

**EXHIBIT 12**

**FILED UNDER SEAL**

Dixon

IN THE CIRCUIT COURT  
TWENTIETH JUDICIAL CIRCUIT  
ST. CLAIR COUNTY, ILLINOIS

DIANA HOFFMANN,	)	
individually and as	)	
Independent Administrator	)	
of the Estate of THOMAS R.	)	No. 17-L-517
HOFFMANN, Deceased, et al.,	)	
	)	
Plaintiff,	)	
	)	
v.	)	
	)	
SYNGENTA CROP PROTECTION,	)	
LLC, et al.,	)	
	)	
Defendants.	)	

CONFIDENTIAL

REMOTE VIDEOCONFERENCE CORPORATE DEPOSITION OF  
SYNGENTA, BY AND THROUGH ITS REPRESENTATIVE

MONTAGUE DIXON

WEDNESDAY, JUNE 24, 2020

REPORTED BY:

DEBRA A. DIBBLE, RDR, CRR, Notary Public

JOB NO. 27663

1 REMOTE VIDEOCONFERENCE DEPOSITION OF  
 2 MONTAGUE DIXON, produced as a witness at the  
 3 instance of the Plaintiffs and duly sworn, was  
 4 taken in the above-styled and numbered cause on  
 5 the above-referenced date, from 10:08 a.m. to  
 6 4:59 p.m. EDT, before Debra A. Dibble, RDR, CRR,  
 7 Notary Public, reported by realtime stenographic  
 8 means at the location of the witness, pursuant to  
 9 Section 1-109 of the Illinois Code of Civil  
 10 Procedure pursuant to the Illinois Supreme Court  
 11 Rules 206 and 204(a)(3).  
 12  
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 19  
 20  
 21  
 22  
 23  
 24  
 25

1 STEPTOE & JOHNSON LLP  
 2 BY: JASON LEVIN, ESQUIRE  
 3 jlevin@steptoe.com  
 4 633 West Fifth Street  
 5 Suite 1900  
 6 Los Angeles, California 90071  
 7 (213) 439-9455  
 8 Counsel for CHEVRON U.S.A., INC.  
 9  
 10 GORDON & REES LLP  
 11 BY: P. GERHARDT ZACHER, ESQUIRE  
 12 gzacher@grsm.com  
 13 275 Battery Street  
 14 Suite 2000  
 15 San Francisco, California 94111  
 16 (619) 230-7703  
 17 Counsel for WILBUR-ELLIS  
 18  
 19 HEYL, ROYSTER, VOELKER & ALLEN P.C.  
 20 BY: ANNE KIMBALL, ESQUIRE  
 21 akimball@heyloyster.com  
 22 35 N. Dearborn Street  
 23 Seventh Floor  
 24 Chicago, Illinois 60602  
 25 (312) 853-8700  
 Counsel for GROWMARK  
 ALSO PRESENT:  
 MARK SMITH  
 Syngenta In-House Counsel  
 TIMOTHY PATTERSON  
 Syngenta  
 VIDEOGRAPHER:  
 ISAAC ORIHUELA,  
 TransPerfect Legal Solutions

1 REMOTE APPEARANCES:  
 2 KOREIN TILLERY, LLC  
 3 BY: STEPHEN M. TILLERY, ESQUIRE  
 4 stillery@koreintillery.com  
 5 JOHN A. LIBRA, ESQUIRE  
 6 jlibra@koreintillery.com  
 7 NICOLE M. GRAHAM, ESQUIRE  
 8 ngraham@koreintillery.com  
 9 ROSEMARIE FIORILLE, ESQUIRE  
 10 rfiorille@koreintillery.com  
 11 505 N. 7th Street  
 12 Suite 3600  
 13 St. Louis, Missouri 63101  
 14 (314) 241-4844  
 15 Counsel for PLAINTIFFS  
 16  
 17 WALKUP, MELODIA, KELLY & SCHOENBERGER  
 18 BY: KHALDOUN A. BAGHDADI, ESQUIRE  
 19 kbaghdadi@walkuplawoffice.com  
 20 650 California Street  
 21 San Francisco, California 94108  
 22 (415) 889-2919  
 23 Counsel for PLAINTIFFS  
 24  
 25 KIRKLAND & ELLIS LLP  
 BY: THOMAS P. WEIR, ESQUIRE  
 tom.weir@kirkland.com  
 1301 Pennsylvania Avenue N.W.  
 Washington, D.C. 20004  
 (202) 879-5000  
 Counsel for SYNGENTA CROP PROTECTION, LLC  
 HUSCH BLACKWELL LLP  
 BY: MEGAN A. SCHEIDERER, ESQUIRE  
 Megan.Scheiderer@huschblackwell.com  
 4801 Main Street  
 Suite 1000  
 Kansas City, Missouri 64112-2551  
 (816) 983-8295  
 Counsel for CHEVRON U.S.A. INC.

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1	<b>DEPOSITION EXHIBITS</b>		1	<b>PROCEEDINGS</b>	
2	<b>NUMBER</b>	<b>DESCRIPTION</b>	2	(June 24, 2020 at 10:08 a.m. EDT)	
3	Exhibit 1	FIFRA Section 6(A)(2),	3	<b>THE VIDEOGRAPHER:</b> We are now on	
4		7 U.S.C. Section 136(a)(2)	4	the record. Today's date is June 24th, 2020, the	
5	Exhibit 2	7 U.S.C. Section 136(bb)	5	time is 10:08 a.m., Eastern Standard Time.	
6		Unreasonable adverse	6	This is the video deposition of	
7		effects on the environment	7	Montague Dixon, in the matter of Diana Hoffmann,	
8	Exhibit 3	18 U.S.C. Section 1001(a)	8	versus Syngenta Crop Protection, LLC, et al.	
9	Exhibit 4	40 C.F.R. Section 159.158	9	This is filed in the Circuit	
10		What information must be	10	Court, Twentieth Judicial Circuit, St. Clair	
11		submitted	11	County, Illinois. The case number is 17-L-517.	
12	Exhibit 5	40 C.F.R. Section 159.165	12	This deposition is taking place	
13		Toxicological and	13	via web video conference with all participants	
14		ecological studies	14	attending remotely due to the Covid-19 pandemic.	
15	Exhibit 6	Section 159.195 Reporting	15	My name is Isaac Orihuela. I'm	
16		of other information	16	the videographer representing TransPerfect.	
17	Exhibit 7	Paraquat & Parkinson's	17	Would counsel on the conference	
18		Disease Presentation,	18	please identify yourselves and state whom you	
19		SYNG-PQ-00493318-00493392	19	represent beginning with the questioning attorney.	
20	Exhibit 8	Paraquat Dichloride	20	<b>MR. TILLERY:</b> For the plaintiffs,	
21		Hydrate,	21	Stephen Tillery of the law firm of Korein Tillery.	
22		XM7229/Research/Report,	22	<b>MR. WEIR:</b> Tom Weir, Kirkland &	
23		SYNG-PQ-00492889-00492936	23	Ellis on behalf of Syngenta.	
24			24	<b>THE STENOGRAPHER:</b> And I can put	
25			25	the rest on as also present on the stenographic	
Page 7			Page 9		
1	Exhibit 9	Paraquat Dichloride	1	record.	
2		Hydrate,	2	<b>THE VIDEOGRAPHER:</b> Our court	
3		XM7258/Research/Report,	3	reporter today is Debbie Dibble, also with	
4		SYNG-PQ-00116782-00116838	4	TransPerfect.	
5	Exhibit 10	Paraquat Dichloride	5	The court reporter can now swear	
6		Hydrate,	6	in the witness.	
7		XM7371/Research/Report,	7	<b>MONTAGUE DIXON,</b>	
8		SYNG-PQ-00490903-00490963	8	having first been duly sworn, was examined and	
9	Exhibit 11	Paraquat Dichloride Hydrate	9	testified as follows:	
10		XM7380/Research/Report,	10	<b>DIRECT EXAMINATION</b>	
11		SYNG-PQ-00492785-00492845	11	<b>BY MR. TILLERY:</b>	
12	Exhibit 12	2-21-13 Syndenta's Paraquat	12	Q. Sir, would you state your name for the	
13		Research Program Update,	13	record, please?	
14		SYNG-PQ-00469778-00469862	14	A. Yes, sir. My full name is Montague	
15	Exhibit 13	2-6-17 Syngenta's Paraquat	15	Uriah Dixon, III.	
16		Research Program Update,	16	<b>MR. TILLERY:</b> For the record, I'll	
17		SYNG-PQ-00955314-00955408	17	note this is a deposition of an adverse party or	
18			18	agent, and I will be conducting it in accordance	
19			19	with Section 3-1102 of the Illinois Code of Civil	
20			20	Procedure, and that is cited at 735 ILCS 5/2-1102.	
21			21	Q. (BY MR. TILLERY) This is a remote	
22			22	deposition. You understand that, of course, don't	
23			23	you, Mr. Dixon?	
24			24	A. Yes, sir.	
25			25	Q. All right. And have you ever given a	

1 deposition before?  
 2 A. No, sir.  
 3 Q. Have you testified before?  
 4 A. No, sir.  
 5 Q. Okay. Before we begin this remote  
 6 deposition today, I want to make clear the  
 7 expectations that all of the attorneys have  
 8 regarding communications with you, okay?  
 9 A. Yes, sir.  
 10 Q. All right. During this deposition,  
 11 Counsel appearing with the deponent and the  
 12 deponent will have an opportunity to speak off the  
 13 record at the appropriate time as if this were in  
 14 a traditional deposition setting, where all  
 15 parties were represented by attorneys appearing in  
 16 the same room at the same time where you're  
 17 located.  
 18 But since it's a remote deposition, we  
 19 want to make sure that you are not using any other  
 20 means of communication other than at breaks where  
 21 you can talk to your counsel, and you're not  
 22 receiving any other signals or answers or  
 23 communications, for example, in your headphones  
 24 right now. I mean, we need your assurance that  
 25 those wouldn't be communications means with others

1 A. Yes, sir. February 28, 1966.  
 2 Q. And your home address?  
 3 A. 205 Newberry Street, in Jamestown,  
 4 North Carolina. The ZIP code is 27282.  
 5 Q. And your business address?  
 6 A. 410 South Swing Road, Greensboro,  
 7 North Carolina 27409. Might be 27410. We have  
 8 two ZIP codes that we use.  
 9 Q. We're going to go through your work  
 10 history at Syngenta, and the -- I believe it is  
 11 two corporate predecessors you worked for at  
 12 Syngenta, but before we do, can you tell us what  
 13 your job title and job responsibilities are today?  
 14 A. Yes, sir. I am currently the  
 15 regulatory portfolio lead for the herbicide group,  
 16 and as such, I lead a team of three persons that  
 17 represent our different herbicide products in our  
 18 North American portfolio.  
 19 Q. So a regulatory portfolio lead for the  
 20 herbicide group, which would include paraquat;  
 21 right?  
 22 A. Yes, sir, it does.  
 23 Q. Would you mind telling us what that  
 24 means, a regulatory portfolio lead?  
 25 A. Yes, sir.

1 helping you to answer questions.  
 2 Do you understand what I'm saying?  
 3 A. Yes, sir, and if it's more helpful, I  
 4 do have an external speaker Jabra that I could  
 5 engage if you would find that more acceptable.  
 6 Q. No, it's not necessary, we just need  
 7 your assurance.  
 8 A. Yes, sir.  
 9 Q. That's all. So whatever works best  
 10 for you is fine with us so long as we have your  
 11 assurance that there's compliance with the  
 12 Illinois rules and the other rules that make sure  
 13 these types of communications don't take place.  
 14 It applies to all parties, not just to  
 15 Syngenta. Everybody has their time that when this  
 16 virus ceases its grip on our country, we'll go  
 17 ahead and go back, presumably, to some form of  
 18 traditional dep, but right now we need your  
 19 assurance that there's nothing else going on that  
 20 would give you answers to the questions.  
 21 Do you understand that?  
 22 A. Yes, sir, and you have my assurance.  
 23 Q. Thank you.  
 24 Now, could you state your date of  
 25 birth, please?

1 Q. I know that's a term of art that means  
 2 a lot to folks at Syngenta, but to us, we might  
 3 need a little help.  
 4 Do you understand?  
 5 A. Yes, sir. So essentially I lead a  
 6 team of regulatory managers, and I still maintain  
 7 a role as a regulatory manager as well, with  
 8 responsibilities primarily in my supervision of  
 9 paraquat and diquat as well as new product  
 10 development that we are working on. In that role,  
 11 I interact with the business as well as with  
 12 regulators to handle, you know, the activities  
 13 necessary to maintain the license to operate. So  
 14 to gain registrations, to respond to registration  
 15 reviews, data call-ins, respond to communications  
 16 potentially from either EPA, sometimes California.  
 17 And then so in that role, I am in  
 18 contact with the regulatory bodies. I also work  
 19 with our business partners to develop new use  
 20 label strategies to gain registrations of new  
 21 products, sometimes to replace sources maybe of an  
 22 inert ingredient or an active ingredient within a  
 23 product, and generally answer questions from  
 24 different parts of the business that are  
 25 associated with maintaining our license to operate

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1 with selling our registered products.  
 2 Q. So would it be a fair assessment that  
 3 you're the liaison between this company, Syngenta,  
 4 you work for, and regulatory bodies like the  
 5 USEPA?  
 6 A. Yes, sir, I do act in that capacity,  
 7 with direct communications and responsibilities  
 8 for products within the agencies. Certainly there  
 9 is a tiered approach. I tend to work at a certain  
 10 level within the agencies. There are folks that,  
 11 in our organization that work at higher levels in  
 12 the agency, but I tend to interact primarily with  
 13 the EPA regulators that have responsibilities for  
 14 the products for which I also have those  
 15 responsibilities. So at EPA, certain groups  
 16 handle certain products, and that would be my  
 17 direct contacts typically.  
 18 Q. All right. So if we can, let's go  
 19 through the hierarchy of regulatory positions in  
 20 the United States. You told us your duties and  
 21 responsibilities and title.  
 22 Who is above you on the chain in  
 23 regulatory affairs in the United States?  
 24 A. So my immediate supervisor is Charles  
 25 Pearson. He is the leader for the entire

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1 regulatory -- U.S. regulatory portfolio. That  
 2 would involve the herbicide group which I lead,  
 3 the fungicide group which is led by Charles Levey.  
 4 Then there is the insecticide group -- I'm sorry,  
 5 fungicide is led by Adora Clark; insecticides by  
 6 Charles Levey; our professional products by  
 7 Patrick McCain.  
 8 And so above Charles is then John  
 9 Abbott, who leads the North America regulatory and  
 10 stewardship group, and John reports in to Chris  
 11 Davidson.  
 12 Q. And where is Chris Davidson?  
 13 A. He is located in Washington, DC.  
 14 Q. Okay. And what is his role or  
 15 interaction with the USEPA?  
 16 A. I don't believe he has frequent  
 17 interactions with EPA. Certainly John and Charlie  
 18 would have more frequent interactions. I honestly  
 19 cannot tell you how often he does interact with  
 20 EPA.  
 21 Q. Who interacts with respect to paraquat  
 22 with the EPA most frequently?  
 23 A. That would be me, sir.  
 24 Q. All right. And how long has that been  
 25 the case?

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1 A. I became the regulatory manager for  
 2 paraquat in 2006, at the last half of 2006. I  
 3 want to say probably September-October time frame,  
 4 sir.  
 5 Q. In that period of time, until now, say  
 6 almost 14 years, has there been anybody else who's  
 7 had more frequent contact with the U.S. EPA than  
 8 you?  
 9 A. I would not -- I do not believe that  
 10 to be the case. I would be very surprised if that  
 11 were the case.  
 12 Q. So if there's a meeting that's to be  
 13 conducted by Syngenta with the U.S. EPA, it's  
 14 likely you who would establish that meeting;  
 15 correct?  
 16 A. Correct.  
 17 Q. And if there was a question that  
 18 somebody at the EPA had, for example, Marianne  
 19 Mannix, if she were to have a question, she would  
 20 go to you, wouldn't she?  
 21 A. Most likely.  
 22 Q. Okay. And how often does that happen?  
 23 A. We've had a series of interactions,  
 24 particularly when she took over the registration  
 25 review project that was initially run by Molly

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1 Clayton. Marianne Mannix covers the registration  
 2 review activities. There is also the RD division  
 3 that would handle new product activities.  
 4 I would say during the last four  
 5 to five years, we've had, I would characterize it  
 6 as multiple interactions each year. I don't think  
 7 I could give you a specific number for each year,  
 8 because as the years have evolved, there's been  
 9 different questions. We met quite frequently, for  
 10 example, around the human health mitigation  
 11 activities that started 2013, '14, and then ran up  
 12 until the issuance of the human health mitigation  
 13 decision.  
 14 Q. Okay. So in terms of your  
 15 communications, let's use an example. You know  
 16 what emetics are, right?  
 17 A. Yes, sir.  
 18 Q. All right. Have you talked to  
 19 Marianne Mannix about -- strike that.  
 20 Have you talked to Marianne Mannix  
 21 about emetics in the last three years?  
 22 A. Yes, sir.  
 23 Q. And was that in connection with  
 24 communications she received from Jon Heylings?  
 25 A. Yes, sir.

1 Q. And did you reach out to her, or did  
 2 she reach out to you?  
 3 A. I reached out to her. And for clarity  
 4 of the communications, we alerted Marianne, I  
 5 believe it was in February of 2019 that we had  
 6 been informed of some questions being raised by a  
 7 former employee of the company, and then we met  
 8 with Marianne around the emetic, and we met with  
 9 Marianne, and I believe Kelly Sherman, I want to  
 10 say, in May of 2019, and went through the  
 11 information around what Mr. Heylings had indicated  
 12 his concerns were; and communicated that with the  
 13 agency and had a dialogue at EPA on that topic.  
 14 Q. Where did you have that meeting?  
 15 A. At the main location, 1 Potomac Plaza  
 16 in Arlington there at EPA's headquarters.  
 17 Q. And I assume Jon Heylings was on the  
 18 call with you?  
 19 A. He was not.  
 20 Q. Okay. Was he told about the meeting?  
 21 A. I do not believe so. I do not --  
 22 MR. WEIR: Object to the form.  
 23 Q. (BY MR. TILLERY) I'm sorry. Counsel  
 24 interrupted you. You can answer.  
 25 You may answer, sir.

1 not. The product that has been registered,  
 2 Gramoxone 3 SL, is our new product. We met with  
 3 the agency to talk about the development of those  
 4 projects, in those meetings. We shared with the  
 5 agency that our intention was to retain the same  
 6 ratio of paraquat active ingredient to emetic  
 7 concentration that was in our currently registered  
 8 Gramoxone SL 240.  
 9 So that would be another  
 10 discussion I had with the agency on emetic.  
 11 Q. Let me make sure our record is clear.  
 12 In February of 2019, you reached out to Marianne  
 13 Mannix on behalf of Syngenta specifically  
 14 regarding the communications that you expected the  
 15 EPA to have about emetics in paraquat from Dr. Jon  
 16 Heylings; correct?  
 17 MR. WEIR: Object to the form.  
 18 THE WITNESS: My discussion --  
 19 MR. TILLERY: If you can, sir, the  
 20 reporter will tell you this, but if you'd just  
 21 hesitate a little bit and, Weir, your objections  
 22 are very, very, poorly audible in here, and I hope  
 23 the reporter can get those, but it's difficult for  
 24 us to hear your objections.  
 25 (Discussion off the record.)

1 THE WITNESS: Tom, should I  
 2 answer?  
 3 MR. WEIR: Yes, you can answer.  
 4 THE WITNESS: I do not have  
 5 definitive knowledge, but I do not believe that  
 6 Mr. Heylings was told prior to that meeting that  
 7 we would be meeting with the EPA; however, I do  
 8 not have definitive knowledge on that.  
 9 Q. (BY MR. TILLERY) And you used the  
 10 word "we." Who was it besides you who met with  
 11 the U.S. EPA about emetics?  
 12 A. John Abbott.  
 13 Q. And how many meetings did you have?  
 14 A. Specific to the Heylings situation,  
 15 the in-person meeting in May was the only  
 16 in-person meeting. I did have a phone call with  
 17 Marianne in February in which I let her know of  
 18 the initial questions that Mr. Heylings had  
 19 raised.  
 20 I would also point out that that  
 21 was not the only meetings that we had had on  
 22 emetic. It is the meeting specific to the  
 23 questions around Mr. Heylings.  
 24 We -- as we were developing two  
 25 new products, one has been registered, one has

1 Q. (BY MR. TILLERY) And the other thing  
 2 I'd ask you to do is, if you can, just focus on my  
 3 specific question, We're going to be at this a  
 4 long time today, and if you could just focus.  
 5 There will be a lot of opportunity for you to  
 6 explain your answers, but if you can, at least at  
 7 this preliminary stage as we go through this, if  
 8 you could just focus on my specific question.  
 9 Okay?  
 10 Let me go back and restate the  
 11 question, because our record is a bit garbled.  
 12 We'll start over.  
 13 To clarify the record, you indicated  
 14 to us that in February of 2019, about 15 months  
 15 ago, 16 months ago, you reached out to Marianne  
 16 Mannix of the U.S. EPA regarding Jon Heylings and  
 17 the statements he was making about the emetic or  
 18 lack of emetic in sufficient quantities in  
 19 paraquat; correct?  
 20 A. So the initial communication with  
 21 Marianne was a phone call in which we identified a  
 22 former employee. We did not identify Mr. Heylings  
 23 by name. That a former employee was asking  
 24 questions about a previous study. That was the --  
 25 that was related to the emetic. I believe that

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1 was the extent of the initial awareness that we  
 2 communicated to EPA at that time.  
 3 Q. (BY MR. TILLERY) Why did you reach  
 4 out to the EPA?  
 5 A. We have tried to maintain a very  
 6 transparent and good working relationship with  
 7 EPA, specifically and through the human health  
 8 mitigation; Marianne and I have had multiple  
 9 interactions about how to try to address EPA's  
 10 concerns, primarily around accidental ingestion.  
 11 Syngenta took a very proactive and  
 12 cooperative role with EPA to work on many of the  
 13 ultimate final requirements that EPA has around  
 14 paraquat. So over that time period, I had  
 15 frequent discussions with Marianne. So this was  
 16 part of maintaining that transparent communication  
 17 with her that there was some questions around the  
 18 emetic level, and we were looking into them. And  
 19 once we had more information, we would come back  
 20 to her.  
 21 Q. So once you really -- as a matter of  
 22 absolute truth, weren't you really giving her a  
 23 heads up that she was going to get a communication  
 24 from John Heylings? Isn't that the truth of the  
 25 matter, Mr. Dixon?

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1 MR. WEIR: Object to form.  
 2 THE WITNESS: Okay. May I answer  
 3 or...  
 4 MR. WEIR: Yes.  
 5 THE WITNESS: Okay. Certainly.  
 6 We would want to make sure that she had awareness  
 7 that there was a possibility that someone could be  
 8 reaching out to her, absolutely.  
 9 Q. (BY MR. TILLERY) All right. All  
 10 right. And did you tell her that she -- strike  
 11 that.  
 12 What did you tell her specifically  
 13 about what the former employee was saying about  
 14 the emetic?  
 15 A. The initial conversation -- and I'm  
 16 doing the best of my recollection -- was that  
 17 there was questions being raised by a former  
 18 employee on the earlier studies related to the  
 19 emetic, but that we were in the process of  
 20 investigating. And at this point, we just wanted  
 21 to make her aware of the questions. And as we  
 22 knew more, we would provide her more information,  
 23 which we did at that subsequent meeting.  
 24 Q. So you, in the first call, just called  
 25 and said somebody raised a question, a former

Page 24

1 employee raised a question. That's what you told  
 2 her; correct?  
 3 A. Essentially, yes.  
 4 Q. And you told her that the question was  
 5 raised by the employee about the amount of emetic  
 6 that had been put in the formulated paraquat  
 7 products; right?  
 8 MR. WEIR: Object to form.  
 9 THE WITNESS: I do not believe the  
 10 specific conversation got into ratios of levels of  
 11 emetic. It was more that he was asking questions  
 12 about earlier studies that had been conducted, and  
 13 that we were going to continue to -- we were  
 14 essentially looking into his questions and that as  
 15 we understood his position and understood the  
 16 questions better, we would be coming back to them  
 17 with more information.  
 18 Q. (BY MR. TILLERY) Did you know at that  
 19 time that Jon Heylings had already told the people  
 20 in Europe that he was going to file something with  
 21 the U.S. EPA?  
 22 A. I believe I was aware of that  
 23 intention of Mr. Heylings.  
 24 Q. And what did you understand he was  
 25 going to send to the USEPA?

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1 MR. WEIR: Object to foundation.  
 2 THE WITNESS: My understanding was  
 3 that he was going to express to EPA concerns that  
 4 the data that underlied the ultimate level of  
 5 emetic in products which were not the products  
 6 actually that were being sold in EPA at the time,  
 7 our current product, was insufficient and that he  
 8 was alleging there was potential misconduct in the  
 9 studies to falsify the data.  
 10 Q. (BY MR. TILLERY) Okay. And is that  
 11 what you told Marianne Mannix?  
 12 A. At the May meeting, yes.  
 13 Q. What about in the preliminary meeting  
 14 on the phone in February of 2019?  
 15 A. No, sir, at that point, I just  
 16 indicated there was questions about -- that were  
 17 being asked by a former employee with respect to  
 18 the emetic, and that we were in the process of  
 19 trying to fully understand them.  
 20 Q. Did you ask for a specific meeting  
 21 face to face with EPA over this topic?  
 22 A. In May, yes.  
 23 Q. Did you -- you waited until May to ask  
 24 for the meeting?  
 25 A. We requested the meeting in May, and



1 then --  
 2 Q. Okay.  
 3 A. -- the meeting request, you know,  
 4 essentially we said we'd like to meet with her to  
 5 discuss a few topics. And in the meeting, we went  
 6 through, in more detail, the information that  
 7 Mr. Heylings had shared with our European team and  
 8 that had come to us.  
 9 Q. And on the February 2019 call, was  
 10 there anyone besides you and Marianne Mannix of  
 11 the United States Environmental Protection Agency?  
 12 A. No, sir. I told her directly.  
 13 Q. How long did that call last?  
 14 A. My recollection -- and I can't say  
 15 definitively -- would be no more than ten minutes.  
 16 Q. Okay. How long have you worked with  
 17 Marianne Mannix?  
 18 A. Since she took over for Molly Clayton.  
 19 I would assume that was sometime around 2014 or --  
 20 probably 2014.  
 21 Q. Do you know --  
 22 A. I know --  
 23 Q. Sorry. I was just trying to get a  
 24 direct answer to my question. So from 2014.  
 25 Did you know her predecessor, Molly

1 Q. Okay. So you reported, then, the  
 2 content of that call to other people at Syngenta,  
 3 didn't you?  
 4 A. Yes, sir.  
 5 Q. And you put that in a memorandum or  
 6 e-mail?  
 7 A. I do not believe I wrote an e-mail or  
 8 memorandum to that. I believe that was verbally  
 9 communicated.  
 10 Q. And that was to John Abbott?  
 11 A. It would have been to John Abbott,  
 12 yes, certainly.  
 13 Q. Who else did you verbally communicate  
 14 it with?  
 15 A. At the time, it would have also been  
 16 Janis McFarland, who at that time I believe was  
 17 still with the organization. Let me confirm that.  
 18 Maybe Janice had left. Certainly with John.  
 19 I don't believe Charlie was in his  
 20 role at that point. And then it would have also  
 21 been relayed to the team at Syngenta that was  
 22 responding to the concerns that Mr. Heylings had  
 23 raised around the emetic. That would have  
 24 involved counsel, Mark Smith, as well as other  
 25 members of that team.

1 Clayton, personally?  
 2 A. Not personally. In a professional  
 3 manner, yes, but not personally. But I do --  
 4 Q. Go ahead. I'm sorry.  
 5 A. I do want to make sure that I'm --  
 6 these dates I'm giving you are the best of my  
 7 recollection.  
 8 Q. They all are. We know that. We  
 9 assume that in the deposition. People do make  
 10 mistakes. If you make one and you find out later  
 11 in the dep that you remember that a different date  
 12 or a different name or a different time, please  
 13 clarify that on the record for us. Okay? You  
 14 understand?  
 15 A. Yes, sir.  
 16 Q. Okay. Now, you said that you knew  
 17 these people. You've never met them personally is  
 18 what you're saying; right?  
 19 A. Well, when -- the question was asked  
 20 if I knew them personally. I assume that to be on  
 21 a social level.  
 22 Q. Yes.  
 23 A. And, no, not on a social level.  
 24 Purely on a professional level, only having ever  
 25 met with Marianne at the USEPA.

1 Q. Okay. And when you refer to people  
 2 like Charlie or John or whatever, if you would  
 3 refer by their last name for the record, it would  
 4 help us as well. Okay?  
 5 A. Yes, sir.  
 6 Q. So there's no guesswork when we go  
 7 back and look at the record. Okay? Thank you.  
 8 Now, the meeting, then, took place,  
 9 first the face-to-face meeting took place in  
 10 June -- or May, you said, right?  
 11 A. In May.  
 12 Q. What date?  
 13 A. I don't recall a specific date. I  
 14 believe -- I will say I believe it was  
 15 approximately the 23rd, but that's the best of my  
 16 recollection. I know it was in May, and I think  
 17 towards the third week.  
 18 Q. And did you have any further  
 19 communications with Dr. Heylings between your  
 20 February call with Marianne Mannix and the time  
 21 you requested a meeting in May of 2019?  
 22 MR. WEIR: Object to the form and  
 23 foundation.  
 24 MR. TILLERY: Excuse me. It's a  
 25 2-1102 deposition. I understand you have to

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1 make -- you think you've got to make a record, but  
 2 I -- are we laboring under a misconception of how  
 3 the deposition is being taken?  
 4 This is a 206 witness, and being  
 5 taken under 2-1102, which is our right. This is  
 6 cross-examination. It's -- so from now on, we  
 7 have an obviation rule under Illinois law, and  
 8 that obviation rule requires if you say "form  
 9 only" it preserves nothing, so I'd ask you to  
 10 specify what your objection to form is when you  
 11 make it. Otherwise, it's simply disruptive of the  
 12 deposition.  
 13 And if you want a hearing on it,  
 14 we can have it in ten minutes, but saying --  
 15 saying form objection doesn't mean anything. So  
 16 tell me what your problem is with my question, and  
 17 then I'll reframe it, so we don't have to do this  
 18 over again.  
 19 All right. Let's go back and  
 20 re --  
 21 MR. WEIR: Would you like to know  
 22 the basis of my form objection?  
 23 MR. TILLERY: Yes.  
 24 MR. WEIR: I'm happy to give it to  
 25 you. So I -- it assumed that Mr. Dixon had

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1 conversations with Dr. Mannix. That was my  
 2 objection to the form and foundation.  
 3 Q. (BY MR. TILLERY) Yeah, so can we go  
 4 back and look at the question? Rather than trying  
 5 to find it on this, I'll just restate it to you.  
 6 Do you know whether or not anyone  
 7 at Syngenta had communications with Dr. Jon  
 8 Heylings between the time of your call with  
 9 Marianne Mannix in February 2019 and the time you  
 10 reached out to establish a face-to-face meeting  
 11 with Marianne Mannix in May of 2019?  
 12 A. I do not have a certainty of that  
 13 communication. I do know there was dialogue going  
 14 on between our European colleagues that were  
 15 engaged with Dr. Heylings. There may have been a  
 16 communication after that February meeting and  
 17 prior to the May meeting. I just do not have  
 18 specific information on that.  
 19 Q. Were you supplied any kind of e-mails  
 20 or communications about any such meeting in  
 21 writing?  
 22 A. I do not recall receiving such an  
 23 e-mail. However, it is possible. I just do not  
 24 recall receiving such an e-mail. We did have, as  
 25 part of that team, teleconferences, and certainly

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1 approaches and communications between folks would  
 2 have been mentioned in that. I just don't  
 3 specifically recall such an e-mail, Mr. Tillery  
 4 Q. Okay. How many people were at the  
 5 meeting in May with the EPA?  
 6 A. Syngenta: Myself and John Abbott.  
 7 From EPA, we had requested Reuben Baris. Reuben,  
 8 at the time, was the registration division team  
 9 leader for paraquat products.  
 10 We requested Reuben, Marianne  
 11 Mannix, Kelly Sherman. Reuben was unable to  
 12 attend. He sent someone in his place. I do not  
 13 recall. It was -- I do not recall the lady's  
 14 name, but there was somebody representing Reuben  
 15 from the RD division. In the meeting, I believe  
 16 in addition to myself, was John, Kelly Sherman,  
 17 and Marianne Mannix.  
 18 Q. Why did you believe --  
 19 A. And this person --  
 20 Q. Why did you request Reuben?  
 21 A. As part of our desire to make sure EPA  
 22 was fully aware of the questions around the  
 23 emetic, Reuben would be working on at the time;  
 24 and Reuben is who I mentioned earlier that we had  
 25 met with, Reuben and Mindy Ondish, when we were

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1 discussing our new product, Gramoxone 3 SL as well  
 2 as Gramoxone Magnum.  
 3 Because we had had that dialogue  
 4 with Reuben earlier and discussing our intention  
 5 to submit those products, we wanted to make sure  
 6 he was fully aware as well that there was a  
 7 question being raised about the level of emetic in  
 8 the product.  
 9 Q. Did you give the EPA representatives  
 10 in the meeting anything in writing?  
 11 A. I do not believe anything was  
 12 presented to them in writing.  
 13 Q. Okay. Was there a PowerPoint  
 14 presentation made?  
 15 A. I do not believe there was. There was  
 16 at that earlier meeting with Reuben and Mindy, but  
 17 at this one, I do not believe there was a  
 18 PowerPoint presentation. I certainly don't recall  
 19 that there was one.  
 20 Q. When you say there was an earlier  
 21 meeting with Reuben and Mindy, that wasn't  
 22 regarding Dr. Heylings' claims or comments, was  
 23 it?  
 24 A. No, sir.  
 25 Q. That was regarding your new product?

