

Dixon

EXHIBIT 17

FILED UNDER SEAL

MONTY DIXON VOLUME II 1/7/2021

Page 251		Page 253	
1	IN THE CIRCUIT COURT	1	Exhibit 19 Document Bates stamped 381
2	TWENTIETH JUDICIAL CIRCUIT	2	Syngenta-PQ-00044965, study dated
3	ST. CLAIR COUNTY, ILLINOIS	3	January 21, 2011, by William J.
4	-oOo-	4	Ray
5	DIANA HOFFMANN,)	5	Exhibit 20 Document from the United States 390
6	Individually and as)	6	Environmental Protection Agency
7	Independent Administrator)	7	dated September 24, 2020
8	of the Estate of THOMAS)	8	Exhibit 21 Three-page letter Bates stamped 400
9	R. HOFFMANN, Deceased,)	9	Syngenta-PQ-02510030
10	et al.,)	10	Exhibit 22 1968 Ortho Paraquat CL label 404
11	)	11	Exhibit 23 Folder with handwriting Bates 408
12	Plaintiffs,)	12	stamped CUSA-00114447
13	)	13	Exhibit 24 May 12th, 1971 document to R.D. 409
14	vs.) No. 17-L-517	14	Wessel Bates stamped
15	)	15	Syngenta-PQ-02508227
16	SYNGENTA CROP)	16	Exhibit 25 Notes from ICI concerning a 412
17	PROTECTION, LLC, et al.,)	17	February 27, 1974 meeting with
18	)	18	Chevron
19	Defendants.)	19	Exhibit 26 Document entitled "Notes on 417
20	)	20	Discussions with Chevron San
21	_____)	21	Francisco, March 28 and 29th,
22		22	1974 Bates stamped
23		23	Syngenta-PQ-13119252
24		24	
13	VIDEO-RECORDED VIDEOCONFERENCE DEPOSITION OF		
14	MONTY DIXON		
15	VOLUME II (Pages 251-557)		
16	January 7, 2021		
17	(Beginning at 8:05 a.m.)		
18			
19			
20			
21			
22			
23			
24			
Page 252		Page 254	
1	INDEX	1	Exhibit 27 Document Bates stamped 421
2	PAGE	2	CUSA-00341060, March 29, 1974,
3	EXAMINATION BY MR. TILLERY .....263	3	meeting report regarding paraquat
4	EXHIBITS	4	label revision
5	Exhibit 14 Document titled "Paraquat Health 339	5	Exhibit 28 1974 Ortho Paraquat CL label 424
6	Science Team Action Minutes for	6	Exhibit 29 Gramoxone paraquat label 427
7	Marlow Meeting 5th, 6th, 7th	7	Exhibit 30 Confidential email written from 438
8	October 2009"	8	Mr. Willis of ICI to Mr. Hughes,
9	Exhibit 15 Update on Syngenta's research 345	9	Northcott, and Slade Bates
10	program Bates stamped	10	stamped Syngenta-PQ-13120361
11	Syngenta-PQ-00486991	11	Exhibit 31 1986 Gramoxone Super label Bates 449
12	Exhibit 16 Document entitled "Paraquat 348	12	stamped Syngenta-PQ-13800146
13	Health Science Team Action	13	Exhibit 32 Gramoxone Super product 462
14	Minutes from Marlow Meeting 20	14	information document Bates
15	and 21 April 2009. The Compleat	15	stamped Syngenta-PQ-01832754
16	Angler, Marlow, UK"	16	Exhibit 33 Gramoxone Extra label from 1992 475
17	Exhibit 17 Document Bates stamped 355	17	Bates stamped
18	Syngenta-PQ-01305484, summary of	18	Syngenta-PQT-ATR-12448188
19	notes of Dr. DI Monte's	19	Exhibit 34 Document entitled "Paraquat 483
20	presentation at the Marlow	20	Backpack Risk Assessment"
21	meeting	21	Exhibit 35 Document Bates stamped 491
22	Exhibit 18 Document entitled "Syngenta Human 364	22	Syngenta-PQT-ATR-16564722
23	Safety Potentially Referable	23	Exhibit 36 submission from Zeneca Bates 496
24	Findings Approach Committee"	24	stamped Syngenta-PQ-00226998

1 (Pages 251 to 254)

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1 Exhibit 37 September 1, 1998 Zeneca document 499
signed by Ralph Riggs

2 Exhibit 38 Document Bates stamped 500
3 Syngenta-PQ-00544073, 1999
4 paraquat concentrate warning,
5 3/26/99

6 Exhibit 39 Letter to all paraquat 501
7 registrants from the EPA dated
8 February 12th, 2001

9 Exhibit 40 Email chain beginning with email 504
10 from Mr. Dixon dated May 30th,
11 2001

12 Exhibit 41 Email From Ian Wheals to Jerry 515
13 Wells dated 9/17/01

14 Exhibit 42 Follow-up letter to the EPA 521

15 Exhibit 43 Email to Scott Lawson from Chuck 523
16 Foresman dated 2/27/02

17 Exhibit 44 Document Bates stamped 527
18 Syngenta-PQ-01981745, 12/12/03
19 document entitled "Paraquat: A
20 unique contributor to agriculture
21 and sustainable development"

22 Exhibit 45 Document entitled "Paraquat, A 538
23 unique contributor to agriculture
24 and sustainable development"

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1 Exhibit 46 Screenshot of web page from the 541
2 Paraquat information center

3 Exhibit 47 Database listing Mr. Dixon as the 548
4 custodian

5
6 (Exhibits attached electronically.)
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1 IN THE CIRCUIT COURT
2 TWENTIETH JUDICIAL CIRCUIT
3 ST. CLAIR COUNTY, ILLINOIS
4 -oOo-

5 DIANA HOFFMANN,)
6 individually and as)
7 Independent Administrator
8 of the Estate of THOMAS)
9 R. HOFFMANN, Deceased,)
10 et al.,)
11)
12 Plaintiffs,)
13)
14 vs.) No. 17-L-517
15)
16 SYNGENTA CROP)
17 PROTECTION, LLC, et al.,)
18)
19 Defendants.)
20 _____)
21)
22)
23)
24)

-oOo-

1 VIDEO-RECORDED VIDEOCONFERENCE DEPOSITION
2 OF MONTY DIXON, VOLUME II, produced, sworn, and examined
3 on Thursday, January 7, 2021, taken on behalf of the
4 Plaintiffs, with the witness appearing from
5 Jamestown, North Carolina, before RENEE COMBS
6 QUINBY, a Certified Court Reporter (MO) #1291,
7 Certified Shorthand Reporter (IL) #084-004867,
8 Certified Shorthand Reporter (CA) #11867, Registered
9 Diplomat Reporter, and a Certified Realtime
10 Reporter.
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1 A P P E A R A N C E S
2
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2 (Pages 255 to 258)

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21 St. Louis, MO 63101

22 (800)280-3376

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24 COURT REPORTER:

25 Renee Combs Quinby, RDR, CRR

26 Missouri CCR #1291

27 Illinois CSR #084-004867

28 California CSR #11867

29 Arkansas CSR #821

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1 Would the attorneys present please

2 introduce themselves and the parties they represent.

3 MR. TILLERY: For the plaintiffs, Steve

4 Tillery of the law firm of Korein Tillery.

5 MR. WEIR: Tom Weir from Kirkland &

6 Ellis on behalf of Syngenta.

7 MS. KIMBALL: Anne Kimball from Heyl

8 Royster on behalf of Growmark.

9 MS. CECIL: Jennifer Cecil from Husch

10 Blackwell on behalf of Chevron USA.

11 MR. ZACHER: Gerhardt Zacher from

12 Wilbur Ellis Company.

13 THE VIDEOGRAPHER: Would the court

14 reporter please read the stipulation and swear in

15 the witness.

16 THE REPORTER: This is Renee Quinby. I

17 am a Certified Court Reporter. This deposition is

18 being taken remotely, and those participating in

19 these proceedings today are attending via

20 videoconference with the witness appearing from

21 Jamestown, North Carolina.

22 Counsel acknowledge their understanding

23 that I am not physically present with the witness

24 and that I will be reporting this proceeding

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1 -oOo-

2 IT IS HEREBY STIPULATED AND AGREED by and

3 between counsel for the Plaintiffs and counsel for

4 the Defendants that this deposition may be taken in

5 machine shorthand by RENEE COMBS QUINBY, a Certified

6 Court Reporter and Notary Public, and afterwards

7 transcribed into typewriting and the signature not

8 waived by agreement of counsel and consent of the

9 witness.

10 -oOo-

11 PROCEEDINGS 8:05 a.m.

12 THE VIDEOGRAPHER: We're on the record.

13 Today's date is January 7th, 2021, and the time is

14 8:05 a.m. This is the video-recorded deposition

15 of Montague Dixon, Volume II, in the matter of Diana

16 Hoffmann, et al., versus Syngenta Crop Protection,

17 LLC, et al., Case Number 17-L-517, in the Circuit

18 Court, 20th Judicial Circuit, St. Clair County,

19 Illinois.

20 This deposition is being held at remote

21 locations. The reporter's name is Renee Quinby. My

22 name is Shaun Steele. I'm the certified legal

23 videographer. We're with Alaris Litigation

24 Services.

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1 remotely. Counsel further acknowledge that I will

2 not be administering the oath in person but am doing

3 so remotely. The parties and counsel consent to

4 this arrangement and waive any objections to this

5 manner of proceeding.

6 Counsel, please indicate your agreement

7 verbally on the record by stating your name and that

8 you stipulate to these terms, after which, I will

9 swear in the witness and we may begin.

10 MR. TILLERY: This is Steve Tillery on

11 behalf of the plaintiffs. We agree and stipulate to

12 these arrangements. Have no objection to them.

13 MR. WEIR: Tom Weir on behalf of

14 Syngenta. We stipulate and agree as well.

15 MS. KIMBALL: Anne Kimball on behalf of

16 Growmark. Stipulate and agree.

17 MS. CECIL: Jennifer Cecil on behalf of

18 Chevron. We agree and stipulate.

19 MR. ZACHER: Gerhardt Zacher from

20 Wilbur Ellis. Stipulated.

21 MONTY DIXON,

22 of lawful age, having been first duly sworn to

23 testify to the truth, the whole truth, and nothing

24 but the truth in the case aforesaid, deposes and

3 (Pages 259 to 262)

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1 says in reply to oral interrogatories propounded as
2 follows, to-wit:
3 --oOo--
4 EXAMINATION
5 BY MR. TILLERY:
6 **Q. Would you state your name again for**
7 **this record because of the time that has taken place**
8 **from your first deposition, could you just state**
9 **your name for this record.**
10 A. My name is Montague Dixon.
11 **Q. And, Mr. Dixon, the last time or first**
12 **time we spoke was in June of last year, right?**
13 A. Yes, sir.
14 **Q. What work have you done in connection**
15 **with this lawsuit in preparation in any way for this**
16 **deposition since that June deposition?**
17 A. Since the June deposition, I've had
18 multiple conversations with counsel. I have
19 reviewed documents provided by the counsel as
20 potential documents to be familiar with. And
21 essentially that's been it, sir.
22 **Q. Have you read -- strike that.**
23 **Have you reviewed any depositions?**
24 A. Yes, sir. I was presented with two

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1 depositions that I skimmed just to be familiar with,
2 but did not spend any significant time other than
3 just a quick read.
4 **Q. Who were those depositions of?**
5 A. I believe one was -- the last name was
6 Greenamyre, and I don't remember the name of the --
7 of the other gentleman. I think it was a gentleman,
8 but I don't recall the name, sir.
9 **Q. Do you remember the subject matter of**
10 **the person's testimony or opinions?**
11 A. No, sir. I really just read them very
12 cursorily. Did not spend any time getting into it
13 other than just a quick read.
14 **Q. What was the take-away from your quick**
15 **read of Dr. Greenamyre's testimony?**
16 A. Honestly, I don't recall. It was such
17 a cursory read that I spent no time trying to really
18 get into it or to understand it.
19 **Q. Okay. What else did you do in terms of**
20 **preparation for this deposition?**
21 A. Reviewed the documents that I was
22 provided along the way and also received additional
23 documents from counsel to review, and so reviewed
24 those. Went back and rereviewed, which was

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1 contained in those documents, the PowerPoints from
2 the communications we had with EPA around our
3 research program. Primarily that's what -- that was
4 the extent of my, you know, review of the existing
5 documents.
6 **Q. Do you have any documents with you**
7 **today?**
8 A. No, sir. Not in the room obviously.
9 You know, the documents that were provided
10 previously are downstairs.
11 **Q. Where are you taking the deposition?**
12 A. I am in my home.
13 **Q. Okay. Is there any other work you've**
14 **done since your deposition started in June that you**
15 **haven't told me about?**
16 A. No, sir. And just, as I mentioned,
17 just reviewing the documents we've had. You know,
18 reviewing -- I did review labels and timelines, some
19 of those were in the documents, but just trying to
20 familiarize myself with the label history of our --
21 of the products prior to, you know -- prior to
22 Syngenta having ownership of them.
23 **Q. So you went back as far as you could to**
24 **look at the labels on the -- on the product from the**

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1 '60s, I presume?
2 A. I was able to look at one label from
3 the '60s. I was able to find one. There's one
4 that's also, I believe, in the deposition prep
5 materials but also on the EPA website from the early
6 1970s; however, it's very difficult. You can barely
7 read it. There's like streaks and lines going
8 through it, but I was just trying to familiarize
9 myself with the history of paraquat labels.
10 **Q. Okay. Did you look at any emetics**
11 **documents?**
12 A. As far as emetics documents, I reviewed
13 the calculations that go into how to create -- to
14 establish the emetics, so I did look back. As we've
15 registered products over the years, most recently we
16 registered a new end use product, so I went back and
17 reviewed how we prepared the emetic concentrations
18 and stated those on the CSFs.
19 As over the time that I've been
20 regulatory manager we changed how we referenced them
21 on the CSFs, so I wanted to make sure that I was
22 familiar with the -- how you actually get to the end
23 concentration based upon the CSF because it's not a
24 straightforward calculation.

