back into their work uniforms as they come 20 back to lunch? What factual basis do you have that 21 that occurs?

A. The first fact is that PPE or work uniforms are mandatory and the second fact is that the PPE or work uniforms are supposed to be left on site. Those are my facts.

1	Q. And that's it?
2	A. Yes.
3	Q. All right. So other than your theory
4	that employees leave for lunch and change in and out
5	of work clothes to leave for lunch and to come back
6	from lunch, is there any other relevance of this
7	Section 337.355 to your conclusions in your report?
8	A. No.
9	Q. Do you have any idea how long the
10	plaintiffs have been provided through the years for
11	lunch, their time?
12	A. No, I do not.
13	Q. All right. Let's move to the next
14	page, please. You also cited Kentucky law 337.365 as
15	support for your opinion. How is this Kentucky law
16	337.365 relevant to your opinion that you've expressed
17	in your report?
18	A. Donning and doffing required PPE
19	shouldn't take up any of their rest break.
20	Q. And what and is it your testimony
21	that indeed putting on and I know you referred to
22	the work uniform as PPE, but putting on the work
23	uniform occurs during rest breaks?
24	A. Could you repeat that.
25	Q. Yes. Is there any factual basis or

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1	any conclusion	to be reached that the plaintiffs have
2	changed into or	out of their work uniforms during rest
3	periods or rest	
4	Α.	No.
5	Q.	breaks?
6	Α.	No.
7	Q.	Again, does this Kentucky law,
8	373.365, have a	nything to do with your opinions
9	expressed in yo	our report?
10	Α.	No.
11	Q.	You've also cited a document put out
12	by OSHA called	controlling electrical hazards?
13	Α.	Mm-hmm.
14	Q.	Do you remember that?
15	Α.	Yes.
16	Q.	And why is it that you rely on that
17	document for yo	our opinions? Do you recall we'll
18	pull it up, I j	ust wanted to ask if you recall
19	anything.	
20	Α.	It has references to personal
21	protective equi	pment.
22	Q.	Okay. Let's pull it up as Exhibit 2,
23	please.	
24		MR. KRESGE: No, it's Exhibit 2.
25		MODERATOR: I'm heading there.

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1 Oh, I'm sorry. MR. KRESGE: I'm 2 sorry. Okay. This is it. 3 Is that it? MODERATOR: Okay. 4 (McCLELLAN DEPOSITION EXHIBIT 2 DISCUSSED) 5 Q. Is this the document that you cited in 6 your report? 7 Α. It looks like it. 8 And I'll represent to you that 0. 9 Exhibit 2 that we have marked is just a small part of 10 it, which is specifically going to the page that you 11 cited in your report. So we have, you know, table of 12 contents and then we go straight to Page 18. So if we 13 could go to Page 18 of the report, which appears in 14 the bottom left-hand corner, the page number. There 15 we go. If we could blow up particularly the top part. 16 Does this top part of Page 18, which has the heading 17 what protection does personal equipment offer, is that 18 the section that you are relying on when citing 19 controlling electrical hazards? 20 Α. Mm-hmm. Yes. 21 Okay. Now, the reference here to 0. 22 personal equipment states that, quote, employees who 23 work directly with electricity should use the personal 24 protective equipment required for the jobs they 25 perform, period. This equipment may include rubber

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1	insulating glove	s, hoods, sleeves, matting, blankets,
2	line hose and in	dustrial protective helmets designed
3	to reduce electr	ical shock hazard, period, closed
4	quote.	
5	:	Now, in this reference you've cited a
6	reference to the	word sleeves; right?
7	Α.	Mm-hmm. Right.
8	Q.	Correct. Okay. Now, are the sleeves,
9	the long sleeves	that plaintiffs wear as part of their
10	work uniform, th	ey have worn as part of their work
11	uniform at least	under the Dow era, are they insulated
12	sleeves?	
13	Α.	Yes. In this reference it means
14	insulated sleeve	s.
15	Q.	Right. And so are they and this is
16	a reference to r	ubber insulation; right?
17	Α.	Correct.
18	Q.	All right. So are the work uniform
19	shirts that are	worn by the plaintiffs rubber
20	insulating shirt	s?
21	Α.	No.
22	Q.	And so what is the relevance of the
23	controlling elec	trical hazards document that refers to
24	sleeves that are	rubber insulated?
25	Α.	Probably in this case less. They're