1 A. Correct.  
 2 Q. Did that PowerPoint involve the  
 3 emetic?  
 4 A. That PowerPoint in the meeting with  
 5 Reuben and Mindy did have a slide to my  
 6 recollection that demonstrated the ratio of emetic  
 7 in the current product and the pending ratio of  
 8 emetic in the two new products that were going to  
 9 be submitted.  
 10 Q. And when did you have that meeting?  
 11 A. Hard to recall the specific date. My  
 12 best assumption would have been sometime in 2017.  
 13 Q. Okay. So it certainly wasn't last  
 14 year; right?  
 15 A. No, sir. No, sir.  
 16 Q. All right. And who did the speaking  
 17 for Syngenta, both you and Mr. Abbott or one of  
 18 you?  
 19 A. Primarily myself.  
 20 Q. And would you explain to us how long  
 21 the meeting lasted and your best recollection of  
 22 what information you conveyed and Mr. Abbott  
 23 conveyed to the USEPA during the meeting?  
 24 A. Yes, sir. I would estimate the  
 25 meeting lasted between 30 and 45 minutes. During

1 emetic in the current products had been set at  
 2 1.5 grams per liter, back when we had set Inteon,  
 3 and that we were maintaining that level of emetic.  
 4 Q. So, in other words, your new product  
 5 had three times more emetic in it than the emetic  
 6 that Dr. Heylings was making his statements about;  
 7 correct?  
 8 A. That is correct.  
 9 Q. And therefore, you're not still  
 10 selling the prior paraquat products at .5 percent;  
 11 right?  
 12 A. That is correct. Syngenta, when we  
 13 registered Gramoxone Inteon, we cancelled the  
 14 registration of our former products that had that  
 15 other level of emetic in it.  
 16 Q. And now your new product has three  
 17 times of the emetic; right?  
 18 A. It's not quite three times. We've  
 19 maintained the ratio of paraquat to emetic. So  
 20 1.5 grams per liter emetic in the 240-gram Inteon,  
 21 created a ratio -- I can't remember the specific  
 22 ratio. I have an idea. We had maintained -- when  
 23 we went to the 360-gram per liter, we,  
 24 accordingly, increased the emetic up to maintain  
 25 that ratio. The Gramoxone Magnum product that has

1 that meeting, we communicated the allegations from  
 2 Mr. Heylings that he was concerned that data had  
 3 been falsified and that he even had retained  
 4 copies of those data that he alleged were not  
 5 correct.  
 6 An interesting element of the  
 7 meeting was that EPA had said that they  
 8 essentially are considering moving away from the  
 9 emetic because the key element to minimizing --  
 10 Q. Sir, can you answer my question?  
 11 Please. I don't know where you are on this  
 12 meandering road you're on right now, but please go  
 13 back and answer my question. Let me start over.  
 14 My question simply to you is: What  
 15 information did you convey to the USEPA about  
 16 Mr. -- or Dr. Heylings' statements about the  
 17 emetic in paraquat? What did you say?  
 18 A. I had indicated that Mr. Heylings had  
 19 expressed concern that the data underlying the  
 20 emetic level -- and this would be the 0.5-gram per  
 21 liter emetic level, was based upon potentially  
 22 falsified information, and that he had indicated  
 23 he had records to that effect.  
 24 We were asked what our view on  
 25 that was, and we responded that the level of

1 1.5 grams -- I'm sorry, that has two -- 160 grams  
 2 of paraquat, the emetic was reduced to be  
 3 consistent with the ratio of emetic that was in  
 4 our currently registered product Gramoxone Inteon.  
 5 So as the product concentration  
 6 went up, the emetic level went up, I want to say  
 7 it's approximately 2.3 grams per liter, and the  
 8 360 product --  
 9 Q. What was the old version, how much was  
 10 it per liter? What was it before you changed it?  
 11 A. So before we went to the Inteon, sir,  
 12 or after?  
 13 Q. Before you went -- before you jacked  
 14 up the amount of emetic three times, what was the  
 15 measure?  
 16 A. In the former products, it was a  
 17 0.5-gram per liter emetic, and a 360-gram paraquat  
 18 product.  
 19 Q. So 0.5-gram emetic to 360 grams of  
 20 paraquat.  
 21 A. Yes, sir.  
 22 Q. Okay. And just so we're -- just  
 23 abundantly clear, the new product, you raised that  
 24 to, for the same amount of paraquat, to 1.5 grams  
 25 of emetic; correct?

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1 A. No, sir. In the new product, where it  
 2 went to 1.5 grams of emetic, the amount of  
 3 paraquat was reduced from 360 grams down to 240 as  
 4 part of the Inteon technology.  
 5 Q. So then what is the increase overall?  
 6 If you had .5 grams to 360, and you're  
 7 now at 1.5 grams per 2 -- would you say 40?  
 8 A. 240.  
 9 Q. Okay. How much have you increased the  
 10 emetic?  
 11 MR. WEIR: Objection, foundation.  
 12 MR. TILLERY: You have the  
 13 background. We haven't asked you questions, but,  
 14 sir, you have a master's degree in chemistry,  
 15 don't you?  
 16 THE WITNESS: Yes, sir.  
 17 Q. (BY MR. TILLERY) All right. So  
 18 let's -- if you can, answer my question. What's  
 19 the percentage increase?  
 20 A. Well, without having a calculator in  
 21 front of me, it's a little difficult to do the  
 22 math. I will say that our 360 product had  
 23 0.5 grams. We referred to that as 1 X.  
 24 Okay? When we went to the  
 25 240-gram per liter and it went up to 1.5 grams of

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1 emetic, we've referred to that as 3 X emetic.  
 2 Q. Okay.  
 3 A. As far as the ratio, you just simply  
 4 take the amount of emetic and divide it by the  
 5 paraquat. That gives you the ratio. I could do  
 6 that with a calculator, I just can't do that in my  
 7 head.  
 8 Q. We'll do it at the break. But it's  
 9 certainly over a four-time increase, isn't it?  
 10 It's over a 400 percent increase, isn't it?  
 11 A. It went from --  
 12 Q. I'm doing it just by looking at the  
 13 numbers, and I'm sure you can do it by math, and  
 14 I'll ask you to do that at the break.  
 15 A. Sure.  
 16 Q. But it looks like it's over  
 17 400 percent.  
 18 If that's the -- if that's the case,  
 19 when did you first start increasing the emetic at  
 20 that level?  
 21 A. My understanding of the emetic  
 22 increase was part of the development of the Inteon  
 23 formulation, that I believe Dr. Heylings was  
 24 actually the patent holder on that. And in the  
 25 U.S. Inteon formulation, which other components

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1 were put in, one element of that was to lower the  
 2 concentration of paraquat, increase the level of  
 3 emetic to add sodium alginate and add magnesium  
 4 sulfate. So that was a transition.  
 5 There was a series of formulations  
 6 tested over, I'm not sure -- I would say the whole  
 7 existence of a product, companies are constantly  
 8 modifying formulations, obviously, but the level  
 9 of emetic that was in the final paraquat U.S.  
 10 formulation was 1.5 grams per liter, as part of  
 11 the --  
 12 Q. What I'm trying to figure out is when  
 13 did you start selling that in America.  
 14 A. Oh, I'm sorry.  
 15 Q. The 1.5 grams per 240 grams of  
 16 paraquat, when did that start?  
 17 A. I believe it was registered at the end  
 18 of 2005 and would have been marketed starting in  
 19 2006.  
 20 Q. With that same formula?  
 21 A. That was with the Inteon formulation,  
 22 yes, sir.  
 23 Q. And you're saying the Inteon  
 24 formulation is continuing to be used?  
 25 A. No, sir. What has happened, and just

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1 to be clear, once we got the Inteon registered,  
 2 which was the 240-gram per liter formulation, we  
 3 cancelled the Gramoxone Max, which was that former  
 4 formulation that you were referring to. The  
 5 Inteon formulation was sold as Inteon until  
 6 approximately 2012, when we introduced Gramoxone  
 7 SL 2.0. The key difference between Gramoxone SL  
 8 and 2.0 and Inteon was the removal of the sodium  
 9 alginate, and so that product has remained our  
 10 primary product until our current registration of  
 11 Gramoxone 3.  
 12 So currently we have the Gramoxone  
 13 SL 2.0 and the Gramoxone SL 3.0, which the  
 14 Gramoxone SL 3.0 increases the paraquat back up to  
 15 360, and the emetic was increased up to  
 16 approximately 2.3 to retain the same ratio as in  
 17 Inteon and in the Gramoxone SL 2.0.  
 18 Q. So the 2.3-gram emetic to 360-gram  
 19 paraquat, in your view, is fairly proportional to  
 20 1.5 gram emetic to 240 grams of paraquat; correct?  
 21 A. Yes, sir, that is the same ratio.  
 22 Q. All right. Now, let's go back to the  
 23 meeting.  
 24 You're in May of 2019, 13 months ago.  
 25 You've had a meeting, then, with the EPA

1 representatives; correct?  
 2 A. Correct.  
 3 Q. And during the meeting, did you make a  
 4 recommendation about what they do with the  
 5 communications that they had received from  
 6 Dr. Heylings?  
 7 A. No, sir.  
 8 Q. Did you tell them -- strike that.  
 9 Had they already received  
 10 Dr. Heylings's report?  
 11 A. If so, they did not indicate that at  
 12 the meeting.  
 13 Q. What did they tell you they knew of  
 14 this issue?  
 15 A. Specifically, they indicated that they  
 16 were considering removing the requirement of  
 17 emetic in light of the requirement they were going  
 18 to put in place of using a closed system for all  
 19 products less than 120 grams per liter, because  
 20 that was viewed in the agency's eyes as a more  
 21 effective way of preventing accidental ingestions.  
 22 MR. TILLERY: Yeah, I move to  
 23 strike your answer as unresponsive.  
 24 Q. (BY MR. TILLERY) What did they tell  
 25 you they knew of the issue, the issue being the

1 answer my question? Do you know what my question  
 2 is? Let me read it back.  
 3 Did you get a call after this meeting  
 4 from Marianne Mannix or anyone else at the USEPA  
 5 indicating they had heard from Dr. Heylings?  
 6 A. I don't recall ever receiving a call  
 7 from Marianne Mannix or anyone at EPA indicating  
 8 they had received a communication from Jon  
 9 Heylings.  
 10 Q. And let's go back to the meeting  
 11 again.  
 12 Did you or Mr. Abbott take any  
 13 position regarding the accuracy of the assertions  
 14 being made by Dr. Heylings?  
 15 A. I believe the position that we took  
 16 was that we stood behind the science that  
 17 underlies the emetic.  
 18 Q. And you told them that there was  
 19 nothing wrong with any of the data; right?  
 20 A. I don't recall using those words, so I  
 21 can't say that we said that.  
 22 Q. Well, did you deny that the numbers  
 23 created by Dr. Michael Rose were altered? Did you  
 24 deny that?  
 25 MR. WEIR: Object to the scope,

1 communications with Jon Heylings? What did they  
 2 tell you they knew?  
 3 A. They did not indicate any awareness or  
 4 any communications from -- other than what I had  
 5 told them in February.  
 6 Q. And did they indicate they had  
 7 received anything in writing from Dr. Heylings?  
 8 A. I certainly do not recall them saying  
 9 that at the meeting. I don't believe they made  
 10 any references.  
 11 Q. That's all I'm looking for.  
 12 All right. So then, did Mr. Abbott  
 13 make any recommendations about this?  
 14 A. Recommendations? No.  
 15 Q. Yeah, did he tell them what he thought  
 16 they should do?  
 17 A. No, our position was that everything  
 18 that we had done and -- with respect to emetic and  
 19 paraquat, we stand by scientifically.  
 20 Q. And did you get a call after this  
 21 meeting from Marianne Mannix or anyone else at  
 22 USEPA indicating they had heard from Dr. Heylings?  
 23 A. We heard more from Dr. Heylings, I  
 24 believe, that he --  
 25 Q. Can you answer my question? Can you

1 object to the form as well.  
 2 THE WITNESS: Okay. I don't  
 3 believe we denied or confirmed anything.  
 4 Q. (BY MR. TILLERY) So you didn't say to  
 5 them that there is a former scientist who was a  
 6 well-respected member of our scientific team in  
 7 Europe who thinks that Dr. Michael Rose fabricated  
 8 information that was filed with the United States  
 9 EPA many years before, and you didn't speak to  
 10 that at the meeting? Is that what you're trying  
 11 to tell us?  
 12 A. No, sir.  
 13 MR. WEIR: Object to form.  
 14 Q. (BY MR. TILLERY) Okay. You did tell  
 15 him or you didn't?  
 16 A. We did inform them of the allegations.  
 17 Q. And did you tell them that allegation  
 18 was correct?  
 19 A. I do not believe we told them that  
 20 allegation was correct. I don't believe we think  
 21 that allegation was correct.  
 22 Q. Okay. Did you tell them that  
 23 allegation was wrong? That you had done your own  
 24 analysis, and it was wrong?  
 25 A. I cannot recall making that statement.

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1 Q. Well, I'm sorry to say this, but  
 2 you're being a little opaque right now. What I'm  
 3 trying to find out is what your communications  
 4 were. Think back. 13 months ago. Somebody's  
 5 claimed that thousands of people are dead because  
 6 of a problem with falsification of some data. Big  
 7 deal. Now, can you tell us what you remember  
 8 about the meeting and what you said?  
 9 A. Yes, sir. My understanding --  
 10 Q. All right. So what did you say?  
 11 A. To the best of my recollection, our  
 12 position was and is that certainly we acknowledge  
 13 that Mr. Heylings is alleging data was falsified.  
 14 We don't believe we agree that those data were  
 15 falsified, and we certainly believe that the data  
 16 that underlies the effectiveness of the emetic was  
 17 valid.  
 18 Q. And was this meeting ever reported  
 19 publicly? This meeting that you had with the  
 20 USEPA?  
 21 A. I do not believe this particular  
 22 meeting was reported publicly.  
 23 Q. If I went in and called Marianne  
 24 Mannix, do you think she'd talk to me?  
 25 MR. WEIR: Object to foundation.

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1 Q. (BY MR. TILLERY) Do you think she  
 2 would? Well, strike the question.  
 3 What I'm asking you is this:  
 4 Where can I find a record of your meeting on the  
 5 public website of the USEPA where you had this  
 6 little private session with all of these people at  
 7 the USEPA? How can I find a record of that?  
 8 MR. WEIR: Object to foundation,  
 9 scope.  
 10 THE WITNESS: Mr. Tillery, I do  
 11 not believe there is anything in the federal  
 12 register or in the registration review document  
 13 that talks about the specifics of that meeting at  
 14 this time.  
 15 Q. (BY MR. TILLERY) Okay. When you say  
 16 "at this time," do you think there's going to be  
 17 something?  
 18 A. The indications from Dr. Heylings, as  
 19 I understand it, is that Marianne Mannix told  
 20 him -- and this is coming from our understanding  
 21 of communications from Mr. Heylings to Syngenta --  
 22 that at some point the information he provided  
 23 would be presented on the paraquat docket.  
 24 Q. And has it been presented on the  
 25 paraquat docket in 13 months?

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1 A. I have not seen it presented on that  
 2 docket. There is a lot of information on there,  
 3 but I do not recall and do not believe it is on  
 4 there.  
 5 Q. So there is no indication that any  
 6 communication the USEPA has received from a former  
 7 scientist of Syngenta about a widely-used product  
 8 called paraquat has ever made it into the public  
 9 domain.  
 10 Is that a fair statement, sir?  
 11 MR. WEIR: Object to the form.  
 12 THE WITNESS: Okay. I would say  
 13 I'm not aware of that information in the public  
 14 domain.  
 15 Q. (BY MR. TILLERY) And have you ever  
 16 published, at Syngenta, prior to this day, in this  
 17 deposition, any indication of this private meeting  
 18 with USEPA?  
 19 A. I do not believe so.  
 20 Q. Okay. Now, afterwards you gave a  
 21 report to others about the communications; right?  
 22 A. Correct.  
 23 Q. Who did you report to?  
 24 A. It would have been the team at  
 25 Syngenta that was working on the -- responding to

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1 the allegations from Mr. Heylings. That team  
 2 involved counsel as well as Phil Botham, Andy  
 3 Cook, and other members of that group.  
 4 Q. And you told Dr. Philip Botham exactly  
 5 what happened; right?  
 6 A. We would have reported, yes. We  
 7 reported that we communicated to EPA and that we  
 8 made them aware of the information that  
 9 Mr. Heylings had alleged.  
 10 Q. And you had told them -- strike that.  
 11 And you told Dr. Botham and the other  
 12 people that you mentioned, Andy Cook as well, what  
 13 the USEPA responded to you; correct?  
 14 A. I believe that was part of the team  
 15 meeting discussions, yes.  
 16 Q. And the report you gave to them was an  
 17 accurate assessment of what happened; right?  
 18 A. Absolutely.  
 19 Q. Okay. Now, has there been any  
 20 follow-up communication with USEPA about, let's  
 21 call it the John Heylings' assertions about the  
 22 emetic in paraquat?  
 23 MR. WEIR: Object to form,  
 24 foundation.  
 25 THE WITNESS: Okay, I do not

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1 recall any additional communications with EPA on  
 2 that topic.  
 3 Q. (BY MR. TILLERY) Has there been any  
 4 communications with any other regulator in the  
 5 rest of the world that you're aware of?  
 6 MR. WEIR: Object to scope,  
 7 foundation.  
 8 THE WITNESS: I'm not aware of  
 9 my -- my focus is primarily USEPA, sir.  
 10 Q. (BY MR. TILLERY) Yeah, but are you  
 11 aware of any?  
 12 A. I am not -- I would have to defer to  
 13 the team on that, and the communications from that  
 14 team.  
 15 Q. Yeah, that's not the answer, though,  
 16 is it? That's not an answer to my question.  
 17 Are you aware of any inquiry about  
 18 Dr. Heylings' comments about the emetic in  
 19 paraquat in any other parts of the globe besides  
 20 the U.S.?  
 21 MR. WEIR: Objection --  
 22 Q. (BY MR. TILLERY) Are you aware of it  
 23 or not?  
 24 A. All I can say is that as part of our  
 25 teams, there's discussions about communications,

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1 but I cannot tell you specific dates or  
 2 communications.  
 3 Q. (BY MR. TILLERY) Okay. Now, what  
 4 else have you heard that we haven't talked about  
 5 about the emetics assertions being made by  
 6 Dr. Heylings?  
 7 A. I'm not sure I understand the  
 8 question, sir.  
 9 Q. I'm trying to find out if you've had  
 10 any other interaction on this topic that we  
 11 haven't talked about.  
 12 A. My understanding is based upon work  
 13 that Syngenta -- we have been trying to evaluate  
 14 the effectiveness of the emetic, and it's my  
 15 understanding that currently the medical community  
 16 is moving away from recommendations of emetic.  
 17 Q. That's not my question. My question  
 18 is: This topic being Jon Heylings' assertions  
 19 about the emetic, what other interaction or  
 20 information or any communication, if you had, that  
 21 we haven't previously discussed in the deposition.  
 22 A. I believe that information may be  
 23 covered under attorney-client privilege.  
 24 Certainly our --  
 25 Q. And if you have talked to your

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1 lawyers, I don't mean to include that. You can  
 2 exclude that, sir.  
 3 A. Okay. So, I'm not -- can you please  
 4 restate the question, following your advice?  
 5 Q. Right. I'm ready to move on to a new  
 6 topic in our discussion here today.  
 7 A. Okay.  
 8 Q. I want to know is there anything on  
 9 the table I should ask you about? Is there any  
 10 more you've done? Any people you've talked to,  
 11 any scientific analysis, any communications with  
 12 the EPA? Anything else that I haven't talked to  
 13 you about, about the John Heylings' assertions  
 14 about emetic in paraquat?  
 15 Understood?  
 16 A. Yes, sir. I think other than the  
 17 potential communications mentioned that the team  
 18 is having, which is with our attorneys, I can't  
 19 think of anything.  
 20 Q. Thank you, sir.  
 21 MR. WEIR: If you're going to move  
 22 to something else, do you mind if we take a short  
 23 break?  
 24 MR. TILLERY: Not at all. You  
 25 tell me when. That's fine. Let's take a short

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1 break.  
 2 THE VIDEOGRAPHER: We are going  
 3 off the record at 11:03 a.m. Eastern Time.  
 4 (Recess taken, 11:03 a.m. to  
 5 11:18 a.m. EDT)  
 6 THE VIDEOGRAPHER: We are back on  
 7 the record at 11:18 a.m. Eastern.  
 8 Q. (BY MR. TILLERY) Mr. Dixon, are you  
 9 still using at Syngenta the same emetic formula  
 10 that you've always used?  
 11 A. Yes, sir, PP796.  
 12 Q. Okay. There's been no structural  
 13 modification or change in the design of that  
 14 particular emetic formula, to your knowledge;  
 15 correct?  
 16 A. To my knowledge, no. I know it as  
 17 PP796, which is, I believe, how it's always been  
 18 referred to.  
 19 Q. Okay. And did you make Dr. Heylings  
 20 aware of your meeting with the EPA in May of 2019?  
 21 A. I do not recall if we informed him of  
 22 the meeting or not.  
 23 Q. Did you invite him to dial in to the  
 24 meeting and participate?  
 25 A. No, sir.

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1 Q. Now, let's go back, if we can, to the  
 2 CV that you've given us and go through your  
 3 background.  
 4 You received a bachelor's degree in  
 5 chemistry from the University of North Carolina,  
 6 Chapel Hill, in 1989; is that correct?  
 7 A. Yes, sir.  
 8 Q. And you received a master's degree in  
 9 chemistry the following year from the University  
 10 of North Carolina, Greensboro; right?  
 11 A. No, sir, not the following year. That  
 12 was in the year 2000.  
 13 Q. Oh, I'm sorry. It was 11 years later.  
 14 I apologize. So you received that in -- I misread  
 15 your CV. It was 11 years later you received it,  
 16 right?  
 17 A. Yes, sir.  
 18 Q. All right. What was your first  
 19 full-time employment?  
 20 A. First full-time employment was with a  
 21 company called Roche Biomedical. And that lasted  
 22 for a relatively brief period of time, I want to  
 23 say for about six months in 1989.  
 24 Q. Okay. And what did you do then?  
 25 A. I was a laboratory technician,

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1 analyzing medical samples.  
 2 Q. What did you do next?  
 3 A. Next I went to work for the University  
 4 of North Carolina at Chapel Hill in the department  
 5 of pathology. In that role, I was helping to  
 6 synthesize certain potential pharmaceutical  
 7 agents.  
 8 Q. How long did you stay in that job?  
 9 A. Approximately one year.  
 10 Q. And then?  
 11 A. And then I went to work for, in March  
 12 of 1990, for Ciba-Geigy Corporation, in the  
 13 residue chemistry department.  
 14 Q. How long were you in that job?  
 15 A. In that particular job, one year, and  
 16 then I transitioned within the same company to the  
 17 metabolism chemistry department.  
 18 Q. What were you doing in those jobs?  
 19 A. Analyzing samples to produce, in the  
 20 case of metabolism, to identify -- to isolate and  
 21 identify metabolites from applications of our  
 22 products. In that earlier role, in the residue  
 23 chemistry, to determine the magnitude of potential  
 24 residues in crops treated with our products.  
 25 Q. What was the next job you had?

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1 A. In approximately 2000, I moved into  
 2 the operator and residential safety group. And in  
 3 that role, I worked to assess people's potential  
 4 exposure to our products either through  
 5 occupational uses or through residential uses.  
 6 MR. WEIR: Steve, I don't know if  
 7 you're muted. I can't hear you.  
 8 Still nothing. Mr. Dixon, can you  
 9 hear?  
 10 THE WITNESS: I'm not hearing  
 11 Mr. Tillery, but I'm hearing other people.  
 12 THE VIDEOGRAPHER: Shall we go off  
 13 the record?  
 14 MR. WEIR: Yeah, we can go off the  
 15 record until he gets that sorted out. That's  
 16 fine.  
 17 THE VIDEOGRAPHER: We are going  
 18 off the record at 11:23 a.m.  
 19 (Recess taken, 11:23 a.m. to 11:29  
 20 a.m. EDT)  
 21 THE VIDEOGRAPHER: We are back on  
 22 the record at 11:29 a.m. Eastern.  
 23 Q. (BY MR. TILLERY) What my point was is  
 24 that your prior employment before 2000 when the  
 25 company became known as Syngenta was including

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1 associations with corporations that ultimately  
 2 ended up being a predecessor business to Syngenta;  
 3 correct?  
 4 A. Mr. Tillery, I'm sorry because the  
 5 audio broke up. I don't think I got the full  
 6 breadth of the question. Could you please just  
 7 restate that?  
 8 Q. Frankly, it's not -- we can move on.  
 9 What was your first job with the  
 10 business currently known as Syngenta?  
 11 A. We became Syngenta in 2000. And that  
 12 time frame is when I moved into what was called  
 13 our operator and residential safety group. And in  
 14 that role, I was involved with doing risk  
 15 assessments to quantify potential exposure risks,  
 16 either through occupational settings or through  
 17 residential settings.  
 18 Q. And how long were you in that job?  
 19 A. Until 2006, sir.  
 20 Q. And that's when you moved into  
 21 regulatory?  
 22 A. Yes, sir.  
 23 Q. And have you brought us up-to-date  
 24 about your regulatory experience previously?  
 25 We've talked about all of your jobs?



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1 A. Yes, sir.  
 2 Q. All right. Now, do you understand  
 3 today that you're testifying as the corporate  
 4 designee for both Syngenta AG and Syngenta Crop  
 5 Protection, LLC?  
 6 A. Yes, sir.  
 7 Q. What is the name of the entity you are  
 8 technically employed by?  
 9 A. I believe it's Syngenta Crop  
 10 Protection, LLC.  
 11 Q. Okay. For purposes of this  
 12 deposition, can we refer to both Syngenta AG and  
 13 Syngenta Crop Protection, LLC as Syngenta?  
 14 A. Yes, sir.  
 15 Q. All right. What do you understand  
 16 your role to be as the corporate designee for  
 17 Syngenta?  
 18 A. To be able to respond to a series of  
 19 questions that were identified to me, and to speak  
 20 to the best of my knowledge on the companies'  
 21 records related to those positions.  
 22 Q. You were given a number of deposition  
 23 topics, I presume; right?  
 24 A. Yes, sir.  
 25 Q. And those, for my records, show that

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1 they are topic 40, 41, 42, 43, 44, 45, 46, 48, 49,  
 2 and 63.  
 3 Is that your understanding? Do those  
 4 sound right?  
 5 A. The numbers sound right. I don't  
 6 actually have that form in front of me, but the  
 7 numbers sound generally correct.  
 8 Q. Okay.  
 9 MR. WEIR: Just for the record, it's  
 10 topic 63 with respect to the EPA and not other  
 11 regulators.  
 12 MR. TILLERY: That's correct. We  
 13 agree with that.  
 14 Q. (BY MR. TILLERY) What have you done  
 15 to prepare for the deposition?  
 16 A. So over the last several months, in  
 17 February, I had a couple of meetings with counsel.  
 18 Also was presented with witness copies that  
 19 included multiple tabs of documents that I have  
 20 read through and reviewed. I have tried to review  
 21 my e-mails and other documents to try to get an  
 22 understanding of some of the topics for which I  
 23 may not have had an understanding.  
 24 Have on, for a couple of different  
 25 topics, also asked questions of colleagues to try

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1 to increase my understanding of the topics.  
 2 Q. Who were those colleagues you talked  
 3 to?  
 4 A. Andy Cook.  
 5 Q. And why Andy Cook?  
 6 A. I was under the mistaken impression  
 7 that I would potentially be testifying with  
 8 respect to our communications in other regions  
 9 such as Brazil, and since I was not involved in  
 10 those communications, I reached out to Andy to try  
 11 to have a little bit better understanding of when  
 12 those meetings were and the nature of those  
 13 meetings.  
 14 Q. Is he the sort of go-to person in the  
 15 Syngenta umbrella of companies on the topic of  
 16 Brazil?  
 17 A. He is my counterpart in the global  
 18 regulatory and has direct communications with  
 19 Brazil on paraquat as I would have with EPA on  
 20 paraquat.  
 21 Q. And your regulatory experience  
 22 started, you said in 2006, right?  
 23 A. Yes, sir.  
 24 Q. And you were having communications  
 25 with the EPA when you started in regulatory in

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1 2006?  
 2 A. Yes, sir.  
 3 MR. WEIR: Object to the form.  
 4 Q. (BY MR. TILLERY) And would you tell  
 5 me how your job duties changed from 2006 to the  
 6 current time?  
 7 A. Yes, sir. So I started out with  
 8 responsibility for multiple herbicides including  
 9 paraquat and diquat. Over the years, I've  
 10 continued to maintain responsibilities,  
 11 regulatorily-wise for paraquat and diquat. Moved  
 12 from being a regulatory manager to a senior  
 13 regulatory manager. Essentially, that's just with  
 14 experience, being promoted to a new level. And  
 15 approximately two years ago was promoted to being  
 16 a team lead in the summer of 2017.  
 17 Q. Okay.  
 18 A. So my --  
 19 Q. Okay. Do you understand that in  
 20 testifying for Syngenta on the designated topics,  
 21 you're required to answer not based solely on  
 22 information known or available to you personally,  
 23 but also based on information known or reasonably  
 24 available to Syngenta? Do you understand that?  
 25 A. Yes, sir.

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1 Q. And did you take that into account in  
 2 preparing to testify on the designated topics?  
 3 A. Yes.  
 4 Q. Okay. Did you also understand that in  
 5 testifying for Syngenta on the designated topics,  
 6 the matters on which you are required to testify  
 7 are not limited to the period since the formation  
 8 of Syngenta but cover the entire period from the  
 9 discovery of the herbicidal effect of paraquat in  
 10 the 1950s through the present time? Did you  
 11 understand that?  
 12 A. Yes.  
 13 Q. Did you take that into account in  
 14 preparing to testify today?  
 15 A. Yes, sir.  
 16 Q. And did you understand that in  
 17 preparing for the testimony in this case, that the  
 18 designated topics would include the knowledge and  
 19 actions with respect to Syngenta's predecessors in  
 20 the paraquat business, the Zeneca, Empirical  
 21 Chemical Industries, other companies and their  
 22 subsidiaries? Did you understand that?  
 23 A. I understand that, yes.  
 24 Q. All right. Was there any other person  
 25 that you spoke to in preparation for your

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1 testimony?  
 2 A. I spoke to our Canadian colleague,  
 3 Anna Shulkin, trying to find out if and when we  
 4 had meetings with PMRA. I have not heard back  
 5 from her on that. She was going to let me know.  
 6 But that was, as I stated a bit earlier, I was  
 7 under the impression that I was perhaps covering  
 8 other regions other than the U.S.  
 9 Q. Were there other employees that you  
 10 have omitted that you spoke to in preparation  
 11 other than the lawyers who represent you?  
 12 A. The two lawyers on the call and one  
 13 other lawyer, Alan Nadel.  
 14 Other than that, no.  
 15 Q. Are there any other employees of other  
 16 entities, not affiliated with Syngenta, that  
 17 you've spoken to in preparation for this  
 18 deposition?  
 19 A. No, sir.  
 20 Q. Okay.  
 21 A. Dr. Tillery, I'd like to make one -- I  
 22 just recalled something that I would like to  
 23 mention to you.  
 24 Q. Okay.  
 25 A. I'm not sure if it's relevant to your

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1 question, but in trying to understand what  
 2 potential 6(a)(2) communications that we may have  
 3 had, I did reach out to our 6(a)(2) person,  
 4 Christina Lovingood, and initially had requested  
 5 her to potentially provide me with a list.  
 6 However, I was able to access our team space and  
 7 was able to do it directly, so ultimately I told  
 8 her I did not need a list.  
 9 Q. And what is her last name? How is it  
 10 spelled?  
 11 A. Lovingood, L-O-V-I-N-G-O-O-D.  
 12 Q. And what is her title?  
 13 A. I do not know her specific title. I  
 14 do know her role is when we do do 6(a)(2)  
 15 submissions, she is the one that actually submits  
 16 it to EPA, through Federal Express.  
 17 Q. Do you have the list of 6(a)(2)  
 18 submissions that you've made?  
 19 A. As far as there is -- I could create a  
 20 list, an Excel sheet or something. I do not have  
 21 one readily on me. We do have records --  
 22 Q. Sorry, go ahead. Finish your answer.  
 23 A. Yes, sir. I'm sure I do have Excel  
 24 files, and actually copies of 6(a)(2) submissions  
 25 in my records.