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1 **Q. Did you look at any surfactant**
2 **documents?**
3 A. No, sir.
4 **Q. Has paraquat ever been sold in the**
5 **United States with a surfactant included in the**
6 **product shipped?**
7 A. My understanding would be that's very
8 likely. I would have to look at the CSFs to be
9 sure. I know in our Gramoxone Inteon there were
10 antifoaming agents which I don't know if those
11 qualify as surfactants or not.
12 I do believe that there was a series of
13 products that were manufactured and produced in the
14 '80s and into the '90s, some of which were
15 combination products, and as such, it's certainly
16 possible those may have contained surfactants.
17 **Q. One of the things we should get out of**
18 **the way is this discussion of emetics and the**
19 **formula. Because in reviewing your deposition,**
20 **there was some confusion I think a little bit about**
21 **the emetics formula. And I spoke with Mr. Botham**
22 **about this earlier this week, and I wanted you to**
23 **clarify this if you can.**
24 **What is the percentage of PP796 that**

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1 **was added to paraquat the very first time it was**
2 **used?**
3 A. The very first time?
4 **Q. That would have been, what, 1982?**
5 A. I believe approximately – I believe
6 the emetic received EPA approval, which as a
7 tolerance approval, around 1981ish; and so that
8 being the case, 1982 would be approximately the time
9 frame you would expect the first registration.
10 **Q. And is that when ICI, Syngenta's**
11 **predecessor, first started selling paraquat products**
12 **in the United States itself?**
13 A. I am not 100 percent sure of when ICI
14 initially started. I certainly know at some time
15 point in the '80s ICI certainly was selling. I
16 believe the first emetic formulations may have been
17 submitted sometime, but I don't know if they were
18 submitted by Chevron or the ICI predecessor in the
19 late '70s. And --
20 **Q. Do you mean for registration or --**
21 A. I would believe for registration. I
22 believe those formulations – before something such
23 as the emetic could be used in a formulation, it
24 must first get what's called an inert clearance or a

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1 tolerance, so I believe those petitions were made
2 sometime around 1976 or 1977, but I don't think the
3 approval took place until the early 1980ish maybe.
4 I think the 1981, towards the end of
5 the year is when the Federal Register notice was
6 published establishing that tolerance. At that
7 point then a registrant would have the ability to
8 include that in an end use product.
9 **Q. All right. At that time what was the**
10 **formula or calculation for the amount of emetic**
11 **included in paraquat products?**
12 A. I apologize, but off the top of my head
13 I do not know what that exact amount would have
14 been.
15 **Q. Well, just give me your best estimate.**
16 **If you were selling a two-and-a-half-gallon jug of**
17 **concentrate to a farmer, how much emetic would have**
18 **been included if it were in place in paraquat?**
19 A. As I try to answer that I'm going to
20 work my way backwards from what I know, which is
21 when we had our product Gramoxone Inteon, which was
22 registered in 2006, and I appreciate that you're
23 asking about 1980. I'm just trying to work through
24 in my mind the ratios I'm familiar with. In 19- --

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1 in 2005, we went to 1.5 grams per liter. Prior to
2 that it was .5 grams per liter.
3 **Q. When you say "prior to that," prior to**
4 **2005?**
5 A. Yes, sir.
6 **Q. Products – if you don't mind, I'm**
7 **trying not to interrupt you, I'm sorry --**
8 A. Sure.
9 **Q. -- Mr. Dixon. But I want to just make**
10 **sure the record is very clear on this.**
11 So you said prior to 2005, the product
12 that – the paraquat product that was being sold
13 contained .5 milligrams of PP796 per liter of
14 material sold?
15 A. No, sir, that's not quite – it's --
16 for a particular product that we sold, and this is
17 not talking about the combination products. I'm
18 talking about the one that I'm -- that we replaced
19 when we did the Gramoxone Inteon. It was 5 grams
20 per liter, not milligrams. 5 grams per liter.
21 **Q. I'm sorry. I misspoke. I'm sorry.**
22 A. No worries.
23 **Q. Yes, 5 grams.**
24 A. Per liter.

5 (Pages 267 to 270)

1 Q. Per liter, okay.
 2 And how long – just so we're clear –
 3 how long had 5 grams of PP796 emetic been used in
 4 Syngenta products prior to 2005?
 5 A. I cannot speak on all of the products.
 6 I certainly could if we could look at the CSFs. I
 7 certainly know that Gramoxone Max, which was the
 8 product that we replaced with Gramoxone Inteon, had
 9 that .5 grams – I'm sorry. I said "5 grams"
 10 earlier. I also misspoke. It was .5 grams per
 11 liter, not 5.
 12 I believe going back even further that
 13 was a standard concentration. I'm saying that
 14 without knowing all the different possible
 15 formulations that were there, but I believe the
 16 .5 grams per liter was the target concentration that
 17 ICI and Syngenta targeted from the '80s up through
 18 the '90s, into the early 2000s.
 19 But I would like to, just for the
 20 record, say I'm doing that based on my understanding
 21 of one product and not necessarily knowing the
 22 combination or other products that could have been
 23 there. And certainly we could look at CSFs and try
 24 to interpret those if need be.

1 Q. All right. So let's see if we can
 2 solve this riddle this way. At the first break, you
 3 have those documents present at your home. Would
 4 you secure those documents and just do a quick
 5 confirmation of the accuracy of your last answer,
 6 okay?
 7 A. To the best of my ability I will take a
 8 look at what I have and try to come back to that,
 9 sir. Yes, sir.
 10 Q. All right. So now if we can summarize,
 11 as best you know, subject to confirmation through a
 12 series of documents you referred to as "CSF," what
 13 are those?
 14 A. Confidential statements of formula.
 15 Those are documents that are required when a
 16 formulation is registered at EPA to establish the
 17 contents of the formulations.
 18 Q. All right. So subject to your
 19 confirmation through CSF documents, it's your
 20 current recollection that .5 grams of the emetic
 21 PP796 was added to paraquat from the time it was
 22 first added in the United States until Inteon,
 23 paraquat Inteon, was sold in 2005, correct?
 24 A. I can't go quite that far because I

1 certainly believe there could have been products,
 2 and this may have been predecessor to the ICI
 3 products. It may have been the ICI products when
 4 the emetics were first being developed. I believe
 5 they were looking at different ratios, and so it was
 6 certainly possible there could have been different
 7 ratios. The .5 grams per liter, to my knowledge,
 8 was based on trying to meet the FAO specifications.
 9 Q. So you're looking at that or thinking
 10 of it, as I understand your answer, as a default
 11 formula in large measure? In other words, unless
 12 there was some specific product that might be in
 13 some way deviating from that default, they used
 14 .5 grams of the emetics PP796 per liter of – of
 15 concentrate, correct?
 16 A. Yes, sir. And I believe early on,
 17 which would be the case as companies are trying to
 18 develop formulations, there's always variants that
 19 are being considered trying to be developed, and so
 20 it is possible that in those variants – when I say
 21 "variants," different compositions in a
 22 formulation – that there could have been different
 23 ratios.
 24 But my understanding certainly from the

1 times that I've been the paraquat reg manager and
 2 going back prior at least into the '90s, I believe
 3 the target concentration was always that .5 grams
 4 per liter with the caveat there could be a
 5 formulation that it was tweaked one direction or
 6 another.
 7 Q. And Inteon changed that formulation to
 8 increase the PP796 by an order of magnitude of
 9 three, right?
 10 A. Yes, sir, that is correct.
 11 Q. So it – in Inteon it went to 1.5 grams
 12 per liter of emetic in the concentrated product,
 13 correct?
 14 A. That is the target concentration in the
 15 end use product, yes, sir.
 16 Q. Was there a change in the effectiveness
 17 of the emetic by the inclusion or addition of
 18 surfactants by the applicator?
 19 MR. WEIR: Object to form and
 20 foundation.
 21 THE WITNESS: Mr. Tillery, I'm afraid I
 22 wouldn't have the knowledge on that, what the impact
 23 of adding surfactants would be.
 24

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1 BY MR. TILLERY:
2 Q. Okay. Have you ever analyzed that
3 topic?
4 A. As far as the impact of adding
5 surfactants, I'm not aware of, but that would not
6 have been an area I would have been focused in, so I
7 can't say that there's not been an analysis of it.
8 I'm just not familiar with it.
9 Q. Has anyone ever suggested to you that
10 absorption within the gut could be enhanced, thereby
11 rendering the effectiveness of PP796 as an emetic by
12 the inclusion of a surfactant?
13 MR. WEIR: Objection. Foundation.
14 THE WITNESS: Can I answer or should I
15 answer? Is that good?
16 MR. WEIR: Yeah.
17 THE WITNESS: Okay. Mr. Tillery, I
18 have -- I believe somewhere in the past -- I can't
19 remember specifically, but I certainly would not be
20 surprised if that concept or the conversation has
21 been had. I can't point to any specific thing, but
22 it certainly seems, at least at a high level, that I
23 could imagine and recall that there could be
24 discussions along those lines, what would be the

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1 impact of adding surfactants.
2 BY MR. TILLERY:
3 Q. What was the reason for increasing the
4 emetic, PP796, by 300 percent in the Inteon product?
5 A. I think it was part of the holistic
6 approach that we were trying to accomplish to try to
7 mitigate the risks associated with oral ingestions
8 of the product. So the Inteon formulation was a
9 technological attempt by adding something called an
10 alginate, as well as the increase in the emetic, and
11 also a purgative.
12 And the idea being that the alginate
13 once it reached the acidic nature of the stomach
14 would become a gel which would allow more time for
15 the emetic to get to the center of the brain that
16 would cause the emesis, and so I think it was a
17 multifaceted approach to try to improve the
18 survivability of an oral ingestion of the
19 concentrated product.
20 Q. And were all of those features, the
21 alginate and the -- you said the purginate -- were
22 these all added at the same time that the levels
23 were tripled?
24 A. Yes, sir. That is correct.

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1 Q. So that would be in the Inteon product,
2 correct?
3 A. That is correct. That is the
4 definition of Inteon in the U.S. The U.S. Inteon
5 product was we had a two-pound paraquat product with
6 1.5-grams-per-liter emetic, the alginate, and then
7 the purgative, which was magnesium sulfate, and that
8 was designed to try to flush anything that may have
9 gotten into the small intestine.
10 Q. And was there anything besides
11 manganese sulphate in what you refer to as the
12 purginate?
13 A. As far as the purgative, the magnesium
14 sulfate performed that function. In that
15 formulation there was also the dye and odorant and I
16 believe also an antifoaming agent.
17 Q. And how long did that formula persist?
18 A. Until approximately 2011 or '12, at
19 which time we submitted to replace the product with
20 another product.
21 Q. What was the product that you used to
22 replace it?
23 A. It was called Gramoxone SL2.0. The
24 only significant difference between the two products

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1 was the removal of the alginate piece.
2 Q. Why was the alginate piece removed?
3 A. There were a couple of factors that
4 played into that. One was that the manufacturer had
5 sold the alginate business and we were not
6 guaranteed to be able to continue to get the
7 material.
8 Plus we also had done testing that had
9 demonstrated that the formulation with the alginate
10 compared to the formulation without the alginate --
11 so the Gramoxone Inteon, which is the formulation
12 with the alginate was compared in these dog toxicity
13 studies with the replacement product, the Gramoxone
14 SL2.0.
15 And they were showed -- these tests
16 showed that at 64 milligrams per kilogram body
17 weight in the dog, as well as 128 milligrams per
18 kilogram body weight in the dog, which was the key
19 ratio that we were concerned in demonstrating the
20 safety on, that there was no statistical difference
21 between the plasma concentration of paraquat in
22 blood at those two values with or without the
23 alginate, so ...
24 Q. So would it be fair to say that your

7 (Pages 275 to 278)

1 subsequent testing confirmed that alginate really
 2 wasn't helping improve the safety of the product?
 3 A. That's -- those tests showed that you
 4 had equivalent safety with or without the alginate,
 5 yes, sir.
 6 Q. Did you do similar tests with the
 7 purginate?
 8 A. The purgative, that was not isolated
 9 for testing, so it was -- we did not do that same
 10 focused testing compared with or without.
 11 Q. Did you do any testing to determine
 12 that it was important to raise the level of PP796
 13 from .5 grams per liter to 1.5 grams per liter?
 14 MR. WEIR: Object to the form.
 15 THE WITNESS: And, Mr. Tillery, before
 16 I answer that, just I want to clarify on my last
 17 question when I said that I believe the only thing
 18 that was removed was the alginate. I don't recall
 19 directly whether or not in the SL2.0 the magnesium
 20 sulfate was also contained.
 21 I believe it may have also been
 22 removed, but I would have to confirm that. So just
 23 for clarity, I'm not sure if it was just the sodium
 24 alginate or magnesium sulfate.