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1	just inference that sleeves are important and there is
2	a dispute whether moving from short sleeves to long
3	sleeves was warranted in the evolution of the program.
4	Q. You would do you agree that this
5	particular section of controlling electrical hazards
6	that we have here up on Page 18 does not directly
7	apply to the plaintiffs' work uniforms?
8	A. Yes.
9	Q. Okay. Why don't you pull up
10	Exhibit 8, please. If you could blow that up a little
11	bit. Thank you. Now, you also cited this OSHA
12	regulation in your report, and my question is how does
13	this OSHA section regulation 1910.333 that we've
14	marked as Exhibit 8 apply to your opinions in your
15	report?
16	A. I was commenting on the evolution of
17	the program for health and safety of Rohm and Haas in
18	that there was a lack of documentation and proof of
19	consistent implementation of PPE evident in the
20	documents, and that included even long-sleeved
21	uniforms that were cotton that would provide some
22	minimization of damage in the event of electrical
23	exposure.
24	(McCLELLAN DEPOSITION EXHIBIT 8 DISCUSSED)
25	Q. So you're saying that Section 1910.333

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1 applies to the Rohm and Haas period of time, the 2002 2 to 2009? 3 Α. Mm-hmm. Correct. 4 And not at all to the Dow period of Q. 5 2009 to the present? 6 Oh, it applies to both. Α. 7 All right. Let's take a look at the Ο. 8 application to the Rohm and Haas period. You said something about lack of consistent implementation. 9 10 What are you referring to there? Are you referring to 11 the use of short sleeves? 12 The documentation indicated that there Α. 13 was dispute over what should be included for 14 fire-resistant clothing, which I indicated that the 15 program recognized that they had hazards uncontrolled 16 and that they needed to address personal protective 17 equipment further. 18 What does it have to do with the 0. 19 plaintiffs? 20 Α. It indicates that there's a struggle 21 and that they're -- there was an evolution of the 22 program. 23 But I think you've testified, but let 0. 24 me make sure I'm clear. Were the plaintiffs at any 25 point in time ever provided a fire-resistant or

1	flame-resistant work uniforms?	
2	A. I'm having trouble hearing you when	
3	you speak down, it's muffled.	
4	Q. Oh, I'm sorry. Were the plaintiffs	at
5	any point in time ever provided flame-resistant or	
6	flame-retardant work uniforms?	
7	A. Yes.	
8	Q. When?	
9	A. They began providing them I'd hav	е
10	to look up the dates but, again, that was evolution	of
11	their program as recognizing that they needed to	
12	provide fire-rated clothing.	
13	Q. So all right so that's part of	
14	the basis for your opinion in this case	
15	A. Mm-hmm.	
16	Q correct?	
17	A. Correct. Correct.	
18	Q. Now, if we take a look at 1910.333,	
19	that we're looking at here as Exhibit 8, there's a l	ot
20	of reference here to working with energized parts an	d
21	exposed energized parts and exposed live parts an	d
22	energized equipment. You see these references	
23	throughout this particular regulation. Did the	
24	plaintiffs work with energized parts or on energized	
25	equipment?	

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1	А. Т	hey had exposure to electrical
2	hazards, which in	cluded arc hazards indicated in the
3	PPE grids, so, ye	s.
4	Q. A	nd did they actually other than
5	throwing a circui	t breaker, did the plaintiffs
б	actually do work	on energized equipment?
7	A. I	hey had exposure to electrical
8	hazards. The spe	cific work is not indicated.
9	Q. S	o let me get back to the question.
10	Did the plaintiff	s do you have any facts to show
11	that the plaintif	fs at any time actually worked on
12	energized equipme	ent?
13	А. Ү	es. They had exposure to arcs, so
14	one would be i	f you read the task, they because
15	they were in prox	imity or were working on a task that
16	could produce arc	or flash, the PPE grids indicate
17	that they were wo	rking on something that produced arc
18	or exposure.	
19	Q. A	nd isn't that just throwing a circuit
20	breaker	
21	A. I	don't
22	Q. –	- that could create the arc flash?
23	A. I	don't know.
24	Q. I	s that true?
25	A. I	don't know.

1	Q.	Could throwing a circuit breaker
2	create an arc f	lash?
3	Α.	Yes.
4	Q.	Okay. So if you're throwing a circuit
5	breaker, are yo	u working on energized equipment?
6	Α.	I don't know. You might be locking
7	something out it	n order to work on a process.
8	Q.	Did any of the plaintiffs actually do
9	electrical repa	ir work?
10	Α.	Based on the task analysis from the
11	PPE grids, no.	
12	Q.	Did any of the plaintiffs ever do any
13	electrical insta	allation work?
14	Α.	Not that I'm aware of.
15	Q.	Did any of the plaintiffs ever work
16	with overhead 1	ines?
17	Α.	Not that I'm aware of.
18	Q.	Did any of the plaintiffs at any time
19	ever work with	exposed live wires or parts?
20	Α.	Not that I'm aware of.
21	Q.	Is there anything in what we've marked
22	as Exhibit 8, w	hich is OSHA Section 1910.333, that
23	supports your of	pinion that the work uniforms worn by
24	the plaintiffs	had to remain captive to the Louisville
25	plant?	