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1 Q. And that would include all of the  
 2 6(a)(2) submissions with respect to paraquat as  
 3 well; right?  
 4 A. That should. We maintain a 6(a)(2)  
 5 team space with those records, and so I would  
 6 assume every one is in there.  
 7 Q. Have you consulted that database in  
 8 preparation for the deposition?  
 9 A. Yes, sir.  
 10 Q. And have you looked at the 6(a)(2)s  
 11 that were filed with respect to paraquat?  
 12 A. I did. Certain 6(a)(2)s. There is  
 13 6(a)(2)s that are associated with fatalities. I  
 14 did not go through those. But I did refer to the  
 15 6(a)(2)s relevant to the topic of the deposition.  
 16 Q. How many fatalities are reported on  
 17 the 6(a)(2)s?  
 18 MR. WEIR: Object to the scope.  
 19 THE WITNESS: I do not have a  
 20 specific number. I would say that our 6(a)(2)  
 21 database from Syngenta onward, which would be  
 22 2001, has records that we're required under FIFRA  
 23 6(a)(2) to submit. I believe there were  
 24 submissions going even back into the mid '80s that  
 25 I don't know. If you were to ask it, I just can't

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1 give you a specific number, sir.  
 2 Q. What is the database called where the  
 3 6(a)(2)s are housed?  
 4 MR. WEIR: Object to the scope.  
 5 THE WITNESS: I believe it's  
 6 referred to as the PRF team space.  
 7 Q. (BY MR. TILLERY) You said the PRF  
 8 team space?  
 9 A. Yes, sir.  
 10 Q. And that's the potentially referable  
 11 finding space?  
 12 A. Yes, sir.  
 13 Q. And it's filed under the group that  
 14 considers potentially referable findings to the  
 15 USEPA?  
 16 MR. WEIR: Object to the scope  
 17 again.  
 18 THE WITNESS: So my answer is that  
 19 that is the repository where those considerations  
 20 are maintained, yes.  
 21 So the group that is involved in  
 22 the 6(a)(2) committee has access to that space.  
 23 Q. (BY MR. TILLERY) Does that collection  
 24 of documents also include all of the submissions  
 25 to the committee, whether or not they were

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1 reportable 6(a)(2) statements?  
 2 Do you understand my question?  
 3 MR. WEIR: Can I just get a  
 4 standing objection with respect to the actual  
 5 discussion of the team space itself?  
 6 MR. TILLERY: I -- of course. I  
 7 don't understand. He's designated on this exact  
 8 topic. I don't know what you mean by scope.  
 9 MR. WEIR: I'm objecting to the  
 10 scope with respect to the document practices or  
 11 the scope of the team space itself. I know he's  
 12 been designated on topics with respect to the  
 13 location --  
 14 MR. TILLERY: Yeah, and just for  
 15 the record for the Court, if we end up going that  
 16 route, I mean, there's a topic, No. 63, that  
 17 appears to be on point with respect to the USEPA.  
 18 But I'll consent to a continuing objection on the  
 19 topic so that you don't have to keep making this  
 20 objection.  
 21 Q. (BY MR. TILLERY) Let me start over  
 22 with my question, Mr. Dixon.  
 23 Is there a place that -- a  
 24 database in Syngenta's records, corporate records,  
 25 where potentially referable findings with respect

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1 to paraquat as an active ingredient or any formula  
 2 or any added product including emetics, anything  
 3 connected with it that could ultimately wind up as  
 4 a 6(a)(2) reporting event is housed?  
 5 MR. WEIR: Object to the  
 6 foundation.  
 7 THE WITNESS: Okay. We maintain a  
 8 file room. And in the file room, there is a  
 9 record of the submissions as well as events that  
 10 were considered but not deemed reportable.  
 11 Q. (BY MR. TILLERY) Where is that file  
 12 room?  
 13 A. It is in our Greensboro location,  
 14 second floor of F building.  
 15 Q. Second floor, F building?  
 16 A. Yes, sir.  
 17 Q. Okay. Who is the custodian of those  
 18 records?  
 19 A. As far as the custodian of the records  
 20 or the file room itself is Kim Clark I guess  
 21 maintains the overall responsibility before it  
 22 goes into the file room. Our 6(a)(2) committee  
 23 is, Nina Heard is the effective leader of that  
 24 group.  
 25 Q. And who is on your 6(a)(2) committee?

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1 A. The membership changes over time.  
 2 Typically, Brian Reeve is a member. Typically,  
 3 John Abbott is a member, and then depending on the  
 4 topic, other stakeholders are brought in with  
 5 relevance to the considerations.  
 6 Q. And what is the purpose of the 6(a)(2)  
 7 meeting? Strike that.  
 8 What is the purpose of the 6(a)(2)  
 9 group?  
 10 A. The purpose of the 6(a)(2) group is to  
 11 evaluate the recommendations from the PRF  
 12 committee. And if the recommendations are deemed  
 13 relevant for a 6(a)(2) submission, that  
 14 determination is made and the submission is made.  
 15 Q. Are you a member of this 6(a)(2)  
 16 meeting group yourself?  
 17 A. It depends on which topics. There are  
 18 topics that if it's a molecule that I am  
 19 responsible for, I am often involved in those  
 20 meetings.  
 21 Q. Let's say paraquat.  
 22 A. I would have been involved in 6(a)(2)  
 23 committee meetings for paraquat.  
 24 Q. For how long?  
 25 A. Starting probably in 2006 and '7, once

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1 I took responsibility. I was not necessarily a  
 2 driving member, but a part -- a member of the  
 3 committee.  
 4 Q. Okay. And who has been on those  
 5 committees since that time, throughout, say, 2006,  
 6 that you remember?  
 7 And I'm talking about the 6(a)(2)  
 8 FIFRA group meeting.  
 9 A. Sure. Tim Pastoor, John Abbott, Nina  
 10 Heard.  
 11 I'm sorry, I'm just in my -- it's  
 12 been so many years, I'm just trying to remember  
 13 the different personnel that may have been on  
 14 those committees. They may have included Fernando  
 15 Suarez, may have included Dan Minima.  
 16 And depending on the topic,  
 17 relevant product safety scientists; the last two  
 18 gentlemen I mentioned were toxicologists.  
 19 Q. Have you ever had a situation where --  
 20 occur where the PRF committee has recommended that  
 21 no report be made to the USEPA under 6(a)(2), but  
 22 the 6(a)(2) committee in the United States has  
 23 overridden that decision, all with respect to  
 24 paraquat?  
 25 A. I do not recall --

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1 MR. WEIR: Objection.  
 2 THE WITNESS: -- a circumstance  
 3 such as that.  
 4 Q. (BY MR. TILLERY) Has there ever been  
 5 a time with respect to paraquat where the 6(a)(2)  
 6 committee has gone a different direction than the  
 7 recommendations of the PRF committee?  
 8 MR. WEIR: Object to the scope.  
 9 THE WITNESS: I do not recall such  
 10 a time.  
 11 Q. (BY MR. TILLERY) As far as you  
 12 recall, the 6(a)(2) committee has always followed  
 13 the recommendations with respect to paraquat by  
 14 the PRF committee; correct?  
 15 MR. WEIR: Same objection.  
 16 THE WITNESS: As far as I recall,  
 17 I would say yes.  
 18 Q. (BY MR. TILLERY) Has there ever been  
 19 a time when the 6(a)(2) committee has, on its own,  
 20 without reference to any PRF committee, filed a  
 21 6(a)(2) document with respect to paraquat?  
 22 MR. WEIR: Same objection.  
 23 THE WITNESS: I believe -- there's  
 24 one situation where I think may fit the  
 25 circumstances you're describing, Mr. Tillery, and

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1 that would have been our informing the EPA of this  
 2 litigation.  
 3 Q. (BY MR. TILLERY) When did you do  
 4 that?  
 5 A. I believe in January of 2019.  
 6 Q. And what did you tell them about this  
 7 litigation?  
 8 A. My recollection is that there were --  
 9 we were subject to litigation; I believe we were  
 10 informed in December of 2018. I believe it  
 11 identified two different plaintiffs groups, if I'm  
 12 remembering correctly, and that we communicated  
 13 that to EPA under the 6(a)(2) provisions.  
 14 Q. That's what I'm trying to find out.  
 15 What did you say about the case?  
 16 MR. WEIR: Object.  
 17 THE WITNESS: My recollection is  
 18 we informed the agency of pending litigation on  
 19 paraquat. I don't know how much further it went  
 20 beyond informing of potential litigation and  
 21 identifying the two groups.  
 22 Q. (BY MR. TILLERY) And you did that in  
 23 the context of a 6(a)(2) notice?  
 24 A. Yes, sir.  
 25 Q. And under what section of FIFRA did

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1 you believe there was a requirement for a 6(a)(2)  
 2 notification of the lawsuit?  
 3 MR. WEIR: I'll object to the  
 4 scope. And, Steve, can I just expand my standing  
 5 objections to any questioning with respect to PRFs  
 6 and 6(a)(2)?  
 7 MR. TILLERY: Yes.  
 8 MR. WEIR: Thank you.  
 9 THE WITNESS: So in response to,  
 10 that, it would have been guidance provided by the  
 11 6(a)(2) committee working with our counsel.  
 12 Q. (BY MR. TILLERY) But you don't know  
 13 which section of FIFRA they were relying upon by  
 14 making a 6(a)(2) report of the lawsuit; right?  
 15 A. I cannot quote you that section of  
 16 FIFRA, no, sir.  
 17 Q. Okay. What is the Federal  
 18 Insecticide, Fungicide, and Rodenticide Act?  
 19 FIFRA for short.  
 20 A. Yes, sir. I believe it was passed in  
 21 1948. It is the series of statutes and laws that  
 22 govern -- one of the sets of laws that govern the  
 23 registration and distribution of pesticides in the  
 24 United States.  
 25 Q. Syngenta is familiar with Section

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1 6(a)(2) of FIFRA, isn't it?  
 2 A. Yes, sir.  
 3 Q. And can you, in general terms, tell  
 4 the ladies and gentlemen of the jury what that  
 5 means?  
 6 A. Yes, sir. So within the provisions of  
 7 FIFRA 6(a)(2), if a registrant becomes aware of a  
 8 new potentially adverse finding either in a study,  
 9 might be one particular situation, they are  
 10 obligated to notify the EPA. There are other  
 11 reporting obligations such as if there is a  
 12 potential event, a B loss event, potential  
 13 injuries have to be reported on a monthly basis.  
 14 If there is a fatality. So there are certain  
 15 criteria that if the registrant becomes aware of,  
 16 they're obligated to inform the EPA through the  
 17 6(a)(2) process.  
 18 Q. So let's take a look at FIFRA 6(a)(2),  
 19 which is cited as 7 United States Code Section  
 20 136d(a)(2). And just take a look at that on the  
 21 screen. We'll pull that up for you.  
 22 We're going to refer to this as  
 23 Exhibit No. 1.  
 24 MR. WEIR: Steve, can I also get a  
 25 standing objection to any questions that are going

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1 to ask for a legal interpretation of the 6(a)(2)  
 2 regulations?  
 3 MR. TILLERY: Yes.  
 4 MR. WEIR: Thank you.  
 5 (Dixon Deposition Exhibit 1  
 6 marked.)  
 7 Q. (BY MR. TILLERY) This is Dixon  
 8 Exhibit No. 1.  
 9 Do you see that, sir?  
 10 A. Yes, sir.  
 11 Q. And this is the FIFRA 6(a)(2) section  
 12 you were talking about, isn't it?  
 13 A. May I read it for a second, please,  
 14 sir?  
 15 Q. Absolutely. Take your time.  
 16 A. Thank you.  
 17 [Document review.]  
 18 A. Okay, sir, I'm ready.  
 19 Q. And this creates, this document and  
 20 the law or regulations set out in it, creates a  
 21 reporting obligation for pesticide registrants,  
 22 doesn't it?  
 23 A. Yes, sir.  
 24 Q. And to whom must a registrant report  
 25 information?

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1 A. It is reported to the EPA, sir.  
 2 Q. And that's to the administrator;  
 3 right?  
 4 A. Yes, sir. If that's the definition,  
 5 we address it to EPA. I don't believe we address  
 6 it to the acting administrator.  
 7 Q. All right. And Syngenta itself is a  
 8 registrant under FIFRA with respect to some of its  
 9 pesticide products, isn't it?  
 10 A. Yes, sir.  
 11 Q. And that certainly includes paraquat,  
 12 doesn't it?  
 13 A. Yes, sir.  
 14 Q. And that would include the components  
 15 formulated products of paraquat as well, wouldn't  
 16 it?  
 17 A. Yes, sir.  
 18 Q. All right. 6(a)(2) requires pesticide  
 19 registrants, like Syngenta, to report  
 20 information -- I'm quoting -- regarding  
 21 unreasonable adverse effects on the environment of  
 22 the pesticide; doesn't it?  
 23 A. Yes, sir, that's what that says.  
 24 Q. And it says: An adverse effect is  
 25 defined to include any unreasonable risk to man or

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1 the environment, taking into account the economic,  
 2 social, and environmental costs and benefits of  
 3 the use of the pesticide; right?  
 4 MR. WEIR: Object to the form.  
 5 Are you reading from a different document now?  
 6 MR. TILLERY: I'm asking him if  
 7 that's what this means.  
 8 MR. WEIR: Okay.  
 9 Q. (BY MR. TILLERY) Do you understand  
 10 that to be the reporting obligation?  
 11 A. Will you please restate that,  
 12 Mr. Tillery?  
 13 Q. Yeah, let's look at 557, if you'd pull  
 14 that up.  
 15 (Dixon Deposition Exhibit 2  
 16 marked.)  
 17 Q. (BY MR. TILLERY) And this will be  
 18 Dixon Exhibit No. 2.  
 19 A. I am opening it.  
 20 Q. For the record, this is 7 USC Section  
 21 136(bb).  
 22 A. Okay. I'd like to read this real  
 23 quickly, sir.  
 24 Q. Of course.  
 25 [Document review.]

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1 A. Okay, I'm ready for your question,  
 2 sir.  
 3 Q. All right. So my question simply is,  
 4 is that FIFRA imposes on the registrant the duty  
 5 to keep the administrator informed of the  
 6 registrant's pesticide projects; right?  
 7 MR. WEIR: Object to the form.  
 8 THE WITNESS: I concur with your  
 9 statement.  
 10 Q. (BY MR. TILLERY) In other words,  
 11 because of the number of chemical companies and  
 12 the thousands and thousands of chemicals, it would  
 13 be impossible for the USEPA or any regulatory body  
 14 to police those companies and those products on  
 15 their own; correct?  
 16 A. I would agree with that, sir.  
 17 Q. And that means it's an affirmative  
 18 obligation, where the person or company  
 19 responsible for that chemical that's subject to  
 20 the FIFRA regulation has an affirmative obligation  
 21 to come to the EPA and tell them this information;  
 22 right?  
 23 MR. WEIR: Object to the form.  
 24 THE WITNESS: I would agree that  
 25 if it is deemed to be an unreasonable effect or as

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1 a role-out of the chemical, the registrant does  
 2 have an obligation to make that communication.  
 3 Q. (BY MR. TILLERY) And when you say  
 4 it's deemed to be an unreasonable effect, deemed  
 5 to be by whom?  
 6 A. Well, we have a process in which we  
 7 evaluate these -- the information presented, and  
 8 to determine whether or not the information  
 9 qualifies as a 6(a)(2). There are certain other  
 10 provisions of 6(a)(2), for example, that might  
 11 actually say something does not qualify for  
 12 submission.  
 13 Q. Well, what I'm saying to you is simply  
 14 this: You have an affirmative obligation to  
 15 follow these rules and the regulations and the  
 16 definitions in FIFRA, don't you?  
 17 A. Yes, sir, we are obliged to follow and  
 18 comply with FIFRA.  
 19 Q. And you understand you can't come up  
 20 with some internal definitions that are contrary  
 21 to the intent and focus of FIFRA and use those as  
 22 a means of avoiding reporting information that  
 23 would otherwise be reportable.  
 24 MR. WEIR: Object to the form.  
 25 THE WITNESS: My understanding is

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1 that within the confines of 6(a)(2), there are  
 2 reporting requirements and that the company -- in  
 3 this case, Syngenta, it's been my experience,  
 4 evaluates all of the criteria associated with  
 5 reports; and when they deem that these comply with  
 6 our understanding of FIFRA requirements, we make  
 7 the submission.  
 8 MR. TILLERY: Let's move to strike  
 9 that and go back to my question.  
 10 Q. (BY MR. TILLERY) My simple question  
 11 is this: Syngenta can't come up with its own  
 12 definitions to counter the reporting obligations  
 13 of FIFRA.  
 14 Would you agree with that?  
 15 A. I would agree that Syngenta cannot  
 16 come up with its own definitions.  
 17 Q. Syngenta has to follow the law, not  
 18 its -- some other internal set of rules that it  
 19 adopts; it has to follow FIFRA; right?  
 20 MR. WEIR: Object to form.  
 21 THE WITNESS: Yes.  
 22 Q. (BY MR. TILLERY) Can you answer my  
 23 question?  
 24 A. Yes, sir, Syngenta follows FIFRA.  
 25 Q. Okay. And it can't come up, for

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1 example, with a definition of relevance that runs  
 2 counter to the law of FIFRA and thereby say, well,  
 3 we're following our own rules, we didn't think it  
 4 was relevant.  
 5 Would you agree with that?  
 6 MR. WEIR: Object to the form.  
 7 THE WITNESS: Syngenta does not  
 8 have definitions of its own that are counter to  
 9 FIFRA. It operates within its understanding of  
 10 the FIFRA 6(a)(2) requirements.  
 11 Q. (BY MR. TILLERY) Well, you keep  
 12 saying within its understanding and forgive my  
 13 level of queasiness about that. What I want to  
 14 make sure is that you don't have a set of rules  
 15 that are counter to the fair reading of FIFRA.  
 16 Do you understand?  
 17 A. I understand.  
 18 Q. All right. So you agree with me that  
 19 Syngenta cannot create its own set of definitions  
 20 or rules that are antagonistic to its reporting  
 21 duties and obligations under FIFRA; correct?  
 22 A. I agree.  
 23 MR. WEIR: Object to form.  
 24 Q. (BY MR. TILLERY) All right. Okay.  
 25 All right.

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1 A. I was going to say, and then I spoke  
 2 too quickly and Tom cut --  
 3 Q. Yeah, he -- the reporter got your  
 4 answer.  
 5 A. Okay.  
 6 Q. Now, do you understand that if you  
 7 don't file reports that are required under FIFRA,  
 8 it's a criminal violation?  
 9 A. I understand that if Syngenta did not  
 10 comply with the reports under FIFRA, that would be  
 11 a violation.  
 12 Q. I didn't say that, I said a criminal  
 13 violation.  
 14 MR. WEIR: Object on foundation.  
 15 THE WITNESS: I concede or  
 16 understand what you're saying, and I agree that if  
 17 you do not follow the requirements of FIFRA  
 18 6(a)(2), that it would be a criminal violation.  
 19 (Dixon Deposition Exhibit 3  
 20 marked.)  
 21 Q. (BY MR. TILLERY) Let's go to Dixon  
 22 Exhibit No. 3.  
 23 Please let me know when you've had  
 24 a chance to review deposition Exhibit No. 3.  
 25 A. Yes, sir.

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1 [Document review.]  
 2 A. I have read it.  
 3 Q. And you are aware of this statute as  
 4 well; right?  
 5 A. This is my first time reading it, but  
 6 I acknowledge what it says.  
 7 Q. And this is not a new concept to you;  
 8 right?  
 9 A. No, sir.  
 10 Q. All right. You understand, at  
 11 Syngenta, that if you falsify, conceal, or cover  
 12 up material facts with respect to your dealings  
 13 with the executive, legislative, or judicial  
 14 branch of the United States government, that it's  
 15 a crime; right?  
 16 MR. WEIR: Object to the form and  
 17 foundation.  
 18 Q. (BY MR. TILLERY) You know that?  
 19 A. That's clearly what's stated right  
 20 here.  
 21 Q. And if you make a materially false,  
 22 fictitious, or fraudulent statement or  
 23 representation to those branches of the U.S.  
 24 government, it's a crime, right?  
 25 MR. WEIR: Same objections.

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1 THE WITNESS: That is what this  
 2 statute says.  
 3 Q. (BY MR. TILLERY) And if you make or  
 4 use any false writing or document knowing that  
 5 that document contains materially false,  
 6 fictitious, or fraudulent statements to any of  
 7 these branches of the U.S. government, that's a  
 8 crime; right?  
 9 MR. WEIR: Same objections.  
 10 THE WITNESS: I agree that that's  
 11 what this statute says.  
 12 Q. (BY MR. TILLERY) And that's  
 13 information that Syngenta has known about since  
 14 this statute has been passed; correct?  
 15 MR. WEIR: Objection --  
 16 THE WITNESS: I would agree with  
 17 that statement.  
 18 MR. TILLERY: All right. Let's  
 19 look at No. 4.  
 20 (Dixon Deposition Exhibit 4  
 21 marked.)  
 22 THE WITNESS: I'm reading the  
 23 document.  
 24 MR. TILLERY: Okay. Thank you,  
 25 sir.

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1 THE WITNESS: Yes, sir.  
 2 [Document review.]  
 3 THE WITNESS: Okay, sir, I have  
 4 read it.  
 5 Q. (BY MR. TILLERY) You're familiar with  
 6 this particular section of FIFRA as well, aren't  
 7 you?  
 8 A. Yes, sir.  
 9 Q. Right?  
 10 And Exhibit 4 is 40 C.F.R. Section  
 11 159.158, and it's entitled What Information Must  
 12 Be Submitted.  
 13 Do you understand that?  
 14 A. Yes, sir.  
 15 Q. And it says -- strike that.  
 16 What is your understanding of the  
 17 purpose for the EPA requirement that a registrant  
 18 report relevant conclusions or opinions of a  
 19 person employed or retained directly or indirectly  
 20 by the registrant?  
 21 MR. WEIR: Object to the  
 22 foundation.  
 23 MR. TILLERY: That's No. 1.  
 24 THE WITNESS: Okay. My -- would  
 25 you please restate that, Mr. Tillery?

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1 Q. (BY MR. TILLERY) Sure. What is your  
 2 understanding -- when I say "you" in this  
 3 deposition, I don't mean Montague, I mean  
 4 Syngenta. You're speaking for Syngenta, and you  
 5 are, for purposes of these topics, Syngenta today.  
 6 Do you understand that, sir?  
 7 A. Yes, sir.  
 8 Q. All right. So let me ask you: What  
 9 is your understanding of the purpose for the EPA  
 10 requirement that a registrant report relevant  
 11 conclusions or opinions of a person "employed or  
 12 retained directly or indirectly by the  
 13 registrant"?  
 14 MR. WEIR: Object to the  
 15 foundation.  
 16 THE WITNESS: It's my  
 17 understanding that the purpose of that is to  
 18 ensure that the agency receives relevant  
 19 information as they continue to evaluate or for  
 20 the -- their understanding of the risk associated  
 21 with a registered product.  
 22 Q. (BY MR. TILLERY) Well, let me --  
 23 MR. WEIR: Sorry, Steve, I do just  
 24 want to state for the record, since I have a  
 25 standing scope objection on this, it is our

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1 position for the record that Mr. Dixon is  
 2 testifying based on his personal knowledge and not  
 3 on behalf of Syngenta with respect to these.  
 4 MR. TILLERY: Well, I mean, if  
 5 you're trying to pull him from the topic that he's  
 6 been assigned, on the USEPA, he is the only  
 7 witness that you have designated on the USEPA.  
 8 Are you aware of any others?  
 9 And if you are, please state that  
 10 on the record.  
 11 MR. WEIR: No, I am not pulling  
 12 him from --  
 13 MR. TILLERY: He's the only one.  
 14 MR. WEIR: I let you speak, Steve,  
 15 please let me speak. For the record, I am not  
 16 pulling him from our designation for topic 63 with  
 17 respect to the EPA. There were numerous other  
 18 topics with respect to PRFs, with respect to  
 19 6(a)(2), and we designated Dr. Phil Botham on  
 20 those documents, and you spent extensive time  
 21 questioning him on that.  
 22 So I am objecting to the scope of  
 23 this questioning, and I am making my record that  
 24 this topic is outside of what we've designated  
 25 Mr. Dixon for. And it is our position that he is

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1 testifying based on his personal knowledge and not  
 2 on behalf of Syngenta.  
 3 MR. TILLERY: Yeah, for the Court,  
 4 so we can leave this record where it is and have a  
 5 way for the Court to understand why the parties  
 6 have such a difference, it's -- it may be  
 7 strategic to have somebody speak on the 6(a)(2)  
 8 and PRF committees but then not on the agency  
 9 itself and stop that discussion, and then  
 10 simultaneously have somebody talk about the agency  
 11 reporting but not talk about the things leading up  
 12 to it.  
 13 So effectively, the strategem  
 14 would be, you curtailed the substance of the  
 15 entire questioning of any one person. And that  
 16 obviously isn't going to fly, because in order for  
 17 Mr. Dixon to speak to the reporting obligations  
 18 under the topic with respect to the USEPA, he  
 19 can't do it in a vacuum. He has to do it in the  
 20 context of the rules that govern those  
 21 communications, for which you agree he's been  
 22 designated.  
 23 So as a consequence, I think you  
 24 can take it up, you can -- I'll agree to your  
 25 continuing objection, but it's clear that he has

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1 to talk about and understand these topics in order  
 2 to talk to us about the topics he's designated  
 3 for.  
 4 Do you have anything else?  
 5 MR. WEIR: I disagree with that,  
 6 but I think we've both made our record.  
 7 MR. TILLERY: Okay. That's fine.  
 8 Let's move on.  
 9 Q. (BY MR. TILLERY) I heard what you  
 10 said, sir, but I want to ask if you understand the  
 11 reason for the inclusion of that section which is  
 12 in parentheses No. 1 is that the conclusions or  
 13 opinions of a registrant's own employee would  
 14 carry added significance when the adverse  
 15 conclusion or opinion is against the registrant's  
 16 own commercial interests?  
 17 Do you understand that?  
 18 A. I'm not sure --  
 19 MR. WEIR: Objection to  
 20 foundation, please.  
 21 THE WITNESS: Mr. Tillery, would  
 22 you please restate your last point?  
 23 MR. TILLERY: Okay. Would you  
 24 read back? We have got your objection on the  
 25 record, but it's -- it's interfering -- you're



1 now -- we've got continuing objections on  
2 everything. You're continuing to interfere with  
3 the deposition.

4 So I -- if -- let's read back the  
5 question to the witness. Your objections are  
6 noted, Counsel.

7 (Whereupon, the following  
8 testimony was read by the court reporter.)

9 "QUESTION: I heard what you said,  
10 sir, but I want to ask if you understand the  
11 reason for the inclusion of that section which is  
12 in parenthesis No. 1 is that the conclusions or  
13 opinions of a registrant's own employee would  
14 carry added significance when the adverse  
15 conclusion or opinion is against the registrant's  
16 own commercial interests?"

17 Do you understand that?

18 (End of readback.)

19 THE WITNESS: Okay. My answer  
20 was -- to that -- thank you for reading that  
21 back -- is I do not agree that the information  
22 retained or gained by an employee, they would be  
23 most likely certainly to hear it if they are the  
24 registrant. I do not believe that it is tied to  
25 commercial interest. At least as it's written.

1 Q. (BY MR. TILLERY) Well, are you -- do  
2 you think you can ignore 40 C.F.R. 159.158(a)(1)?

3 MR. WEIR: Object to the form.

4 THE WITNESS: Yeah, I'm certainly  
5 not saying that. I'm just saying that's not, from  
6 my understanding and my -- it's not tied to  
7 commercial interest. It's if you have adverse  
8 information, then that's where the statute is,  
9 it's based upon the information, not a relevance  
10 to commercial interest.

11 Q. (BY MR. TILLERY) Right. Relevance  
12 isn't involved in that aspect, is it, sir?

13 A. In the context of your question, as I  
14 understood it, you were saying that this had a  
15 commercial relevance, and I was just saying the  
16 statute itself is just speaking specifically about  
17 information.

18 Q. So you understand that if this type of  
19 information that's described under General comes  
20 from a person who is employed or retained from the  
21 registrant, it should be reported. That's what  
22 section 159.158 says; right?

23 A. If it fits within the reporting  
24 requirements, it should be reported.

25 You -- for example, if you look at

1 No. 3, it could be that the employee has  
2 information that a qualified expert does not  
3 believe is valid information. So you could have  
4 that situation where 1 and 3 are in contradiction  
5 to each other.

6 Q. And both of them are such as to  
7 require reporting, aren't they?

8 A. I'm not sure that if No. 3, a  
9 qualified expert, determines the information in  
10 No. 1 is not valid, legitimate, or scientifically  
11 factual, if there would still be a reporting  
12 requirement.

13 Q. So let's make sure we understand. You  
14 understood 40 C.F.R. 159.158 to have three parts  
15 under A, right?

16 A. Yes, sir, I see that.

17 Q. Okay. And there is an EPA requirement  
18 that the registrant report relevant conclusions or  
19 opinions of a person who is a qualified expert as  
20 described under Section 159.153(b), that's at  
21 No. 3; right?

22 A. Yes, sir.

23 Q. And they also have to report  
24 information from whom the registrant requested the  
25 opinion or conclusions in question. In other

1 words, if you sought information from some people  
2 and got that information, you'd have to report  
3 that as well; right?

4 MR. WEIR: Object to the form.

5 THE WITNESS: It's my  
6 understanding that if a registrant becomes aware  
7 of adverse information, a new study result or a  
8 new study finding, there is a reporting  
9 obligation.

10 Q. (BY MR. TILLERY) Okay. And is there  
11 any change in their reporting obligation by virtue  
12 of these three different described sources under  
13 Section 159.158?

14 MR. WEIR: Object to the form.

15 THE WITNESS: I can tell you from  
16 my experience, with respect to your question, sir,  
17 that we have a committee that because of these, I  
18 guess, considerations, goes through and determines  
19 whether or not the information reaches that  
20 threshold. And once it does, it's submitted.