1 So with respect to the question that
 2 you just asked --
 3 BY MR. TILLERY:
 4 Q. If you can, we'll come back to my
 5 question in a second and I'll restate it, but let's
 6 follow up on what you just said.
 7 So that if, in fact, you removed those
 8 chemicals that you referred to as a purgative --
 9 what did you call it? What is your term, sorry?
 10 A. I believe it was referred to as we were
 11 doing the development as a purgative.
 12 Q. Purgative?
 13 A. Yes, sir. I believe that's how it was
 14 referred to.
 15 Q. Okay. And you also referred to
 16 something as an alginate.
 17 A. That is correct, sodium alginate.
 18 Q. Okay. So what you're saying is is that
 19 you believe that in around 2015, it's -- you're
 20 going to check this in your CSF manuals -- but you
 21 think that it's possible those two, purgative and
 22 alginate, were removed at that time?
 23 A. The timing would have been 2011 or '12.
 24 Q. That would have been --

1 (Reporter clarification.)
 2 MR. WEIR: Sorry. I objected. I
 3 thought it misstates testimony, and then I think
 4 Mr. Dixon clarified.
 5 BY MR. TILLERY:
 6 Q. Go ahead. You can clarify all you
 7 want.
 8 A. Okay. So at -- the time frame for
 9 that, Mr. Tillery, was around 2011 or '12.
 10 Q. All right.
 11 A. And I am definitive that the alginate
 12 was removed. I also believe that the magnesium
 13 sulfate -- I will confirm that. When we did present
 14 the data to EPA, we were -- we did demonstrate to
 15 them the equivalence of the tox profile of the two
 16 formulations which allowed their decision to
 17 register the new product, and then subsequently.
 18 And where the 2015 date may have come
 19 from, I believe that's when we actually canceled the
 20 Inteon formulation. But I will confirm the --
 21 whether or not the magnesium sulfate was pulled out
 22 in the 2012.
 23 Q. Were you still using the Inteon formula
 24 after Gramoxone SL2.0 came out?

1 A. No, we transitioned away from Inteon
 2 into the SL2.0 relatively quickly.
 3 Q. Was PP796 the only emetic Syngenta has
 4 ever used, as far as you're concerned, of paraquat?
 5 A. To my knowledge that is correct.
 6 Q. When Gramoxone SL2.0 came out, was the
 7 percentage of emetic at 1.5 grams per liter
 8 maintained?
 9 A. Yes, sir.
 10 Q. So the only change in America to your
 11 knowledge in terms of the percentage of emetic
 12 occurred in approximately 2005 with the Inteon
 13 product when it tripled the amount of the emetic
 14 from .5 grams to 1.5 grams per liter?
 15 A. Could you please restate that, sir?
 16 Q. Absolutely. So the only change in
 17 terms of American paraquat products sold to your
 18 knowledge in terms of the percentage of emetic
 19 occurred in approximately 2005 with the sale of the
 20 Inteon product when Syngenta tripled the amount of
 21 the emetic from .5 grams to 1.5 grams per liter?
 22 A. So to the best of my knowledge -- and
 23 I'm hesitant to make a 100 percent definitive
 24 statement because I do not know if I've seen all the

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1 formulations, all the possible formulations that
 2 could have existed -- my understanding is that at
 3 least from the '90s going into 2000s, that the
 4 target emetic was always .5 grams per liter. And I
 5 believe that was the case even into the mid '80s.
 6 As far as when it first came out, I'm
 7 not sure, because I do believe there were multiple
 8 variants being considered at that initial time by
 9 one of the legacy organizations, so I don't know
 10 with 100 percent accuracy that .5 grams per liter
 11 has always been the concentration prior to 2005.
 12 **Q. But you're going to check that by**
 13 **looking at CSF documents, right?**
 14 A. Yes, sir.
 15 **Q. At the first break, right?**
 16 A. I'll take a look and see as much
 17 information as I can pull up during the first break,
 18 yes, sir.
 19 **Q. All right. So let's assume your**
 20 **recollection of .5 grams per liter of emetic is**
 21 **correct from 1982 until 2005. My question then to**
 22 **you is is the only change in terms of the percentage**
 23 **of emetic per liter of paraquat when the Inteon**
 24 **product came out in 2005 when it tripled the amount**

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1 **from .5 grams to 1.5 grams?**
 2 A. That is the one I am aware of, and that
 3 is established, the ratio, that we recently
 4 registered another product and we maintained the
 5 ratio of emetic. I believe we talked about this in
 6 our last conversation, Mr. Tillery, is that that
 7 1.5 grams to 2 pounds created a ratio of
 8 emetic-to-paraquat concentration.
 9 Our current product that we are now
 10 selling, and we're moving away from Gramoxone SL2.0.
 11 The Gramoxone SL3.0, the emetic level is no longer
 12 1.5 grams per liter in that. It's about 2.3 grams
 13 per liter, but the rationale for that is that
 14 maintains the same ratio of emetic-to-paraquat ion
 15 concentration. So because the paraquat
 16 concentration was increased, we had to increase the
 17 emetic concentration to maintain that ratio, sir.
 18 **Q. So in your view, the**
 19 **1.5-grams-per-liter ratio is maintained according to**
 20 **your formula because of the difference in the**
 21 **concentration of the active ingredient?**
 22 A. Yes, sir, that is correct.
 23 **Q. And what change was there in the**
 24 **percentage of the active ingredient?**

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1 A. We went from a 2-pound-per-gallon
 2 product to a 3-pound-per-gallon product, and so I
 3 believe the percentages here will be pretty close,
 4 off the top of my head. A 2-pound-per-gallon
 5 product is approximately a 30 percent paraquat
 6 concentration product, and a 3-pound-per-gallon
 7 product is approximately a 42 percent paraquat
 8 concentration in that product.
 9 **Q. And was there, to your knowledge, a**
 10 **commensurate increase in PP796 as an emetic to**
 11 **accompany that new product?**
 12 A. Yes, sir.
 13 **Q. And when is that product on the market?**
 14 A. We received registration for that this
 15 past year. I believe in October. We're in the
 16 process of -- we've actually started selling the
 17 product and we're continuing to transition to that
 18 product and away from the Gramoxone SL2.0 product.
 19 **Q. So when Gramoxone SL2.0 was sold up**
 20 **until now when you're replacing it with this new**
 21 **product -- for the record, though, what is the name**
 22 **of the new product again?**
 23 A. Gramoxone SL3.0.
 24 **Q. Okay.**

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1 A. And just for absolute clarity of the
 2 record, the official EPA name -- so EPA you have
 3 what are called primary brand names and alternate
 4 brand names. The primary registered brand name is
 5 Gramoxone 3LB. However, our business partners down
 6 the road made the decision before the actual
 7 registration they would like to mirror the previous
 8 name of Gramoxone SL3.0.
 9 So if you were to look at the official
 10 registration, it says Gramoxone 3LB as the primary
 11 and Gramoxone SL3.0 is an alternate brand name.
 12 **Q. Okay. Now, let's go back to the Inteon**
 13 **product where you increased PC796 from .5 grams to**
 14 **1.5 grams, okay? Are you with me?**
 15 A. Yes, sir.
 16 **Q. Okay. Why did you do that?**
 17 A. I am not 100 -- I wasn't part of the
 18 formulation development, so my understanding -- but
 19 this is my understanding of it, is the intention was
 20 to have a higher level of emetic so that as you had
 21 the purgative closing the sphincters -- there's
 22 something called the pyloric sphincter in the
 23 stomach -- that by having an increased level of
 24 emetic, you had a higher opportunity for that to get

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1 to the center of the brain that would start the
2 emesis.

3 **Q. So effectively by tripling the amount**
4 **of the emetic you increased its effectiveness,**
5 **right?**

6 A. I believe the -- sorry. Okay. I
7 believe the thought was that having a higher level
8 of emetic would allow it to get to the brain faster.

9 **Q. And that would improve its**
10 **effectiveness, right?**

11 A. I think it would -- it would be viewed
12 as increasing the speed of the emesis so that
13 would -- if your goal is to have an emesis event
14 doing it faster, I would think would be considered
15 increasing the effectiveness.

16 **Q. And was the goal to have an emesis as**
17 **quickly as possible?**

18 A. I believe, sir, yes, sir, that is
19 correct. The idea is to try to evacuate the stomach
20 as quickly as possible. The idea behind the Inteon
21 technology was to trap the material into the
22 stomach, to -- at such point to allow emesis before
23 it could be absorbed into the bloodstream. So
24 that's the idea is you trap it in the stomach and

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1 you try to get an emesis event as rapidly as
2 possible.

3 **Q. Did any of this decision-making take**
4 **into account the number of people who were dying**
5 **from either accidental or intentional ingestion of**
6 **paraquat?**

7 MR. WEIR: Object to the foundation and
8 the form.

9 THE WITNESS: The purpose of the Inteon
10 formulation was specifically to eliminate to the
11 extent possible accidental ingestion fatalities,
12 with the recognition that in the case of suicides, a
13 deliberate ingestion may involve such a bind that
14 the technology would not be able to be successful.
15 But the thought was and the intention was to try to
16 increase the survivability of an accidental
17 ingestion to the extent possible.

18 BY MR. TILLERY:

19 **Q. Do you know how many people have died**
20 **from ingestion either accidental or intentional of**
21 **paraquat worldwide since it went on the market?**

22 MR. WEIR: I'll object to the
23 foundation. I also think it's outside the scope.
24 THE WITNESS: Mr. Tillery, I do not

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1 have an exact number. However, I do know the number
2 is -- is a lot more than -- than any company would
3 ever want. You know, certainly my understanding in
4 the U.S. alone over the last probably 15 to 20 -- 15
5 years, there's probably been 20 or more worldwide.
6 I'm sure that number is substantially and
7 significantly higher.

8 BY MR. TILLERY:

9 **Q. I will represent to you that on Tuesday**
10 **of this week, Dr. Phillip Botham estimated the**
11 **worldwide number of deaths to be approximately**
12 **10,000 from the intentional or accidental ingestion**
13 **of paraquat.**

14 **Do you have any data or information to**
15 **dispute that number?**

16 MR. WEIR: Object again to the scope.

17 THE WITNESS: From my perspective,
18 Dr. Botham would be a lot more knowledgeable in that
19 area. I don't have a specific number, so, you know,
20 that number is certainly a high number, and I have
21 no firm basis to know if it's an under- or
22 overestimation.

23 BY MR. TILLERY:

24 **Q. You couldn't dispute it, right?**

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1 A. I could not dispute it, no, sir.

2 **Q. We're going to come back later and talk**
3 **about a database that -- where you're the custodian**
4 **of that database. How did you become the custodian**
5 **of such a database?**

6 A. I think to call me the "custodian" of
7 that database would exaggerate my role. Our company
8 has a contracted database. I'm assuming, sir,
9 you're referencing to what was formerly called
10 Prozar and is now referred to as ProPharma; is that
11 correct?

12 **Q. That is correct.**

13 A. Yes, sir. So that is an organization
14 that our company has a relationship with that tracks
15 incidences for any of our products. Where I'm
16 knowledgeable and brought into is any products that
17 I'm responsible for, such as paraquat, where if
18 there is a -- an injury or a fatality, the database
19 is typically contacted.

20 The group called ProPharma, they do the
21 relevant investigation and try to assist to the
22 extent possible in the treatment of an individual,
23 and ultimately they are the recorder of all the
24 events. And then we use that information to satisfy

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1 our -- our obligations with respect to 6(a)2 in
 2 reporting either injuries or in the tragic
 3 situations, fatalities.
 4 **Q. Has the formulation for the percentage
 5 of emetic in paraquat differed in other parts of the
 6 world?**
 7 A. With respect to the amount of emetic,
 8 sir?
 9 **Q. Yes, sir. I'm sorry.**
 10 A. Yes. I don't -- I don't have a
 11 definitive answer. I'm sorry. I'm much more
 12 familiar with the U.S. formulations. I don't think
 13 I can give you an accurate answer on the rest of the
 14 world.
 15 **Q. Well, for example, are you aware of the
 16 fact that the amount of emetic in paraquat sold in
 17 France was much higher?**
 18 MR. WEIR: Object to the form.
 19 THE WITNESS: I do not believe I was
 20 aware of that, Mr. Tillery.
 21 BY MR. TILLERY:
 22 **Q. Okay. Do you have any reason based
 23 upon any information that you've ever seen that's
 24 been shared with you at Syngenta, for an emetic**

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1 **percentage being different in a paraquat product
 2 sold anywhere in the world outside the United
 3 States?**
 4 MR. WEIR: Object to the form and
 5 foundation.
 6 THE WITNESS: My understanding, sir, is
 7 that we've tried to meet the emetic requirements in
 8 the FAO specifications, so that would lead me to
 9 believe that the amount of emetic would be
 10 consistent with the FAO specification except in
 11 cases such as the Inteon where we went above it.
 12 But my focus has been the U.S., so I
 13 would not necessarily be able to speak to
 14 formulations in, say, Brazil or New Zealand or
 15 someplace like that with any expertise.
 16 BY MR. TILLERY:
 17 **Q. Was there any analysis of any of the
 18 data sets, data maintained in any kind of Prosar or
 19 other international database that was used
 20 analytically as a basis for increasing the amount of
 21 the emetic in 2005?**
 22 MR. WEIR: Object to the form.
 23 THE WITNESS: Okay. My understanding,
 24 sir, is the decision to increase the emetic as part