1	A. No.
2	Q. Is there anything in OSHA
3	Section 1910.333 that supports your opinion that the
4	plaintiffs' work uniform were necessary PPE?
5	A. Could you repeat that question.
6	Q. Yes. Is there anything in
7	Section 1910.333 that supports your opinion that the
8	work uniforms worn by the plaintiffs were PPE?
9	A. In Section C or Paragraph C, Line 2,
10	it indicates such persons shall be capable of working
11	safely. My answer is no, there's nothing in there.
12	Q. Okay. Do you know we can take that
13	down. Do you know anything about how the plaintiffs'
14	work uniforms were laundered or handled during the
15	Rohm and Haas period of 2002 to 2009?
16	A. No, I do not.
17	Q. And do you know anything about how the
18	plaintiffs' work uniforms were laundered or handled at
19	any point during the Dow period of 2009 to the
20	present?
21	A. Cintas is mentioned in some
22	documentation.
23	Q. As of the time that you prepared the
24	report, were you aware of any of anything as to how
25	the plaintiffs' work uniforms were laundered or

1	
1	handled?
2	A. I'm not sure. I'd have to look back
3	through.
4	Q. During the sorry. During the Dow
5	period. Go ahead.
6	A. Yeah, I'm not sure. I'd have to look
7	back through the documents if there was indication of
8	the process or the vendor.
9	Q. Show you what we'll mark as
10	Exhibit 11 what we've marked as Exhibit 11. Blow
11	it up a little bit, please. Okay. I'll represent to
12	you that Exhibit 11, and we can take a look through
13	it, too, as well, represents an e-mail of information
14	as well as some photographs that were requested by
15	Dr. Mansdorf in preparation of his report. So what I
16	want to do is take a look at the e-mail and take a
17	look at the photographs. I know you've been provided
18	this particular exhibit at least before the deposition
19	started today. Let me ask you that question, have you
20	seen this before we started the deposition today?
21	A. Yes.
22	(McCLELLAN DEPOSITION EXHIBIT 11 DISCUSSED)
23	Q. Okay. All right. So the first
24	statement in the first paragraph of that that I
25	would like you to look at is the third sentence of

1	this e-mail, which states, quote, the Louisville
2	production employees can take their cold weather
3	clothing home to launder and are responsible for
4	maintaining it, closed quote. Did you know that fact
5	at all as of the time that you prepared your report?
6	MR. CONNOR: Object to you assuming
7	that's a fact. She can you can ask her about what
8	that says, but
9	MR. KRESGE: Okay.
10	MR. CONNOR: whether it's a fact or
11	not remains to be seen.
12	MR. KRESGE: All right. Fair enough.
13	Q. Do you know anything about how the
14	plaintiffs' cold weather let me ask it this way
15	first. Do you know anything as to any cold weather
16	clothing that was ever provided to the plaintiffs?
17	A. I had no awareness of cold weather
18	clothing.
19	Q. Okay. All right. And so assuming
20	that cold weather clothing was provided to the
21	plaintiffs during cold weather, do you have any
22	knowledge as to how cold weather clothing was handled?
23	A. Can you define cold weather clothing.
24	Q. It would be it would be certain
25	types of things like jackets, that would be one,

1 warmer clothes than a typical uniform. 2 Do you have any photographs of what Α. 3 this looks like --4 Q. No. 5 Α. -- because that would get -- okay. Ι 6 have no --7 Well --0. 8 Α. -- inclination. 9 -- regardless of whether I have a 0. 10 photograph or not, do you have any knowledge as to 11 anything about how cold weather clothing was handled, 12 assuming it existed? 13 At this particular plant --Α. 14 Ο. Yes. 15 -- or in general? Α. No. 16 0. At this plant. 17 Α. At this plant, no, I do not. 18 Now, under your theory of 0. contamination risk, if plaintiffs wore cold weather 19 20 clothing during the cold weather, should that cold 21 weather clothing also be kept captive at the 22 Louisville plant? 23 It would have a reduced probability of Α. 24 contamination based on the fact that it's used 25 outdoors with natural dilution ventilation, so it is