21 As far as the mechanics behind it,  
22 that's why we have a committee that does that  
23 evaluation.

24 Q. (BY MR. TILLERY) Well, here's what  
25 I'm saying. Let's assume that you make a

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1 determination from looking at some science or  
 2 report about paraquat, that it's not relevant to  
 3 the assessment of risks or benefits, and you're  
 4 not going to report it. Okay?  
 5 Do you understand that?  
 6 A. If I'm following you, it might be a  
 7 situation, for example, just to make sure I'm  
 8 following you, Mr. Tillery. If there is  
 9 information that comes to a registrant's awareness  
 10 but that it's already in the public domain and  
 11 it's not new information, are you saying there's  
 12 still a reporting requirement to report understood  
 13 information already?  
 14 Q. Right, and that's a perfect example.  
 15 Let's use your example. And let's say that you  
 16 reached the conclusion that it's already in the  
 17 public domain; therefore, we don't have to report  
 18 it.  
 19 Are we with each other now?  
 20 A. So, yes, we're -- the example I'm  
 21 thinking of or the type of information, if the EPA  
 22 is already aware of information, you're not  
 23 obligated to report duplicative information, is my  
 24 understanding.  
 25 Q. Okay. So let's assume that's the fact

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1 pattern we're working off of.  
 2 You have some information about  
 3 scientific studies that's come into your hands,  
 4 and you deem that it's already in the public  
 5 domain, or the public scientific information, and  
 6 you don't have a reporting obligation.  
 7 Are we okay up to that point?  
 8 MR. WEIR: Object to the form.  
 9 THE WITNESS: I guess my answer on  
 10 that is --  
 11 Q. (BY MR. TILLERY) I'm just asking if  
 12 you understand my question.  
 13 A. Okay.  
 14 Q. This is not the question. I'm  
 15 asking -- I used your example.  
 16 A. Yes, sir.  
 17 Q. Okay. Now, does that decision change  
 18 or is it reevaluated if the source of that  
 19 information is a person employed or retained  
 20 directly or indirectly by the registrant?  
 21 A. I'm trying to think through your  
 22 question and make sure I fully understand it.  
 23 Give me just a second, please.  
 24 So if an employee comes across new  
 25 information, they're clearly -- there is the

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1 reporting obligation.  
 2 If it's not new information, I  
 3 don't believe there is a reporting obligation.  
 4 Q. So what I told you to assume is your  
 5 own fact pattern, and that is that Syngenta  
 6 determined that the scientific information that it  
 7 had was already in the public domain and did not  
 8 need to report it.  
 9 That's what you said; correct?  
 10 A. I said that in the context of  
 11 information EPA was already aware of.  
 12 Q. Okay. Or at least charged with  
 13 knowledge of; right?  
 14 A. That EPA should have had knowledge of  
 15 or had awareness of.  
 16 Q. All right. Now, does it change that  
 17 decision-making process if the source of that  
 18 information was from a person who was employed or  
 19 retained directly or indirectly by the registrant?  
 20 A. I'm not sure I know the answer to  
 21 that, sir.  
 22 Q. Okay. Does it change the decision  
 23 about reporting obligations of the fact pattern  
 24 you told us if the source was from somebody that  
 25 Syngenta requested an opinion or conclusion from

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1 under B, or 2?  
 2 A. Under B? Okay.  
 3 MR. WEIR: Object to the form.  
 4 THE WITNESS: So this is a  
 5 situation, just to make sure I'm following the  
 6 question, where we've requested an opinion from  
 7 somebody. The opinion is information new or  
 8 unknown by EPA, then is there an obligation --  
 9 Q. (BY MR. TILLERY) No. No, you said --  
 10 your fact pattern, let's not change horses here;  
 11 we're in midstream. We're going good. Let's stay  
 12 with it.  
 13 And that is you said this  
 14 information was already known, it was in the  
 15 public domain. Therefore, we didn't need to  
 16 report it.  
 17 Now I'm asking you, does that  
 18 decision process change if the source of this new  
 19 information that you have that you decided not to  
 20 report falls under (a)(2) --  
 21 A. So --  
 22 Q. -- if it came to the registrant from  
 23 somebody from whom they requested an opinion or  
 24 conclusion?  
 25 A. And just to make sure, sir, that I am

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1 clear on how I'm making the decision, the public  
 2 domain being EPA has the information.  
 3 Q. I'm using your fact pattern. It was  
 4 in the public domain.  
 5 A. And when I said that, the intention  
 6 was, if it was not in my first statement,  
 7 certainly it has been as I've been trying to  
 8 answer your questions here, the fundamental  
 9 assumption is that EPA is already aware of the  
 10 information. It's a different situation if EPA  
 11 does not have knowledge of information versus  
 12 information that EPA -- my answer is based upon  
 13 EPA already has the information.  
 14 Q. Yeah, so why don't you answer my  
 15 question?  
 16 A. Okay.  
 17 Q. My question was very distinct. I  
 18 said: Using your fact pattern, that Syngenta had  
 19 decided not to report it because they thought that  
 20 the findings were already in the public domain,  
 21 does that decision change if the source of the  
 22 information comes from (a)(2)?  
 23 A. Okay.  
 24 Q. Someone from whom Syngenta requested  
 25 an opinion or conclusion.

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1 A. Okay.  
 2 MR. WEIR: Object to the form.  
 3 THE WITNESS: And again, I'm just  
 4 trying to make sure, I'm trying to answer your  
 5 question, Mr. Tillery, but I want to make sure  
 6 that we're operating from the same -- as you say,  
 7 it's my facts. My facts are with the assumption  
 8 EPA is already aware of it.  
 9 In that situation, even if the  
 10 information came from someone else, that  
 11 determination would have to be made by our  
 12 committee that handles these things as to whether  
 13 or not the information that is being generated is  
 14 different than the information EPA is already  
 15 aware of.  
 16 Q. (BY MR. TILLERY) I don't have any  
 17 idea what that answered, but that had nothing to  
 18 do with my question.  
 19 Are you having trouble understanding  
 20 me?  
 21 A. I feel like I'm answering your  
 22 question, sir. I'm sorry if it's frustrating you.  
 23 Q. Well, I don't think you are. But  
 24 let's go back to it and let's see if we can get  
 25 through this and move on. It's a tedious point we

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1 have here. And let's see if we can do this  
 2 together in a cooperative spirit, okay?  
 3 A. Yes, sir, I am trying to cooperate.  
 4 Q. It's fact-finding, truth-finding.  
 5 Do you agree with me?  
 6 A. Yes, sir.  
 7 Q. I'm asking you to use your own  
 8 hypothetical situation, where a Syngenta decision  
 9 has been made not to report information that --  
 10 scientific information that has come to you about,  
 11 let's say, paraquat, because you think that the  
 12 findings that came to you, the scientific  
 13 findings, had all been -- already been reported in  
 14 the scientific literature. That's the fact  
 15 pattern that you gave. Correct?  
 16 A. I -- correct. And the assumption that  
 17 EPA is aware of it.  
 18 Q. All right. Now, does that decision  
 19 change or alter in any way if the source of the  
 20 information was from any one of those three  
 21 people, or groups of people defined under 40  
 22 C.F.R. 159.158 (a)(1), (2), and (3)?  
 23 A. I will say the answer does not change.  
 24 Q. All right. Then why have those? Why  
 25 are they in the statute?

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1 MR. WEIR: Object to the form.  
 2 THE WITNESS: I'm not sure I  
 3 understand the question, sir.  
 4 Q. (BY MR. TILLERY) What would their  
 5 purpose be if you've already determined that  
 6 you're not obliged to turn over the information,  
 7 because you made a determination it doesn't meet  
 8 the definition of relevant information, what's the  
 9 purpose of those three sections in Syngenta's  
 10 understanding of 40 C.F.R. 159.158?  
 11 MR. WEIR: Object to the form and  
 12 foundation.  
 13 THE WITNESS: It's my  
 14 understanding that these elements that are here  
 15 are all factored into Syngenta's compliance with  
 16 the 6(a)(2) policy, and we do comply with these.  
 17 MR. TILLERY: I move to strike  
 18 that as unresponsive and out of the blue.  
 19 Q. (BY MR. TILLERY) Now, tell me what  
 20 you at Syngenta believe the purpose of these three  
 21 pieces is for your reporting obligations if your  
 22 overriding decision on relevance already means  
 23 you're not going to report the information.  
 24 MR. WEIR: Same objection.  
 25 THE WITNESS: These are all

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1 factored into Syngenta's decisions when making  
 2 6(a)(2) determinations for reportability.  
 3 Q. (BY MR. TILLERY) So in other words,  
 4 you made the decision that fact -- the fact that  
 5 it came from a qualified expert still makes it  
 6 irrelevant if it's in the public domain; right?  
 7 MR. WEIR: Same objection.  
 8 THE WITNESS: No, I -- I didn't go  
 9 that far with that. That's not what I was saying,  
 10 sir.  
 11 Q. (BY MR. TILLERY) Well, let's go back  
 12 and do it -- keep doing this.  
 13 You're telling me that you -- the  
 14 PRF committee has solid scientific information  
 15 about some aspect of paraquat that -- let's put it  
 16 this way -- that would be otherwise reportable if  
 17 it were a new finding.  
 18 Do you understand that?  
 19 A. I understand that.  
 20 Q. All right. And which the PRF  
 21 committee has decided is not reportable because it  
 22 already exists in the scientific literature;  
 23 correct?  
 24 A. There is a possibility that  
 25 determination may have been made, yes.

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1 Q. All right. And in that situation,  
 2 tell me, then, what is the purpose of 40 C.F.R.  
 3 159.158(a)(1), (2), (3), in terms of that  
 4 decision-making process?  
 5 MR. WEIR: Object to the form.  
 6 THE WITNESS: So as you laid it --  
 7 yes, sir. As you laid it out, you said the PRF  
 8 committee has sound scientific information.  
 9 In that situation, it would go  
 10 forward. If the PRF committee had information  
 11 that was deemed not definitive or not sound by a  
 12 qualified expert who may be able to look at that  
 13 information that was initially presented to a PRF  
 14 committee and said we think this is a reportable  
 15 finding, but a qualified expert looks at it and  
 16 says, no, that information does not represent an  
 17 adverse finding, that could change the outcome.  
 18 Q. (BY MR. TILLERY) Well, let's say that  
 19 the person retained and employed or the person in  
 20 2 who is a person from whom you've asked for an  
 21 opinion or conclusion, or in 3, is a qualified  
 22 expert, have all made the finding of relevancy  
 23 under the rules, but Syngenta's PRF committee  
 24 finds that this information is in the public  
 25 domain, does Syngenta still have a reporting

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1 obligation because of this section?  
 2 MR. WEIR: Object to the form.  
 3 THE WITNESS: Yeah, and my answer  
 4 to that would be based upon just this one section,  
 5 it would seem to speak to that, but that's where  
 6 we would rely upon the legal advice and the expert  
 7 members of the team to ultimately make that  
 8 decision.  
 9 Q. (BY MR. TILLERY) I'm unclear about  
 10 what you mean "it would seem to speak to that."  
 11 Do you mean under this section it seems like you'd  
 12 have to report it; correct?  
 13 A. Under this section, as you're  
 14 positioning it, it would seem that way.  
 15 Q. Yes.  
 16 MR. WEIR: Steve, why don't we do  
 17 a break? Do you want to do lunch -- break for  
 18 lunch now, or do you want to do one more section  
 19 before lunch?  
 20 MR. TILLERY: Well, let's hold on  
 21 here just a second. Let's not go off the record  
 22 but give me one second, please.  
 23 Yeah, we can go off and take a  
 24 lunch break and come back in half an hour, at  
 25 1 o'clock Eastern -- no, it would be -- excuse me,

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1 yeah, it would be 1 o'clock Eastern, 12 noon  
 2 Central. Okay?  
 3 MR. WEIR: Go off the record.  
 4 THE WITNESS: We are going off the  
 5 record at 12:30 Eastern Time.  
 6 (Recess taken, 12:30 p.m. to 1:20  
 7 p.m. EDT)  
 8 THE VIDEOGRAPHER: We are back on  
 9 the record at 1:20 p.m. Eastern.  
 10 MR. WEIR: Before we get started  
 11 again, this is Tom Weir from Kirkland & Ellis. I  
 12 just want to state for the record that this  
 13 deposition is confidential pursuant to the  
 14 protective order in the case, and we are reserving  
 15 the right to read and sign.  
 16 (Discussion off the record.)  
 17 Q. (BY MR. TILLERY) Now we're going to  
 18 put up and direct your attention to plaintiffs'  
 19 deposition Exhibit No. 5.  
 20 And this is 40 C.F.R. Section  
 21 159.165A.  
 22 (Dixon Deposition Exhibit 5  
 23 marked.)  
 24 A. Okay, I will read the document, sir.  
 25 [Document review.]

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1 A. Okay, sir, I'm ready for your  
 2 questions.  
 3 Q. (BY MR. TILLERY) Are you familiar  
 4 with this EPA regulation?  
 5 A. Yes, sir.  
 6 Q. Okay. It's one you've dealt with in  
 7 the past; correct?  
 8 A. As our 6(a)(2) committee has been the  
 9 folks that handled it, but I have participated in  
 10 making the submissions accordingly.  
 11 Q. Okay. All right. And do you  
 12 understand the purpose of (a), No. 1, which is  
 13 under the heading Adverse Effects Information Must  
 14 Be Submitted As Follows: (a) Toxicological  
 15 studies, and then it says, under No. 1: The  
 16 results of a study of the toxicity of a pesticide  
 17 to humans or other non-target domestic organisms  
 18 if, relative to all previously submitted studies,  
 19 they show an adverse effect under any of the  
 20 following conditions.  
 21 Have you got that?  
 22 A. Yes, sir.  
 23 Q. Okay. Its purpose is to make sure  
 24 that the EPA knows about any toxicity studies that  
 25 reveal new adverse information about the toxicity

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1 of the chemical.  
 2 Would that be a fair statement?  
 3 MR. WEIR: Object to foundation.  
 4 THE WITNESS: That seems to be the  
 5 intent of the statement, sir.  
 6 Q. (BY MR. TILLERY) Okay. And that  
 7 would be to make sure that the EPA knows about any  
 8 toxicity studies that reveal new adverse effects  
 9 in a different organ; right?  
 10 A. That appears to be what sub-bullet 1  
 11 or i says, yes, sir.  
 12 MR. WEIR: Sorry, the same  
 13 objection with respect to foundation.  
 14 MR. TILLERY: And I'll consent to  
 15 a continuing objection on foundation. Okay?  
 16 MR. WEIR: Thank you.  
 17 Q. (BY MR. TILLERY) And it also seems to  
 18 have as its purpose to make sure the EPA knows of  
 19 any toxicity studies that reveal new adverse  
 20 effects involving a different tissue; right?  
 21 A. That appears to be consistent with  
 22 the -- that's first bullet i in parentheses.  
 23 Q. And new adverse effects at a higher  
 24 incidence; correct?  
 25 A. That's what is stated in number 3,

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1 yes, sir.  
 2 Q. Okay. Or frequency; right?  
 3 A. Yes, sir. And that's what's stated.  
 4 Q. Okay. Or in any different species of  
 5 test organisms; correct?  
 6 A. That is -- yes, sir, that's what's  
 7 there.  
 8 Q. Or in a different strain of test  
 9 organism; right?  
 10 A. Yes, I see that, sir.  
 11 Q. Or in a different sex of test  
 12 organism, right?  
 13 A. Yes, sir.  
 14 Q. Or in a different generation of test  
 15 organism.  
 16 A. That is what's in part 4, yes, sir.  
 17 Q. Or by a different route of exposure;  
 18 right?  
 19 A. Yes, sir, that's what's in part 5.  
 20 Q. Do you know why new adverse effects in  
 21 a different species, strain, sex, or generation of  
 22 test organism are important for the EPA to know  
 23 about? Do you understand the logic of that?  
 24 A. Yes, I think I could certainly  
 25 understand the logic of that.

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1 Q. What do you understand the reason for  
 2 them wanting to know if there is any new adverse  
 3 effects in a different species, strain, sex, or  
 4 generation of the test organism that have been  
 5 found?  
 6 A. Okay. This would be my speculation of  
 7 EPA's position, but I believe they would welcome  
 8 information or want information that they would  
 9 use to evaluate their current position on a  
 10 molecule that's registered; and new information  
 11 and a different species, they would probably want  
 12 to consider that.  
 13 Q. They want information that helps them  
 14 evaluate the safety of the continued use of a  
 15 pesticide, don't they?  
 16 A. That would be the purpose, I believe,  
 17 of the toxicity studies.  
 18 Q. And wouldn't you think that would be  
 19 their general feeling about the reporting  
 20 obligations, the underlying general feeling is  
 21 that if there's some evidence that underscores  
 22 some hazard or potential problem for users or  
 23 applicators of a chemical, they'd like to hear  
 24 about it, right?  
 25 MR. WEIR: Object to the form.

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1 THE WITNESS: Yeah, I don't want  
 2 to speak on behalf of EPA, sir.  
 3 Q. (BY MR. TILLERY) Okay. So you don't  
 4 know one way or another if that is an underlying  
 5 intent of the agency?  
 6 THE WITNESS: I just don't want to  
 7 speak on EPA's position, sir.  
 8 Q. (BY MR. TILLERY) Can you answer my  
 9 question?  
 10 A. I believe I did, but I'm happy to  
 11 listen to it again and restate it, sir.  
 12 Q. I said you don't know one way or  
 13 another if that is the underlying intent of the  
 14 agency.  
 15 A. I cannot speak to the definitive  
 16 intent of the agency. I certainly -- my  
 17 experience would be EPA wants information to  
 18 inform their risk assessments.  
 19 Q. Okay. Now, I think the next is  
 20 number 6.  
 21 (Dixon Deposition Exhibit 6  
 22 marked.)  
 23 THE WITNESS: I am reading this,  
 24 sir.  
 25 MR. TILLERY: Okay. We'll pull it

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1 up for display because it's one page.  
 2 THE WITNESS: Okay.  
 3 MR. TILLERY: Let me know when  
 4 you're ready to discuss it.  
 5 THE WITNESS: Yes, sir,  
 6 Mr. Tillery.  
 7 [Document review.]  
 8 THE WITNESS: Okay, sir, I believe  
 9 I can answer your questions.  
 10 Q. (BY MR. TILLERY) Are you familiar  
 11 with this reporting obligation?  
 12 A. I don't believe I have ever  
 13 specifically read this, but I am aware of the  
 14 intention and content of it.  
 15 Q. Okay. You understand Plaintiffs'  
 16 Deposition Exhibit No. 6 to be 40 CFR Section  
 17 159.195; correct?  
 18 A. That appears to be that, yes, sir.  
 19 Q. Okay. And you understand the purpose,  
 20 then you said you think you understand the  
 21 purpose.  
 22 A. Yes, sir.  
 23 Q. What is it?  
 24 A. It appears, based upon my reading of  
 25 this and my general understanding of 6(a)(2), that

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1 information such as this should be communicated to  
 2 EPA if we become aware of, for example -- and I'm  
 3 sorry, I'm just reading through it again as we go  
 4 through, this appears more -- I believe it is to  
 5 provide information to EPA to inform risk  
 6 assessments that may be additional information to  
 7 what they formed their prior risk assessments on.  
 8 Q. Yeah. Actually, it's a catch-all,  
 9 isn't it? To make sure the EPA knows anything  
 10 about a pesticide that might materially bear on  
 11 its continued registration or the terms of its  
 12 registration but which was not covered by other  
 13 agencies's regulations; right?  
 14 A. I would rely on -- or the  
 15 interpretation of our counsel and our 6(a)(2)  
 16 committee to ensure that we were complying with  
 17 that.  
 18 Q. Well, what did they tell you? You're  
 19 here. You are here, not -- we can't delay. Today  
 20 is the day. You're not going to rely on something  
 21 and say -- and dodge the question.  
 22 If that's the case, you're speaking  
 23 for Syngenta today. We've noticed this  
 24 deposition. We have scheduled these and sent  
 25 these notices out months and months and months

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1 ago. Back last fall.  
 2 So the question is: Can you tell me  
 3 whether or not this document, this 159.195 is a  
 4 catch-all to make sure the EPA knows about  
 5 anything about a pesticide that might materially  
 6 bear on its continued registration or the terms of  
 7 its registration?  
 8 MR. WEIR: I'll object to the form  
 9 and just note that I would like my continuing  
 10 objection with respect to scope and foundation,  
 11 just to be noted for the record.  
 12 THE WITNESS: I would rely on the  
 13 interpretation from our legal experts on the  
 14 committee to be able to answer that question, sir.  
 15 Q. (BY MR. TILLERY) Okay. So you are  
 16 unable to answer that question; right?  
 17 A. I would answer -- I would rely on the  
 18 advice given by our 6(a)(2) attorney to be able to  
 19 answer that, sir.  
 20 Q. Okay. In preparing to testify for  
 21 Syngenta AG and Syngenta Crop Protection on these  
 22 topics today, did you make any attempt to obtain  
 23 information that would answer that question?  
 24 A. No, sir, I did not.  
 25 Q. Did you make any effort to obtain

1 information, additional documentation, to answer  
 2 the question?  
 3 A. This particular question, sir?  
 4 Q. Yes.  
 5 A. No, sir, I did not.  
 6 Q. Did you search any documents or data  
 7 available to you for information that might answer  
 8 that question?  
 9 A. No, sir. I did not. I did review our  
 10 6(a)(2) documents on things that we had submitted,  
 11 but not specifically interpretations of  
 12 regulations, no, sir.  
 13 Q. Did you ask anyone for information or  
 14 data that might help you answer that question?  
 15 A. No, sir.  
 16 Q. Did you go to the 6(a)(2) appointed  
 17 lawyer to ask questions for interpretations so you  
 18 could answer the question?  
 19 A. With respect to this deposition, no.  
 20 Q. Are you aware of anyone at Syngenta,  
 21 other than the lawyers, that you believe may have  
 22 the knowledge or data that might be able to lead  
 23 to an answer to the question?  
 24 A. It would be -- questions such as these  
 25 would be handled by our 6(a)(2) committee.

1 Q. So the only thing you could say is  
 2 that you would have a committee that has changed  
 3 in configuration and membership over the years  
 4 that would answer it; right?  
 5 A. Correct.  
 6 Q. So we would have to convene your  
 7 6(a)(2) committee for this deposition; right?  
 8 In your view? To answer that  
 9 question?  
 10 MR. WEIR: Object to the form.  
 11 THE WITNESS: My -- I am unable to  
 12 answer that question because I would rely on the  
 13 guidance provided by the attorneys and our 6(a)(2)  
 14 committee.  
 15 MR. TILLERY: So, just so counsel  
 16 understands, in a 206 deposition, presenting a  
 17 witness who refuses or cannot answer the question,  
 18 we deem, on behalf of Syngenta entities, for this  
 19 to be a binding, evidentiary admission. And if  
 20 you have some way, if you want to take a break,  
 21 you want to do it, it is not going to work to say  
 22 I don't have an answer. I'm relying on my  
 23 lawyers. Cute, but not effective.  
 24 So if you think that's going to  
 25 work, we're going to deem it the other way.

1 So I urge you to try to come up  
 2 with answers other than to say it's our counsel or  
 3 it's a committee, because today is the date for  
 4 the deposition.  
 5 MR. WEIR: Just to be clear for  
 6 the record, I just want to reiterate our position  
 7 that this was not the witness that we tendered  
 8 with respect to the 6(a)(2)s or PRFs. We think  
 9 you are beyond the scope of the deposition topics  
 10 that we have designated Mr. Dixon for.  
 11 I think you can proceed with your  
 12 questions, and I disagree with any claim that this  
 13 is -- somehow operates as a binding admission of  
 14 the company.  
 15 MR. TILLERY: Well, we'll continue  
 16 on. Our position is that you've just made your  
 17 decision, vis-à-vis the USEPA, and that's what  
 18 he's designated to talk about.  
 19 MR. WEIR: Just to be -- I don't  
 20 fully understand your position, Steve.  
 21 MR. TILLERY: You just locked  
 22 yourself into an evidentiary admission that you  
 23 have no answers, and I don't believe you'll be  
 24 able to offer any testimony at trial by any  
 25 witness that contradicts what was just said on

1 this record. Because this is a 206 witness. So  
 2 if you want to rest on the fact that you offered  
 3 him up for EPA and not Dr. Botham, I would have  
 4 been happy to ask my EPA questions and all of this  
 5 to Dr. Botham, but you excluded EPA from his list  
 6 and gave it to this witness, exclusively, and made  
 7 that point to me in Dr. Botham's deposition,  
 8 several times. But I wasn't asking questions  
 9 about this in the USEPA.  
 10 Now, you can't have it both ways.  
 11 He either answers the questions or Dr. Botham, and  
 12 you've designated this witness as your deponent  
 13 for this topic. And if you now come in and say it  
 14 has to be some committee whose membership we don't  
 15 even have ironed out, or some lawyer whose  
 16 identity is unknown, and that's the answer, on a  
 17 day for the deposition of a corporate designee,  
 18 then I'm happy to take that forward and see if  
 19 that doesn't bind Syngenta for that answer. And  
 20 that's all I'm saying to you. Okay? And I'm  
 21 happy to move on.  
 22 MR. WEIR: Okay. Let me just  
 23 respond quickly. I think you've made your record  
 24 on the point. I think I've made my record. I  
 25 think it was clear that you did ask Dr. Botham

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1 about issues relating to 6(a)(2), which I think  
 2 showed your understanding of what we had  
 3 designated him for. But I think we've both made  
 4 our record, and I'm happy for you to continue  
 5 asking questions of Mr. Dixon.  
 6 Q. (BY MR. TILLERY) Let me ask you a  
 7 question, sir. How can you do your job as a  
 8 regulatory officer, chief regulatory officer for  
 9 Syngenta in North America, including the  
 10 United States, if you don't understand the 6(a)(2)  
 11 and FIFRA reporting obligations?  
 12 MR. WEIR: Object to that  
 13 question, argumentative.  
 14 THE WITNESS: Mr. Tillery, I am  
 15 not the chief regulatory representative. I would  
 16 make that statement. And then we have a process  
 17 through which we have our 6(a)(2) procedures, we  
 18 have a committee and a lawyer to ensure that we  
 19 are compliant. And as a regulatory person, I rely  
 20 on our structure to be able to fulfill my  
 21 obligations to report. When the committee deems  
 22 something is reportable, I execute that report.  
 23 Q. (BY MR. TILLERY) Well, let me ask  
 24 you, who at the Syngenta company in the  
 25 United States has a greater understanding as an

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1 employee of the reporting obligations under FIFRA,  
 2 than you?  
 3 A. All employees are briefed on reporting  
 4 obligations, but we rely on the advice of the  
 5 6(a)(2) committee and the legal advice provided  
 6 through that committee to guide our compliance.  
 7 Q. Do those people have names?  
 8 A. They are certainly people on the  
 9 committee, yes.  
 10 Q. All right. Who are they?  
 11 A. I will not be able to give you a  
 12 definitive list of all of the participants. I  
 13 will tell you people that are on the committee,  
 14 Nina Heard.  
 15 Q. Does she had -- just stop for a  
 16 second. Does Nina Heard have a better  
 17 understanding, would she be able to answer my  
 18 questions on this topic? Nina Heard?  
 19 A. Nina Heard is the head of that  
 20 committee in North America. We rely heavily on  
 21 the guidance of Brian Reeve, the legal counsel.  
 22 Q. Sir, I had a question pending to you.  
 23 A. Yes, sir.  
 24 Q. I asked you would Nina Heard be able  
 25 to answer my questions on this topic?

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1 A. I would speculate -- I shouldn't say  
 2 speculate. I would direct Nina Heard as the  
 3 6(a)(2) committee lead would be certainly aware of  
 4 these obligations, but again, it's the committee  
 5 working with legal counsel to determine how  
 6 they're executed.  
 7 Q. So you're unable to tell me whether  
 8 she could answer this question either; right?  
 9 A. I don't want to speak to her  
 10 definitive knowledge. I'm just identifying her  
 11 role. And in her role as the 6(a)(2) committee,  
 12 she is certainly aware of all of the requirements.  
 13 Q. Okay. So can you tell me "yes" or  
 14 "no" whether or not she would be in a position, a  
 15 better position to answer my questions about  
 16 reporting obligations under FIFRA than you?  
 17 A. I believe in her role as the lead of  
 18 the committee, yes.  
 19 Q. All right. And who else on that  
 20 committee would be in a better position to talk  
 21 about the reporting obligations to the USEPA?  
 22 A. Brian Reeve.  
 23 Q. Brian Reeve would too?  
 24 And is that R-E-E-V-E?  
 25 A. I believe that's correct, sir.

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1 Q. Okay. And who else on the committee  
 2 would be in a better position to answer my  
 3 questions about reporting, FIFRA reporting  
 4 obligations to the EPA?  
 5 A. Those would be the two key people.  
 6 Q. And then you keep referencing a  
 7 lawyer, without naming it. Is that Alan Nadel?  
 8 A. No, sir. That's Brian Reeve.  
 9 Q. So Brian Reeve is the lawyer?  
 10 A. Correct.  
 11 Q. And Nina Heard is the other member;  
 12 right?  
 13 A. Correct.  
 14 Q. Okay. So those are the two people you  
 15 would go to for an interpretation?  
 16 A. Absolutely. If I had a question about  
 17 a 6(a)(2) interpretation, I would consult with  
 18 those two individuals.  
 19 Q. Okay. And you think that they'd be in  
 20 a better position to answer these questions;  
 21 right?  
 22 A. They are more knowledgeable on those  
 23 topics than I am.  
 24 Q. Okay. If the information, the  
 25 reporting information would be relevant to an



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1 agency decision on the continued registration of  
 2 the pesticide or to the proper terms of its  
 3 registration, would you agree the registrant is  
 4 required by Section 6(a)(2) to submit the  
 5 information to the EPA?  
 6 A. Can you please restate that, sir?  
 7 Q. If the information -- strike that.  
 8 If the information would be relevant  
 9 to an agency decision on the continued  
 10 registration of the pesticide, or to the proper  
 11 terms of its registration, the registrant is  
 12 required by Section 6(a)(2) to submit the  
 13 information to the EPA, isn't it?  
 14 A. I'm just trying to make sure I'm fully  
 15 grasping the question. I believe that is the  
 16 intent of 6(a)(2).  
 17 Q. So you agree with that statement?  
 18 A. I believe that's the intent of  
 19 6(a)(2). We would follow the recommendations and  
 20 the guidance of the 6(a)(2) committee to make sure  
 21 we were complying with the 6(a)(2) requirements.  
 22 Q. So you -- I'm asking if you agree with  
 23 that statement.  
 24 A. Would you please read it again, sir?  
 25 Q. That's all right. We'll move on.

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1 Let's go to Exhibit No. 7.  
 2 (Dixon Deposition Exhibit 7  
 3 marked.)  
 4 THE WITNESS: Mr. Tillery, I've  
 5 opened the exhibit.  
 6 MR. TILLERY: Okay. Why don't you  
 7 refresh yourself with this exhibit, please.  
 8 THE WITNESS: Okay.  
 9 [Document review.]  
 10 THE WITNESS: It's quite a long  
 11 exhibit, sir. I'm scanning through. I do not  
 12 believe I've seen this before.  
 13 [Document review.]  
 14 THE WITNESS: Given that it's 75  
 15 pages, sir, is there a particular area you'd like  
 16 me to refresh on?  
 17 MR. TILLERY: Yes, I will. Yes.  
 18 Q. (BY MR. TILLERY) I'll represent to  
 19 you this is a document that was produced to us as  
 20 Syngenta 00493318. And it's entitled Paraquat &  
 21 Parkinson's Disease. Document refers to a  
 22 research proposal at CTL in Alderley Park,  
 23 United Kingdom. And Syngenta CTL refers to the  
 24 Syngenta Central Toxicology Laboratory; correct?  
 25 A. Yes, sir. And, sir, do you have a

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1 time frame for this document? When it was  
 2 published?  
 3 Q. I will have when we get in it, yes,  
 4 sir.  
 5 A. Thank you, sir.  
 6 Q. I believe it's in the document itself.  
 7 But if you'd look at this, CTL is one  
 8 of the in-house laboratories for toxicology  
 9 studies at Syngenta; correct?  
 10 A. Correct.  
 11 Q. Okay. Let's go to and maybe we can  
 12 answer your question about the timing. Let's go  
 13 to slide 14 at 3331.  
 14 And just so you understand, sir, these  
 15 are documents produced to us as-is. We're  
 16 presenting this document to you. It was a  
 17 production document produced to us by your  
 18 counsel. Okay?  
 19 A. Yes, sir.  
 20 Q. It's not our personal document. It  
 21 was produced in the discovery process in this  
 22 litigation. Okay?  
 23 A. Yes, sir.  
 24 Q. And do you see that document?  
 25 A. Yes, sir.

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1 Q. It's entitled Recent Literature  
 2 Developments of Concern.  
 3 A. Yes, sir, I'm reading this slide real  
 4 quickly.  
 5 Q. Okay. And we're talking about the  
 6 United States here, aren't we?  
 7 A. Certainly the first bullet references  
 8 U.S., so I believe so.  
 9 Q. Okay.  
 10 A. And records --  
 11 Q. Two US based research groups have  
 12 produced a series of publications since 1999  
 13 implicating paraquat in a Parkinson's disease  
 14 animal model - work still on going.  
 15 Is that correct? That's what it says,  
 16 right?  
 17 A. Correct. That's what it says, yes,  
 18 sir.  
 19 Q. And then it refers to those two. One  
 20 is the Cory-Slechta group - Rutgers, New Jersey,  
 21 University of Rochester; right?  
 22 A. Yes, sir.  
 23 Q. The other is DiMonte group,  
 24 Parkinson's Institute, Sunnyvale, California;  
 25 right?