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1 of the end count formulation predates 2005.
 2 Probably goes back into the -- the '90s. So with
 3 respect to a question about an analysis for a U.S.
 4 decision around 2005, I'm not aware of any.
 5 BY MR. TILLERY:
 6 **Q. Who was the scientist or scientists who
 7 created the Inteon formulation for Syngenta?**
 8 A. As far as the actual formulation
 9 chemist or the -- I believe the patent holder would
 10 be Professor Heylings.
 11 **Q. It was Jon Heylings, wasn't it?**
 12 A. Yes, sir, I believe that's correct.
 13 That's my understanding.
 14 **Q. And he was the -- the so-called
 15 inventor of the Inteon formulation, wasn't he?**
 16 A. That's what I have come to understand
 17 over the last year or two.
 18 **Q. Okay. Who told you that?**
 19 A. I want to make sure that we're within
 20 the attorney-client --
 21 **Q. Well, you know, you learned from a
 22 lawyer presumably?**
 23 A. Yes, sir.
 24 **Q. Okay. Now, has there been any other**

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1 **product to your knowledge sold in the United
 2 States -- any other paraquat product sold in the
 3 United States that contained a different level or
 4 percentage of emetic than you've told me about?**
 5 A. I believe -- and now this involves a
 6 little bit of speculation -- that our competitive
 7 products that are out there have a different level
 8 of emetic, and that would be the non-Syngenta
 9 products. I believe that they are selling a
 10 slightly higher level of emetic that we believe
 11 approximately 2.5 grams per liter.
 12 But, again, that's -- that's based upon
 13 our understanding of what the other products are.
 14 We don't have, you know, clear line of sight of how
 15 the other products are composed, but that's our
 16 understanding.
 17 **Q. What is the cost of the emetic per
 18 liter?**
 19 A. Sir, I don't know the cost. In the
 20 regulatory realm, we would not be involved with, you
 21 know, costing or things along those lines, so I'm
 22 not sure what that would be.
 23 **Q. Which product -- strike that.
 24 Which paraquat product sold by a**

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<p style="text-align: right;">Page 295</p> <p>1 competitor contains 2.5 grams of emetic per liter? 2 A. There have been -- so to answer that 3 I'd like to give just a little bit of -- of history 4 because I think it will help with the answer is when 5 we developed the Inteon formulation, we tried to 6 make that the standard to be used throughout all of 7 the paraquat products in the U.S. And at the time 8 we went to submit it for the Inteon, we were the 9 only registration. But then in 2005 and '06 the 10 other products were registered. 11 It was at that time when we were 12 advocating for the Inteon technology to be the 13 standard that we were advised -- and not from EPA. 14 I think this was more competitive discussions that 15 the generics at the time, and at the time there was 16 one called Parazone and another one that was called 17 Firestorm, that they were registered on the basis of 18 instead of having to go to the Inteon formulation, 19 they instead would put the maximum allowed amount of 20 emetic into their products. 21 We did do an analysis of two of the 22 products and found that the numbers seemed to be 23 consistent with that, so this would be around 2006 24 or '07, Mr. Tillery. At that time there were two</p>	<p style="text-align: right;">Page 297</p> <p>1 ADAMA, or at the time it was called Makhateshim. 2 They became ADAMA. Now, it is being manufactured 3 and sold by a company called AMVAC. 4 Q. Okay. What about Firestorm? 5 A. Firestorm, I believe the company's name 6 at the time was Sinon. I may not be remembering 7 that correctly, but I believe it was Sinon. 8 S-i-n-o-n. I believe the product is still 9 registered. There's currently, as I mentioned, 10 probably 20 to 25 other paraquat products on the 11 market now. 12 Q. Okay. Let me ask you what are they 13 using as their emetic formula? 14 A. I -- I do not know definitively. We 15 think in the case of the Parazone and the Firestorm 16 where we did do the analysis it was the PP796. I 17 don't believe we've done an analysis on the others, 18 and the statements of formula are confidential. EPA 19 does not require a specific emetic in paraquat 20 formulation. 21 Prior to the proposed Interim decision, 22 which just came out, the agency just said an 23 "effective emetic," so that would allow a registrant 24 to choose an emetic that they deemed effective. I</p>
<p style="text-align: right;">Page 296</p> <p>1 products. Now there's approximately 25 other 2 paraquat products. So the ones in 2006 or '07, 3 where I believe we have more firm knowledge than we 4 have now, would have been Parazone and Firestorm, 5 and we believe those were at the 2.5-gram-per-liter 6 concentration. 7 Q. And that was from your own internal 8 analysis? 9 A. We did do an analysis of those 10 formulations and we believe the 2.5 was based upon, 11 as I mentioned, in 1981 when the emetic was first 12 approved the EPA established a tolerance which is 13 the maximum amount allowed in a formulation. And 14 our seeking the registration of Inteon in order to 15 be able to increase the level of emetic, we had to 16 establish a new tolerance. 17 And that new tolerance was .3 percent 18 by weight in a final formulated product, and that is 19 the number we believe those two products were 20 targeting. And if my recollection serves correctly, 21 analysis showed that that was approximately where 22 they were at. 23 Q. Who manufactures Parazone? 24 A. At this point -- at the original time,</p>	<p style="text-align: right;">Page 298</p> <p>1 know the one we use, and I'm not familiar with what 2 may be in the others. 3 Q. Okay. Let's switch topics if we can at 4 this point. 5 In the last two years, let's say from 6 the beginning of 2019, okay? I want to go through 7 all of your contacts with the EPA regarding 8 paraquat, okay? 9 A. Okay. 10 Q. And what was your first contact in 2019 11 in that two-year period? What was your first 12 contact regarding paraquat with the EPA? 13 A. My recollection is not going to be able 14 to break it down by what day or what it was, but the 15 topics we would have been speaking about would have 16 been the proposed interim or the -- I'm sorry. The 17 implementation of the human health mitigation 18 decision. We would have been talking about the 19 registration review. 20 We did have discussions with EPA around 21 the emetic, but I just -- it's hard for me to recall 22 every specific interaction, but I will say we've had 23 frequent interactions. 24 Q. All right. That -- that's what I was</p>

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1 going to ask. In the year 19- -- strike that.
 2 In the year 2019, approximately how
 3 many interactions did you have with the EPA, and I'm
 4 meaning to include anybody at the EPA in any role or
 5 capacity, regarding paraquat?
 6 A. I'm going to take my best guess and
 7 would say 10 to 15. That would be phone calls,
 8 meetings, potentially hallway interactions.
 9 Q. Okay. And likewise in 2020, okay? How
 10 many similar contacts did you have with the EPA?
 11 A. I would say, you know, with the COVID
 12 situation it's certainly been much more remote. I
 13 would say that number is, with respect to paraquat,
 14 maybe 10 to 12, primarily around label amendment for
 15 our new product, as well as working through the
 16 draft risk assessments and then the current proposed
 17 interim decision.
 18 Q. Now, let's make sure we get on the
 19 record a clarification of these topics. One was
 20 labeling for the new product, and that's the SL3,
 21 right?
 22 A. Correct, sir.
 23 Q. Okay. And we'll come back to that. So
 24 that's one of the topics that you would have been

1 paradigms.
 2 As a result of that, then there's a
 3 public comment period. That public comment period
 4 for paraquat closed in December of 2019. Syngenta
 5 made comments addressing questions and concerns we
 6 had during the draft risk assessments. That closed
 7 in 2019.
 8 Then what -- the next phase after EPA
 9 gets the response to the public comments, they take
 10 those into consideration. Then they issue what is
 11 called a proposed interim decision. And that takes
 12 into account the agency's response to the draft risk
 13 assessment.
 14 So in the case of this particular
 15 molecule, paraquat, the agency reached out to
 16 Syngenta and the other registrants, not just
 17 Syngenta. In approximately July and indicated, okay,
 18 in response to the draft risk assessments and your
 19 public comments, these are the label mitigations we
 20 are proposing going forward. That would be
 21 published in the proposed interim decision.
 22 The registrants had a teleconference
 23 with the EPA on that. I had a follow-up email or
 24 two with EPA on that on some topics. And then

1 discussing with, okay?
 2 A. Right.
 3 Q. And the other is the draft risk
 4 assessment, right?
 5 A. Correct.
 6 Q. And tell, for the ladies and gentlemen
 7 of the jury, what do you mean by the EPA's draft
 8 risk assessment?
 9 A. Yes, sir. So EPA every 15 years for
 10 all products does what's called registration review.
 11 And paraquat's registration review opened in 2011.
 12 And it's a multistage process that involves
 13 initially a docket opening, a DCI, a data call-in,
 14 if there are areas where the agency believes they
 15 need additional data.
 16 There's -- ultimately the agency will
 17 come out with draft ecological and human health risk
 18 assessments, and I believe in the case of
 19 paraquat -- and this is a standard process for all
 20 products. Prior to -- to issuing what they
 21 currently have, which is called a proposed interim
 22 decision, they will publish an ecological and a
 23 human health risk assessment where they take a look
 24 at the existing uses and run it through their risk

1 ultimately the proposed interim decision was
 2 published in October, and so we are currently in the
 3 public comment period for that.
 4 So those communications with the EPA,
 5 for example, this summer involved some of their
 6 proposals that they were going to include in the
 7 proposed interim decision.
 8 Q. So if we go back to 2019, tell me what
 9 those communications with the U.S. EPA would have
 10 involved regarding paraquat.
 11 A. There could have been multiple
 12 different topics, certainly label -- label
 13 modifications, because as part of the human health
 14 mitigation, there were label submissions
 15 requirements based upon EPA communications to modify
 16 some of the labels that we had out there.
 17 I'm trying to remember all of the
 18 potential conversations we could have had. In 2019,
 19 there was the discussion about emetic. We did meet
 20 with the EPA and discuss the emetic.
 21 Q. And this was after you were approached
 22 by Professor or Dr. Jon Heylings, right?
 23 A. That is correct, sir.
 24 Q. And then you went to the EPA?

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1 A. We did. I had a phone call. We also
2 met with the agency and discussed the situation
3 and –
4 Q. Okay. So let's – let's just start
5 there if we can. That was in May of 2019, right?
6 A. I believe that's when our meeting was,
7 yes, sir.
8 Q. And who went with you to that meeting?
9 A. My recollection is it was John Abbott.
10 Q. What was his role in the company?
11 A. John is -- at the time I believe he was
12 my immediate supervisor. He's now been promoted a
13 role up, and there's another person in between. I
14 don't believe John was in that role yet, so he was
15 either my immediate supervisor or on his way to his
16 next role which is to lead the group.
17 Q. And when you say "lead the group," lead
18 the group worldwide?
19 A. John has responsibility for the U.S.
20 and Canada for regulatory and stewardship.
21 Q. Okay.
22 A. And then my immediate supervisor now
23 who replaced John in that role is Charles Pierson.
24 Q. And –

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1 A. And he heads the regulatory teams for
2 North America.
3 Q. And what was your reason --
4 you're -- strike that.
5 You're the one at Syngenta that
6 initiated the contact with the EPA about the emetics
7 issue that Dr. Heylings had raised, correct?
8 A. Yes.
9 Q. And you reached out to Marianne Mannix,
10 right?
11 A. Marianne would have been my primary
12 contact.
13 Q. So she's the one you would have reached
14 out to?
15 A. Yes, sir.
16 Q. And when you reached out to Marianne
17 Mannix, you told her you wanted to come in and have
18 a meeting with her and with other members of the EPA
19 to -- to counter or to at least explain Syngenta's
20 position regarding the claims being made by
21 Dr. Heylings, right?
22 A. Correct.
23 Q. And this was -- was this before
24 Dr. Heylings had ever approached the EPA?

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1 MR. WEIR: Object to foundation.
2 THE WITNESS: Mr. Tillery, I'm not sure
3 when Mr. Heylings would have first reached out to
4 EPA.
5 BY MR. TILLERY:
6 Q. Okay. So did you know at that time
7 that Jon Heylings had talked to the EPA or tried to
8 talk to them?
9 A. I believe we were aware of that.
10 Q. How did you become aware of that?
11 THE WITNESS: Tom, want to touch base
12 on the attorney-client privilege there? Is that --
13 BY MR. TILLERY:
14 Q. So if -- you found out about this
15 through legal channels presumably, right?
16 A. Correct.
17 Q. So you learned through legal channels
18 that -- and let me ask you this. I don't believe
19 this is attorney-client protected. Was this a
20 communication from lawyers at the EPA?
21 A. The lawyers I'm referring to are -- are
22 internal lawyers, sir.
23 Q. Okay. So you're talking about people
24 employed by Syngenta, correct?

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1 A. Correct, yes, sir.
2 Q. And presumably somehow they became
3 aware that Dr. Heylings had notified the EPA and
4 other regulatory bodies around the world, right?
5 MR. WEIR: Object to the foundation.
6 Mr. Dixon, you can answer to the extent
7 that it's not going to reveal any attorney-client
8 conversations.
9 THE WITNESS: Sure. My recollection,
10 Mr. Tillery, is that Dr. Heylings was in
11 communication with Syngenta colleagues in the UK,
12 and those communications then were relayed to us in
13 discussions with our local counsel.
14 And that's where we became aware of the
15 fact that Mr. Heylings had indicated that he
16 intended to reach out to EPA and that, you know, he
17 certainly expressed his, I guess -- or my
18 understanding from these communications, he
19 expressed his intention to make the regulatory
20 bodies aware of his concerns.
21 BY MR. TILLERY:
22 Q. And based upon that information, you
23 then reached out to a woman named Marianne Mannix
24 who had responsibility for paraquat in her role at

14 (Pages 303 to 306)

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1 the EPA, correct?

2 A. Yes, sir.

3 Q. And you set up a meeting where you and

4 others, including Mr. Abbott, could come and explain

5 your position or Syngenta's position with respect to

6 the issues being raised by Dr. Heylings, right?