1 less likely to need captivity as a result. That's why 2 T asked --3 All right. Ο. 4 -- how do you define cold weather Α. 5 clothing. If you mean what they would wear outdoors, it's going to have far less probability of 6 7 contamination because it's only worn outdoors. 8 0. All right. So I quess we're without 9 knowledge of exactly what the cold weather clothing is 10 or where it's worn. Is what you're saying is that 11 your opinion would vary? 12 Α. Correct. 13 Okay. Now, if we go down this e-mail Ο. 14 describes the -- how, at least with regard to Cintas, 15 the uniforms are handled. Do you see that in 1, 2, 3 16 and 4?17 Α. Correct. 18 Okay. And do you have any knowledge 0. 19 that is different as to how the work uniforms are 20 handled other than what appears in Nos. 1, 2, 3 and 4 21 of this exhibit? 22 Α. No, I do not. 23 And then the next sentence below 1, 2, 0. 24 3 and 4 states that, quote, there is no special PPE 25 for handling the uniforms, closed quote. Do you have

1	any different knowledge that's been provided to you or
2	facts that provide you that are contrary to that
3	statement?
4	A. No, I do not.
5	Q. And in your report you refer to the
6	work uniforms as having a, quote, high health hazard
7	contamination, closed quote.
8	A. Mm-hmm.
9	Q. Do you recall that?
10	A. Correct.
11	Q. And consistent with that
12	characterization of the work uniform as having a high
13	health hazard contamination, would a natural corollary
14	to that view of the work uniforms be that there would
15	be special laundering instructions for Cintas to
16	handle high health hazard contaminated clothing?
17	A. Cintas will make assumptions that
18	there should be special handling. Do you have any
19	instructions from Cintas indicating what what
20	you're aware of in their handling? It's been my
21	experience that they do handle it with with
22	precautions because they assume it is contaminated.
23	Q. And this statement is saying there is
24	no special arrangements for handling the uniforms.
25	A. Well, even in your letter here, they

1	wear gloves to handle it, so there must be some
2	concern about the contamination for them to don gloves
3	in order to handle the soiled uniforms.
4	Q. Well, if you'll look at this e-mail,
5	it states that Dow requires anybody on site to wear
6	gloves, so it's not a something specific to Cintas
7	for them as a laundering instruction.
8	A. Mm-hmm. And is the person who wrote
9	this e-mail qualified to make that statement?
10	Q. Well, I'm not asking you to she's
11	the she's at the Louisville site and she's the
12	inventory coordinator, so just put that aside in terms
13	of that. Assuming that fact to be true, that there is
14	no special handling for the uniform, is that
15	inconsistent with your characterization of the work
16	uniforms as, quote, high health hazard contamination,
17	closed quote?
18	A. Yes. The fact that they require
19	people to wear gloves, they're assuming that the
20	hazard is everywhere, they're assuming that it's on
21	the uniforms, and that they require a level of skin
22	protection by the use of gloves so, yes, it is
23	consistent.
24	Q. Well, how do you what do you know

25 as to the reasons why Dow requires gloves at the

1	Louisville plant to be worn?
2	A. Because I've worked directly for
3	chemical processing plants and I've had many clients
4	that are chemical processing plants and you assume
5	that there's a level of hazard in those environments.
6	Q. I'm not asking
7	A. Special
8	Q you to assume anything, I'm asking
9	you what factual basis do you have for why Dow
10	Chemical has a glove requirement at the Louisville
11	plant? Do you have any factual basis for that?
12	A. Yes, I do.
13	Q. I'm not interested in your
14	A. Okay.
15	Q experience with other companies.
16	I'm interested in Louisville.
17	A. Okay. Louisville, according to the
18	personal protective equipment grids, they are in
19	contact with mutagens, teratogens, nephrotoxic
20	chemicals, hepatotoxics chemicals, dermal sensitizers,
21	and when you look at any of those alone or in
22	combination, you create the expectation for a hazard
23	that warrants at least gloves in handling the
24	materials, especially materials that are potentially
25	contaminated, such as work uniforms that are captive

1 to the site. 2 All right. That's your view of what Ο. 3 you would do. My question and it keeps coming back 4 to, do you have any factual basis for concluding anything about why Dow Chemical requires gloves to be 5 worn at the Louisville plant? 6 7 Because it's in their personal Α. 8 protective equipment grids that you must wear gloves 9 as a line of skin protection, so, yeah. 10 And could that be simply to prevent Ο. 11 against cuts? 12 It could be. Α. Okay. Now, do you know if at any 13 0. 14 point in time during the Rohm and Haas period of 2002 15 to 2009 if Rohm and Haas ever required the wearing of 16 gloves by anyone at the Louisville plant --17 Α. Hard to --18 -- for normal work? Ο. 19 I could look back through the legible Α. 20 portion of the grids. Would you like for me to do 21 that right now? 22 No. We'll get to that another time, 0. 23 but I just want to ask if you are aware just generally 24 if Rohm and Haas had a requirement of glove wearing 25 for everyone who came onto the Louisville plant, but