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<p>1 A. Yes, sir.                  2 Q. And then it says: Using the C57B16                  3 mouse model and i.p. -- that stands for                  4 intraperitoneal, doesn't it?                  5 A. Yes, sir.                  6 Q. -- dosing of PQ (1 through                  7 30 milligrams per kilogram) -- typically 3 weekly                  8 doses of 10 milligrams per kilogram.                  9 Do you see that?                  10 A. Yes, sir.                  11 Q. And they're looking at three                  12 biological endpoints as markers.                  13 A. I see that.                  14 Q. All right. And you see                  15 neuropathological - loss of neurons. And that's                  16 determined, they reference, by stereology.                  17 And then neurochemical-loss of                  18 dopamine from the striatum.                  19 You understand that too, right?                  20 A. Yes, sir.                  21 Q. And you know what that means?                  22 A. I have a general awareness of that,                  23 yes, sir.                  24 Q. Okay. And then neurobehavioural,                  25 where it says reduction in locomotor activity.</p>	<p>1 Q. Okay. They found that paraquat caused                  2 loss of dopaminergic neurons in the mid-brain, is                  3 that your understanding? In the mouse. In a                  4 mouse model.                  5 A. Yes, sir.                  6 Q. All right. And the substantia nigra                  7 pars compacta is sometimes abbreviated as capital                  8 S, capital N, small P, small C; right?                  9 A. Correct.                  10 Q. Okay. Now, if we go to slide 18,                  11 which is at 3335 of this exhibit.                  12 A. Could you please scroll it down just a                  13 bit on my screen?                  14 The other way, please. Or do I                  15 have the ability to scroll? Okay. Thank you.                  16 Okay.                  17 Q. Take your time in reading it, sir.                  18 A. Yes, sir.                  19 [Document review.]                  20 A. Okay, sir.                  21 Q. Okay. So this slide is entitled                  22 Research Activity At Syngenta CTL Strategy Being                  23 Followed; correct?                  24 A. Correct.                  25 Q. And it says: If findings are not</p>
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<p>1 A. Yes, sir.                  2 Q. These studies found that paraquat was                  3 neurotoxic to the black mouse, didn't they?                  4 MR. WEIR: Object on scope.                  5 Can I get a standing objection on                  6 the scope?                  7 MR. TILLERY: Yes, you can.                  8 THE WITNESS: Okay. Mr. Tillery,                  9 I don't see the results of these studies, but I                  10 believe these were the studies that indicated a                  11 reduction in some of the -- I believe it was                  12 neurons, but I would like -- I don't -- I do not                  13 see the actual results of the study, so I'm just                  14 going off of my recollection of the work they did.                  15 Q. (BY MR. TILLERY) All right. You're                  16 familiar with the fact that these scientists found                  17 that there was a loss of dopaminergic neurons in                  18 the substantia nigra of the mouse brain; correct?                  19 A. I believe that's what's in their                  20 publications. I'm assuming that's the                  21 publications referred to. This is my first time                  22 seeing this slide, but I am familiar with those                  23 two groups and the nature of the work, and I                  24 believe it's consistent with my understanding of                  25 the publications at the time.</p>	<p>1 reproducible, aim to publicly refute the claims in                  2 the literature by offering our own alternative                  3 experimental findings; correct?                  4 A. I concur, that's what the second                  5 bullet says.                  6 Q. And then it says: If findings are                  7 repeatable, Syngenta CTL-generated data will be                  8 used to build a defensive position for paraquat                  9 based on establishing a no effect dose (under                  10 various dosing regimens) in the C57B16 mouse model,                  11 based on a biological endpoint - neuronal cell                  12 loss in the substantia nigra.                  13 That's the next point they're                  14 planning; right?                  15 A. Yes, sir, that's what's there.                  16 Q. And then read the last point into the                  17 record for me, please.                  18 A. The bottom bullet? Avoided measuring                  19 PQ levels in the brain, since the detection of any                  20 PQ in the brain (no matter how small) will not be                  21 perceived externally in a positive light.                  22 Q. So avoid, avoid measuring paraquat                  23 levels in the brain of the animal. Don't measure                  24 it. Don't record it. Since detection of any                  25 paraquat in the brain, no matter how small, will</p>

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1 not be perceived externally in a positive light.  
 2 Now, that reference, externally,  
 3 what's that mean?  
 4 MR. WEIR: Object to the form and  
 5 foundation.  
 6 Q. (BY MR. TILLERY) What's that, in your  
 7 best understanding of reading Syngenta documents,  
 8 what's "externally" mean?  
 9 A. My understanding externally would be  
 10 outside of Syngenta, in the public domain.  
 11 Q. It would be in the public domain.  
 12 Okay. Now let's go to this document.  
 13 And what exhibit number is this?  
 14 (Dixon Deposition Exhibit 8  
 15 marked.)  
 16 Q. (BY MR. TILLERY) We're looking now at  
 17 Dixon deposition Exhibit No. 8.  
 18 A. Okay. I am seeing No. 8 here, sir.  
 19 Q. Are you familiar with this?  
 20 A. It appears to be a study conducted by  
 21 Louise Marks, yes, sir.  
 22 Q. Okay. And this is her study  
 23 XM7229/Research/Report; right?  
 24 A. That's what -- yes, I agree.  
 25 Q. And you know Dr. Louise Marks too,

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1 right?  
 2 A. I know that she worked for Syngenta,  
 3 but she's someone I've never met or never had any  
 4 communications with.  
 5 Q. Now, her work was in where, in the  
 6 United Kingdom?  
 7 A. It looks like the performing  
 8 laboratory was CTL, so that would be in the UK,  
 9 sir.  
 10 Q. All right. And this was a  
 11 neurotoxicity study conducted by Dr. Marks at  
 12 Syngenta CTL administering paraquat to the black  
 13 mouse; right?  
 14 A. Let's see here. Yes, sir.  
 15 Q. So this is, as far as you understand,  
 16 the same mouse type that was being referenced in  
 17 that prior exhibit; right?  
 18 A. I only see the C57. I believe it's  
 19 the C57BLj6, so that might be further specified.  
 20 I'm not sure if a C57 black mouse is the same as a  
 21 C57BLj6.  
 22 Q. Okay.  
 23 Now --  
 24 MR. WEIR: Can I get another  
 25 standing objection on the scope of this line of

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1 questioning, please?  
 2 MR. TILLERY: Yes.  
 3 Q. (BY MR. TILLERY) Now, at the time  
 4 this study was reported, you were about one year  
 5 into your job; correct? This was a year later.  
 6 A. Yes, sir, I would have been in the job  
 7 just a little over -- almost a full year. I think  
 8 I started in October, so I would have been in the  
 9 job almost a year.  
 10 Q. All right.  
 11 And this job, this study was reported  
 12 to you at the time?  
 13 A. I don't believe it was reported to me,  
 14 sir, at the time.  
 15 Q. When was it reported to you?  
 16 A. I became aware of these studies -- and  
 17 I'm trying to remember back to 2007. I do not  
 18 believe I had any awareness at that time. You  
 19 know, I certainly became aware of it as we have  
 20 gone through preparation for the deposition here.  
 21 Q. So when did you start your preparation  
 22 for the deposition?  
 23 A. Well, actually, the preparation  
 24 formally started in May -- I'm sorry, I believe in  
 25 February. I was -- as we go back to this, I

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1 certainly was aware of these studies. I believe  
 2 we had received communication from your law firm,  
 3 and we did submit a series of studies to EPA, I  
 4 want to say it was December of '19, and I believe  
 5 this may have been one of those.  
 6 Q. So you're talking six months ago;  
 7 right?  
 8 A. If my timing is -- recollection is  
 9 correct.  
 10 Q. Okay. And was that the first time you  
 11 had ever become aware of this study?  
 12 A. I would say in detail, yes. There is  
 13 a paraquat health sciences team that I have  
 14 participated on over the years, and there's been  
 15 many meetings, and I certainly -- although was not  
 16 very involved with it at all, especially in the  
 17 early part of my time in regulatory, I would have  
 18 to assume at some point these studies may have  
 19 been referenced during those meetings. I don't  
 20 have a specific recollection of it. But it is  
 21 possible that I may have been in a meeting or  
 22 something where one of these studies would have  
 23 been referenced in the past.  
 24 Q. Well, let me ask you this: When was  
 25 the first time you were put on any kind of formal

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1 notice in your regulatory capacity of the  
 2 existence of this study?  
 3 MR. WEIR: Object to form.  
 4 THE WITNESS: I do not recall a  
 5 specific day, sir.  
 6 Q. (BY MR. TILLERY) Well, it would have  
 7 been December of last year, six months ago,  
 8 wouldn't it?  
 9 A. Well, that's certainly when my  
 10 awareness reached a high level, because --  
 11 Q. All right, then. All right, then, if  
 12 we're going to do it that way then let's go back.  
 13 When did you first learn of these  
 14 studies?  
 15 A. I do not have --  
 16 Q. Let's do that.  
 17 A. I do not have a specific time frame in  
 18 mind when I first learned of these studies. I  
 19 may, over the course of 14 years -- not 14 years,  
 20 but over the course of the work of the paraquat  
 21 health sciences team as I was involved with  
 22 coordinating the EPA meetings, it's certainly  
 23 possible that I could have been in a meeting where  
 24 these studies were referenced. I don't recall  
 25 that, but it is possible.

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1 Certainly --  
 2 Q. Well, whether it's possible or not is  
 3 not my question to you. Okay? That's not what I  
 4 asked you, sir. I didn't ask you what you might  
 5 have seen, may have -- I'm asking you when did you  
 6 receive notice, as part of your job  
 7 responsibilities at Syngenta, of the existence of  
 8 this study that's marked as Plaintiffs' Deposition  
 9 Exhibit No. 8? What was the first date?  
 10 A. Mr. Tillery, I do not have a  
 11 recollection of what that date would be.  
 12 Q. Okay. What's the first date where you  
 13 have a clear recollection of ever having seen the  
 14 study?  
 15 A. Of ever having seen the study, I would  
 16 say my best recollection is it would have been in  
 17 December -- late -- I would say December of 2019  
 18 as we were preparing for the submission.  
 19 Q. All right. And that's because I wrote  
 20 a letter to your counsel demanding that this be  
 21 filed; correct?  
 22 A. If this is -- and I think there was a  
 23 series of three studies. I don't remember the  
 24 study number. But I believe this was one of the  
 25 ones that we did submit, and we did submit it

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1 after receiving your letter.  
 2 Q. Now, let's look at this exhibit.  
 3 Okay? And let's go to page 9, which is 2897 of  
 4 Exhibit 8. And Study Design. There you go.  
 5 Do you see that, sir, the study  
 6 design?  
 7 A. Yes, sir.  
 8 Q. The study design was to investigate  
 9 the reproducibility of claims in the literature of  
 10 the nigrostriatal neurotoxicity following  
 11 administration of the herbicide paraquat to mice;  
 12 right?  
 13 A. Yes, sir.  
 14 Q. So this study was part of the paraquat  
 15 mouse research program described in the Syngenta  
 16 CTL presentation that we looked at as the last  
 17 exhibit; correct?  
 18 A. That would appear to be the case, sir.  
 19 Q. All right. And look under the Results  
 20 section, please.  
 21 Do you see that?  
 22 A. I do.  
 23 Q. We see that: The administration of 10  
 24 milligrams per kilogram of paraquat dichloride, or  
 25 the reference is, once a week for three weeks,

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1 resulted in a small but non statistically  
 2 significant reduction in dopaminergic cell number  
 3 in the substantia nigra paras compacta.  
 4 Do you see that?  
 5 A. I -- yes, I think I just found it.  
 6 Yes, sir.  
 7 Q. Go ahead and take you're time and  
 8 verify it.  
 9 A. Yes, sir.  
 10 Q. Verify that what I said is correct.  
 11 A. Okay. Administration of 10 milligram  
 12 per kilogram paraquat dichloride once a week for  
 13 three weeks. Yes, sir.  
 14 Q. All right. Now, if you go to page 22,  
 15 which is 2910. If you'd pull that up.  
 16 And at the bottom of that, please read  
 17 that.  
 18 A. The last -- which -- what -- the last  
 19 paragraph, sir?  
 20 Q. Yes. The last paragraph. When she  
 21 references the stereology.  
 22 A. Okay. In addition to the smaller  
 23 magnitude of cell --  
 24 Q. Actually, you can just read it to  
 25 yourself. I just want you to be familiar with it

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1 for the questioning.  
 2 A. Okay. Thank you, sir.  
 3 [Document review.]  
 4 A. Okay, sir, I've read the paragraph.  
 5 Q. Okay. So she points out that  
 6 independent researchers had used an automatic  
 7 staged setup, an automated one; correct?  
 8 A. She speculates that. I don't think  
 9 she knows it definitively.  
 10 Q. Were you aware -- strike that.  
 11 And Dr. Marks used a manual setup, she  
 12 says; right?  
 13 A. Let me just make sure.  
 14 I'm sorry, I'm just -- there's a  
 15 lot of information here. I'm not an expert in  
 16 this area. I want to make sure I'm reading it  
 17 correctly.  
 18 Q. If you could just go to the -- where  
 19 it says "However," about mid paragraph?  
 20 A. Yes, sir.  
 21 Q. Do you see that?  
 22 A. I am.  
 23 Q. However, the cell counts presented in  
 24 the literature have, in the majority of recent --  
 25 I'm sorry, let's go up a little from there.

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1 The method of cell counting or  
 2 stereology used in the present study, namely the  
 3 optical fractionator method, is the standard  
 4 method of estimating total cell counts in tissues  
 5 and has been cited in the majority of recent PQ  
 6 publications. However, the cell counts presented  
 7 in the literature have been obtained using an  
 8 automated stage set up which may confer a greater  
 9 degree of accuracy to the counting process. Our  
 10 method, in which the counting frame is moved  
 11 manually from sampling point to sampling point,  
 12 has been tested for sensitivity and has produced  
 13 consistent values.  
 14 Our technique has been proven  
 15 sensitive, and it gives the number at 13.8 percent  
 16 reduction in TH+ cell number following MPTP  
 17 administration.  
 18 Do you see that?  
 19 A. Yes, sir.  
 20 Q. Nevertheless, nevertheless, even small  
 21 differences in methodology -- and if we go to the  
 22 next page -- could lead to our system potentially  
 23 being deemed less accurate than the automated  
 24 systems available and this may explain in part the  
 25 differences in total cell counts obtained.

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1 Do you see that?  
 2 A. Yes, sir.  
 3 Q. Okay. What do you understand that to  
 4 mean?  
 5 A. What I understand that to mean is that  
 6 Dr. Marks was giving her scientific view that the  
 7 automated process may provide a more reproducible  
 8 interpretation than the manual process.  
 9 Q. Okay. Now let's go to the next  
 10 exhibit.  
 11 A. And, Dr. Tillery, when -- before, I  
 12 thought it read she -- they may have used. When  
 13 you read it, I realize it said they have used, so  
 14 I certainly can see the point that she was saying  
 15 they did use that. It wasn't her speculation.  
 16 Q. Thank you, sir.  
 17 We'll go to Exhibit 9.  
 18 (Dixon Deposition Exhibit 9  
 19 marked.)  
 20 Q. (BY MR. TILLERY) Now, please take a  
 21 look at this.  
 22 This is Syngenta 00492889. And it's a  
 23 document entitled Paraquat Dichloride Hydrate, and  
 24 it references a study investigating reported  
 25 paraquat-induced neurotoxicity in the Alderley

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1 Park C57 black mouse: The neurochemical and  
 2 pathological effects on the dopaminergic system of  
 3 three weekly injections of 10-milligram per  
 4 kilogram, 1,1-dimethyl-4,4-bypyridinium paraquat;  
 5 right?  
 6 A. Yes, sir.  
 7 Q. That's XM7229.  
 8 MR. WEIR: Is that Exhibit 9?  
 9 MR. TILLERY: Sorry?  
 10 MR. WEIR: The title you read  
 11 appears different from the Exhibit 9 that I have  
 12 on eDepoze. Are you on XM72598?  
 13 MR. TILLERY: Should be.  
 14 THE WITNESS: It does not indicate  
 15 the 10 milligrams in the title.  
 16 MR. WEIR: That's why I just  
 17 asked.  
 18 MR. TILLERY: Maybe I have the  
 19 wrong one.  
 20 We can come back to this one.  
 21 Thank you, Counsel, for pointing it out.  
 22 MR. WEIR: Of course.  
 23 MR. TILLERY: So we can come back  
 24 to this.  
 25 Q. (BY MR. TILLERY) So the exhibit

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<p>1 marked No. 9, in the title here, is referencing</p> <p>2 XM7258 study; right?</p> <p>3 A. Yes, sir.</p> <p>4 Q. And if we go all the way to the</p> <p>5 Purpose, you can go to 116790.</p> <p>6 Do you see Study Design?</p> <p>7 A. Yes, sir.</p> <p>8 Q. And here it says the design was: To</p> <p>9 investigate whether the lack of nigrostriatal</p> <p>10 neurotoxicity observed in study XM7229 could be</p> <p>11 repeated, a dosing study was designed using C57BL6J</p> <p>12 mice from the external supplier Charles River UK.</p> <p>13 Right?</p> <p>14 A. Yes, sir.</p> <p>15 Q. And then it reports that the mice were</p> <p>16 injected with paraquat in order to assess whether</p> <p>17 a dose of 10 milligrams per kilogram once a week</p> <p>18 for three consecutive weeks caused a reduction in</p> <p>19 the striatal dopamine and a loss of dopaminergic</p> <p>20 neurons, right? In the substantia nigra pars</p> <p>21 compacta; correct?</p> <p>22 A. That's what it reads, yes, sir.</p> <p>23 Q. Okay. And if you go to the Results</p> <p>24 section under 1.2: The administration of 10</p> <p>25 milligrams per kilogram paraquat dichloride once a</p>	<p>1 in the concentration of striatal dopamine and its</p> <p>2 metabolites.</p> <p>3 Do you see that?</p> <p>4 A. Yes, sir.</p> <p>5 Q. All right. Now, if you skip forward,</p> <p>6 do you --</p> <p>7 A. Sir, may I ask, would it be possible</p> <p>8 for the person doing the eDepoze to make the</p> <p>9 screen just a little bit bigger? I'm struggling</p> <p>10 with reading some of the text.</p> <p>11 Q. Absolutely. We'll try.</p> <p>12 A. Thank you.</p> <p>13 MR. WEIR: While we're doing that,</p> <p>14 I would just like to reassert my standing</p> <p>15 objection, this is outside of the scope of the</p> <p>16 designated topics.</p> <p>17 Q. (BY MR. TILLERY) And if you'd look</p> <p>18 over this, take your time and read it to make sure</p> <p>19 you see it.</p> <p>20 A. Sir, the conclusion?</p> <p>21 Q. Actually, let's go to the page 116792.</p> <p>22 And if you'd go to Recent reports in</p> <p>23 that page? I think part of it might be cut off a</p> <p>24 little bit.</p> <p>25 A. Unfortunately, yeah, it is. Part of</p>
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<p>1 week for three weeks resulted in a statistically</p> <p>2 significant -- and it gives the numerical data --</p> <p>3 reduction in dopaminergic neuronal cell number in</p> <p>4 the substantia nigra pars compacta.</p> <p>5 Right?</p> <p>6 A. That is stated there, yes, sir.</p> <p>7 Q. Okay. And the magnitude of these</p> <p>8 clinical signs was greater in Charles Rivers C57</p> <p>9 mice than was previously seen in Alderley Park C57</p> <p>10 black mice.</p> <p>11 Do you see that at the end of the</p> <p>12 sentence?</p> <p>13 A. I do.</p> <p>14 Q. And then the conclusion is: Three</p> <p>15 weekly i.p. injections, 10 milligrams per kilogram</p> <p>16 of paraquat dichloride, when administered to</p> <p>17 Charles River, male, C57BL6; mice, appeared to</p> <p>18 produce a statistically significant reduction in</p> <p>19 dopaminergic cell number in the substantia nigra.</p> <p>20 The magnitude of this cell loss was</p> <p>21 similar to that previously reported by others.</p> <p>22 Do you see that?</p> <p>23 A. Yes, sir.</p> <p>24 Q. And consistent with findings in the</p> <p>25 literature, paraquat did not produce a reduction</p>	<p>1 it is cut off.</p> <p>2 Q. There you go.</p> <p>3 A. Thank you.</p> <p>4 Q. When we try to enlarge it, it might --</p> <p>5 And if you'd read that page.</p> <p>6 A. Okay.</p> <p>7 [Document review.]</p> <p>8 MR. WEIR: Do you know if it's</p> <p>9 possible to put it in landscape mode so that it</p> <p>10 can go bigger? I haven't worked with it in</p> <p>11 presentation mode so I don't know.</p> <p>12 MR. TILLERY: We'll do our best.</p> <p>13 MR. WEIR: Appreciate it.</p> <p>14 THE WITNESS: I've got a huge</p> <p>15 screen but seeing very little text, so my poor</p> <p>16 eyes are struggling.</p> <p>17 MR. WEIR: Steve, I don't know if</p> <p>18 you all intended to do it, but we've gone out of</p> <p>19 presentation mode. I don't know if you intended</p> <p>20 for Mr. Dixon to navigate to the page, which we'll</p> <p>21 be happy to do.</p> <p>22 MR. TILLERY: Well, we're</p> <p>23 struggling trying to make it bigger.</p> <p>24 MR. WEIR: Understood.</p> <p>25 THE WITNESS: I can power through</p>

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1 if we can't.  
 2 MR. TILLERY: Maybe if we gave the  
 3 document to you to look at, so you could handle it  
 4 yourself, perhaps that would work better.  
 5 THE WITNESS: I'm happy to give  
 6 that a try.  
 7 Okay, I'm opening the exhibit.  
 8 MR. TILLERY: So please  
 9 familiarize yourself with that.  
 10 THE WITNESS: Okay, sir. And what  
 11 page were we going to?  
 12 MR. TILLERY: We'd been through  
 13 the first page on Executive Summary, I believe.  
 14 We had talked about that and the conclusions.  
 15 So if you could direct yourself to  
 16 the page 11 of 57 of the study.  
 17 THE WITNESS: Okay.  
 18 I am on that page, and I do have  
 19 the ability to make it a little bit larger, so  
 20 thank you for that.  
 21 MR. TILLERY: All right.  
 22 THE WITNESS: It works -- in the  
 23 landscape mode, it's able to get bigger. Okay.  
 24 [Document review.]  
 25 THE WITNESS: Okay, sir, I've read

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1 through the document, that page.  
 2 Q. (BY MR. TILLERY) All right. Yeah,  
 3 and just keep looking through it. I've got some  
 4 general questions.  
 5 Dr. Marks reported the  
 6 statistically significant reduction in neurons,  
 7 dopaminergic neurons in this study, didn't she,  
 8 sir?  
 9 A. I'm trying --  
 10 Q. You're looking through the results?  
 11 Just take your time and look through the document.  
 12 A. Yeah. So that was back at the Results  
 13 section.  
 14 Q. If you look at the Conclusion -- you  
 15 can look at Results or Conclusion.  
 16 A. Yes, sir, I'm going to go back to that  
 17 first page, sir. The Section 1.1, 1.2, and 1.3  
 18 where the conclusion is.  
 19 Okay, I'm back on that page. So  
 20 Dr. Marks' conclusion was three weekly i.p.  
 21 injections appeared to produce a statistically  
 22 significant reduction in the dopaminergic cell  
 23 number in the substantia nigra, yes, sir.  
 24 Q. Right. Did you get a copy of this  
 25 study at the time it was filed in June 2007?

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1 A. I do not recall receiving that copy or  
 2 being aware of this at that time.  
 3 Q. When is your first clear recollection  
 4 of being made aware of this study?  
 5 A. I think it's very similar to before.  
 6 Certainly I was aware when we made the submission.  
 7 I cannot identify a particular time prior to that  
 8 where I was definitively aware of it.  
 9 Q. Okay. The first awareness that you  
 10 remember was December of last year, six months  
 11 ago; right?  
 12 A. With specificity. I certainly believe  
 13 there's a possibility I have seen it prior to  
 14 that; but with specificity and definitiveness, in  
 15 December.  
 16 Q. December of 2019; right?  
 17 A. Correct, as part of pulling together  
 18 that submission.  
 19 Q. Right. Okay. And Dr. Marks and you  
 20 looked through the study. You have it. You're in  
 21 control. I just want you to verify a few things.  
 22 Whereas in her first study, she used  
 23 the manual, the older stereology equipment and  
 24 software, here, she used a modern, standard,  
 25 up-to-date system.

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1 Can you verify that?  
 2 A. Let me see.  
 3 MR. WEIR: Object to the form.  
 4 Q. (BY MR. TILLERY) And she -- to be  
 5 more specific, Dr. Marks reported in the second  
 6 study she used one of the most widely used and  
 7 accurate stereology systems currently available  
 8 and the methodology was refined to further improve  
 9 the accuracy of the cell count data.  
 10 A. Sir, can you direct me to that  
 11 statement? That way I can read it.  
 12 Q. I'll try. And if it's easier, I can  
 13 give control back. You know, I can make do if  
 14 it's easier than having me scrolling.  
 15 THE VIDEOGRAPHER: And this is the  
 16 videographer. I just wanted to inform you guys  
 17 that I am not recording his scrolling, so --  
 18 MR. TILLERY: I understand that.  
 19 Thank you very much. I understand the way we have  
 20 it here.  
 21 THE WITNESS: I'm going to look at  
 22 the Methodology section.  
 23 [Document review.]  
 24 Q. (BY MR. TILLERY) So, sir, it's  
 25 page 27 of that document. You asked where this

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1 appeared?

2 A. Yes, sir, I am almost there. I was --

3 let me just read this statement so I can make sure

4 I'm following what your question is, sir.

5 I do see the statement, sir.

6 Q. Yes. What do you see?

7 A. The present study used one of the most

8 widely used and accurate stereology systems

9 currently available and the methodology was

10 refined to further improve the accuracy of the

11 cell count data.

12 Q. And then if you look in the next page,

13 referencing the older study, where it says: The

14 failure to detect a significant degree of cell

15 loss in the first study is likely to be

16 attributable to differences in the stereology

17 methodology, software and hardware used in the two

18 separate studies.

19 Do you see that?

20 A. Sir, is that in section 6, or was that

21 on that same page?

22 Q. That's in the same paragraph you were

23 reading from.

24 A. Okay.

25 Q. Let's put that up on the screen. And

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1 that would be 116808. Put that in display mode,

2 please, so that the Court and jury can see it.

3 All right. So we're looking at the

4 paragraph. That's right, the last paragraph.

5 A. Yes, sir.

6 Q. Is that the one you were looking at?

7 A. Yes, sir.

8 Q. Okay. So let's go -- it's important.

9 Let's go over it. With respect to the apparent

10 cell loss observed in the substantia nigra paras

11 compacta, the results from this present study

12 differ from the findings of the previous study.

13 That's the one we talked about first;

14 right?

15 A. Yes, sir.

16 Q. All right. Where 10-milligram per

17 kilogram paraquat dichloride, dosed once weekly

18 for three weeks, failed to produce any significant

19 signs of nigrostriatal toxicity, with only a small

20 4% but statistically non-significant reduction in

21 TH+ cells in the substantia nigra paras compacta.

22 The failure to detect a significant

23 degree of cell loss in the first study is likely

24 to be attributable to the differences in the

25 stereology methodology, software and hardware used

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1 in the two separate studies. The present study

2 used one of the most widely used and accurate

3 stereology systems currently available and the

4 methodology was refined to further improve the

5 accuracy of the cell count data. These changes to

6 the stereology hardware and software were

7 implemented following a visit to the Parkinson's

8 Institute in California and discussions with the

9 DiMonte group.

10 This is in contrast with the original

11 set up used in study XM7229 which relied upon

12 counts being carried out using a non automated

13 stage and used much older stereology software.

14 Okay?

15 Do you see that?

16 A. I do, sir.

17 Q. Was this study reported to the U.S.

18 EPA?

19 A. I do not believe this study was

20 reported until December 19th when we submitted it.

21 Q. And what did the ruling of the PR --

22 strike that.

23 What was the decision of the PRF

24 committee on this study?

25 A. It is my understanding, and based on

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1 my recollection, that the PRF committee decided,

2 although it's -- I'm just giving you my

3 understanding, that these data were consistent

4 with the data that were already in the -- had

5 already been reported in the publications.

6 Q. Okay. Can you explain to me, then,

7 how the PRF committee did that without notifying

8 your committee in the United States?

9 MR. WEIR: Object to form and

10 foundation.

11 THE WITNESS: I do not have a

12 definitive answer for that, sir. My understanding

13 is that this study and the other studies were

14 considered by the PRF committees, and they made a

15 determination that it was not -- ultimately not a

16 reportable situation.

17 Q. (BY MR. TILLERY) Yes, but you know

18 that the standard protocol for all the time you've

19 been at Syngenta was when a PRF committee votes

20 and makes a decision, that goes up the chain to

21 the people who make the final decision. They

22 don't make the final decision; correct?

23 MR. WEIR: Object to form.

24 THE WITNESS: The decision is made

25 by the PRF committee in consultation with the



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1 legal advice of the attorney on the committee.  
 2 Q. (BY MR. TILLERY) Are you telling me  
 3 that the final decision about whether to report  
 4 this is made by the PRF committee?  
 5 A. That is my understanding.  
 6 Q. Okay. So I'm going to represent to  
 7 you that Dr. Botham testified last week and said  
 8 PRF committee makes recommendations, and those go  
 9 straight to the Americans, to the people here who  
 10 have the reporting obligations to the EPA. And  
 11 these decisions, whether it's decided to produce  
 12 the documents in a 6(a)(2) report or not, are  
 13 finally made by the 6(a)(2) committee in the  
 14 United States.  
 15 Do you agree with that or not?  
 16 A. That is the process, yes, sir.  
 17 Q. All right. Is that the process today?  
 18 A. I believe that has been our process in  
 19 the past and is our process today.  
 20 Q. All right. So -- and what is the  
 21 difference in that process between a PRF approach  
 22 committee and a PRF committee?  
 23 A. The PRF approach committee is the  
 24 scientists that do an evaluation of the data, then  
 25 they submitted it -- they submit to the 6(a)(2)

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1 committee who evaluates the information provided  
 2 and then makes the determination on the  
 3 follow-through.  
 4 Q. All right. So the -- it's not up to  
 5 the PRF committee or the PR -- are you -- or  
 6 strike that.  
 7 Are you distinguishing between a PRF  
 8 committee and a PRF approach committee?  
 9 A. I'm concerned that maybe our -- we're  
 10 saying the same thing with different words. The  
 11 6(a)(2) committee receives recommendation from the  
 12 PRF committee, the approach committee, I believe  
 13 it is, and that would be the scientist.  
 14 Once they fill out their analysis  
 15 of the information, it's provided to the  
 16 committee, and the committee then uses its process  
 17 to evaluate the reportability of it.  
 18 Q. When you prepared for this deposition,  
 19 you went through the 6(a)(2) reports on Syngenta's  
 20 reporting on paraquat, didn't you?  
 21 A. I did review some 6(a)(2) reports,  
 22 yes, sir.  
 23 Q. Did you see a reference to these  
 24 studies in a committee report from a PRF  
 25 committee?

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1 A. I did not see to these particular  
 2 studies, to the one study that we did submit the  
 3 PRF on. I did review that and the report and the  
 4 determination leading up to the report.  
 5 Q. Yeah, let's make sure we're speaking  
 6 the same language here.  
 7 Did you ever -- and let's look at the  
 8 last one. This number; 25. This is the XM7258  
 9 report by Dr. Marks, June 2007.  
 10 Did the PRF committee ever make a  
 11 decision and send that on to the 6(a)(2)  
 12 committee?  
 13 A. I have not seen those documents. I do  
 14 not know.  
 15 Q. Okay. You never saw it?  
 16 A. No, sir, I do not recall that I have  
 17 ever seen those.  
 18 Q. And it isn't in the file either, is  
 19 it, where you'd expect to see it?  
 20 A. I did not go looking for those, so I  
 21 do not know, sir.  
 22 Q. Well, you just told me that you did in  
 23 preparation for the deposition go through and look  
 24 at the 6(a)(2) reports.  
 25 A. The 6(a)(2) reports that we submitted,

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1 I did review those. This particular one that I  
 2 just referenced, for example, was the one we  
 3 submitted I believe in 2007. I pulled the 6(a)(2)  
 4 letter, and I reviewed the information in that. I  
 5 would not and did not pull information on reports  
 6 we did not submit.  
 7 Q. Okay. So you don't know if the PRF  
 8 committee ever voted on this Louise Marks study.  
 9 Is that what you're telling me?  
 10 A. I do not have knowledge on that.  
 11 Q. Okay. Had there been a PRF committee  
 12 decision, one way or another, to report or not to  
 13 report, the usual and ordinary practice at  
 14 Syngenta would have been to send that on to the  
 15 6(a)(2) committee for final decision; correct?  
 16 MR. WEIR: Object to the scope and  
 17 foundation.  
 18 THE WITNESS: The normal process  
 19 is information is provided from the PRF committee  
 20 to the 6(a)(2) committee, yes sir.  
 21 Q. (BY MR. TILLERY) Did you find  
 22 evidence that that was done with respect to this  
 23 study, study research report XM7258?  
 24 A. I did not go looking for that  
 25 information. I do not know if it is there or it

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1 is not there. I did not review those files.  
 2 Q. So you, in preparation for this, have  
 3 no idea whether that report was ever even filed;  
 4 right?  
 5 A. I cannot speak definitively to that.  
 6 I --  
 7 Q. All right.  
 8 A. I pulled --  
 9 Q. Go ahead. Sorry. I interrupted you,  
 10 sorry.  
 11 A. No, sir. I -- for the 6(a)(2) reports  
 12 that we filed, I did review those.  
 13 And for these studies that we  
 14 ultimately submitted, I became much more aware of  
 15 the content and the thought process behind them as  
 16 we made additional submissions at the end of  
 17 December.  
 18 Q. So let me ask you: Had you sat on a  
 19 committee, a 6(a)(2) committee? You were on it in  
 20 2007; right?  
 21 A. I was -- at that time, being new in  
 22 the role, I believe I was being informed, but I  
 23 don't believe I actually sat on the committee in  
 24 2007. I think I was an ad hoc or being informed  
 25 member. That's the best of my recollection.