7 A. Yes, sir.

8 Q. Did the people you spoke to at the EPA

9 acknowledge that they knew that Dr. Heylings had

10 made claims?

11 A. I don't recall specifically at the

12 meeting what they said. I did reach out to Marianne

13 subsequent, and as I'm thinking back on it, my

14 recollection of the conversation is that Marianne

15 said that Mr. Heylings had reached out to them and

16 that his concerns would be ultimately published into

17 the docket as – as a comment, public comments.

18 Q. Have they ever been published?

19 A. Not to my knowledge, sir.

20 Q. Have – do you keep a daily review of

21 that docket?

22 A. I would say not daily. I do as, you

23 know, part of just stewarding the molecule, check it

24 on occasion, and I have gone and looked through the

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1 docket probably as recently as two or three weeks

2 ago as we're working on these public comments for

3 the PID. To my knowledge, Mr. Heylings' statements

4 are not in the public docket yet.

5 Q. Right. And they've been – that's been

6 about a year and a half since he talked to them,

7 right?

8 MR. WEIR: Object to the foundation.

9 THE WITNESS: Yeah. I would say given

10 the time frame for our -- my communications which

11 would have been, you know, in the spring of 2019,

12 that would be about a year and a half ago, so that

13 probably is in the ballpark time frame.

14 BY MR. TILLERY:

15 Q. And what, to your knowledge, did

16 Dr. Heylings tell the EPA about the emetics issue?

17 MR. WEIR: Object to the foundation.

18 THE WITNESS: Yes, sir. I don't have

19 an understanding or knowledge of what he said,

20 certainly I don't recall any specifics. I know what

21 his comments to our internal folks were.

22 BY MR. TILLERY:

23 Q. What were those comments to your

24 internal folks by Dr. Heylings?

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1 A. That he did not believe the level of

2 emetic in the formulations was sufficiently high

3 enough.

4 Q. And when? At what level at what time?

5 A. I'm afraid -- Mr. Tillery, I'm not sure

6 of any specific level that he may have been

7 suggesting. I just -- it's my understanding that

8 his concerns were that the information underpinning

9 the ultimate determination to go with the level that

10 the company was using was inaccurate, not based upon

11 what he felt was correct information.

12 So my understanding is his position is

13 the emetic level should be higher and, if so, he

14 believed that would have a beneficial impact to

15 reduce fatalities.

16 Q. And what position --

17 MR. WEIR: Sorry, Steve, before you go

18 on.

19 Renee, I just wanted to get in that I

20 had a form objection to that last question. Thank

21 you.

22 BY MR. TILLERY:

23 Q. And what did you say in response to

24 those claims when you spoke to Marianne Mannix and

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1 her supervisor at the EPA in the spring of 2019?

2 A. We made the -- a position that we

3 believe the emetic levels that we had in the

4 formulation were adequate, were appropriate, and

5 that, you know, we had not only maintained the .5

6 but we also pointed out that our products had even

7 increased once we went to the Inteon and we had

8 maintained that same level and that same ratio.

9 I do recall in the meeting pointing out

10 to the agency that same ratio that we discussed a

11 little bit earlier, Mr. Tillery, and how we at

12 Syngenta were, even in our new product formulations,

13 striving to maintain that higher emetic ratio.

14 Q. Now, let's go back to your

15 conversations with the EPA in 2019 and 2020. You

16 mentioned that you discussed the draft risk

17 assessment.

18 Do you remember that?

19 A. Yes, sir.

20 Q. Did you see a copy of that before it

21 became public?

22 A. The EPA draft risk assessment?

23 Q. Yes, sir.

24 A. No, sir, I do not believe -- I believe

<p style="text-align: center;">Page 311</p> <p>1 all registrants received those at the same time. 2 They're published in a public docket. 3 Q. Did you receive any portion of the 4 draft risk assessment by the EPA before the entire 5 document was published? 6 A. Not that I recall, no, sir. 7 Q. Did you receive the proposed interim 8 decision before it was publicly published? 9 A. Not the proposed interim decision. We 10 did receive a communication of what their proposed 11 label mitigations were, but not the actual decision 12 itself. It would be highly unusual and I would be 13 really surprised, like I said. 14 To my recollection, the best -- I don't 15 think I've -- I'm pretty confident we've never 16 received, like, the draft risk assessments ahead of 17 time for any of the molecules that I've worked on. 18 At least I cannot recall that ever being the case. 19 Q. When you spoke to the EPA 20 representatives about the draft risk assessment, did 21 you talk to them in any detail about what they were 22 going to put in the public domain before it was 23 published? 24 A. No, sir.</p>	<p style="text-align: center;">Page 313</p> <p>1 And our role in that discussion is to 2 try to help the EPA understand what implications 3 they may have by making those restrictions. So 4 there is a deliberative process there, but as far as 5 the agency, the agency publishes what it believes is 6 the right determination based upon their 7 evaluations. 8 So the registrants, we may be asked 9 questions, we may provide clarifying information, 10 but the agency publishes what they're going to 11 publish. 12 Q. But would you agree with me that it's a 13 process where the agency reaches out and gets input 14 from you before they reach a final decision? 15 A. That is accurate, yes, sir. 16 Q. And they might ask, for example, about 17 information about personal protective equipment, 18 right? 19 A. Correct. 20 Q. And they've done that in the past, 21 haven't they? 22 A. With respect to personal protective 23 equipment, yes. For example, I could think of a 24 situation where, not for this particular molecule</p>
<p style="text-align: center;">Page 312</p> <p>1 Q. Likewise, with the proposed interim 2 decisions, when you had conversations with them, did 3 you speak to them about what was going to be within 4 the content of their proposed interim decision? 5 A. We spoke to them, for example, within 6 the content of the proposed interim decision about 7 potential concerns that we have on the impact. For 8 example, with a proposed interim decision, one of 9 the EPA proposals is to eliminate handheld equipment 10 or backpack equipment. And so, as I mentioned, we 11 had a conference call with the agency and the other 12 registrants in July. 13 I followed up with a call with -- with 14 Ana Pinto who has subsequently taken over for 15 Marianne, but also Marianne. We followed up to try 16 to provide clarity on what the implications that 17 would have, for example, on research organizations. 18 So those are the type of discussions you might have. 19 The agency was -- the reason for their 20 scheduling the call with us, for example, was we're 21 proposing, for example, to limit applications -- 22 aerial applications to one crop only, one use only. 23 Can you guys live with that? What do you think that 24 will mean?</p>	<p style="text-align: center;">Page 314</p> <p>1 but in a related situation, trying to mitigate 2 through a risk assessment concepts of can you 3 mitigate the risk by adding additional pieces of 4 personal protective equipment are factored into the 5 agency's decision. 6 So they may talk to a registrant and 7 say, "We're thinking about requiring coveralls, you 8 know. What's the potential implication of that?" 9 So there is that type of dialogue. 10 Q. And when they say "What's the potential 11 implication," they mean for you to comment on what 12 that could mean to the sales of a product, right? 13 A. No, sir. Not necessarily the sales. 14 It's more important, for example, if you think about 15 a user may be in a very hot, humid area. Let's 16 talk, for example, aquatic applicators in Florida 17 requiring a coveralls and maybe a very restrictive 18 full-face respirator, for example. You could run 19 into situations where you could create heat stroke 20 or heat concern. 21 So it's understanding what the 22 implications of the changes might mean on the actual 23 user. So if you were, for example, to propose to 24 eliminate aerial applications, you could create a</p>

<p style="text-align: right;">Page 315</p> <p>1 situation where a grower who relies on a product but 2 has to make aerial applications perhaps because the 3 ground is often too wet, they no longer would have 4 access to that product. So it's a multifaceted 5 consideration. 6 Q. And is this an ongoing dialogue that 7 takes place as sort of an iterative process before 8 they come out with their proposed interim decisions? 9 MR. WEIR: Object to the form. Thank 10 you. 11 THE WITNESS: It can be an iterative 12 process, Mr. Tillery. Often when the EPA is 13 reaching out, they're trying to more fully 14 understand the circumstances. And so as you provide 15 information, there's certainly a possibility that 16 you provide information and they might circle back 17 for additional information, so it could be an 18 iterative process. 19 BY MR. TILLERY: 20 Q. Okay. I want to ask you some questions 21 and see if you agree with these comments, okay? And 22 if you don't, I want to know why. 23 Could you tell me if you agree with 24 this statement: Neither the OPP – you know what</p>	<p style="text-align: right;">Page 317</p> <p>1 agency may not know about the omission until an 2 adverse event occurs. 3 MR. WEIR: Object to the form. 4 Foundation. 5 THE WITNESS: So just to make sure I'm 6 understanding exactly your question, Mr. Tillery. 7 You're saying that the agency would only act on 8 information provided by the registrant, and if the 9 registrant did not provide information, then the 10 agency would not act upon it unless they received 11 the information from a 6(a)2 type submission? Am I 12 framing that correctly or no, sir? 13 BY MR. TILLERY: 14 Q. No, that's not the question. 15 A. I'm sorry. 16 Q. Yeah. In -- in this question I'm 17 really saying something else, and let me start over. 18 The EPA agency staff, or preceding them 19 the USDA agency staff, is really limited to 20 reviewing only the information that the applicant 21 for registration of a pesticide provides under a set 22 of published data requirements and guidelines, as 23 well as data that may be voluntarily submitted to 24 them. If information is withheld by the applicant</p>
<p style="text-align: right;">Page 316</p> <p>1 that stands for, right? 2 A. Office of Pesticide Programs. 3 Q. That's right. Office of Pesticide 4 Programs. And I'll start over. 5 Neither the OPP nor any other 6 governmental agency conducts any testing of products 7 in conjunction with obtaining a pesticide 8 registration. That burden lies exclusively with the 9 company who is the registrant to provide data and 10 present an argument for registration. 11 MR. WEIR: Object to the form. 12 THE WITNESS: I agree that it's the 13 registrants that provide the data. I don't believe 14 OPP -- I believe EPA does have laboratories and may 15 do some testing. That, I'm not 100 percent sure on. 16 But when it comes to registration of a product, it 17 is the registrants that provide the data. 18 BY MR. TILLERY: 19 Q. Do you agree with this statement: 20 Agency staff is limited to reviewing only the 21 information that the applicant provides under a set 22 of published data requirements and guidelines as 23 well as voluntarily submitted. If information is 24 withheld or not disclosed by the applicant, the</p>	<p style="text-align: right;">Page 318</p> <p>1 for registration, the agency will not know about 2 that omission until an adverse effect occurs. 3 MR. WEIR: Same objections. 4 THE WITNESS: So as I understand what 5 you're saying there, that seems to me to be correct 6 that the agency would not be able to act on 7 information they did not have or were not aware of. 8 BY MR. TILLERY: 9 Q. Yeah, that's what I'm saying to you. 10 And if, for example, if Syngenta and Chevron knew 11 that paraquat was neurotoxic in 1966 and did not 12 tell the USDA when they sought the registration of 13 paraquat in that year, there was no mechanism, 14 method, et cetera, by which the USDA could go out 15 and do its own analysis to determine whether it was 16 neurotoxic at that time, correct? 17 A. I'm not sure that that -- I would agree 18 fully with that. Only in that certainly EPA is 19 aware of literature. They do literature searches. 20 They -- they are very familiar with the science. In 21 the 1960s, I'm not sure how FDA would have done it 22 but I do also acknowledge that somebody cannot act 23 on information they don't have. So if they're not 24 aware, they cannot act upon something.</p>

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1 Q. So if the information wasn't in the
2 public domain where they found it, and if Chevron –
3 and at that time the Syngenta predecessor was ICI –
4 if ICI and Chevron didn't tell the USDA about it at
5 the time of registration, the USDA wouldn't have
6 information about the neurotoxicity of paraquat,
7 would they?
8 MR. WEIR: Object to the form.
9 THE WITNESS: I would agree that the
10 agency could not act on information they were not
11 aware of or did not have.
12 BY MR. TILLERY:
13 Q. To your knowledge from your review of
14 all this information, did Chevron ever inform the
15 USDA or the EPA while it was in the business of
16 selling Syngenta's paraquat formulation that
17 paraquat either was or might be neurotoxic?
18 A. I am not familiar with any
19 communications. I don't know that Chevron believed
20 or had reason to believe it was neurotoxic and, if
21 so, I'm not familiar with any communications they
22 may have had on that.
23 Q. Well, let's – I – well, let's move to
24 strike your answer as unresponsive.

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1 Let me read it again. To your
2 knowledge from your review of information in
3 preparation for this deposition, and in terms of
4 anything you know personally from your association
5 with Syngenta and predecessors, did Chevron ever
6 inform the USDA or the EPA that Syngenta's paraquat
7 formulation either was or might be neurotoxic?
8 A. I don't recall seeing any
9 communications that would say that the product --
10 that they communicated. My knowledge of the
11 neurotoxicity is based upon the studies that we've
12 done.
13 Q. Sir, I'm just trying to get you to
14 focus on my question.
15 A. Yes, sir. I understand. I'm just
16 trying to add my context, but I understand what
17 you're asking, sir. So as I recall the documents, I
18 went through a lot of documents. Nothing jumps out
19 to me as saying that there was a known neurotox
20 issue that Chevron communicated to EPA.
21 Q. And, likewise, with respect to
22 Syngenta, at that time called "ICI," did Syngenta at
23 any time ever inform either the USDA or the EPA that
24 paraquat either was or might be neurotoxic?