1	do you know do you know one way or the other?
2	A. No. I would have to look through the
3	grids, but typically when you're dealing with
4	chemicals, most of which have a dermal notation for
5	exposure, skin is a route of exposure, you're going to
6	require the use of gloves for the most tasks that
7	could be included on a PPE grid.
8	Q. And when the plaintiffs are working at
9	their in their control rooms, do you know if they
10	wear gloves?
11	A. If there's potential for exposure such
12	as in the photograph that you showed where they're
13	obviously working hard at controlling the exposure in
14	that control room, yes, you would wear gloves because
15	it's possible that you have these various chemicals
16	deposited on surfaces that you're now touching in
17	order to operate the controls.
18	Q. So if glove wearing was required for
19	your reason, then that would be plaintiffs would wear
20	inside the control room wear the gloves inside the
21	control room; correct?
22	A. They it's possible, yes.
23	Q. That would be consistent with your
24	approach to glove wearing?
25	A. Yes, it would. If I knew I had a

1	hazard potential in any room I would require the use
2	of gloves in order to protect the worker from the
3	immediate danger and from the danger of carrying it
4	home or implement a very rigorous hand washing policy
5	or both. Those are typical.
6	Q. Now, if if there was a contaminant
7	risk with regard to the plaintiff's work uniforms as
8	you opine, would there not be consistent with that
9	opinion the special approach for the storage of the
10	worn uniforms?
11	A. Was that a question?
12	Q. Yeah.
13	A. Could you repeat it, please.
14	Q. Sure. So in your opinion, because you
15	opined about the contaminant risk associated with the
16	plaintiffs' work uniforms
17	A. Mm-hmm.
18	Q and so consistent with your opinion
19	should there not be a special handling procedure for
20	handling the worn uniforms; in other words, they
21	should be placed in a particular spot that's
22	contained?
23	A. Yes, and they do. They are putting it
24	they're isolating them into dirty bins in lockers,
25	they're putting them in a specific place that can be

1 contained, they are handling them with gloves and once 2 they've been contained and transported, then Cintas executes their protocols for protecting their workers 3 4 and making sure that these are decontaminated. Once 5 they've been decontaminated, then they come back and are sorted and returned to the site. 6 7 0. And would those storage bins have to 8 be in order to -- consistent with your contaminant 9 risk, those storage bins be contained, enclosed, 10 enclosed? 11 Α. Yeah, they're probably contained. 12 There's probably -- isolated in a corner of the room. 13 I have no idea, but that's typical that you'd create a 14 storage area for them so that they're not laying here, 15 there and everywhere but are in one place. 16 And then -- so consistent with your 0. 17 contaminant risk theory, there should be -- Cintas 18 should have some specialized decontamination 19 procedures with regard to the plaintiffs' work 20 uniforms? 21 Not necessarily special but something Α. 22 that's characteristic to decontaminating or thoroughly 23 laundering what could be in the uniforms. 24 Ο. Well, those are two different 25 You're saying decontaminated or statements here.

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1	thoroughly wash	ing, so let's just take it at
2	Α.	Well
3	Q.	All right. You're saying it's one and
4	the same?	
5	Α.	It could be one and the same.
6	Q.	So the from your perspective
7	decontamination	could be nothing more than just a
8	thorough launde	ring, a good cleaning?
9	Α.	Correct. It may depend more on what
10	you do with the	wastewater from that process.
11	Q.	Oh, I see. So then if you're just
12	giving it a goo	d cleaning, that's not good enough,
13	decontamination	would require some special handling of
14	the wastewater?	
15	Α.	Probably, yes, depending on it as
16	they indicated,	if they have somebody who's
17	excessively soi	led, it gets handled by Dow's emergency
18	response team.	
19	Q.	Right.
20	Α.	Right.
21	Q.	With special procedures for when
22	clothes	
23	Α.	Correct.
24	Q.	are contaminated; correct?
25	Α.	Correct. Correct.