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1 Q. So you're saying you now weren't  
 2 present when this happened?  
 3 A. I do not recall being present in a  
 4 6(a)(2) meeting where any of this was discussed,  
 5 no, sir.  
 6 Q. That's what I'm asking you. Are you  
 7 telling me you weren't a member of any 6(a)(2)  
 8 committee when you took this job over in 2006?  
 9 You weren't a member of the committee  
 10 then, right? Or you were?  
 11 A. I was not an official standing member.  
 12 I was an ad hoc person being advised of the  
 13 discussions and deliberations going on. And that  
 14 ultimately would have been submitted under my name  
 15 and title. So, for example, these studies were  
 16 done before I was in regulatory, or at least my  
 17 awareness of, of I think the initial submission,  
 18 but there's another paraquat-related one I pulled,  
 19 Mr. Tillery, for example, of some information in a  
 20 PowerPoint, and I was as a -- the regulatory  
 21 person given the information to submit, but I was  
 22 at best an ad hoc member on these committees.  
 23 I do not recall having any  
 24 detailed interactions other than just being  
 25 informed of the process and what was being

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1 discussed.  
 2 Q. Well, we're going to have to start  
 3 over now, because I sort of remember a couple of  
 4 hours ago you telling us that you started in  
 5 regulatory in 2006, about October. The better  
 6 part of a year before these studies were reported.  
 7 That's what I remember you saying.  
 8 A. Yes, sir.  
 9 Q. We can look at the record to verify  
 10 that, but is that what you remember?  
 11 A. That is correct, sir.  
 12 Q. And I also remember you saying you  
 13 were a part of the 6(a)(2) committee when you took  
 14 over that job.  
 15 A. I don't believe I -- if I said I was a  
 16 full member, that would have been an incorrect  
 17 statement. I did participate on an ad-hoc basis.  
 18 I believe at the time of this submission, if I'm  
 19 not mistaken, I did not make this submission that  
 20 we were referencing on the AD558, which was one of  
 21 the ones I pulled. I think that was submitted  
 22 prior -- either prior to my position, but I do not  
 23 think I made that initial submission.  
 24 Q. You didn't make what submission?  
 25 A. When we were talking about the --

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1 these studies here, I wasn't part of -- we  
 2 reported 6(a)(2) advice for one of the Louise  
 3 Marks studies, and I do not believe -- and that's  
 4 the one I was referencing. I was -- I do not  
 5 believe I actually made that submission. I  
 6 believe it was submitted by another regulatory  
 7 manager at that time.  
 8 Q. Right. But that's not a study we're  
 9 even talking about right now, is it?  
 10 A. No, sir, it's part of this pack of  
 11 studies.  
 12 Q. Right. And so you know that the  
 13 studies were not submitted to the USEPA in 2007,  
 14 don't you?  
 15 MR. WEIR: Object to the form.  
 16 Q. (BY MR. TILLERY) Don't you, sir?  
 17 A. I acknowledge the studies were not  
 18 submitted to the EPA in 2007.  
 19 Q. All right. And you know that for sure  
 20 because you're the guy who signed the submission  
 21 on December 13, 2019, aren't you?  
 22 A. Yes, sir, that is correct.  
 23 Q. And you wouldn't have had to give them  
 24 to the USEPA 13-and-a-half years later if they'd  
 25 have been filed in the first place; right?

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1 MR. WEIR: Object to form.  
 2 THE WITNESS: Had they been filed  
 3 in 2007, we would not have made a submission in  
 4 2019; however --  
 5 Q. (BY MR. TILLERY) So that means --  
 6 Go ahead, I'm sorry.  
 7 A. Yes. My understanding of that, just  
 8 because trying to understand what was happening,  
 9 is that the 6(a)(2) committee would have -- and  
 10 I'm giving you my understanding, not having  
 11 definitive first-hand knowledge that I'm aware of,  
 12 that these studies would have been considered and  
 13 were determined not to have new information, and  
 14 they -- based upon the decision of the 6(a)(2)  
 15 committee, and the advice, I guess, that they  
 16 received working -- looking at these, the  
 17 determination was made they were not relevant to  
 18 be submitted at the time.  
 19 Q. So have you ever seen a 6(a)(2) report  
 20 on these studies?  
 21 A. On these particular studies? I do not  
 22 recall --  
 23 Q. Yes, the ones -- the ones that you  
 24 submitted in December 2019, have you ever seen a  
 25 6(a)(2) report on any of those studies?

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1 A. I do not recall seeing those.  
 2 Q. All right. And have you ever seen the  
 3 report of a PRF committee with respect to any of  
 4 the studies that you submitted in December 2013?  
 5 A. The studies specifically -- sorry, in  
 6 2013, sir, or 2019?  
 7 Q. Strike the question.  
 8 Have you ever seen any minutes,  
 9 reports, or any written indication of a  
 10 determination by a PRF committee regarding any of  
 11 the studies that you filed in 2019 regarding  
 12 paraquat?  
 13 A. It is my recollection that when I  
 14 reviewed the information on the one that was  
 15 submitted in that time frame, there was a  
 16 reference to these studies replicating information  
 17 already in the published literature.  
 18 Q. So you remember there was a study, a  
 19 PRF committee decision; right?  
 20 A. If my recollection is serving me  
 21 correctly, that in the determination for the one  
 22 that was submitted, these were also referenced.  
 23 Q. Okay. And can you direct us to where  
 24 we would find that document or those documents?  
 25 Because they've never been turned over to us.

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1 I'll represent that to you. Even though we've  
 2 asked for all of those decisions.  
 3 A. My operating assumption is that they  
 4 would have been part of the discovery process. I  
 5 am not familiar as far as to -- I would have  
 6 assumed that they were part of that process.  
 7 Q. The studies have a report date of  
 8 2007, but were actually conducted in 2003 to 2005.  
 9 Would the PRF 6(a)(2) decisions have  
 10 been made when the results were known or only  
 11 after the reports were finalized?  
 12 MR. WEIR: Object to the  
 13 foundation.  
 14 And Steve, I'd like to take a  
 15 break at some point. I don't want to interrupt  
 16 your flow but at some point when you get a chance,  
 17 please.  
 18 THE WITNESS: And so in responding  
 19 to the question, I believe the process would have  
 20 been that new information would have been referred  
 21 to the PRF committee by the testing scientists  
 22 when they identified what they thought was  
 23 information that needed to be confirmed --  
 24 considered by that committee.  
 25 Q. (BY MR. TILLERY) Whether or not the

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1 study was finalized and reported out?  
 2 A. I believe that to be the case. I  
 3 believe that it's not a requisite that a study is  
 4 completed before those considerations take place.  
 5 Q. So when is it that you think the PRF  
 6 document that referenced the Marks studies was  
 7 created?  
 8 A. I believe -- and I'm searching my  
 9 memory. I believe that was submitted in May of  
 10 2007ish.  
 11 Q. Okay.  
 12 A. I believe.  
 13 Q. And then let me ask you something: If  
 14 they made that decision, can you tell me why there  
 15 was no report from the 6(a)(2) committee?  
 16 MR. WEIR: Object to the form,  
 17 foundation.  
 18 THE WITNESS: I believe there was  
 19 a report. It would have been Advice 558 that  
 20 accompanied the submission of that letter, sir.  
 21 The 6(a)(2) submission would have been made --  
 22 Q. (BY MR. TILLERY) You'll have to  
 23 clarify that for us, sir.  
 24 A. Yes, sir. So the decision to submit  
 25 would have been a decision determined by the

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1 6(a)(2) committee. The submission would have  
 2 happened, and there is a -- you know, when those  
 3 are -- decisions are made, there is a PRF  
 4 recommendation that went to the 6(a)(2) committee  
 5 that describes the information and why it is being  
 6 meshed to the local 6(a)(2) committee for that  
 7 potential submission.  
 8 It is in that --  
 9 Q. Go ahead.  
 10 A. I was going to say, that would be the  
 11 record that I'm referencing when I mentioned  
 12 the -- that I went back and reviewed that 2007  
 13 submission.  
 14 Q. Yeah, I'm talking about the ones that  
 15 you say you never saw until December of 2019.  
 16 A. And what I said --  
 17 Q. Was there a 6(a)(2) report of a  
 18 decision by a 6(a)(2) committee in the  
 19 United States regarding those studies?  
 20 A. I do not recall seeing a specific  
 21 6(a)(2) report for those specific studies. The  
 22 references to those studies I saw in that PRF  
 23 determination for that earlier 2007, where the  
 24 studies are referenced. I -- but just to be  
 25 clear, I do not recall seeing, for example, for

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1 the study XM7229, I don't recall seeing a specific  
 2 PRF committee report on that.  
 3 Q. And I mean to include everything you  
 4 filed in your transmittal to the USEPA in  
 5 December 2019 in response to my letter to your  
 6 counsel.  
 7 Have you seen 6(a)(2) reports with  
 8 respect to each of those studies?  
 9 A. I do not recall seeing 6(a)(2) reports  
 10 for each of those studies.  
 11 Q. Have you seen 6(a) -- strike that.  
 12 Have you seen 6(a)(2) reports for any  
 13 of those studies?  
 14 A. The three that were submitted, sir?  
 15 Q. The ones you submitted in  
 16 December 2019, any of the ones you referenced,  
 17 were there 6(a)(2) reports submitted?  
 18 A. I do not recall seeing any specific  
 19 6(a)(2) reports for each of those individual  
 20 studies.  
 21 Q. All right. Now, before we take our  
 22 break, did you ever see a specific PRF finding for  
 23 each of those studies?  
 24 A. I do not believe or recall seeing a  
 25 specific PRF recommendation or finding for each of

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1 those studies.  
 2 MR. TILLERY: All right. Let's  
 3 take our break now.  
 4 THE VIDEOGRAPHER: We are going  
 5 off the record at 2:46 p.m. Eastern.  
 6 (Recess taken, 2:46 p.m. to  
 7 3:08 p.m. EDT)  
 8 THE VIDEOGRAPHER: We are now back  
 9 on the record at 3:08 p.m. Eastern Time.  
 10 Q. (BY MR. TILLERY) Sir, the last study  
 11 that we looked at was the second Marks study,  
 12 right? And that's XM7258.  
 13 You remember that?  
 14 A. (Witness nods.)  
 15 Q. That's the one that's on the screen.  
 16 Okay?  
 17 A. I'm sorry, I need to reopen. I'm just  
 18 seeing a new exhibit introduced on my screen, so  
 19 let me open that up, sir.  
 20 Okay, I have the title page up.  
 21 Q. That study was reportable under 40  
 22 C.F.R. 159.158, wasn't it?  
 23 MR. WEIR: Reassert my standing  
 24 objection on scope and foundation.  
 25 THE WITNESS: My answer would be

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1 that that was a determination made by the 6(a)(2)  
 2 committee under the considerations with the  
 3 counsel, so the determination on reportability was  
 4 handled by that group.  
 5 Q. (BY MR. TILLERY) When was that  
 6 decision made?  
 7 A. I'm not aware of a specific date on  
 8 that, sir.  
 9 Q. Well, I mean, have you got a year?  
 10 A. I have not seen, to my knowledge, that  
 11 information, so I couldn't give you a year, sir.  
 12 Q. Well, you know that you're the one  
 13 that signed the documentation that filed it with  
 14 the USEPA, aren't you?  
 15 A. For this particular, I believe these  
 16 were the ones submitted in 2019, sir.  
 17 Q. Right. That's the one I'm talking to  
 18 you about.  
 19 A. Okay.  
 20 Q. That was reportable. I said that was  
 21 reportable.  
 22 A. I'm sorry, sir, I didn't understand  
 23 the question, but no, these were not reported as  
 24 6(a)(2), sir.  
 25 Q. And so you didn't report them as

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1 6(a)(2), you just sent them along; right?  
 2 A. These were sent to Marianne Mannix,  
 3 and as part of the paraquat registration review,  
 4 and so that's who they were sent to, sir.  
 5 Q. All right. So you sent them to the  
 6 same lady that you had your private meeting with  
 7 last May of 2019; right?  
 8 MR. WEIR: Object to the form.  
 9 Q. (BY MR. TILLERY) Is that right?  
 10 A. I sent them to Marianne Mannix, the  
 11 chemical review manager for paraquat.  
 12 Q. So you're unable to tell me whether  
 13 XM7258 was reportable under 40 C.F.R. 159.158; is  
 14 that correct?  
 15 A. That determination would have been  
 16 made by the 6(a)(2) committee, and so I cannot  
 17 speak to that determination.  
 18 Q. Well, you were on the 6(a)(2)  
 19 committee.  
 20 A. Not when that particular report or not  
 21 that I'm aware of when that particular report  
 22 would have been evaluated, sir. I don't recall  
 23 being on the committee at that time. If so, it  
 24 was as an ad hoc member, but I don't have specific  
 25 recollection of that report being discussed during

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1 a 6(a)(2) committee that I was engaged in.  
 2 Q. Well, what is an ad hoc member of the  
 3 6(a)(2) committee?  
 4 A. So similar to earlier in our  
 5 questioning, sir, when a particular subject is  
 6 brought to a 6(a)(2) committee, it involves the  
 7 scientist, and often they will also reach out to  
 8 other stakeholders, in this case, myself as a  
 9 regulatory manager, who would be involved in a  
 10 potential submission, to participate on that  
 11 particular topic but not necessarily on all of the  
 12 topics associated in a 6(a)(2) meeting.  
 13 Q. Right. Except you would be consulted  
 14 when it involved a product that came under your  
 15 jurisdiction; right?  
 16 A. Most likely I would have been in those  
 17 conversations, although I don't have a specific  
 18 recollection about these. These conversations may  
 19 have taken place prior to my having a leader -- a  
 20 responsibility to paraquat. I don't have a  
 21 specific date when that study would have been  
 22 reported or at least I do not recall a specific  
 23 date when XM7258 was discussed at the 6(a)(2)  
 24 committee or with the PRF committee.  
 25 Q. Were you on any committee at Syngenta

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1 in December 19th that decided to report these  
 2 studies to the USEPA?  
 3 MR. WEIR: Object to the form. Do  
 4 you mean December 2019?  
 5 Q. (BY MR. TILLERY) Excuse me, strike  
 6 the question.  
 7 MR. TILLERY: Thank you, Counsel.  
 8 Q. (BY MR. TILLERY) Were you on any  
 9 committee of Syngenta in December 2019 when the  
 10 decision was made to report XM7258 study?  
 11 A. I would like to ask a question of my  
 12 counsel just to check. Those were discussions  
 13 that involved an attorney, and so I want to  
 14 involve -- make sure that my answer doesn't  
 15 compromise any privilege.  
 16 MR. WEIR: I'm happy to go off the  
 17 record and discuss in a breakout room with him,  
 18 Steve, or if you just want to rephrase, that's  
 19 fine too.  
 20 MR. TILLERY: Well, I'm asking him  
 21 do they have -- and if this wasn't the normal way  
 22 of reporting, if they did this differently, he can  
 23 tell me without divulging communications from  
 24 outside counsel. I don't think we should do this  
 25 in the middle of a standing question.

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1 Q. (BY MR. TILLERY) Was there a  
 2 formalized committee, like a 6(a)(2) committee or  
 3 a PRF committee, in December of 2019 which made a  
 4 decision to report XM7258 to the USEPA?  
 5 MR. WEIR: Mr. Dixon, I will note  
 6 you should feel free to answer the question with  
 7 factual information and as long as you're not  
 8 revealing the content of attorney-client  
 9 communications.  
 10 THE WITNESS: Thank you, Tom. We  
 11 did have a group of people that were involved in  
 12 the process of deciding to submit the information.  
 13 Q. (BY MR. TILLERY) Okay. Who were the  
 14 people in the group?  
 15 A. The people in the group would have  
 16 been myself, Phil Botham, Andy Cook, counsel, and  
 17 I certainly would have -- my supervisor would have  
 18 been involved or at least aware of the  
 19 discussions.  
 20 Q. What was your supervisor?  
 21 A. I believe at the time it was John  
 22 Abbott that -- who would have had awareness of our  
 23 intention to submit these studies.  
 24 Q. And what caused you to submit the  
 25 studies when you didn't submit them in 2007 or

1 2005 or 2003 when they were done?  
 2 MR. WEIR: Again, Mr. Dixon, you  
 3 can answer to the extent you're not revealing any  
 4 attorney-client communications.  
 5 THE WITNESS: Okay. The  
 6 determination to submit the studies was based upon  
 7 the fact that the information was replicating  
 8 information that was already out there. We had no  
 9 objection to providing those to EPA.  
 10 Q. (BY MR. TILLERY) So -- and that was  
 11 the basis for it. Did you record that somewhere?  
 12 A. Me personally? I don't believe I've  
 13 recorded anything to that. I think that was part  
 14 of the thought process behind submitting it was  
 15 just to make sure EPA had this information.  
 16 Q. Okay. And you thought they should  
 17 have it in 2019, but not in 2007; right?  
 18 MR. WEIR: Object to the form and  
 19 foundation.  
 20 THE WITNESS: The determination  
 21 was made to provide it in 2019 to essentially  
 22 insure EPA has this information, and so we  
 23 provided it.  
 24 Q. (BY MR. TILLERY) Yeah, let's go back  
 25 to my question. You didn't have that same kind of

1 foundation, scope.  
 2 THE WITNESS: And this is  
 3 certainly not an area where I am a toxicological  
 4 expert. My understanding is that these data would  
 5 have been evaluated for reportability. And if the  
 6 committee would have determined them to be  
 7 reportable, the -- they would have been reported.  
 8 MR. TILLERY: I move to strike  
 9 your answer as unresponsive.  
 10 Q. (BY MR. TILLERY) Let's start over.  
 11 Dr. Marks' findings in study XM7258 were also  
 12 relevant to the assessment of the risks or  
 13 benefits of paraquat, weren't they?  
 14 MR. WEIR: Same objections.  
 15 THE WITNESS: I do not believe I  
 16 have the scientific or toxicological background to  
 17 make a definitive answer on that, sir.  
 18 Q. (BY MR. TILLERY) Okay. Dr. Marks'  
 19 finding of a statistically significant reduction  
 20 in dopaminergic neurons in the substantia nigra of  
 21 the Charles River black mouse was relevant to the  
 22 assessment of the risks or benefits of paraquat in  
 23 study 7258, wasn't it, sir?  
 24 MR. WEIR: Same objections.  
 25 THE WITNESS: Those

1 analysis in 2007, did you? You didn't think they  
 2 needed it then?  
 3 A. I don't recall --  
 4 MR. WEIR: Objection.  
 5 THE WITNESS: I do not recall the  
 6 specifics of that, although it's my understanding  
 7 that the information in 2007 was most likely  
 8 considered through the 6(a)(2) committee and the  
 9 decision on submission of those individual  
 10 studies, in addition to the one that was, would  
 11 have been evaluated.  
 12 Q. (BY MR. TILLERY) But you've never  
 13 ever seen a report of that study being evaluated  
 14 by a 6(a)(2) committee meeting, have you?  
 15 MR. WEIR: Object to form.  
 16 THE WITNESS: That particular  
 17 study I do not believe I have seen the PRF  
 18 committee indication on that. I do believe that  
 19 study was referenced in another PRF indication  
 20 that I did review in preparing for this  
 21 deposition.  
 22 Q. (BY MR. TILLERY) Dr. Marks' findings  
 23 in XM7258 were also relevant to the assessment of  
 24 the risks or benefits of paraquat, weren't they?  
 25 MR. WEIR: Object to form,

1 determinations, sir, would have been made by our  
 2 toxicological experts.  
 3 MR. TILLERY: Can you answer my  
 4 question?  
 5 THE WITNESS: I believe the  
 6 toxicological experts would have made that  
 7 determination. I am not able to speak  
 8 toxicologically definitive on that, sir.  
 9 Q. (BY MR. TILLERY) Can you say "yes" or  
 10 "no" whether you can answer my question?  
 11 MR. WEIR: Object to form.  
 12 Q. (BY MR. TILLERY) You're the corporate  
 13 designee for Syngenta AG and Syngenta Crop  
 14 Protection. Can you or can you not answer that  
 15 question?  
 16 A. Please restate the question, sir.  
 17 Q. Dr. Marks' findings in XM7258 of a  
 18 statistically significant reduction in  
 19 dopaminergic neurons in the substantia nigra of  
 20 the Charles River black mouse were relevant to the  
 21 assessment of the risks or benefits of paraquat,  
 22 weren't they?  
 23 MR. WEIR: Objection to form,  
 24 foundation and scope.  
 25 THE WITNESS: I will give you my

1 answer based upon my understanding of the science  
2 and in light of, in particular, recent conclusions  
3 by EPA that those studies conducted by the i.p.  
4 route are not relevant for human exposure, sir.

5 Q. (BY MR. TILLERY) Okay. So why did  
6 you turn them over in 2019? If they're not  
7 relevant, why in the world did you sign that  
8 letter?

9 MR. WEIR: Object to form.

10 THE WITNESS: Because they're --  
11 we are being transparent with the agency, and we  
12 are providing the data, and the agency has the  
13 information, sir.

14 Q. (BY MR. TILLERY) Okay. So the  
15 information in 2007 wasn't something you wanted to  
16 be transparent about. Suddenly, after receiving a  
17 letter from me in December 2019, demanding  
18 reporting, you suddenly decided to be transparent?  
19 Is that what happened?

20 MR. WEIR: Object to the form,  
21 argumentative.

22 THE WITNESS: A determination was  
23 made to submit the studies. We did make that  
24 determination after receiving your letter. And it  
25 was to ensure the agency had full information

1 MR. TILLERY: Yes, can you.

2 MR. WEIR: Thank you.

3 THE WITNESS: That determination,  
4 sir, would have been made by the 6(a)(2) committee  
5 in consultation with the counsel.

6 Q. (BY MR. TILLERY) Can you answer it  
7 today?

8 A. And today, I would say that we would  
9 follow the process of having the information  
10 considered by the 6(a)(2) committee to make sure  
11 that it was either reportable or determined not to  
12 be. We would follow the same process today.

13 Q. But as the corporate designee for  
14 Syngenta, you cannot answer my question "yes" or  
15 "no," is that what you're telling me?

16 MR. WEIR: Object to form.

17 Q. (BY MR. TILLERY) I need an answer  
18 before I go over -- go on.

19 A. Sure. The answer is the same, sir, is  
20 that when we have information such as this, it is  
21 provided to the relevant team and committee to  
22 make the determination on whether or not it's  
23 reportable.

24 Q. Well, you're on that team now, right?

25 A. Not a standing member, sir.

1 related to these studies.

2 Q. (BY MR. TILLERY) Okay. Earlier we  
3 established that 40 C.F.R. Section 159.158  
4 required Syngenta to report any of Dr. Marks'  
5 conclusions and opinions if "The information was  
6 relevant to the assessment of risks and benefits"  
7 of paraquat, because she was a Syngenta employee.

8 Do you remember us talking about that?

9 A. Yes, sir.

10 Q. We also talked about that same  
11 section, No. 159.158, in terms of a qualified  
12 expert.

13 Do you understand that? Do you  
14 remember?

15 A. Yes, sir.

16 Q. All right. So because Dr. Marks was a  
17 qualified expert, 40 C.F.R. 159.158 required  
18 Syngenta to report Dr. Marks' findings of a  
19 statistically significant reduction in  
20 dopaminergic neurons in the substantia nigra of  
21 the Charles River mouse, didn't it?

22 MR. WEIR: Object again to form,  
23 scope, foundation.

24 And if I could have a standing  
25 objection on scope.

1 Q. Okay. But you've -- you're -- to the  
2 extent you're dealing with paraquat, they invite  
3 you to the meetings; correct?

4 A. Correct.

5 Q. So because she was, Dr. Marks was a  
6 qualified expert and an employee, Syngenta was  
7 required to report her findings of a statistically  
8 significant reduction in the substantia nigra of  
9 the Charles River mouse; correct? That's how you  
10 would vote as a member of that committee once  
11 invited in; correct?

12 MR. WEIR: Object to the form.

13 THE WITNESS: It would be  
14 dependent upon the legal advice given during that  
15 committee meeting, sir.

16 Q. (BY MR. TILLERY) Oh, so you -- the  
17 committee wouldn't make a decision, it would be  
18 the lawyer that would decide it; right?

19 A. The committee --

20 MR. WEIR: Objection --

21 THE WITNESS: Sorry, Tom.

22 The committee interacts with the  
23 lawyer to make sure that it's following the  
24 6(a)(2) requirements.

25 Q. (BY MR. TILLERY) You don't have that

1 lawyer here with you right now, do you?  
 2 A. No, sir.  
 3 Q. And you see I'm -- I'm limited to you  
 4 being the designee. You're the guy I've got to  
 5 ask the questions to, because I don't have the  
 6 lawyer. I can't ask him.  
 7 So if you're voting, how are you going  
 8 to vote?  
 9 It's relevant, isn't it? It should  
 10 have been turned over.  
 11 MR. WEIR: Object to the form.  
 12 THE WITNESS: Sir, I rely on the  
 13 determination that was made back when this --  
 14 these studies would have been evaluated. In the  
 15 2019 decision to submit, it was to ensure EPA had  
 16 all of the relevant information. It's not my  
 17 recollection in 2019 that these were -- the  
 18 decision to submit went through a 6(a)(2)  
 19 committee, but it was instead to ensure that the  
 20 information was with the agency. A 6(a)(2)  
 21 committee determination would have been conducted  
 22 back at the time.  
 23 Q. Okay. But a 6(a)(2) determination  
 24 you've never seen or heard of, right?  
 25 A. That -- I do not recall seeing

1 when I sent a letter. It suddenly became  
 2 relevant, right?  
 3 A. I would --  
 4 Q. Is that when it became relevant?  
 5 A. I would even dispute the determination  
 6 as relevance. The EPA has determined that studies  
 7 that involve the i.p. injection are not relevant  
 8 for human exposure.  
 9 MR. TILLERY: Move to strike your  
 10 answer as unresponsive.  
 11 Q. (BY MR. TILLERY) It became relevant  
 12 suddenly in 2019. That's when you sent it in.  
 13 You signed the letter; right?  
 14 MR. WEIR: Object to form.  
 15 THE WITNESS: We made a  
 16 determination in 2019 to submit the studies.  
 17 Q. (BY MR. TILLERY) All right.  
 18 A. We did not -- that does not  
 19 accepting -- that is not stating its relevance.  
 20 It's saying a decision to provide the data.  
 21 Q. A few minutes ago you said you did it  
 22 to be transparent, because you --  
 23 A. Correct.  
 24 Q. -- thought that they might consider it  
 25 relevant.

1 specific to each of these studies, sir.  
 2 Q. All right. Now, it wasn't relevant in  
 3 2005, '6, or '7, when the study was done, was it?  
 4 There wasn't a finding of relevance to  
 5 turn it over to the USEPA; correct?  
 6 A. That would have been a determination  
 7 for the 6(a)(2) committee. We did not submit for  
 8 these studies, and so that would be my  
 9 understanding, they did not deem it as a relevant  
 10 6(a)(2).  
 11 Q. And it wasn't relevant in 2008, '9,  
 12 '10, it wasn't relevant to turn over then either,  
 13 was it?  
 14 A. I do not have a -- I do not believe it  
 15 was.  
 16 Q. All right. It wasn't relevant in  
 17 2011, '12, '13, '14, '15, '16, '17, or '18, was  
 18 it?  
 19 MR. WEIR: Object to the form.  
 20 Q. (BY MR. TILLERY) Was it?  
 21 A. I do not believe so, sir.  
 22 Q. All right. And it wasn't relevant for  
 23 the first 11 months of 2019, was it?  
 24 A. No, sir.  
 25 Q. It became relevant in December 2019

1 Are you changing your testimony?  
 2 A. No, sir, I'm --  
 3 Q. Were you changing --  
 4 A. No, sir, I'm not -- no, sir, I did not  
 5 say it was transparent because it was relevant. I  
 6 was saying it was to be transparent, but I did not  
 7 connect those two.  
 8 MR. TILLERY: Let's go to this  
 9 exhibit. What number is that?  
 10 (Dixon Deposition Exhibit 10  
 11 marked.)  
 12 MR. TILLERY: We're going to go to  
 13 deposition Exhibit No. 10.  
 14 Q. (BY MR. TILLERY) Now this, if I'm  
 15 reading the correct one, and I hope I am, is  
 16 another Louise Marks study dated 2007, again. And  
 17 this is an investigation reporting  
 18 Paraquat-Induced Dopaminergic Neurotoxicity in the  
 19 Charles River C57 Black Mouse: The Neurochemical  
 20 and Neuropathological and Neurobehavioural Effects  
 21 of Increasing Dosing Frequency of (Paraquat).  
 22 Do you see that?  
 23 A. Yes, sir.  
 24 Q. This is XM7371.  
 25 And I'm just going to send you to the



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1 conclusion, which is at 0911. And just see if you  
 2 can follow along. I'm trying to move through  
 3 these more quickly, Mr. Dixon. Okay?  
 4 A. Yes, sir. Will this document be  
 5 advanced, or should I be advancing it?  
 6 Q. I think she's trying. Can you go to  
 7 0911 to the conclusion page for him to see it?  
 8 Please read that to yourself, and then  
 9 I'll ask you a couple of questions about it.  
 10 A. Yes, sir.  
 11 Q. All I'm going to do is ask you to  
 12 confirm the accuracy of my statements. Okay? Go  
 13 ahead.  
 14 A. Thank you.  
 15 [Document review.]  
 16 A. I've read the paragraph, sir.  
 17 Q. All right. In this study, Dr. Marks  
 18 also found that paraquat induces loss of  
 19 dopaminergic neurons in the same part of the brain  
 20 we've been talking about, which is referenced as  
 21 the -- in here, if you see it, the SNcp, or the  
 22 substantia nigra portion of the brain; correct?  
 23 A. Correct.  
 24 Q. Do you understand the substantia nigra  
 25 is the part of the brain where most of the

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1 dopamine-producing neurons are located?  
 2 A. Yes, sir.  
 3 Q. And you understand that the purpose of  
 4 dopamine is to control or help control and  
 5 facilitate control of physical movement of the  
 6 body?  
 7 MR. WEIR: Object to the  
 8 foundation and the scope.  
 9 Q. (BY MR. TILLERY) Okay. I'm just  
 10 trying to get some background, so if you  
 11 understand the significance of this. Okay?  
 12 A. Yes, sir.  
 13 Q. So you would understand that a  
 14 compromise of the dopaminergic neurons could  
 15 result in the lack of production or reduced  
 16 production of dopamine; right?  
 17 MR. WEIR: Same objections. And  
 18 can I get another standing objection on this line  
 19 of questioning?  
 20 MR. TILLERY: Yes, you can.  
 21 MR. WEIR: Thank you.  
 22 THE WITNESS: Okay. That would --  
 23 Q. (BY MR. TILLERY) Do you understand  
 24 that?  
 25 A. Yes, sir, that would appear to be a

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1 logical conclusion.  
 2 Q. All right. And did you understand  
 3 that that's one of the hallmark components or  
 4 diagnostic criteria of Parkinson's disease?  
 5 A. I do have that understanding that  
 6 dopamine plays a key role in Parkinson's disease.  
 7 I'm certainly not well-versed in the toxicology of  
 8 it, but I do have familiarity with it from a  
 9 family member who has had that particular disease  
 10 outcome.  
 11 Q. Okay. Now, Dr. Marks confirmed her  
 12 earlier study and demonstrated that paraquat,  
 13 "induces nigral, but not striatal, toxicity."  
 14 Right? In the earlier study. We talked about it.  
 15 A. Yes, sir.  
 16 Q. And that finding is, "Information  
 17 regarding unreasonable adverse effects on the  
 18 environment of the pesticide," isn't it?  
 19 A. That determination was made by our  
 20 experts, and so I would defer to the determination  
 21 made by the 6(a)(2) committee relevant to that.  
 22 Q. You wouldn't -- so we can move on in  
 23 these and come up to an understanding of how you  
 24 can address these, you're unable to answer my  
 25 question. Would that be a fair statement?