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1 MR. WEIR: Object to the form.
2 THE WITNESS: To the best of my
3 knowledge I do not – I'm not aware of any such
4 communication.
5 BY MR. TILLERY:
6 Q. Okay. Would you agree with the
7 statement that the Environmental Protection Agency
8 can only review the information that is submitted to
9 assess the consequences of allowing the application
10 or registration of the product. It is the
11 responsibility of the registrant to provide the
12 agency with pertinent data about the product which
13 only the company may possess.
14 MR. WEIR: Object to the form.
15 THE WITNESS: So my understanding of
16 the question is that EPA would analyze the data it
17 was provided by a registrant, and so if a registrant
18 did not provide information, the EPA would not have
19 it in their possession. They could not evaluate
20 something they did not have.
21 BY MR. TILLERY:
22 Q. Would you agree with that statement
23 then?
24 A. I would agree with that statement.

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1 Q. Yeah. Do you agree with this
2 statement: Traditionally, companies only provide
3 data that is required by the Environmental
4 Protection Agency to convince the scientific
5 reviewers that the product meets the criteria for
6 acceptance?
7 MR. WEIR: Object to the form.
8 Foundation. It's probably outside the scope as
9 well.
10 THE WITNESS: Mr. Tillery, would you
11 please reread your question?
12 MR. TILLERY: And I'll agree to a scope
13 and form – form – just so we're clear on the
14 record is -- it's interrupting the flow of our -- in
15 our transcript, and it's 211-02 deposition, and I
16 don't know if you -- and I don't mean to be
17 condescending, but the form objection doesn't apply
18 in Illinois.
19 So -- I mean, it's -- I can lead, I
20 can -- it's full cross-examination. So if there's a
21 specific problem with my question and I can obviate
22 it and you can help me, that's fine; but if it's
23 just done to disrupt the flow of a dep in these
24 circumstances, I object to the use of this objection

<p style="text-align: right;">Page 323</p> <p>1 tool for that purpose.</p> <p>2 MR. WEIR: To be clear, I was not</p> <p>3 objecting to interrupt your flow. My form objection</p> <p>4 to the last question was I believe your question was</p> <p>5 vague and ambiguous, and the foundation questions</p> <p>6 you were asking about other companies that Mr. Dixon</p> <p>7 does not work for, and is not here to represent.</p> <p>8 And I also believe it's outside the scope for that</p> <p>9 same reason.</p> <p>10 With my form objections, I am keeping</p> <p>11 them short in order to not interrupt your flow. If</p> <p>12 you'd like me to explain my form objections, I'm</p> <p>13 happy to do so moving forward.</p> <p>14 BY MR. TILLERY:</p> <p>15 Q. So, Doctor -- strike that.</p> <p>16 Mr. Dixon, do you agree with the</p> <p>17 statement: Traditionally, companies only provide</p> <p>18 data that is required by the Environmental</p> <p>19 Protection Agency to convince the scientific</p> <p>20 reviewers that the product meets the criteria for</p> <p>21 acceptance?</p> <p>22 MR. WEIR: Same objections, please.</p> <p>23 THE WITNESS: I'm trying to -- my</p> <p>24 experience would be, and what I think in your</p>	<p style="text-align: right;">Page 325</p> <p>1 meet all of the EPA requirements and that would</p> <p>2 strive to do everything in the public interest, yes.</p> <p>3 BY MR. TILLERY:</p> <p>4 Q. Well, if the EPA doesn't call, for</p> <p>5 example, for neurotoxicity testing but the product</p> <p>6 manufacturer determines scientifically that there</p> <p>7 may be some evidence of neurotoxicity, irrespective</p> <p>8 of whether the EPA calls for no toxicity testing,</p> <p>9 would you agree with me that a prudent and</p> <p>10 responsible manufacturer should go ahead and do the</p> <p>11 testing, neurotoxicity testing for the product</p> <p>12 before putting it on the market?</p> <p>13 MR. WEIR: Object to the form. It's</p> <p>14 vague and ambiguous. It's also an incomplete</p> <p>15 hypothetical.</p> <p>16 THE WITNESS: Okay. So if I'm</p> <p>17 following your scenario, Mr. Tillery, it would be</p> <p>18 that if a company has a reason to believe their</p> <p>19 product has a potential health concern do they have</p> <p>20 an obligation to further convince themselves it's</p> <p>21 not a real concern? Is that where your question is,</p> <p>22 sir?</p> <p>23 BY MR. TILLERY:</p> <p>24 Q. That's a very general summary of my</p>
<p style="text-align: right;">Page 324</p> <p>1 question you're saying "traditionally," companies</p> <p>2 would provide all of the required guideline studies</p> <p>3 to show that the product meets the FIFRA standard</p> <p>4 for registration. I would certainly agree that's</p> <p>5 what they would do. I think there are times when</p> <p>6 companies would provide additional information to</p> <p>7 the agency depending on the nature of the</p> <p>8 information.</p> <p>9 BY MR. TILLERY:</p> <p>10 Q. And you're talking about a 6(a)2</p> <p>11 situation, right?</p> <p>12 A. Well, not even just a 6(a)2. Sometimes</p> <p>13 a company might do an additional study, maybe it's a</p> <p>14 non-guideline study that would be able to provide</p> <p>15 the agency even more information to inform their</p> <p>16 decision.</p> <p>17 Q. Okay. Based upon the knowledge that</p> <p>18 only manufacturers may know about their own product,</p> <p>19 a pesticide registrant has an obligation and duty to</p> <p>20 protect the public even beyond its obligations to</p> <p>21 the EPA; would you agree?</p> <p>22 MR. WEIR: Object to the foundation.</p> <p>23 THE WITNESS: I believe an</p> <p>24 organization, Mr. Tillery, certainly would strive to</p>	<p style="text-align: right;">Page 326</p> <p>1 question, yes.</p> <p>2 A. So I would say a company should as good</p> <p>3 stewards if they had a reason to believe their</p> <p>4 product had a potential concern, do everything in</p> <p>5 its power to fully understand whether or not it's a</p> <p>6 legitimate or real concern.</p> <p>7 Q. Would you agree they have an</p> <p>8 obligation, irrespective of whether any agency,</p> <p>9 state or federal, mandates a specific test or not?</p> <p>10 MR. WEIR: Object to the form. It's</p> <p>11 vague and ambiguous.</p> <p>12 THE WITNESS: I think a good -- a good</p> <p>13 steward would do that. If they had a reason to</p> <p>14 believe there was an issue with their product, they</p> <p>15 would do the work to fully understand that issue.</p> <p>16 BY MR. TILLERY:</p> <p>17 Q. Okay.</p> <p>18 MR. WEIR: Steve, I don't want to</p> <p>19 interrupt your flow. We've been going for about an</p> <p>20 hour and a half. Whenever you get to a --</p> <p>21 MR. TILLERY: That's fine. We can take</p> <p>22 a ten-minute break.</p> <p>23 MR. WEIR: And we may need a little</p> <p>24 more time if you want Mr. Dixon to look at those</p>

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1 CSFs.
2 MR. TILLERY: We'll be here and we'll
3 come back at 10:00 just to check on In, and you can
4 let us know if you're ready to confirm those
5 documents -- the documents about which he testified
6 to.
7 THE WITNESS: Mr. Tillery and Tom and
8 everybody on the call, so I will not necessarily
9 have CSFs from the '80s. What I can do is try to
10 look in my records of what we know, but I would have
11 not have other companies' CSFs. I only have our
12 Internal CSFs.
13 BY MR. TILLERY:
14 Q. Well, please take a look at those and
15 see what you can confirm.
16 A. Yes, Mr. Tillery.
17 MR. TILLERY: We can go off the record.
18 THE VIDEOGRAPHER: We're going off the
19 record. The time is 9:32. This ends Media Unit
20 Number 1.
21 (Recess taken.)
22 THE VIDEOGRAPHER: We're going back on
23 the record. The time is 9:53. This begins Media
24 Unit Number 2.

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1 BY MR. TILLERY:
2 Q. When we went off the record and you
3 were looking, I think, at your private documents at
4 your home to confirm your answers regarding the
5 percentage of emetic that had been placed into
6 paraquat products prior to 2005. Did you find any
7 answers to those questions or confirm --
8 A. Mr. Tillery, I was able to look at four
9 CSFs. I was able to find -- the earliest one that I
10 found going through my records was one from 1989.
11 So there certainly may be CSFs before that. I did
12 not come across any before that. The 1989 CSF I
13 looked at, I did confirm had the .5 grams per liter
14 emetic.
15 I also looked at CSFs from 1999, as
16 well as early 2000, and they -- they had that .5
17 gram per liter. The earliest I could get to was
18 1989, which had that .5-gram-per-liter
19 concentration.
20 Q. Thank you very much, sir.
21 Would you agree that except for
22 required formatting and specific precautionary words
23 set out by regulation, the applicant for
24 registration and the applicant for a particular

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1 pesticide product is responsible for submitting use
2 directions, precautions, and warnings because the
3 company should know the consequences of using its
4 product.
5 MR. WEIR: Objection. Form. Vague and
6 ambiguous.
7 THE WITNESS: When we submit for a
8 product registration, we submit a label that
9 includes precautionary statements as well as use
10 directions.
11 BY MR. TILLERY:
12 Q. And warnings and proposed warnings?
13 A. Yes, sir.
14 Q. So I take that to mean you agree with
15 the statement?
16 A. Yes, sir. Your feed broke up a little
17 bit.
18 Q. Well, let me start over and make sure
19 you understand or hear it. If you don't, let me
20 know, please.
21 A. And I may be having a poor Internet
22 connection. I'm just having a lot of freezing here
23 right now. I don't know if anyone else is seeing
24 Mr. Tillery freeze, but I'm -- so it might be my

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1 connection. I'm sorry, sir.
2 Q. Okay. Let's start over then, okay?
3 Would you agree that except for
4 required formatting and specific precautionary words
5 required by the regulation, okay, the applicant for
6 a pesticide registration is responsible for
7 submitting use directions, precautions, and warnings
8 to the agency?
9 A. I agree with that. They are with
10 respect to the precautions and you caveated it.
11 There are specific precautionary statements that
12 must be included as well as specific warnings, and
13 then in many cases -- or I won't say "many cases."
14 In other cases registrants will select to go even
15 beyond what may be required specifically in a
16 statute if they felt it was appropriate.
17 Q. For example, if Chevron or ICI wanted
18 to put that the product was potentially neurotoxic,
19 they could put that on that warning, couldn't they?
20 MR. WEIR: Object to the form and the
21 foundation.
22 THE WITNESS: I would assume. I don't
23 know if EPA would actually accept a statement like
24 that. A registrant could certainly propose any

1 language they wanted to have included as a proposal
 2 to the EPA, and then ultimately the EPA has the
 3 final determination on what's allowed on the label
 4 or what's not allowed on the label.
 5 BY MR. TILLERY:
 6 Q. You're not suggesting, though, that
 7 you've ever seen the EPA reject a recommendation to
 8 warn against neurotoxicity in any chemical you've
 9 ever seen reviewed by the EPA for warnings, right?
 10 MR. WEIR: Object to the form. Vague
 11 and ambiguous.
 12 THE WITNESS: I --
 13 BY MR. TILLERY:
 14 Q. And it's -- you're overriding his
 15 answer every time.
 16 Can you -- do you remember the
 17 question? I mean, if we're going to --
 18 A. Yes, sir.
 19 Q. All right. What's your answer, please?
 20 A. I don't recall or I'm not aware of ever
 21 seeing EPA reject a statement such as that.
 22 Q. So assuming that they would accept the
 23 recommendation by the people who actually have the
 24 manufacturing obligation and sales obligation for

1 the product, assuming they would recommend it, if
 2 ICI or Chevron had wanted to put that the use of
 3 this product could increase your odds of getting
 4 Parkinson's disease, they could have put that on the
 5 label had they wanted to, couldn't they?
 6 MR. WEIR: Objection. I object to the
 7 form. It's vague and ambiguous. It's an incomplete
 8 hypothetical.
 9 THE WITNESS: I believe a registrant
 10 could request any language they deemed relevant if
 11 they felt that they wanted to do that to the EPA.
 12 Yes, I think they could do that.
 13 BY MR. TILLERY:
 14 Q. Would you agree that the Office of
 15 Pesticide Programs does not conduct any testing or
 16 suggest label change except as required under its
 17 mandate. Okay? Do you understand my question?
 18 A. Yes, sir. I would agree with that. I
 19 was just trying to pause in case there was a second
 20 there for Tom to get in. I'm trying not to
 21 immediately overspeak. I apologize.
 22 Q. You agree with the statement?
 23 A. I do.
 24 Q. Do you agree that the EPA relies on the

1 representations of a company like Chevron or ICI for
 2 the proposed use directions, precautions, and
 3 warnings and product information on the label?
 4 A. I would agree with that.
 5 Q. You also agree that unless brought to
 6 their attention by the applicant of a pesticide
 7 registration or by chance of institutional knowledge
 8 of the product or public domain science, the Office
 9 of Pesticide Programs would not know if there could
 10 be any problems with applying the product under all
 11 possible scenarios?
 12 MR. WEIR: Objection. I object to the
 13 form. It's vague and ambiguous. It's compound.
 14 Object to the foundation as well.
 15 THE WITNESS: I would agree that the
 16 regulators could not take action on knowledge they
 17 did not have.
 18 BY MR. TILLERY:
 19 Q. And if it wasn't supplied to them by
 20 the registrant, they wouldn't know that, would they?
 21 MR. WEIR: Same objections.
 22 THE WITNESS: Given the caveats that
 23 you put into the initial question about there not
 24 being internal knowledge or in a public form, if

1 they have no way of knowing, then they would not
 2 know and could not act on information they did not
 3 know.
 4 BY MR. TILLERY:
 5 Q. Right. Are you aware of the fact that
 6 it is considered to be misbranding under FIFRA and
 7 that the EPA has consistently and adamantly stated
 8 on many occasions that companies cannot state in
 9 their advertising that a product is EPA approved or
 10 safe?
 11 A. I can't say that I have a perfect
 12 knowledge of that. I think the statement you said I
 13 would agree generally makes sense to me. I don't
 14 believe EPA actually endorses a particular product
 15 or a particular use. They just register it.
 16 Q. Right. Now, do you know who Dr. Dino
 17 Di Monte is?
 18 A. Yes, sir.
 19 Q. Who is he?
 20 A. He is a neuroscientist. I'm not sure
 21 if he's with the Parkinson's Institute, but I know
 22 he is a scientist that's done work in that area.
 23 Q. And you say "that area," you mean in
 24 the area of the cause for Parkinson's disease?