1	Q. And those
2	A. But
3	Q. Those special procedures for
4	contaminated clothes are to isolate and bag those
5	clothes and actually dispose of the clothes; correct?
6	A. Sure. Correct. What you have to
7	remember is the dose makes the poison, okay, and for
8	highly toxic materials, a very small amount goes a
9	long way. An airborne exposure to silica, the amount
10	that's on the top of a pinhead actually exceeds the
11	OSHA limit, so very little can be on a surface that's
12	contamination and creates the concern for becoming
13	airborne or on the contaminating the skin.
14	Q. So under your theory because you've
15	already testified about silica, under your theory the
16	plaintiffs' work uniforms should be disposed of;
17	correct?
18	A. No. They could be contained and
19	and laundered.
20	Q. All right. But laundering and
21	cleaning is what's done to any dirty clothes, whether
22	they're mine or anybody else's; correct?
23	A. Correct, but Cintas has a process by
24	which the launderer is safeguarded and the uniforms
25	come back clean, ready to be reused.

1 And in your experience laundry vendors 0. 2 like Cintas would have varying, different levels of 3 handling clothes depending upon the contamination 4 risk; correct? 5 Α. Not -- I don't know how widely they 6 There might be some variance, yes. vary. 7 Okay. So if something has a real Ο. 8 contaminant risk, there would be more special handling 9 procedures that Cintas would implement on its own? 10 Or they would dispose of it, yes. Α. 11 Correct? Okay. Is that correct? Ο. 12 Α. Correct. 13 And what is it that you know, if 0. 14 anything, about how Cintas has handled the plaintiffs' 15 work uniforms at any point in time since Cintas took 16 over, which I believe in the record is somewhere 17 around 2012? 18 I don't have any specific details for Α. 19 how they deal with Rohm and Haas or Dow Chemical. 20 Ο. And just so I'm clear and I apologize 21 if I asked, but do you have any knowledge about -- you 22 know, so let's assume Cintas came in around 2012, 23 which is what I understand it to be. So let's take a 24 look at the period of 2002 to 2012, which encompasses 25 seven years of Rohm and Haas and then three years of

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1	1 Dow. During that time period do you have any	Y
2	2 knowledge about how any of the clothing laund	dering
3	3 vendors handled the plaintiffs' work uniforms	5?
4	4 A. No.	
5	5 Q. Would you agree that if Cinta	as did
6	6 nothing special with regard to the plaintiffs	s' work
7	7 uniforms other than pick them up, clean them	and bring
8	⁸ them back, that that would be inconsistent w	ith your
9	9 contaminant risk theory?	
10	0 A. Did you say inconsistent?	
11	1 Q. Yes.	
12	2 A. No. I don't believe it's	
13	3 inconsistent.	
14	4 Q. So under your contaminant the	eory while
15	5 these clothes have to remain captive on site	to
16	6 prevent any kind of contamination risk to the	9
17	7 plaintiffs' homes' environments for the Cinta	as
18	8 employees and you know, they could have no	o special
19	⁹ handling requirements and they would be fine?	? Is that
20	0 your is that what	
21	A. That	
22	Q you're saying?	
23	A. That is not what I'm saying.	
24	Q. So then my question is more of	of a
25	5 hypothetical, I understand that you don't kno	ow the

1	facts, but if you were to assume that Cintas does
2	nothing special with the plaintiffs' work uniforms
3	other than they come up, clean them and bring them
4	back and they have no special handling instructions,
5	they just launder them, just like they would launder a
6	nonchemical plant set of uniforms, would that be
7	consistent with your contaminant risk theory?
8	A. I have no way of answering that
9	question.
10	Q. Why?
11	A. There's too many hypothetical
12	assumptions. Following your question was difficult.
13	Q. Okay. Well, then, let's break it
14	down. Don't companies like Cintas provide uniform
15	services for facilities that don't have chemical plant
16	type hazards?
17	A. Yes.
18	Q. Okay. And doesn't don't companies
19	like Cintas clean clothes for which there are no
20	contaminant risks?
21	A. That's possible, yes.
22	Q. Okay. And so my question is, if
23	Cintas handled the plaintiffs' work uniforms just no
24	differently than they handled the uniforms where there
25	are no clearly no contaminant risks, they're not