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1 A. I'm not a toxicological expert on this  
 2 area, so I would defer on the determinations by  
 3 the tox experts on the implications of these  
 4 reports.  
 5 Q. Okay. So is Nina Heard a tox expert?  
 6 A. No, sir, not that -- not to my  
 7 knowledge.  
 8 Q. Okay. Is the attorney you referred  
 9 to, is he a toxicological expert?  
 10 A. No, sir.  
 11 Q. Okay. So who on the 6(a)(2) committee  
 12 today is a toxicological expert?  
 13 A. It would depend on the particular  
 14 compound that's being considered, because it would  
 15 be a tox-specific person; our tox experts in the  
 16 area of paraquat would be Phil Botham primarily.  
 17 Q. So you'd reach out to Phil Botham;  
 18 right?  
 19 A. I believe the report would have come  
 20 in from the tox experts to the 6(a)(2) committee  
 21 with their recommendation.  
 22 Q. Okay. So they would control, then?  
 23 Right?  
 24 MR. WEIR: Object to the form.  
 25 THE WITNESS: They would make

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1 recommendations, sir. The 6(a)(2) committee would  
 2 ultimately make a determination on the final  
 3 reportability.  
 4 Q. (BY MR. TILLERY) And I think you told  
 5 me earlier in the deposition, you'd never seen any  
 6 experience at any time since you've been  
 7 associated with this process where the 6(a)(2)  
 8 committee has reached a result that's different  
 9 from the recommendation of the PRF committee; is  
 10 that a correct statement?  
 11 A. It's a correct statement. I do not  
 12 recall such a time.  
 13 Q. Okay. Would you agree that FIFRA  
 14 Section 6(a)(2) obligated Syngenta to report this  
 15 study and Dr. Marks' finding to the EPA?  
 16 A. I would not agree with that, sir.  
 17 Q. Okay. And Dr. Marks' finding was  
 18 relevant to the assessment of the risks or  
 19 benefits of paraquat, wasn't it?  
 20 A. I believe that was a determination  
 21 that would have been made by the science experts  
 22 in the 6(a)(2) committee, sir.  
 23 Q. Not by you?  
 24 A. No, sir, I do not make scientific  
 25 determinations. I rely on the experts in the

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1 fields to do that.  
 2 Q. So you'd talk to Dr. Botham and you'd  
 3 talk to the lawyer; right?  
 4 A. We would certainly have interactions  
 5 with the science experts such as Dr. Botham and  
 6 other relevant members in the science teams.  
 7 Q. Well, who besides Dr. Botham would you  
 8 go to?  
 9 A. Members of the health science team  
 10 could be involved. Dr. Botham is an expert. Andy  
 11 Cook is an expert.  
 12 Q. Okay.  
 13 A. Nick Sturgess is an expert in this  
 14 area.  
 15 Q. Nick Sturgess doesn't work for the  
 16 company anymore, though, does he?  
 17 A. No, sir, but at the -- he's an expert  
 18 in the area, and if that's -- if he was available,  
 19 that would be a person to ask questions around  
 20 this type of information, sir.  
 21 Q. Okay. Because Dr. Marks was a  
 22 qualified expert, 40 C.F.R. Section 159.158  
 23 required Syngenta to report this particular  
 24 finding in this third study. And that's for  
 25 purposes of the record, XM7371, to the USEPA;

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1 correct?  
 2 A. I would not agree with that. I would  
 3 defer to the determination made by the experts in  
 4 the 6(a)(2) committee and the advice that that  
 5 committee made, sir.  
 6 Q. Okay. And they apparently for  
 7 15 years or so, 14 years, did not think so, but  
 8 then in 2019 in December thought they should be  
 9 turned over, right? Because this study was one of  
 10 them you turned over to USEPA after my letter,  
 11 right?  
 12 MR. WEIR: Object to the form.  
 13 THE WITNESS: In the -- the 2019  
 14 submission was not pushed through a 6(a)(2)  
 15 process. It was -- we were made a -- a straight  
 16 submission to the chemical review manager at EPA  
 17 handling paraquat, Marianne Mannix.  
 18 Q. (BY MR. TILLERY) Let me ask you: Was  
 19 this one of the studies you turned over?  
 20 A. I believe it was. There was, I  
 21 think --  
 22 Q. Okay.  
 23 A. My recollection is there was three  
 24 studies that were submitted in 2019.  
 25 Q. And this was one of them, right?

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1 A. I believe so, sir. I do not have  
 2 exact memories on the study numbers, but there --  
 3 I believe there was four studies, Marks studies,  
 4 one that was submitted in 2007, a 6(a)(2) advice  
 5 on that, and then the remaining studies, the  
 6 remaining three were the ones we submitted in  
 7 December '19, sir.  
 8 MR. TILLERY: Right. I move to  
 9 strike your answer as nonresponsive.  
 10 Q. (BY MR. TILLERY) Was the study we  
 11 just referenced of Dr. Marks one of the studies  
 12 you reported to the USEPA in December 2019?  
 13 A. Sir, I believe so, but I would need to  
 14 confirm that XM7371 was that study. I believe it  
 15 was, sir.  
 16 Q. All right. Now, let's go to the next  
 17 exhibit is No. 11.  
 18 (Dixon Deposition Exhibit 11  
 19 marked.)  
 20 Q. (BY MR. TILLERY) Deposition Exhibit  
 21 No. 11.  
 22 And this is another exhibit we'll  
 23 go through. I'll try --  
 24 Actually --  
 25 A. I have the document up, sir.

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<p>1 Q. All right. Can you tell us the title 2 of the document and the document study number? 3 A. Yes, sir. It's a Paraquat Dichloride 4 Hydrate, Investigating the Time Course and 5 Reversibility of Dopaminergic Cell Loss in the 6 Charles River C57 Mouse Following Administration of 7 1,1-dimethyl-4,4-bipyridinium (Paraquat), 8 XM7480/Research Report. 9 Q. And if you can, sir, go to -- we'll 10 pull up for you 2792, which is the page with 11 Executive Summary of the findings of the study. 12 Have you seen this study before, 13 sir? 14 A. I believe I have, sir. 15 Q. And when was the first time you saw 16 this study? 17 A. Could we go to the introduction so I 18 can make sure which one of the Marks studies this 19 is, sir? 20 Q. Yes, we sure can. You need to know 21 the executive summary? 22 A. The executive summary or the 23 introduction. Either way. 24 Q. Okay. Let's see where that is. Hold 25 on.</p>	<p>1 Dr. Marks investigated the time course and 2 potential reversibility of nigral dopaminergic 3 cell loss? 4 MR. WEIR: Objection. Steve, can 5 I have my standing objection on foundation and 6 scope again, please? 7 MR. TILLERY: Yes. 8 THE WITNESS: No, sir, 9 Dr. Tillery, I'm not familiar with a study such as 10 that, to the best of my knowledge. 11 Q. (BY MR. TILLERY) So what I'm trying 12 to figure out is, when we looked at these DiMonte 13 and Cory-Slechta references early on in this 14 deposition, do you know if they had ever 15 investigated the time course and potential 16 reversibility of the nigral dopaminergic cell 17 loss? 18 A. I do not know the -- if they did that 19 or not, sir. 20 Q. Do you know if MacCormac or any of the 21 other scientific investigators who had published 22 around 1999 and early 2000s had ever conducted 23 such a study? 24 A. I don't believe I have any 25 recollection or knowledge of that, sir.</p>
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<p>1 A. With the four studies, it's hard for 2 me to keep them straight without reading that 3 introduction, sir. 4 Q. Of course. 5 Let's go to 2792. 6 A. Okay, thank you. 7 Okay. 8 Q. And if you'd look at that particular 9 page, Study Design, Results, and Conclusion, I'll 10 just ask you some general questions about it. 11 A. Okay, sir. 12 [Document review.] 13 Q. Under Study Design, the purpose of the 14 study was: To investigate the time course and 15 potential reversibility of the nigral dopaminergic 16 cell loss observed in the substantia nigra over a 17 period of 3 months after administration of 18 paraquat dichloride to the C57BL6j black mouse; 19 right? 20 A. Yes, sir. 21 Q. And then the next paragraph tells how 22 Dr. Marks did the study; right? 23 A. Yes, sir. 24 Q. Do you know of any study in the 25 scientific literature where a scientist like</p>	<p>1 Q. Okay. Now, the results are listed 2 under 1.2, aren't they? 3 A. Yes, sir. 4 Q. And it says: The concentration of 5 striatal dopamine or its key metabolites -- and 6 then states a word that I can't pronounce. 7 Perhaps you can help me on that. 8 A. Dihydroxyphenylacetic acid? 9 Q. Perfect. 10 (DOPAC) or homovanillic acid (HVA) was 11 not significantly altered, nor was there any 12 change in dopamine turnover at 7, 28 or 90 days 13 after dosing. Administration of 10 milligrams per 14 kilogram paraquat dichloride, once a week for 3 15 consecutive weeks, resulted in a statistically 16 significant reduction -- gives the numbers -- in 17 dopaminergic cell number in the substantia nigra 18 pars compacta 7 days after the final injection. 19 At the later time points of 28 and 90 days post 20 dose, the degree of cell loss was similar to that 21 observed at 7 days post dose... 22 Okay? 23 A. Yes, sir. 24 Q. Do you see that? 25 A. I do.</p>

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1 Q. Do you know of any study existing in  
 2 the scientific literature that had conducted its  
 3 science that way and had resulted in those  
 4 findings?  
 5 A. I personally do not have a  
 6 recollection of any specific study that was  
 7 conducted with those specific parameters.  
 8 Q. Okay. Then in the Conclusion section,  
 9 it says: Three weekly injections of 10 milligrams  
 10 per kilogram paraquat dichloride, when  
 11 administered to the Charles River male C57BL6j  
 12 mice, resulted in a statistically significant  
 13 dopaminergic cell loss in the substantia nigra  
 14 pars compacta. The statistically significant loss  
 15 of dopaminergic cells observed at 7 days after the  
 16 last of 3 weekly injections of 10 milligrams per  
 17 kilogram paraquat dichloride, did not show any  
 18 signs of progression.  
 19 The degree of injections at 10  
 20 milligrams per kilogram paraquat dichloride did  
 21 not show signs of progression [sic]. The degree  
 22 of cell loss was found to be less severe at  
 23 90 days but the counts were still statistically  
 24 significantly lower than in control animals.  
 25 Three weekly injections of 10 milligram per

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1 kilogram did not produce a statistically  
 2 significant reduction in the concentration of  
 3 striatal dopamine in the key metabolites.  
 4 Now, if you'd go to the next  
 5 paragraph. Go down just a little.  
 6 These results support the findings of  
 7 two previous studies. And these are the two we  
 8 just referenced, XM7258 and XM7271 [sic], 7-day,  
 9 and demonstrate that paraquat, when administered  
 10 to C57BL6j mice (Charles River supplied) would  
 11 appear to be capable of inducing nigral but not  
 12 striatal toxicity.  
 13 When was the first time you saw that  
 14 study?  
 15 A. If this is the study I believe that we  
 16 submitted the 6(a)(2) on, I don't recall a  
 17 specific first time seeing it, but I am aware that  
 18 there was a 6(a)(2) submission related to it. But  
 19 I cannot tell you the first time I recall seeing  
 20 it specifically, sir.  
 21 Q. Okay. Did you see this study or any  
 22 reference to it before 2019?  
 23 A. Oh, yes, sir. I believe so, sir.  
 24 Q. How would you have seen it?  
 25 A. I believe this study -- and if I'm

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1 recalling correctly, sir -- had -- we submitted a  
 2 6(a)(2) because it had a debatable new finding as  
 3 the 90 days, I think on the number of injections,  
 4 and that information, I believe, was communicated  
 5 to EPA when we were introducing our research  
 6 program in the 2010 and '13, '17 time periods.  
 7 Q. Why didn't you put the other studies  
 8 at the same time in the hands of the USEPA?  
 9 You're filing these papers with the  
 10 USEPA. Why not just send along the other studies  
 11 she did? To be transparent? To inform them? Why  
 12 didn't you do that?  
 13 MR. WEIR: Object to form.  
 14 THE WITNESS: My understanding was  
 15 the view that these other studies merely  
 16 replicated information that was already available  
 17 in public literature, and as such was not new  
 18 information. The study here did involve a new  
 19 finding with the fact that you had a different  
 20 dose regimen at 90 days leading to the outcome.  
 21 Q. (BY MR. TILLERY) So the others became  
 22 relevant in 2019; right?  
 23 MR. WEIR: Object to the form.  
 24 THE WITNESS: The studies were not  
 25 relevant based upon EPA's determination that i.p.

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1 dosing is not appropriate for these type of  
 2 studies; however, we submitted them to ensure a  
 3 complete record.  
 4 Q. (BY MR. TILLERY) Oh, so now we're  
 5 adding a reason. Now it's a complete record.  
 6 What record did they complete?  
 7 A. We --  
 8 MR. WEIR: Object to the form,  
 9 argumentative.  
 10 THE WITNESS: We were providing  
 11 these additional studies, as you referenced in  
 12 your letter, we provided them to EPA, to the  
 13 chemical review manager to ensure they had  
 14 awareness of these additional studies. We also  
 15 indicated at that time, sir, these studies  
 16 replicated information, if my memory is correct,  
 17 that was already in -- did not represent new  
 18 findings but instead replicated information that  
 19 had already been published and I believe EPA was  
 20 even present at in 2003 for presentations on, sir.  
 21 Q. (BY MR. TILLERY) Let's talk about one  
 22 of those presentations. You have presentations  
 23 with USEPA; right?  
 24 A. Yes, sir.  
 25 Q. And actually you've had some of those

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1 yourself, haven't you?  
 2 A. Yes, sir, 2010 and -- was the first  
 3 one where we introduced our intention to go down  
 4 and do these additional studies.  
 5 Q. And then you had a presentation in  
 6 2013, didn't you?  
 7 A. Yes, sir.  
 8 Q. Okay. Let's go to Syngenta 00469778.  
 9 A. I have the presentation up, sir.  
 10 (Dixon Deposition Exhibit 12  
 11 marked.)  
 12 Q. (BY MR. TILLERY) All right. You  
 13 remember this, didn't you?  
 14 A. I do, sir.  
 15 Q. Did you actually create this slide  
 16 set?  
 17 A. I was part of the creation of the  
 18 slide set. It was a team event, sir.  
 19 Q. And if we can, since you're familiar  
 20 with it, if we can just go to the relevant pages  
 21 and we'll display the first page, please.  
 22 I think this is an 85-page document,  
 23 it says. Do you see that? One of 85?  
 24 A. Yes, sir.  
 25 Q. And this is Plaintiffs' Exhibit

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1 No. 12.  
 2 And again, for the record, it's  
 3 Syngenta 00469778.  
 4 What is this document?  
 5 A. Sir, it was our informing EPA of our  
 6 paraquat research -- oh, this is the 2013. I'm  
 7 sorry, I had assumed it was the 2010. We had  
 8 introduced the fact that we were going to be doing  
 9 a research program in 2010. This represented an  
 10 update that we gave the agency on the status of  
 11 the program in 2013.  
 12 Q. Okay. And so this is a presentation  
 13 that several people from Syngenta made to the  
 14 USEPA; right?  
 15 A. Correct.  
 16 Q. Was it open to the public?  
 17 A. No, sir. This was a meeting just  
 18 between Syngenta and the EPA.  
 19 Q. So where did you have this, at the  
 20 EPA's office?  
 21 A. That is correct.  
 22 Q. Was there any public announcement of  
 23 the meeting?  
 24 A. Not that I'm aware of, sir.  
 25 Q. Who called the meeting?

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1 A. We would have requested the meeting.  
 2 Q. Okay. And you would have requested it  
 3 to explain to the USEPA what you were doing with  
 4 paraquat; right?  
 5 A. Correct. To provide an update of the  
 6 information that has occurred since our 2010 first  
 7 introductory meeting.  
 8 Q. And would -- strike that.  
 9 You were listed as the first person  
 10 for --  
 11 A. That is correct.  
 12 Q. -- this group; right?  
 13 A. Yes, sir.  
 14 Q. And Jerry Wells, Jerry Wells was  
 15 there. He's from Syngenta; right?  
 16 A. He is, sir.  
 17 Q. Kersten Mewes? Right?  
 18 A. Correct.  
 19 Q. Charles Breckenridge?  
 20 A. Correct.  
 21 Q. And Nick Sturgess.  
 22 A. Correct.  
 23 Q. Were they all present? All right.  
 24 A. Yes, sir.  
 25 Q. Okay. And who gave the presentation?

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1 A. It was a combination, sir. If I  
 2 recall the flow, I did the introductory slides,  
 3 and then the science presentation was primarily  
 4 driven by Nick Sturgess on the animal models and  
 5 Charles Breckenridge with respect to  
 6 epidemiological information.  
 7 Q. Okay. Now, who at the USEPA attended  
 8 the presentation?  
 9 A. Wow. I don't have a definitive  
 10 recollection of that. I would have certainly  
 11 anticipated Marianne Mannix would have been there.  
 12 Most likely Kelly Sherman. And representatives  
 13 of, I would believe from HED, but I do not have  
 14 those names memorized, sir.  
 15 Q. How many people from USEPA attended?  
 16 A. I do not have a firm number, but I  
 17 would have anticipated if there would have been  
 18 multiple people from EPA, I just do not recall  
 19 the --  
 20 Q. Does multiple mean 10? 50? 100?  
 21 A. Certainly not 50. Much closer, more  
 22 like to the 10 number. But I would have certainly  
 23 assumed it was 10 or less.  
 24 Q. Okay. Now let's go to slide 8, which  
 25 is at 9785.

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1 And this is a portion of this  
 2 PowerPoint which talks about the effect of  
 3 intraperitoneal dosing of paraquat in the C57BL6J  
 4 male mouse, by Nick Sturgess; right?  
 5 A. Yes, sir.  
 6 Q. And that's exactly the same mouse that  
 7 we've been talking about for the last couple of  
 8 hours in all of the studies of Dr. Marks; right?  
 9 A. I believe that is the same mouse.  
 10 It's the Charles River black mouse. So that  
 11 should be the same.  
 12 Q. Okay. And Syngenta LP is one of the  
 13 United Kingdom Syngenta entities; right?  
 14 A. I'm not sure about that, sir.  
 15 Q. Well, Dr. Sturgess was from Syngenta  
 16 LP.  
 17 A. Yes, sir, he -- Dr. Sturgess is a  
 18 Syngenta employee.  
 19 Q. And he gave the presentation on the  
 20 company's research with paraquat in the mouse,  
 21 didn't he?  
 22 A. Correct.  
 23 Q. Okay. And who is Dr. Sturgess?  
 24 A. I believe Nick is retired now, but he  
 25 was one of our toxicological experts and had a key

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1 role as one of the lead scientists doing this  
 2 work.  
 3 Q. And Dr. Sturgess was Dr. Marks' direct  
 4 supervisor at Syngenta CTL when she was conducting  
 5 research with exactly that same type of mouse,  
 6 wasn't he?  
 7 MR. WEIR: Objection, foundation.  
 8 Object to scope as well.  
 9 THE WITNESS: I don't believe I  
 10 was aware of that fact, sir. It's a possibility,  
 11 I just did not know that Nick had a -- Nick's role  
 12 with respect to leading a team or what people  
 13 would be reporting to him.  
 14 Q. (BY MR. TILLERY) So you didn't know  
 15 that he was Dr. Marks' direct supervisor; right?  
 16 So I just told you?  
 17 A. I don't believe I was ever aware of  
 18 that until you just said that, sir.  
 19 Q. All right. So I'll submit to you that  
 20 in the testimony of Dr. Botham, he indicated that  
 21 Dr. Sturgess was Dr. Marks' direct supervisor;  
 22 okay? I'll submit that to you.  
 23 A. Sure. I accept that.  
 24 Q. Okay. So Dr. Sturgess certainly knew  
 25 about the studies, the four studies conducted by

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1 Dr. Marks with paraquat in the black mouse; right?  
 2 MR. WEIR: Object to foundation,  
 3 scope.  
 4 THE WITNESS: I certainly believe  
 5 Nick was aware of all of the studies done by  
 6 Dr. Marks.  
 7 Q. (BY MR. TILLERY) Okay. But he didn't  
 8 make any report to the USEPA about Dr. Marks'  
 9 studies in this presentation, did he?  
 10 A. I do not believe there is a reference  
 11 to those studies in this presentation.  
 12 Q. Or any time before, to your knowledge;  
 13 right?  
 14 A. To my knowledge, I am not aware of him  
 15 making any reference to EPA any time before.  
 16 Q. Are you aware that -- I don't know if  
 17 you noticed, in the studies that we just went  
 18 through, that Dr. Marks' reports all indicated  
 19 that Dr. Sturgess is listed as her supervising  
 20 researcher.  
 21 A. I did not pick up on that fact until  
 22 you mentioned it. But if he was her supervisor,  
 23 then certainly he should have been on the reports.  
 24 Q. And it would show that on the report.  
 25 If you want to look at them to verify my

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1 statement, I'm happy to let you see them, but I  
 2 submit to you that's what they said.  
 3 A. That seems very plausible and possible  
 4 to me, sir. I'm okay with that.  
 5 Q. All right. Now let's go to slide 9,  
 6 which is 0469786.  
 7 A. Correct.  
 8 Q. Now, this says the Effect of i.p.,  
 9 intraperitoneal, that stands for, right?  
 10 A. Yes, sir.  
 11 Q. Dosing of paraquat in the -- again,  
 12 the C57BL6 mouse; right?  
 13 A. Correct. But it does also say the rat  
 14 there, too.  
 15 Q. Right. And it gives them a summary,  
 16 the EPA, of this literature, and it says: Over  
 17 the last decade, a number of research groups have  
 18 produced a series of publications using the i.p.  
 19 dosing of paraquat animals, but also rat -- and it  
 20 talks about DiMonte group, Cory-Slecht group, and  
 21 it used C57BL6 mouse model and i.p. dosing of PQ,  
 22 typically 3-week doses, three biological endpoints  
 23 were examined; neuropathological, we talked about  
 24 earlier, which is a loss of dopaminergic neurons,  
 25 substantia nigra pars compacta; neurochemical;

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1 neurobehavioural.  
 2 Let me ask you: You were there. You  
 3 helped present this. If the USEPA knew all of  
 4 this, why did Syngenta have to update them on the  
 5 public literature?  
 6 MR. WEIR: Object to form.  
 7 THE WITNESS: And I'm not sure I'm  
 8 quite following your question, Mr. Tillery, about  
 9 updating them on the public literature.  
 10 Q. (BY MR. TILLERY) I think you said you  
 11 thought that these scientific studies were out  
 12 there known, understood.  
 13 A. That is correct.  
 14 Q. What was the purpose -- so you -- you  
 15 think they forgot about them?  
 16 A. No, sir, but when you --  
 17 MR. WEIR: Object to form.  
 18 THE WITNESS: No, sir, as part of  
 19 having a meeting or a science discussion with EPA,  
 20 you lay the foundation of the work you're doing,  
 21 and this is giving some historical context for  
 22 that work, sir.  
 23 Q. (BY MR. TILLERY) Oh, okay. All  
 24 right. Well, let's go slide 10, which is  
 25 469787.

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1 Now, this is Effect of i.p. Dosing  
 2 of paraquat in the C57BL6J Mouse; right?  
 3 A. Yes, sir.  
 4 Q. Syngenta reported to the USEPA that it  
 5 had conducted studies in an attempt to replicate  
 6 the findings of the paraquat mouse model in the  
 7 reported literature.  
 8 Isn't that what Dr. Sturgess said?  
 9 A. That is correct.  
 10 Q. So Dr. Marks' four studies at Syngenta  
 11 CTL very clearly set out right in front of them  
 12 that they were an attempt to replicate the  
 13 findings of the paraquat mouse model in the  
 14 reported literature. It says right in the  
 15 studies, doesn't it?  
 16 A. I agree that's what they say, sir.  
 17 Q. Okay. But Syngenta -- look at that  
 18 document. Syngenta did not report Dr. Marks'  
 19 studies to the USEPA during this presentation, did  
 20 it?  
 21 MR. WEIR: Object to form.  
 22 Q. (BY MR. TILLERY) Did it?  
 23 A. My recollection is that Dr. Marks'  
 24 studies were not brought up during this meeting.  
 25 Q. You left them out.

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1 Now, were you part of the decision?  
 2 Were you part of the group of people who decided  
 3 to pull back that information from the USEPA?  
 4 MR. WEIR: Object to form.  
 5 THE WITNESS: There was a -- I  
 6 certainly was part of the team that evaluated  
 7 putting together the slide deck for EPA. There  
 8 was a series of discussions of how to prepare the  
 9 slide deck. So I was certainly in those  
 10 discussions. To answer your question, yes, I  
 11 would have been part of the discussions in  
 12 building the slide deck and planning the  
 13 presentation.  
 14 Q. (BY MR. TILLERY) And did you take a  
 15 position about whether or not Dr. Marks' studies  
 16 should be reported to the USEPA?  
 17 A. I did not take such a position one way  
 18 or another, sir.  
 19 Q. Did you know at that time whether  
 20 Dr. Marks' studies have even been conducted?  
 21 A. I believe I was aware of the one that  
 22 there was a 6(a)(2) on -- and I think through  
 23 that, tangentially aware that there had been the  
 24 other studies. So, yes, I believe I did have  
 25 awareness of the other studies but also an

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1 understanding that the other studies were viewed  
 2 to essentially be repeating what was already in  
 3 the literature.  
 4 Q. Well, how can you say that in view of  
 5 that document that's on the screen right now?  
 6 A. Because the purpose of this meeting  
 7 was to update them with the studies that had been  
 8 conducted since that time.  
 9 Q. Well, you didn't tell them about this.  
 10 You never told them about them before.  
 11 MR. WEIR: Object to form.  
 12 Q. (BY MR. TILLERY) They didn't know  
 13 about these studies -- you have said this several  
 14 times in this deposition -- until December 2019.  
 15 So show me where in this meeting  
 16 to update them in -- when did you have this  
 17 meeting? In December 2013? 21st of February,  
 18 2013, when you had that meeting, show me where you  
 19 reported Dr. Marks' studies.  
 20 MR. WEIR: Object to form.  
 21 THE WITNESS: It is my  
 22 recollection that the -- Dr. Marks' studies were  
 23 not presented at this meeting. That's my  
 24 recollection, sir.  
 25 Q. (BY MR. TILLERY) And you had a

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1 meeting in 2010.  
 2 Do you remember that one?  
 3 A. Yes, sir.  
 4 Q. And you told them you were going to do  
 5 all of these things, and you were going to do the  
 6 science; right?  
 7 MR. WEIR: Object to form.  
 8 THE WITNESS: Correct.  
 9 Q. (BY MR. TILLERY) You did not report  
 10 Dr. Marks' studies in that meeting with USEPA in  
 11 2010, did you?  
 12 A. To the best of my recollection, those  
 13 studies were not mentioned during that meeting.  
 14 Q. Okay. Now, let's go to slide 25.  
 15 469802.  
 16 This is Effect of i.p. Dosing of  
 17 paraquat in the C57BL6j Mouse - Summary of study  
 18 findings.  
 19 Do you see that?  
 20 A. Yes, sir.  
 21 Q. And this is referencing the  
 22 neuropathology, neurochemistry, and stereology,  
 23 and it's the report of the study findings Syngenta  
 24 had done; is that right?  
 25 A. Correct.

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1 Q. Okay. And it shows at the very  
 2 bottom. Look at that. The apparent loss of TH+  
 3 neurones in the initial study (WIL 639058) when  
 4 paraquat was administered at three times  
 5 15 milligrams per kilogram was not reproducible.  
 6 Right?  
 7 A. Correct.  
 8 Q. Syngenta reports that the loss of  
 9 dopaminergic neurons in a WIL study with paraquat  
 10 was not reproducible.  
 11 That's what you told them; right?  
 12 A. That is correct.  
 13 Q. So Syngenta had conducted a paraquat  
 14 mouse study at WIL Research Laboratories; right?  
 15 A. Those were done at the WIL Research  
 16 Laboratories, yes.  
 17 Q. And in at least one of the studies,  
 18 paraquat caused a loss of dopaminergic neurons  
 19 after 15-milligram dose.  
 20 Did you know that?  
 21 A. That's what is stated right there in  
 22 that bullet, yes, sir.  
 23 Q. All right. Now let's go to --  
 24 A. And that study was submitted to the  
 25 EPA, sir.

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1 Q. Strike that.  
 2 And you, at this point in time, in all  
 3 of this discussion, you never mentioned Dr. Marks'  
 4 study, in this presentation, on this slide either,  
 5 did you, sir?  
 6 MR. WEIR: Object to form.  
 7 THE WITNESS: To the best of my  
 8 recollection, Dr. Marks' studies were not  
 9 discussed at this forum.  
 10 Q. (BY MR. TILLERY) Okay. Let's go to  
 11 469804.  
 12 This is Paraquat i.p. mouse model:  
 13 Syngenta studies and the published literature.  
 14 Do you see that?  
 15 A. I do, sir.  
 16 Q. Syngenta presented to the USEPA in  
 17 this study, information about the company's  
 18 research with paraquat in the mouse, didn't it?  
 19 A. Correct.  
 20 Q. And how that research compared to the  
 21 public literature; right?  
 22 A. Correct.  
 23 Q. But at no time did Syngenta present  
 24 Dr. Marks' studies with paraquat in the  
 25 intraperitoneal injection to the mouse model in

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1 the presentation that it did here, did it?  
 2 A. To the best of my recollection, no.  
 3 Q. And it looks here, it says: In our  
 4 studies, there was no consistent statistically  
 5 significant stereological evidence of a loss of  
 6 TH+ neurons in the substantia nigra following PQ  
 7 treatment.  
 8 And that statement is absolutely  
 9 completely flatly wrong when it comes to the study  
 10 results that Dr. Marks did, isn't it?  
 11 MR. WEIR: Object to form.  
 12 THE WITNESS: Sir, this statement  
 13 was based upon the studies that we were presenting  
 14 to EPA at that meeting.  
 15 Q. (BY MR. TILLERY) Right. So if you  
 16 leave out the studies that find the opposite  
 17 thing, of course. What I'm saying is if you  
 18 factor in the studies you had in your files that  
 19 your own scientists did and that you kept from  
 20 public eye, that statement was absolutely  
 21 misleading at the minimum, wasn't it?  
 22 MR. WEIR: Object to form.  
 23 THE WITNESS: And, sir, I disagree  
 24 that it was misleading. That statement was  
 25 specific to the information being presented to EPA



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<p>1 at that time. Those studies --</p> <p>2 Q. (BY MR. TILLERY) Did you present</p> <p>3 Dr. Marks' studies?</p> <p>4 A. No, sir, not at that meeting to the</p> <p>5 best of my recollection.</p> <p>6 Q. If you presented Dr. Marks' studies,</p> <p>7 would that statement have been right?</p> <p>8 MR. WEIR: Object to form.</p> <p>9 THE WITNESS: I believe if we had</p> <p>10 presented Dr. Marks' studies, that statement would</p> <p>11 have had to been modified.</p> <p>12 Q. (BY MR. TILLERY) It wouldn't have</p> <p>13 been used because there was no evidence that was</p> <p>14 consistent with it if you brought in Dr. Marks'</p> <p>15 studies; right?</p> <p>16 MR. WEIR: Object to form.</p> <p>17 THE WITNESS: And so the purpose</p> <p>18 of this --</p> <p>19 Q. (BY MR. TILLERY) Would you answer my</p> <p>20 question? Let me withdraw the question.</p> <p>21 Would you agree with me that you</p> <p>22 were not being transparent with the USEPA on that</p> <p>23 day?</p> <p>24 MR. WEIR: Object to the form.</p> <p>25 THE WITNESS: I would disagree.</p>	<p>1 studies being presented to the EPA at this</p> <p>2 meeting, so the statement was addressing the</p> <p>3 information that was being presented to EPA. It</p> <p>4 is accurate for that information.</p> <p>5 MR. TILLERY: Let's go to slide</p> <p>6 469822.</p> <p>7 Q. (BY MR. TILLERY) We're on the same</p> <p>8 meeting here, aren't we? When you see this. The</p> <p>9 same meeting?</p> <p>10 A. Yes, sir.</p> <p>11 Q. Take a look at this one.</p> <p>12 A. Okay. May I have a moment, please?</p> <p>13 Q. Sure. Please.</p> <p>14 [Document review.]</p> <p>15 A. Okay, I've read that.</p> <p>16 Q. So you see the first paragraph that</p> <p>17 says: Hatcher concluded paraquat differs from</p> <p>18 MPP+.</p> <p>19 Do you see that?</p> <p>20 It's in that -- its ability to enter</p> <p>21 the dopamine neuron, inhibit complex 1, activate</p> <p>22 particular cell-death pathways.</p> <p>23 You see all of that, right?</p> <p>24 A. I do, sir.</p> <p>25 Q. Now, let's go down to the bottom.</p>
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<p>1 sir.</p> <p>2 Q. (BY MR. TILLERY) Okay. Would you</p> <p>3 agree with me today -- strike that.</p> <p>4 Do you think today, in retrospect,</p> <p>5 after everything you know about this whole thing</p> <p>6 and how it's developed, that that was a good idea</p> <p>7 to hide those studies from the USEPA at that time?</p> <p>8 MR. WEIR: Object to form.</p> <p>9 THE WITNESS: I disagree that</p> <p>10 those studies were hidden, sir.</p> <p>11 MR. TILLERY: Okay.</p> <p>12 THE WITNESS: I think those</p> <p>13 studies were evaluated through the 6(a)(2) process</p> <p>14 and a determination was made that they were not</p> <p>15 reportable at the time, and so they were not</p> <p>16 submitted, but there was not a -- I would not</p> <p>17 agree with the characterization they were hidden.</p> <p>18 Q. (BY MR. TILLERY) Well, by not turning</p> <p>19 them over, you were able to say you had no</p> <p>20 consistent statistically significant stereological</p> <p>21 evidence of a loss of TH+ neurons in the</p> <p>22 substantia nigra following PQ treatment; right?</p> <p>23 MR. WEIR: Object to form.</p> <p>24 Q. (BY MR. TILLERY) Is that right?</p> <p>25 A. That statement was based upon the</p>	<p>1 Syngenta studies on paraquat show that</p> <p>2 high doses of paraquat administered either by i.p.</p> <p>3 or oral routes, one, do not affect striatal</p> <p>4 dopamine concentrations or dopamine turnover;</p> <p>5 Two, do not reduce the number of</p> <p>6 dopaminergic neurons in the substantia nigra pars</p> <p>7 compacta;</p> <p>8 Three, do not kill dopaminergic</p> <p>9 neurons in the substantia nigra.</p> <p>10 So in this slide, Syngenta is</p> <p>11 reporting to the USEPA that the administration of</p> <p>12 paraquat did not reduce the number of dopaminergic</p> <p>13 neurons in the substantia nigra in its studies;</p> <p>14 correct?</p> <p>15 A. These would be in the studies that</p> <p>16 were being presented in the meeting which were the</p> <p>17 ones we introduced in 2010, and we were giving the</p> <p>18 updates. So that statement is referencing the</p> <p>19 studies that were being presented at this meeting,</p> <p>20 sir.</p> <p>21 Q. Where does it say that in that slide?</p> <p>22 Where does it say that?</p> <p>23 A. It does not say that in the slide,</p> <p>24 sir.</p> <p>25 Q. It says Syngenta studies on paraquat.</p>

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1 Doesn't it?