1 A. Research into Parkinson's disease and
 2 etiology of it is my understanding. He's an expert
 3 in this area.
 4 Q. You knew he was a consultant for
 5 Syngenta at one point?
 6 A. I may have been aware of that. I
 7 certainly have seen his name and know he has been
 8 very active in that area of research. I'm not sure
 9 if I had a definitive recollection that he was a
 10 consultant, but certainly have seen his name and I
 11 certainly know our scientists have had some
 12 interactions with him. I think at technical
 13 meetings potentially.
 14 Q. And you understand that your scientists
 15 at Syngenta have a great deal of respect for his
 16 research and conclusions too, correct?
 17 MR. WEIR: Objection. Object to the
 18 foundation. And, Steve, can I get a standing
 19 objection on scope to questions about Dr. Di Monte?
 20 MR. TILLERY: Yes.
 21 MR. WEIR: Thank you.
 22 THE WITNESS: My understanding is that
 23 he was somebody that they had mentioned in
 24 reference, so I would say that he is a highly

1 qualified scientist.
 2 BY MR. TILLERY:
 3 Q. He's currently a researcher at the
 4 German Center for Neurodegenerative Diseases. Did
 5 you know that?
 6 A. I may have been aware of that. I would
 7 not have been spontaneously able to recite that to
 8 you, but that seems like it would make sense he
 9 could be in a position like that.
 10 Q. And he's a group – he is a group
 11 leader in neurodegeneration and neurodetection in
 12 Parkinson's disease. Does that make sense as well?
 13 Whether or not –
 14 A. Yes, sir.
 15 Q. But that's consistent with what you
 16 know about him, right?
 17 A. That would be consistent with my
 18 understanding of his abilities.
 19 Q. And before that I think, as you said,
 20 he was a researcher at the Parkinson's Institute in
 21 California, right?
 22 A. I believe that's correct, yes, sir.
 23 Q. There he was the director of
 24 fundamental research for that institute, right?

1 A. I will yield that if that's his
 2 position. I have no reason to doubt that. I know
 3 he was there.
 4 Q. And in a general sense, you understood
 5 that he had run research programs in paraquat in the
 6 Charles River black mouse at both the Parkinson's
 7 Institute and at the German Center for
 8 Neurodegenerative Diseases, right?
 9 A. I would not be surprised if that's the
 10 case. I know he's done research in that area. I
 11 can't cite the specifics, but that would certainly
 12 seem plausible with my understanding of his
 13 expertise.
 14 Q. And the published studies that he's
 15 done indicate that his work at the Parkinson's
 16 Institute involved finding that paraquat caused loss
 17 of dopaminergic neurons in the substantia nigra pars
 18 compacta of the Charles River black mouse, right?
 19 MR. WEIR: Object to the form.
 20 Foundation.
 21 THE WITNESS: My response to that would
 22 be I'm not a tox expert. My understanding – so I'm
 23 not the best person and most knowledgeable of all
 24 the research publications, but if you indicate he

1 has done that work, then I would certainly accept
 2 that's the case.
 3 BY MR. TILLERY:
 4 Q. All right. Okay. And I'd also
 5 represent to you from his published literature, his
 6 published scientific literature that's been
 7 discussed at great length with Dr. Botham, that his
 8 group at the Parkinson's Institute also found loss
 9 of striatal dopamine in paraquat-treated mice, okay?
 10 A. Okay.
 11 Q. You don't have any reason to dispute or
 12 doubt that statement, right?
 13 A. No, sir. No reason to dispute or deny
 14 it.
 15 Q. I believe that he became a consultant
 16 with Syngenta around 2009. Does that sound about
 17 right in terms of your recollection of what you've
 18 heard?
 19 A. I would think so, yes, sir.
 20 Q. Okay. Now, I think he was at one point
 21 an external member of the Extended Paraquat Health
 22 Science Team. Were you aware of that personally?
 23 A. I can't say that I specifically recall
 24 that, but I would know the Health Science Team did

<p style="text-align: right;">Page 339</p> <p>1 have external contacts and he would be a logical 2 person, so I think that's -- I accept that. 3 Q. Okay. So let's pull up number 14 just 4 to refresh you and confirm for you that what you're 5 talking about is consistent with the documents, 6 okay? So if you can look at your eDepoze now and 7 look at Plaintiffs' Deposition Exhibit Number 14. 8 This is a document produced by Syngenta. The first 9 Bates page is Syngenta-PQ-01116217. If you'd take a 10 look at that. 11 (Exhibit 14 was marked for 12 identification.) 13 THE WITNESS: Yes, sir, it's opening 14 up. 6217? 15 BY MR. TILLERY: 16 Q. That's the Bates number on the 17 document. It's five pages long. 18 A. Okay. 19 Q. And the only purpose for showing you 20 this is to confirm for you that these minutes of a 21 meeting reflect external members of the Paraquat 22 Health Science Team to include Dr. Dino Di Monte. 23 And if you could look at the document first. 24 A. Yes, sir.</p>	<p style="text-align: right;">Page 341</p> <p>1 (Discussion off the record.) 2 THE VIDEOGRAPHER: We're going back on 3 the record. The time is 10:22. This begins Media 4 Unit Number 3. 5 BY MR. TILLERY: 6 Q. If you would look at that document, 7 sir, which has been marked as Deposition Exhibit 8 Number 14. 9 A. Okay, sir. 10 Q. Tell me when you've familiarized 11 yourself with it a little bit. 12 A. Okay. Okay. I think I'm good. 13 Q. Okay. And the title of this document 14 is "Paraquat Health Science Team Action Minutes for 15 Marlow Meeting 5th, 6th, 7th October 2009," right? 16 A. Yes, sir. 17 Q. "The Compleat Angler, Marlow, UK." 18 A. Correct. 19 Q. Presumably that is some hotel or lodge, 20 correct? 21 A. That would seem correct, yes, sir. 22 Q. All right. And listed there under the 23 Health Science Team are many of the scientists that 24 we've talked about. That would be Lewis Smith,</p>
<p style="text-align: right;">Page 340</p> <p>1 Q. And just take your time -- 2 A. It's currently opening. I'm -- it's 3 not opening very quick -- yeah. I don't know. I 4 don't know if I'm having an issue here. It's just 5 still spinning and saying "Opening." Maybe if I 6 shut the eDepoze and then reopen it, it might help. 7 I'm not sure. 8 Q. All right. 9 A. Let me try that. I apologize to 10 everyone here. Okay. When I click on the exhibit 11 it's spinning. 12 Q. It could be the bandwidth of your 13 system at home. 14 A. Yeah, I'm afraid that might be giving 15 us a headache. I hope not. I'm going to -- my 16 eDepoze just shut down, so I need to go back to 17 that, or if it's -- 18 MR. WEIR: If you can look in the chat 19 there. 20 MR. TILLERY: We can go off the record 21 for a moment and let him reconnect his system. 22 THE VIDEOGRAPHER: We're going off the 23 record. The time is 10:11. This ends Media Unit 24 Number 2.</p>	<p style="text-align: right;">Page 342</p> <p>1 Charles Breckenridge, Philip Botham, Nick Sturgess, 2 Kim Travis, Andy Cook, Janis McFarland, D. Berry, 3 and is it Kersten Mewes? 4 A. Yes, sir. 5 Q. Kersten Mewes, right? 6 A. Yes, sir. 7 Q. These were all at that time members of 8 the Syngenta Company's employees? 9 A. That's correct. 10 Q. And then there's an Extended Health 11 Science Team, and that's Health Science Team plus, 12 and it says the people from external included 13 C.L. Berry, a person named P.L. Nicotera, right? 14 A. Correct. 15 Q. J. Tomenson? 16 A. Correct. 17 Q. And then Dino Di Monte. Do you see 18 that? 19 A. Yes, sir. 20 Q. All right. And then if you skip down 21 just a little bit you'll see a section under "MDA In 22 vivo Study Reviews." Do you see that? 23 A. I do. 24 Q. And they're talking about the MPTP and</p>

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1 paraquat for dose/magnitude of effects.
 2 Neurochemistry. Do you see that?
 3 A. I do.
 4 Q. "There are reports in the literature of
 5 decreases in dopamine activity with paraquat
 6 administration, although the large decreases are
 7 associated with Maneb and paraquat exposure. In our
 8 studies, we found consistent increases in" – and
 9 what does that "DA" stand for?
 10 A. I believe dopamine activity, sir.
 11 Q. Dopamine activity, okay.
 12 MR. WEIR: I just want to get an
 13 objection for the words that you skipped as you were
 14 reading that, Steve.
 15 MR. TILLERY: And I'm happy to include
 16 more if you want me to. I'm trying to speed along.
 17 MR. WEIR: I know you skipped a
 18 parenthetical that I think is important, and I just
 19 wanted to make sure.
 20 BY MR. TILLERY:
 21 Q. All right. Let's go back and include
 22 that. There's a parenthetical that he references
 23 here, "though slight," he said. "In our studies, we
 24 found consistent (though slight) increases in

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1 dopamine activity." Is that what it says?
 2 A. Yes, that's what it says, yes, sir.
 3 Q. And then the next paragraph it says,
 4 "Stereology: The Quantification Unbiased Image
 5 Digital method show a 10 to 20 percent difference to
 6 stereology counts," doesn't it?
 7 A. Yes, sir.
 8 Q. Okay. Now, do you know what these
 9 meetings were for?
 10 A. My understanding would be that this was
 11 part of the paraquat research program that Syngenta
 12 had embarked on to try to fully understand the
 13 information around paraquat and the -- and the IP
 14 models and the black mouse studies.
 15 MR. WEIR: Can I get another continuing
 16 objection on scope with respect to questions about
 17 the research program or the Health Science Team?
 18 MR. TILLERY: Yes. And just for the
 19 record for the court's purposes, this is a
 20 preliminary background for this witness necessary
 21 because he is not listed in some of these documents
 22 as a member of the meetings or a participant or
 23 copied on emails as a predicate to asking him some
 24 PRF questions and regulatory questions that are

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1 premised upon this information. But in short, yes,
 2 I agree to your continuing -- to a continuing
 3 objection.
 4 MR. WEIR: Thanks. Understood.
 5 BY MR. TILLERY:
 6 Q. If you'd look on page 4 of the
 7 document, you'll see the circulation list, right?
 8 A. Are we talking Bates 6220, sir?
 9 Q. Yes, sir.
 10 A. Yes, sir, I see that list, yes, sir.
 11 Q. Those are all the people who would have
 12 received this document as circulated and as it was
 13 written after the meeting, right?
 14 A. Yes, sir.
 15 Q. And the minutes were prepared and
 16 issued by Mr. Berry. If you'd go to the very next
 17 page. Do you see at the top?
 18 A. I see that, yes.
 19 Q. Okay. Now, let's go to Exhibit 15.
 20 (Exhibit 15 was identified for
 21 the record.)
 22 BY MR. TILLERY:
 23 Q. And the only reason that I raise this
 24 for you is for one point. And after you get the

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1 document, take a look at it.
 2 A. Okay. I have it here, sir.
 3 Q. All right. If you would go to page 5
 4 of that document. Before we do that, let's identify
 5 this document. This is Syngenta-PQ-00486991, and
 6 it's an update on Syngenta's research program,
 7 right?
 8 A. That is correct, sir.
 9 Q. And it says -- on the front page, it
 10 looks like a PowerPoint presentation, doesn't it?
 11 A. It does. It looks like it was intended
 12 or presented in Brazil.
 13 Q. Right. On the 13th of February 2012,
 14 right?
 15 A. Correct.
 16 Q. And the people who were participating
 17 included Kersten Mewes, Nick Sturgess, Charles
 18 Breckenridge, Rose Rodrigues, Ligia Quiroga, right?
 19 A. Correct.
 20 Q. All right. And in this document if
 21 you'd go to page 5, there's a reference?
 22 A. Okay. I'm looking at page 5. Okay.
 23 I'm ready for your question, sir.
 24 Q. All right. And do you see in the

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1 second paragraph under the primary bullet, the title
2 of this is "Understanding of mechanisms of
3 nigrostriatal degeneration."
4 A. Sir, I might be on the wrong page. I'm
5 on page 5 of the PowerPoints. Is this Bates 6991?
6 Q. Yes, it is.
7 A. Okay. All right. And "Use of
8 non-human primates" is what I have as the second
9 bullet point.
10 Q. Yes, "Use of non-human primates (NHP),"
11 and they reference marmosets and macaques "can
12 include behavioral studies and considered more
13 relevant to study Parkinson's disease in humans."
14 Do you see that?
15 A. I do.
16 Q. Were you also aware of that fact?
17 A. Not being a toxicologist, I don't know
18 specifically but it would seem to me the use of
19 non-human primates would be much -- would be -- I
20 guess I could agree with that statement just on the
21 concept of non-human primates and humans.
22 Q. And you're basing that on the genetic
23 similarity that we have to other non- -- other
24 primates, correct?