1	chemical plants, they're not plant areas or workplaces
2	where there's any contaminant risk, would that not be
3	consistent with your theory?
4	A. No.
5	Q. Why not?
6	A. Cintas' typical approach with
7	everybody's clothing, whatever's coming in, they
8	assume exposure potential. They're going to assume
9	that there's a certain level of contamination.
10	They're going to wear gloves, for instance, so there
11	is a level of protection that they're going to provide
12	their workers that's appropriate for the assumption of
13	contamination. So it's not inconsistent (sic).
14	Q. All right. But you're answering my
15	hypothetical with more assumptions on your part;
16	right? You don't know exactly what Cintas does with
17	the plaintiffs' work uniforms, do you?
18	A. No.
19	Q. All right.
20	A. No, I don't know exactly what they do.
21	Q. Okay. Now, in the last in the next
22	paragraph it's written that if an quote, if an
23	employee is involved in a release and their uniforms
24	are soiled, they would be handled by Dow's emergency
25	response team, period. We would order them new

1	uniforms so Cintas and the employee would never handle	2
2	them, period, closed quote.	
3	So in the context of contamination	
4	from a release where the uniform actually gets the	
5	chemical on it, Dow's approach Dow's approach,	
6	according to this e-mail, is to dispose of the	
7	uniforms and not have them cleaned; correct?	
8	A. It appears as such, yes. You're	
9	assuming that.	
10	Q. And do you have	
11	A. It doesn't	
12	Q. And	
13	A. It doesn't mention disposal in this	
14	letter.	
15	Q. I see. Okay. So we have to look at	
16	the emergency response process to understand what	
17	happens?	
18	A. Correct.	
19	Q. Now, the next paragraph states that	
20	when the new hires who originally come from a	
21	contractor who supplies production employees wear	
22	their street clothes until the uniforms come in a few	
23	quote, a few weeks later, closed quote; do you see	
24	that?	
25	A. Correct.	

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1 Is that practice of new hires to the Ο. 2 production bargaining unit for the Dow Chemical folks, 3 is that inconsistent with your contaminant risk 4 theory? 5 Yes, it is. Α. 6 Okay. And the statement here also Ο. 7 states that Petroleum Services is an on-site 8 contractor who supplies production employees to the 9 Louisville plant. So do you know anything about the 10 process of becoming a Dow production operator at 11 Louisville? 12 And there's also no indication Α. No. 13 there that Petroleum Services does not provide their 14 contractors uniforms. 15 Okay. And so do you know one way or Ο. 16 the other how the Petroleum Services employees are 17 dressed or how their clothes are handled? 18 No, I do not. Α. 19 Let me direct your attention to the 0. 20 next page, then. Now, this is a photograph of a 21 change room with -- according to the e-mail is a 22 photograph of the worn work clothes flowing out of a 23 locker; do you see that? 24 Α. Yes. That's a compliance issue. 25 So is what we see here in 0. All right.

1	the second page of Exhibit 11 inconsistent with your
2	contaminant risk theory?
3	A. Yes.
4	MR. CONNOR: Ray, I'm going to go
5	object to your use of the word inconsistent. I don't
6	know that that's the right word for you I think
7	you're you're asking whether it's in violation of
8	it, not inconsistent with it.
9	MR. KRESGE: No, I think it's correct.
10	I understand and respect your you, Glen, but I
11	think I'm asking it the way I'd like to ask it.
12	Q. All right. Let's take a look at the
13	two pages later. All right. Is that photograph of
14	worn work clothes in a change room at the Louisville
15	plant inconsistent with your contaminant risk theory?
16	A. That is in that's a violation, a
17	compliance violation with the last document that you
18	provided that indicated that soiled uniforms,
19	contaminated uniforms were binned. That's all that
20	is.
21	Q. Well, that's what's your definition
22	of a soiled uniform? Just something that was worn all
23	day?
24	A. Yes.
25	Q. Okay.

1	Α.	Potential
2	Q.	That's your definition.
3	Α.	Potentially contaminated.
4	Q.	A different definition of soiled
5	uniform is the a	actual exposure and contact to a
6	chemical; correc	t?
7	А.	How much of a chemical do you consider
8	toxic?	
9	Q.	My question is to you is, you don't
10	do you have y	your own definition of soiled?
11	А.	Yes, I do, and it's based on the
12	toxicology of al	l of the chemicals that were listed in
13	those PPE grids	and a small amount goes a long way in
14	a work environme	ent.
15	Q.	But the company has its own approach
16	as to what const	itutes soiled for purposes of
17	emergency respon	se handling; correct? Or if you know.
18	А.	It's yes, it's considered gross
19	contamination, a	all right, and it's not just a small
20	splash, but when	you have gross contamination because
21	you had a large	release of a chemical or you had an
22	incident occur w	here it's airborne and it could have
23	permeated all of	the workers' clothing, those
24	circumstances ar	e very different.
25	Q.	So so is it your testimony that