2 A. I acknowledge it says that, sir.

3 Q. Okay. Syngenta studies on paraquat

4 show that high doses of paraquat administered

5 either by i.p. or oral routes did not reduce the

6 number of dopaminergic neurons in the substantia

7 nigra pars compacta. That's what it says, doesn't

8 it? We agree on that?

9 A. We do.

10 Q. Okay. And can we also agree that

11 three of Dr. Marks' studies with paraquat in the

12 i.p. mouse model did show reduced -- statistically

13 significant reduction of number of dopaminergic

14 neurons in the substantia nigra pars compacta;

15 right?

16 MR. WEIR: Object to scope.

17 Q. (BY MR. TILLERY) Right?

18 A. That was the conclusions of those

19 studies, but that was not the information being

20 covered by this slide presentation, so it's not --

21 those -- that statement that you're reading, sir,

22 there, was based on the studies being presented to

23 EPA at that meeting.

24 MR. TILLERY: I move to strike

25 your answer as unresponsive.

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1 Could you read back the question

2 to him, please?

3 (Whereupon, the following

4 testimony was read by the court reporter.)

5 "QUESTION: And can we also agree

6 that three of Dr. Marks' studies with paraquat in

7 the i.p. mouse model did show reduced --

8 statistically significant reduction of number of

9 dopaminergic neurons in the substantia nigra pars

10 compacta; right?"

11 (End of readback.)

12 THE WITNESS: And my answer to

13 that, sir, is the study reports do make those

14 statements.

15 Q. (BY MR. TILLERY) Thank you.

16 A. For the Dr. Marks' studies.

17 Q. Yes. Now let's go back to the first

18 page.

19 This is the title page again, right?

20 For Exhibit 12.

21 A. That is correct, sir.

22 Q. So Syngenta wanted to keep the USEPA

23 updated on its paraquat research program; right?

24 A. Correct.

25 Q. Dr. Breckenridge's i.p. study of

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1 paraquat in the black mouse was discussed in this

2 presentation, wasn't it?

3 A. The -- yes, sir, I believe, if I'm

4 following the question correctly, Dr. Breckenridge

5 and the rest of the research group working in, I

6 believe, in conjunction with Dr. Smeyne.

7 Q. Did FIFRA 6(a)(2) require Syngenta to

8 report Dr. Breckenridge's study to the USEPA?

9 MR. WEIR: Object to scope.

10 THE WITNESS: I am not aware that

11 there was a 6(a)(2) submission related to that,

12 sir.

13 Q. (BY MR. TILLERY) Okay. Do you want

14 to answer my question?

15 A. Sure.

16 Q. Did FIFRA 6(a)(2) require Syngenta to

17 report Dr. Breckenridge's study to the USEPA?

18 MR. WEIR: Same objection.

19 THE WITNESS: I do not have a

20 definitive answer on that, sir.

21 Q. (BY MR. TILLERY) Well, let's assume

22 it didn't, okay?

23 You wanted to report it to the

24 USEPA anyway, didn't you?

25 A. We did, sir.

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1 Q. Because you wanted to keep the USEPA

2 updated on your paraquat mouse model research;

3 right?

4 A. That was the intention of the meeting,

5 sir.

6 Q. Dr. Minima's oral study on paraquat in

7 the black mouse was discussed in this presentation

8 too, wasn't it?

9 A. It was.

10 Q. Did FIFRA 6(a)(2) require Syngenta to

11 report Dr. Minima's study to the USEPA?

12 MR. WEIR: Object to scope.

13 THE WITNESS: Not to the best of

14 my understanding, sir.

15 Q. (BY MR. TILLERY) But you reported it

16 anyway, didn't you?

17 A. We reported --

18 MR. WEIR: Object to form.

19 THE WITNESS: -- and published it.

20 Q. (BY MR. TILLERY) Okay. Because you

21 wanted to keep the USEPA updated on your paraquat

22 mouse research; right?

23 A. Correct.

24 Q. Dr. Marks' studies were not discussed

25 in this presentation, right?

ny knowledge, they were  
 presentation to the USEPA;  
 not --  
 MR. WEIR: Object to form.  
 THE WITNESS: I do not recall a  
 presentation to EPA where they were discussed.  
 9 Q. (BY MR. TILLERY) And that's because  
 10 you didn't want the USEPA to know about her  
 11 research; correct?  
 12 MR. WEIR: Object to form.  
 13 THE WITNESS: I do not agree that  
 14 that was a motivating factor. The purpose here  
 15 was to provide the agency with these research data  
 16 that were done working with Dr. Smeyne, I believe.  
 17 Q. Okay. Let's go to the next exhibit,  
 18 No. 13.  
 19 MR. WEIR: Can we take a quick  
 20 break before you move to another document?  
 21 MR. TILLERY: Very quick -- a very  
 22 quick break, because I want to finish this. I  
 23 don't want a break in the middle of this exhibit.  
 24 Okay? So as long as we can finish it. I can  
 25 finish it in -- let's come back at 3:30, or 4:30

1 A. I did.  
 2 Q. Okay. And you, again, were the lead  
 3 for the Syngenta group of folks who attended the  
 4 meeting; right?  
 5 A. I coordinated the meeting. I wouldn't  
 6 necessarily say I was the lead, but I did reach  
 7 out to EPA to request the meeting and did the  
 8 introductory slides at the beginning of the  
 9 meeting, sir.  
 10 Q. And who did you reach out to?  
 11 A. It would have been Marianne Mannix,  
 12 sir.  
 13 Q. Is she your kind of contact at EPA?  
 14 A. Yes, sir. With respect to paraquat  
 15 entered into registration review and as the  
 16 chemical review manager, she would be the primary  
 17 person I would speak to and have communications  
 18 with with information related to the potential  
 19 registration review activities.  
 20 Q. And if you had a 6(a)(2) report to  
 21 file, where would you file that with USEPA?  
 22 A. I believe it goes into a 6(a)(2)  
 23 mailbox, sir.  
 24 Q. Okay. Have you ever done that before?  
 25 A. We have submitted 6(a)(2)s, yes, sir.

1 your time. Okay?  
 2 MR. WEIR: Yeah, that's fine.  
 3 MR. TILLERY: All right. Thank  
 4 you.  
 5 THE VIDEOGRAPHER: We are going  
 6 off the record at 4:22 p.m. Eastern.  
 7 (Recess taken, 4:22 p.m. to  
 8 4:34 p.m. EDT)  
 9 THE VIDEOGRAPHER: We are back on  
 10 the record at 4:34 p.m. Eastern.  
 11 Q. (BY MR. TILLERY) We are pulling up  
 12 Plaintiffs' Deposition Exhibit No. 13 at this  
 13 point, sir, and that's Syngenta 00955314.  
 14 (Dixon Deposition Exhibit 13  
 15 marked.)  
 16 THE WITNESS: I have the exhibit  
 17 open.  
 18 Q. (BY MR. TILLERY) All right. I'll let  
 19 you take a look at that.  
 20 A. Is there a particular page, sir, you  
 21 would like me to look at, sir?  
 22 Q. There will be. You're familiar with  
 23 this as well, aren't you?  
 24 A. Yes, sir.  
 25 Q. Did you help create this?

1 Q. You have yourself?  
 2 A. Yes, sir. The process is typically  
 3 that once the letter is prepared and agreed upon  
 4 and I sign off, it is then submitted to the  
 5 agency.  
 6 Q. How many 6(a)(2)s have been filed by  
 7 Syngenta with respect to paraquat?  
 8 A. Sir, I don't have a specific number  
 9 off the top of my head. I can tell you the nature  
 10 of the 6(a)(2)s that I have submitted while  
 11 working with paraquat.  
 12 Q. But I'm just -- I'm talking about the  
 13 number of them.  
 14 A. Sir, I don't have a specific number  
 15 that I can point you to. I do know that I have  
 16 submitted multiple 6(a)(2) reports.  
 17 Q. And those you have to file for every  
 18 time your product kills somebody too, right?  
 19 A. That is correct, sir.  
 20 Q. So every time somebody's killed by  
 21 ingesting it, you send it in. So there would be  
 22 quite a lot of those; right?  
 23 A. Not quite a lot, sir. In my time, as  
 24 the regulatory manager in the US, I would estimate  
 25 10 to 12. And with the majority of those,

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1 especially during the registration review period,  
 2 they were sent in through the 6(a)(2) window as  
 3 well as copied to Marianne Mannix.  
 4 Q. And this was after you doubled or  
 5 tripled the amount of the emetic in the product;  
 6 right?  
 7 A. There have been deaths after that,  
 8 yes, sir.  
 9 Q. Right. So --  
 10 A. May I add to that answer, sir?  
 11 Q. I'll get back to it, sir.  
 12 A. Okay.  
 13 Q. You'll have a chance to raise this.  
 14 A. Okay.  
 15 Q. So you understand that there's a  
 16 registry of deaths caused by ingestion of paraquat  
 17 maintained by Syngenta; right?  
 18 A. That is correct, sir.  
 19 Q. Where do you keep it?  
 20 A. It is actually contracted through an  
 21 organization that was called Prosar, and now I  
 22 believe it's referred to as ProPharma.  
 23 Q. And where is that data maintained?  
 24 MR. WEIR: Object to the scope.  
 25 Can I get a standing objection on scope here?

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1 MR. TILLERY: Yes, sir.  
 2 MR. WEIR: Thank you.  
 3 THE WITNESS: As far as the  
 4 specific information where the data is retained, I  
 5 know when I access it, there is a web portal, and  
 6 that's how I access the information.  
 7 So the records, I believe, are  
 8 retained on a database that's maintained by that  
 9 ProPharma organization. That's the best of my  
 10 understanding of where that resides, sir.  
 11 Q. (BY MR. TILLERY) Where is ProPharma  
 12 located?  
 13 A. I do not know the specific address,  
 14 sir.  
 15 Q. And how long have they been in charge  
 16 of the database?  
 17 A. I believe ProPharma, and before that  
 18 Prosar, goes back, I want to say to 2001 or '2,  
 19 sir.  
 20 Q. And who had the database before that?  
 21 A. I do not know, sir.  
 22 Q. How far back does the calculation or  
 23 assemblage of death data extend?  
 24 A. As far as the ProPharma database, I  
 25 believe I have seen records dating back to

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1 approximately 2001, perhaps 2000ish, in that time  
 2 frame, sir.  
 3 Q. So who kept the data for all of the  
 4 folks who died in the '60s and '70s and '80s and  
 5 '90s?  
 6 A. I do not have an awareness of how that  
 7 data was maintained back during those time frames,  
 8 sir.  
 9 Q. Now, first, before we get started,  
 10 this document marked as Plaintiffs' Deposition  
 11 Exhibit 13, is a PowerPoint of a USEPA meeting;  
 12 right?  
 13 A. Yes, sir.  
 14 Q. You attended along with John Abbott,  
 15 Charles Breckenridge and Nick Sturgess; right?  
 16 A. Correct.  
 17 Q. And you were involved in putting this  
 18 presentation together along with whom?  
 19 A. It would have been the individuals on  
 20 the slide, and there may have been other  
 21 contributors, but the key people would be the  
 22 individuals on the slide there.  
 23 Q. All right. And if we go to 5315.  
 24 This is the agenda for your meeting,  
 25 isn't it, sir?

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1 A. That is correct, sir.  
 2 Q. And you gave the introduction?  
 3 A. Correct.  
 4 Q. Right?  
 5 Where did you have the meeting?  
 6 A. It was at EPA, sir. One Potomac  
 7 Place.  
 8 Q. And again, how many people were there  
 9 from the EPA?  
 10 A. I don't have a firm recollection, but  
 11 my estimate would be between four to ten.  
 12 Q. Okay. And the second part of this was  
 13 Paraquat Registration Review Status.  
 14 A. Correct.  
 15 Q. So you were talking to them about the  
 16 review status?  
 17 A. That is correct, sir.  
 18 Q. Okay. Was that part of the reason for  
 19 the meeting?  
 20 A. Certainly, yes, sir, to at least cover  
 21 that as its relevant to the situation with  
 22 paraquat.  
 23 Q. And you were taking what position with  
 24 respect to paraquat's reregistration?  
 25 A. This is an ongoing process, sir, as

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1 part of FIFRA, and through that process, obviously  
 2 there is interactions with EPA on different  
 3 elements. So in there and at this meeting, to my  
 4 recollection, I believe we would have gone  
 5 through -- and it's probably on the next slide,  
 6 but information related to the potential DCI as  
 7 well as there could be information in here with  
 8 respect to the human health mitigation activities.  
 9 Q. Okay. As we continue on, it says:  
 10 Considerations By Other Regulatory Agencies. And  
 11 who is assigned? Monte Dixon --  
 12 A. Correct.  
 13 Q. -- right?  
 14 So you did the Introduction, the  
 15 Paraquat Registration Review Status. You did the  
 16 Considerations By Other Regulatory Agencies;  
 17 right?  
 18 A. Correct.  
 19 Q. And then the Results of Syngenta's  
 20 Research Program, the Animal model was Nick  
 21 Sturgess, and Epidemiology was presented by  
 22 Charles Breckenridge; right?  
 23 A. Correct.  
 24 Q. And then there was a discussion,  
 25 right?

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1 A. Correct. Yes, sir.  
 2 Q. How long did this meeting last?  
 3 A. My recollection is approximately one  
 4 hour to maybe an hour and 20 minutes.  
 5 Q. Now, if we can, can you tell me where  
 6 in this outline there's a reference to Dr. Marks'  
 7 studies?  
 8 A. I do not recall that there is a  
 9 reference to Dr. Mark's studies in this outline.  
 10 Oh, in this -- I'm sorry, in the  
 11 outline, I'm sorry, sir. I misheard your  
 12 question. I thought it was the whole  
 13 presentation.  
 14 There is no reference in this  
 15 outline to Dr. Marks' studies.  
 16 Q. Is there any in the whole  
 17 presentation?  
 18 A. To my recollection, I do not believe  
 19 there is.  
 20 Q. Okay. So up through in the oral  
 21 presentation, was there any reference to  
 22 Dr. Marks' studies?  
 23 A. I do not recall there being any  
 24 reference in the oral presentations to Dr. Marks'  
 25 studies.

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1 Q. And I mean to include all of the  
 2 speakers, you, John Abbott, Charles Breckenridge,  
 3 Louise Marks' direct supervisor who signed on as  
 4 the supervisor for all of her studies, Nick  
 5 Sturgess, none of you spoke one single word about  
 6 Dr. Marks' studies; correct?  
 7 A. To the best of my --  
 8 MR. WEIR: Object to form.  
 9 Q. (BY MR. TILLERY) Go ahead.  
 10 A. Yes, to the best of my recollection,  
 11 none of us spoke to Dr. Marks' studies.  
 12 Q. Now, let's go to slide 53.  
 13 Okay? What is this slide?  
 14 A. It appears to me, sir, to be speakers'  
 15 notes. That is -- on PowerPoints, there is an  
 16 option to include speakers' notes, and that's what  
 17 this appears to be to me.  
 18 Q. And if you look at the top of that  
 19 speakers' notes, it says: Studies Conducted on  
 20 Paraquat in Sensitive Strains of Mice At Maximum  
 21 Tolerated Doses.  
 22 Then it says: Syngenta has sponsored  
 23 and published a number of animal studies  
 24 investigating the potential effects of maximum  
 25 tolerated doses of paraquat on neurochemistry,

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1 stereology, neuropathology endpoints in  
 2 dopaminergic systems of the most sensitive strain  
 3 of animal (male C57BL6J mice); correct?  
 4 A. Correct.  
 5 Q. And then it says -- take a look at  
 6 that. There are No Effects of Paraquat in Animal  
 7 Models.  
 8 Right?  
 9 A. That's what is stated there, sir.  
 10 Q. That's not true, from your history,  
 11 was it?  
 12 MR. WEIR: Object to form.  
 13 Q. (BY MR. TILLERY) You knew that wasn't  
 14 true when you said it, didn't you?  
 15 A. I don't -- specifically, I don't know  
 16 that that statement was said to EPA. But that  
 17 statement is clearly stated on that slide.  
 18 Q. Well, what does that mean? Of course,  
 19 it's on the slide. We can all see it. We're not  
 20 blind here. What I'm trying to tell you is, that  
 21 statement is a lie, isn't it?  
 22 MR. WEIR: Object to form.  
 23 Q. (BY MR. TILLERY) You lied to the EPA.  
 24 MR. WEIR: Same objection.  
 25 THE WITNESS: Sir, I do not know

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1 that that statement was actually spoken at EPA.  
 2 The purpose of speaker notes is to prompt the  
 3 speaker as they are going through presentations.  
 4 I have no confirmed recollection that that  
 5 specific sentence was said. It may have been  
 6 said. I do not recall that -- if it was  
 7 specifically said or not, sir.  
 8 Q. (BY MR. TILLERY) Well, who gave this  
 9 part of the presentation?  
 10 A. I believe -- if you could go up one  
 11 slide for me, I believe this is still in the  
 12 animal models, and if so, it would have been Nick  
 13 Sturgess, as Charles would have handled the  
 14 epidemiological. This looks actually like it's  
 15 epidemiological, so this would have been in the  
 16 part of the presentation that Dr. Breckenridge  
 17 would have made.  
 18 Q. So you're gleaned that from slide 52?  
 19 A. Yes, sir, only because of, in the X  
 20 axis of slide 52, and also the title, it makes  
 21 references to epidemiology, and Charles was there  
 22 as our expert in epidemiology.  
 23 Q. Okay. So slide 52 of 95 tells you it  
 24 was Dr. Breckenridge who presented the talk based  
 25 upon the speaker notes existing on slide 53;

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1 right?  
 2 A. Correct.  
 3 MR. WEIR: Object to form.  
 4 Q. (BY MR. TILLERY) All right. Let's go  
 5 to slide 53. Next page.  
 6 Now, let's assume that, in fact,  
 7 he followed his speaker notes and he actually said  
 8 what's on the slide. Okay?  
 9 Are you with me?  
 10 A. Yes, sir.  
 11 Q. That statement was not true, was it?  
 12 MR. WEIR: Object to form.  
 13 THE WITNESS: I would say that  
 14 statement does not reflect some of the conclusions  
 15 in other studies as it is written.  
 16 Q. (BY MR. TILLERY) Okay. And let's go  
 17 to the next one.  
 18 We have consistently found that  
 19 paraquat does not reduce dopamine levels or  
 20 increase dopamine turnover in the striatum.  
 21 That statement was not true, was  
 22 it?  
 23 MR. WEIR: Object to form,  
 24 foundation.  
 25 THE WITNESS: And I do not agree

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1 with the conclusion there, sir. I believe the  
 2 results of the studies that had been presented in  
 3 2013 through this reflect that statement.  
 4 Q. (BY MR. TILLERY) Okay. That doesn't  
 5 mention anything about studies in 2013, however,  
 6 does it?  
 7 Why won't you answer my question?  
 8 A. Sir --  
 9 Q. Let's look at the statement. It  
 10 says --  
 11 A. Okay.  
 12 Q. -- we have consistently found that  
 13 paraquat does not reduce dopamine levels or  
 14 increase dopamine turnover in the striatum.  
 15 Now, let me ask you: Is it a fact  
 16 that Syngenta had consistently found that paraquat  
 17 does not reduce dopamine levels?  
 18 A. That was the conclusion --  
 19 MR. WEIR: Objection -- excuse me,  
 20 Mr. Dixon. Just give me a moment to get my  
 21 objections in. Object to foundation and scope,  
 22 please.  
 23 Q. (BY MR. TILLERY) What was your  
 24 answer?  
 25 A. That is the conclusion of the

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1 scientists, sir.  
 2 Q. Well, no, I'm asking you. The  
 3 scientists get their chance to answer my questions  
 4 later. I'm asking you now, okay?  
 5 That statement was not true based upon  
 6 your review of Dr. Marks' studies, was it?  
 7 A. That statement --  
 8 MR. WEIR: Same objections.  
 9 THE WITNESS: That statement was  
 10 based upon the purpose of the presentations, which  
 11 was to update the agency on the research. So it  
 12 was not geared at the Dr. Marks' studies, but the  
 13 purpose of this presentation, which was following  
 14 up on the 2013 presentation.  
 15 Q. (BY MR. TILLERY) Now, you know what  
 16 you told me was just a bunch of baloney. Now, you  
 17 know that. Now let's try -- you're under oath,  
 18 sir.  
 19 Do you understand the significance  
 20 of this? Of what you're saying and the fact that  
 21 you're under oath?  
 22 A. I do.  
 23 Q. I said do you. Because if you don't,  
 24 we can stop and have this taken before the Court.  
 25 Because I think you're not telling me the truth

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1 right now. Okay? So let's go back to my  
 2 deposition, knowing full well that we're taking  
 3 this case extremely seriously, because of the  
 4 number of people who are dying all over the  
 5 country. Okay? Now, that's my prelude. I'll  
 6 start my question.  
 7 The statement: We have consistently  
 8 found that paraquat does not reduce dopamine  
 9 levels or increase dopamine turnover in the  
 10 striatum was not correct, was it, sir?  
 11 MR. WEIR: Object to the form.  
 12 THE WITNESS: I believe the  
 13 statement is correct in the context of the  
 14 information being presented at that meeting, sir.  
 15 Q. (BY MR. TILLERY) The statement, the  
 16 next statement, does not -- we -- strike that.  
 17 There Are No Effects of Paraquat  
 18 in Animal Models, that title. And he says below  
 19 it: We have consistently found that paraquat does  
 20 not reduce the number of TH+ neurons in the  
 21 substantia nigra pars compacta.  
 22 That statement was not correct  
 23 either, was it?  
 24 MR. WEIR: Same objection.  
 25 THE WITNESS: I believe that

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1 statement is correct in the context of the  
 2 information that was being presented to the EPA.  
 3 Q. (BY MR. TILLERY) If you include  
 4 Dr. Marks' studies, was it correct?  
 5 MR. WEIR: Same objection.  
 6 THE WITNESS: Dr. Marks' studies  
 7 did have statements that they did find reductions  
 8 in the substantia nigra or the neurons or however  
 9 it was phrased as we reviewed them. I acknowledge  
 10 the point that you raise there.  
 11 Q. (BY MR. TILLERY) So what I'm trying  
 12 to get is a straight answer to my question. If  
 13 you include Dr. Marks' studies, that statement was  
 14 not correct, was it?  
 15 MR. WEIR: Same objection.  
 16 THE WITNESS: If the statement was  
 17 meant to include Dr. Marks' studies, then it would  
 18 not seem consistent with what is stated there.  
 19 Q. (BY MR. TILLERY) Can you say whether  
 20 it was correct or truthful or not? Are you able  
 21 to say that on the record?  
 22 MR. WEIR: Same objection.  
 23 THE WITNESS: Okay. My view of  
 24 it, based upon what I'm reading here, is that if  
 25 we were to include the Dr. Marks' studies, then

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1 that first statement would not be correct as  
 2 written.  
 3 Q. (BY MR. TILLERY) All right. Now  
 4 let's move on. There Are No Effects of Paraquat  
 5 in Animal Models. That's the title we're under.  
 6 He also says: We have  
 7 consistently found that paraquat does not cause  
 8 neuronal cell death in the substantia nigra pars  
 9 compacta.  
 10 Do you see that?  
 11 A. I do.  
 12 Q. If you include Dr. Marks' studies,  
 13 that statement is also not true. Is that right?  
 14 MR. WEIR: Object to form.  
 15 THE WITNESS: With the provision  
 16 that we include Dr. Marks' studies, that statement  
 17 would not be consistent with her conclusions.  
 18 Q. (BY MR. TILLERY) It would not be  
 19 true, would it, sir?  
 20 MR. WEIR: Same objection.  
 21 THE WITNESS: I would agree that  
 22 is not what her conclusions are.  
 23 Q. (BY MR. TILLERY) Okay. And also we  
 24 have consistently found that paraquat does not  
 25 activate microglia ...

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1 Let's stop there.  
 2 A. Sir, because I am not very expert in  
 3 this area, I do not understand or do not have a  
 4 good understanding of which studies had impact on  
 5 the microglia, so I'm not able to definitively  
 6 answer that. I apologize.  
 7 Q. That's no problem. That's not a  
 8 problem, sir.  
 9 Syngenta reported to the USEPA that it  
 10 has consistently found that paraquat does not  
 11 reduce the number of TH+ neurons, didn't it?  
 12 MR. WEIR: Object to form.  
 13 THE WITNESS: That was the reports  
 14 based upon the study programs that we were  
 15 presenting.  
 16 Q. (BY MR. TILLERY) And some Syngenta  
 17 studies did not find paraquat reduced the number  
 18 of TH+ neurons in the substantia nigra; right?  
 19 A. I'm afraid I don't have enough  
 20 familiarity to speak definitively to that, sir.  
 21 Q. What about the Breckenridge study? Do  
 22 you know what its findings were in terms of  
 23 reduction of the number of TH+ neurons?  
 24 MR. WEIR: Object to the form.  
 25 THE WITNESS: If I recall, sir, I

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<p>1 believe there was one dosing regimen in the study                  2 that I believe ended in '58, where at one dose                  3 level I believe there was an effect there.                  4 Q. (BY MR. TILLERY) In the Minima study,                  5 did it find anything about the reduction of the                  6 number of TH+ neurons?                  7 MR. WEIR: Same objection.                  8 THE WITNESS: Sir, I don't know                  9 the answer to that. I know the overall context of                  10 the Minima study but not the specific details.                  11 Q. (BY MR. TILLERY) What about the                  12 Smeyne study? Did it make findings regarding the                  13 reduction of TH+ neurons in the substantia nigra?                  14 MR. WEIR: Same objection.                  15 THE WITNESS: Very similar to my                  16 last answer, I have a high level awareness of the                  17 Smeyne study, but not the specifics of the                  18 individual findings, so I can't speak to that,                  19 sir.                  20 Q. (BY MR. TILLERY) Dr. Marks' second                  21 study found a reduction in TH+ neurons in the                  22 substantia nigra, didn't it?                  23 MR. WEIR: Same objection.                  24 THE WITNESS: I would have to go                  25 back to see the study, but if that was one of the</p>	<p>1 date that we agree to at a later time, so the                  2 deposition is suspended.                  3 Do you understand that, sir?                  4 THE WITNESS: Yes, sir.                  5 MR. TILLERY: All right. Thank                  6 you.                  7 MR. WEIR: Before we end, just                  8 again, note for the record as I did on Monday, I                  9 do anticipate having redirect for the witness.                  10 And I understand my opportunity will come at the                  11 conclusion of Mr. Tillery's questioning, and for                  12 the record, we object to the use of the deposition                  13 until we have a chance to do redirect.                  14 MR. TILLERY: Again, we would                  15 honor any kind of -- whatever those restrictions                  16 are, but to the extent that we file expert reports                  17 in the interim, those expert reports, I don't know                  18 that they would, but may or may not have                  19 references to these depositions, so -- just as                  20 I've indicated in the past.                  21 All right. Thank you very much.                  22 Good night, sir.                  23 THE VIDEOGRAPHER: This concludes                  24 today's portion of the videotaped deposition of                  25 Montague Dixon. We are going off the record at</p>
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<p>1 conclusions, then I would say yes.                  2 Q. (BY MR. TILLERY) Okay. And her third                  3 study did as well, right?                  4 MR. WEIR: Same objection.                  5 THE WITNESS: Yes, sir, and the                  6 same answer, it's based on what was in the                  7 conclusion.                  8 Q. (BY MR. TILLERY) And No. 4 as well,                  9 the fourth one, same thing, right?                  10 MR. WEIR: Same objection.                  11 THE WITNESS: Same answer, sir.                  12 Q. (BY MR. TILLERY) And one of                  13 Dr. Breckenridge's studies found a reduction in                  14 the TH+ neurons in the substantia nigra at the                  15 15-milligram dose, didn't it?                  16 A. I believe that is correct, sir.                  17 Q. Okay.                  18 MR. TILLERY: Well, your counsel                  19 advised that we should conclude by this time. So                  20 I'm about to break away to a new topic. We're not                  21 finished with the deposition, but he advised that                  22 you would like to conclude at 5:00 p.m. Eastern                  23 Time. So I'm honoring that commitment to do so,                  24 if that's okay. At this point, we will work                  25 together with Syngenta's counsel to resume at a</p>	<p>1 5:00 p.m. Eastern Time.                  2 (Time noted: 5:00 p.m. EDT)                  3 --o0o--                  4                  5                  6                  7                  8                  9                  10                  11                  12                  13                  14                  15                  16                  17                  18                  19                  20                  21                  22                  23                  24                  25</p>



CERTIFICATE

I, DEBRA A. DIBBLE, RDR, CRR, Notary Public, do hereby certify:

That MONTAGUE DIXON, the witness whose deposition is hereinbefore set forth, was duly sworn by me and that such deposition is a true record of the testimony given by such witness;

That pursuant to FRCP Rule 30, signature of the witness was requested by the witness or other party before the conclusion of the deposition;

I further certify that I am not related to any of the parties to this action by blood or marriage, and that I am in no way interested in the outcome of this matter.

IN WITNESS WHEREOF, I have hereunto set my hand on 7-6-2020.

Debra A. Dibble
Registered Diplomate Reporter
Certified Realtime Reporter
Notary Public
My Commission Expires 5/3/2023

ERRATA SHEET FOR THE TRANSCRIPT OF:

CASE NAME: Hoffmann v. Syngenta

DEP DATE: June 24, 2020

DEPONENT: MONTAGUE DIXON

Pg. Ln. Now Reads Should Read Reason

Table with 4 columns: Pg. Ln., Now Reads, Should Read, Reason. Contains multiple rows of empty lines for corrections.

X MONTAGUE DIXON

I HEREBY CERTIFY that I have read this transcript of my deposition, and that this transcript accurately states the testimony given by me, with the changes or corrections, if any, as noted.

X MONTAGUE DIXON