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anybody any plaintiff who wore his or her work
clothes for a shift has a soiled work uniform?
A. Correct. And that picture could be
the result of someone pulling it all out of the bin
for this photograph's purposes.
Q. All right. Now, so then under your
view, any contractors who are working a full day
inside the plant performing work on reactors, or just
to use an example, or performing, you know, capital
improvement work, at the end of that of a
contractor employee's workday, that contractor
employee's work clothes are also soiled?
A. Correct.
Q. All right. And so consistent with
your view, those contractor employees should not be
allowed to wear those clothes home; correct?
A. Correct.
Q. All right. And if the practice is
indeed that the contractor employees are able to wear
street clothes into work at the Louisville plant and
leave work with their street clothes on, that would be
consistent with your contaminant risk theory?
A. Yes, because there's clear indication
that a worker could have their uniform or whatever
they're wearing exposed to a variety of chemicals with

1 serious health hazards without any additional body PPE 2 according to how they handle their personal protective 3 equipment on the grids.

4 Now, let's take a look at the next Q. 5 page. And is there any way to rotate it? If not, б it's okay. I think -- there we go. So I'll represent 7 to you this is a photograph of the label for the work 8 shirt. You see how it says 100 percent cotton. Is 9 this label any different than a label that one would 10 find -- other than the word Cintas on it and maybe the 11 numbers, is it different than any label that one might 12 find on a shirt that could be purchased from a 13 department store or online? 14 Α. Possibly. I see the term durable 15 press. 16 0. What does that mean to you? 17 Α. I'm not sure. 18 Okay. So do you know if this label 0.

19 that appears on plaintiffs' work -- at least a 20 plaintiffs' work shirt is any different than a label 21 that would appear on an all-cotton shirt that one 22 could purchase from a department store or online? 23 A. Yes, because it has the label durable 24 press, I have never seen that label in a shirt that I 25 have purchased in a department store.

1 Okay. But you don't know what that Ο. 2 means? 3 Α. It doesn't matter. You just asked me if it's different and it is. 4 5 0. Right. But you don't know why it's different, then, do you? 6 7 Α. Correct. 8 0. And at least with regard to this 9 particular label on the shirt, you agree that there's 10 no special laundering instructions associated with the 11 shirt based upon the label? 12 MR. CONNOR: Object to that. You 13 can't see whether there are any other labels on there 14 or not, Ray, all we can see is that one part of the 15 shirt. 16 MR. KRESGE: All right. That's fair 17 enough. 18 Let's assume more hypothetically that Ο. 19 this is the only label that appears on the shirt. 20 Would you agree at least that from this label there 21 are no special laundering instructions associated with 22 this shirt? 23 Correct. The difference is in the Α. 24 handling instructions. 25 MR. KRESGE: All right. If we could

1 just go off the record for a second. 2 Okay. Hold on. It is MODERATOR: 3 6:10 and we are going off the record. We're off the 4 record. 5 (OFF THE RECORD) It is 6:20 and we're back 6 MODERATOR: 7 on the record. 8 MR. KRESGE: I have spoken with 9 Mr. Connor and we are in agreement that we will resume 10 and complete this deposition on another day and that 11 we'll coordinate that day with everyone involved as 12 soon as possible, and so the deposition remains open 13 at this point and we will quickly determine a date to 14 complete it and I thank everyone for their time today 15 and I appreciate it. 16 MR. CONNOR: And, Ray, and I'll give 17 you -- I'm sorry. Can we --18 MODERATOR: Do you want me to go off 19 the record now? 20 MR. KRESGE: Yes. 21 MR. CONNOR: Yes. 22 MODERATOR: Okay. Hold on. It is 23 6:21 and we're going off the record. We are off the 24 record now. 25 (DEPOSITION CONCLUDED AT 6:21 P.M.)

1	STATE OF KENTUCKY)(COUNTY OF JEFFERSON)(
2	
3	I, JESSICA MYERS, Notary Public, State of Kentucky at Large, hereby certify that the foregoing deposition was taken at the time and place stated in
4	the caption; that the appearances were as set forth in the caption; that prior to giving the testimony the
5	witness was first duly sworn by me; that said testimony was taken down by me in stenographic notes
6	and thereafter reduced under my supervision to the foregoing typewritten pages; and that said typewritten
7	transcript is a true, accurate and complete record of my stenographic notes so taken.
8	I further certify that I am not related
9	by blood or marriage to any of the parties hereto and that I have no interest in the outcome of the captioned case.
10	My commission as Notary Public expires June 8, 2024.
11	Given under my hand this the day of, 2021, at Louisville, Kentucky.
12	or, zozi, at hoursville, kentucky.
13	
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