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1 A. Just layman's understanding but, yes,
2 sir.
3 Q. All right. Now, let's go to number 16.
4 (Exhibit 16 was identified for
5 the record.)
6 THE WITNESS: I have it up. I need to
7 make it quite a bit bigger, though, so give me just
8 a moment, please. Okay, sir.
9 BY MR. TILLERY:
10 Q. And this is a document which is Bates
11 numbered Syngenta-PQ-01117480 is the beginning page,
12 and it's entitled "Paraquat Health Science Team
13 Action Minutes from Marlow Meeting 20 and 21 April
14 2009. The Compleat Angler, Marlow, UK," right?
15 A. Correct.
16 Q. All right. Now, if you go down and
17 look at the attendees and just confirm that on the
18 Extended Health Science Team, Dr. Dino Di Monte is
19 included. Do you see that?
20 A. I confirm that, yes, sir.
21 Q. At this presentation there's a
22 reference to Professor Joan Abbott, right?
23 A. John Abbott.
24 Q. Joan Abbott actually.

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1 A. Oh, okay.
2 Q. Do you see under the Monday, April 20th
3 on the first page?
4 A. Yes, sir.
5 Q. There's an agenda item.
6 A. Okay. Monday, April 20th. I'm sorry.
7 I'm maybe not --
8 Q. On the very front page of the document.
9 A. Yes.
10 Q. It's on the left-hand column or
11 left-hand side.
12 A. Left-hand column. Oh, I see that. I'm
13 sorry, sir.
14 Q. So it says, "Professor Joan Abbott" and
15 she made a presentation on the blood-brain barrier,
16 right?
17 A. Correct.
18 Q. She's a Professor of Neuroscience,
19 Blood-Brain Barrier Group, Pharmaceutical Science
20 Research Division, School of Biomedical and Health
21 Sciences, King's College, London, right?
22 A. Yes.
23 Q. All right. So these are a set of
24 minutes from that same Health Science Team at a

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1 different date, April 20th, 21st, 2009, right?
2 A. Yes, sir.
3 Q. Okay. Now, if you look at the last
4 column here -- hold on. In the fourth row. Where
5 it says in the third one down -- oh, okay. I'm
6 having the same trouble you're having being able to
7 read this study. Okay. I've enlarged that, and if
8 you go under "Slides not available." Do you see
9 that section? "Comments from Professor Di Monte"?
10 A. Okay. Let me find that. What page is
11 that?
12 Q. It's on the front page and it's in the
13 lower right-hand corner of the document.
14 A. Okay. "Slides not available."
15 Q. That's the one. It's the heading. It
16 says "Slides not available."
17 A. I see that, yes, sir.
18 Q. Okay. So Dr. Di Monte gave a
19 presentation of the results from his studies with
20 paraquat in squirrel monkeys. If you could look at
21 that and confirm. It's the second bullet.
22 A. I see that, yes, sir.
23 Q. Okay. And Dr. Di Monte treated four
24 squirrel monkeys with paraquat, right?

25 (Pages 347 to 350)

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1 A. The "n" is four, yes.
2 Q. He gave monkeys paraquat at 5
3 milligrams per kilogram of their body weight, right?
4 A. Let's see here. I'm just trying to
5 read the bullets to catch them all. It does look
6 like --
7 Q. If you want to take a minute and read
8 this to familiarize yourself with it.
9 A. Yes, if I could, please, sir.
10 Q. Absolutely.
11 A. Okay, sir, if you could please go back.
12 Q. Sure. So my question that was before
13 you was he gave monkeys paraquat at -- initially at
14 5 milligrams per kilogram of their body weight.
15 A. That is correct. It looks like that
16 was one of the dosing regimens.
17 Q. But at the 5 milligrams dose, monkeys
18 died due to lung toxicity after the second and third
19 doses?
20 A. I see that, yes, sir.
21 Q. All right. Lab mice and rats have
22 tolerated doses greater than 5 milligrams per
23 kilogram. Were you aware of that?
24 A. Yes, sir.

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1 Q. Okay. In Syngenta's studies, lab mice
2 have tolerated up to 25 milligrams per kilogram of
3 their body weight, right?
4 A. That's my recollection.
5 Q. Whereas, 5 milligrams here was enough
6 to kill the monkey, right?
7 A. That's what's in the statement, yes,
8 sir.
9 Q. Okay. So that tells you that the
10 squirrel monkeys died at one-fifth of the dose that
11 was given to lab mice which tolerated the dose,
12 right?
13 A. That certainly seems to be the case.
14 Q. Okay. So Dr. Di Monte's squirrel
15 monkeys were much more sensitive to paraquat's
16 toxicity than rodents, correct?
17 MR. WEIR: Objection to the form. It's
18 vague and ambiguous.
19 BY MR. TILLERY:
20 Q. Go ahead, sir.
21 A. Based upon those dosing regimens and
22 the survivability, that seems to be the case.
23 Q. And squirrel monkeys are primates just
24 like humans, right?

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1 A. Yes.
2 Q. Dr. Di Monte reported that primates are
3 more sensitive to the systemic toxic effects of
4 paraquat, didn't he?
5 MR. WEIR: Objection to the form.
6 THE WITNESS: I'm not seeing that as a
7 specific statement but --
8 BY MR. TILLERY:
9 Q. It's an inference from what he
10 presented to them.
11 A. It certainly seems that the squirrel
12 monkeys were much more susceptible to the lung
13 toxicity at those lower dose rates.
14 Q. So Dr. Di Monte lowered the dose to
15 2.5 milligrams per kilogram body weight to keep the
16 monkeys from dying, correct?
17 A. Yes, sir.
18 Q. And the animals received six weekly
19 doses of paraquat at the new dose of 2.5 milligrams
20 per kilogram and they were then sacrificed for
21 analysis, correct?
22 A. Yes, that appears to be the case.
23 Q. Okay. And there's a note on that, if
24 you look at that, he says, "No difference in number

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1 of dopaminergic neurons," right?
2 A. Okay. Let's see here. No clinical --
3 yes, I see that.
4 Q. Okay. But the alpha-synuclein was
5 upregulated in paraquat-treated animals, right?
6 A. That's what's stated, yes.
7 Q. And do you understand that
8 alpha-synuclein plays a very significant role in
9 Parkinson's disease in humans?
10 A. I cannot say that I have an expert
11 knowledge of that. I've seen the term, but
12 certainly could not speak definitively to the role
13 of that particular molecule.
14 Q. Okay. Let's go to Exhibit 17 now.
15 A. Just as a technical question on the
16 eDepoze here, is it possible to make the screen any
17 larger than what it is?
18 Q. Up in the upper left-hand corner
19 there's a plus and a minus that you can hit that
20 will increase it.
21 A. Got it. I got that. It's just when I
22 make it bigger then it cuts off part of the screen.
23 I didn't know if I could make it a small box on my
24 screen here, but I can go forward with what I've

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1 got. I'm sorry for the distraction.
2 Q. Do you see the two boxes to the left of
3 those?
4 A. Yes, sir.
5 Q. If you hit one of those it will change
6 the format of the document that you're --
7 A. Okay. Thank you.
8 Q. You're welcome.
9 (Exhibit 17 was identified for
10 the record.)
11 THE WITNESS: Okay. So I do have the
12 document up here.
13 BY MR. TILLERY:
14 Q. Okay. And this for the counsel on this
15 deposition is Syngenta-PQ-01305484, and this is a
16 summary of the notes of Dr. Di Monte's presentation
17 at the Marlow meeting, isn't it? If you'd go
18 through and confirm that.
19 A. Yes, let me read it, if I may just take
20 a moment.
21 Q. Absolutely.
22 A. Okay. So I do -- just with a quick
23 read, these certainly seem to be exactly what they
24 said, that they're the summary of notes.

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1 Q. And if you want to confirm by going to
2 page 3, you can confirm that they are the notes of
3 Nick Sturgess that were generated in April 2009. If
4 you go to page 3, it will confirm that for you, sir.
5 A. I see that, yes.
6 Q. All right. Do you see that? Nick
7 Sturgess, April 2009, right?
8 A. I see that, yes.
9 Q. Okay. Now, if we go back to the first
10 page, if you look at the third paragraph, it says,
11 "Studies conducted with paraquat" -- strike that.
12 "Studies with paraquat conducted to
13 replicate the mouse paraquat dosing regimen (3 times
14 weekly doses of 5 milligrams per kilogram paraquat
15 s.c.) resulted in greater than 50 percent lethality.
16 Loss of striatal dopamine was noted in the dead
17 animals but was not quantified."
18 Is that what it says?
19 A. That's what it says.
20 Q. That wasn't recorded in the Health
21 Science Team minutes, was it?
22 A. I do not recall seeing that in those
23 minutes.
24 Q. All right. In the monkeys who were

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1 given the lower dose of paraquat, Dr. Sturgess noted
2 that Di Monte did not observe a change in total TH
3 neurons, right?
4 A. I'm -- yes, sir.
5 Q. If you go down, take your time and read
6 it.
7 A. Yes, I just wanted to go back up and
8 reread and confirm. So that's the first paragraph
9 we just read in three was about the mouse, not the
10 non-human primate. Okay?
11 Q. Right. Well, it says --
12 A. Yes, sir.
13 Q. It says, "Studies with PQ conducted to
14 replicate the mouse PQ dosing regimen."
15 A. Okay. Thank you.
16 Q. And he was talking about the monkey,
17 squirrel monkey studies.
18 A. Yes, sir, okay.
19 Q. Okay.
20 A. And so --
21 Q. And the results of squirrel monkey
22 studies reported by Dr. Di Monte. Do you understand
23 that?
24 A. Correct, yes, sir.

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1 Q. All right. And he reports loss of
2 striatal dopamine was noted in the dead animals was
3 not quantified. Do you see that?
4 A. I see that.
5 Q. Okay. And in the monkeys who were
6 given the lower dose of paraquat, Dr. Sturgess noted
7 that Dr. Di Monte did not observe a change in total
8 TH neurons, right?
9 A. That appears to be what's stated there,
10 correct, yes.
11 Q. Do you see where it says "detailed
12 histochemical analysis"?
13 A. Yeah. I see that.
14 Q. Okay. But Dr. Di Monte did report,
15 "Detailed histochemical analysis indicated a change
16 in neuromelanin staining phenotype of some neurons
17 when examined 4 weeks post dose," right? That's
18 what he -- that's what he put in his paper, if you
19 want to go back and look at it.
20 A. No change ... (reading). Okay. Can
21 you please restate that last sentence.
22 Q. Yeah, Dr. Di Monte did report that, and
23 I'm quoting, "Detailed histochemical analysis
24 indicated a change in neuromelanin staining

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1 phenotype of some neurons when examined 4 weeks post
2 dose."
3 A. Yeah.
4 MR. WEIR: I'll object to the form for
5 the missing line of the study you skipped over.
6 BY MR. TILLERY:
7 Q. Go ahead, sir.
8 A. That's what I'm reading here, yes.
9 That seems to be consistent.
10 Q. That finding was not reported in the
11 action minutes either, was it?
12 A. I don't recall seeing that.
13 Q. Dr. Di Monte observed a change in the
14 type of dopaminergic neurons in the substantia nigra
15 pars compacta in the treated monkeys too, didn't he?
16 If you look here and see?
17 A. Where is that on this, sir?
18 Q. It should be on the same – on the
19 front page.
20 A. Front page, okay.
21 Q. Of exhibit – this exhibit that we're
22 on now which is Syngenta-PQ-01305484, and that's
23 Exhibit 17.
24 A. And, I'm sorry. I'm struggling to

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1 Q. And do you see the top line?
2 A. Yes, sir.
3 Q. "Ratio of TH and neuromelanin staining
4 to neuromelanin only staining neurons changed in the
5 group dosed with paraquat and assessed 4 weeks post
6 dose."
7 Do you read that?
8 A. I do read that, yes.
9 Q. And an upregulation of alpha-synuclein
10 was also noted in brain samples taken 2, 4, and 8
11 weeks post dose, right?
12 A. Correct.
13 Q. None of this was reported in the
14 minutes, was it?
15 A. I do not recall seeing that in the
16 minutes.
17 Q. So compared to controls,
18 paraquat-treated monkeys had more of these
19 neurons – well, strike that.
20 So based on this, there was a decrease
21 in neurons that contained both TH plus and
22 neuromelanin based on these notes?
23 A. Taking these notes at what they say, I
24 have no reason to dispute that.

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1 follow. This is pretty technical, and it's the
2 first time I've seen it –
3 Q. I apologize. I'm doing this as a
4 prelude and then we'll get into areas where this
5 information was relevant directly to your work,
6 okay?
7 A. Okay.
8 Q. Doing this as a preliminary.
9 A. Okay.
10 Q. What my question to you was is that
11 Dr. Di Monte observed a change in the type of
12 dopaminergic neurons in the substantia nigra pars
13 compacta in paraquat-treated animals.
14 A. Is that – is that stated there or
15 is –
16 Q. Yeah, that's stated here, and in – in
17 paraquat-treated monkeys, there was an increase in
18 neurons that contained neuromelanin only. Did you
19 know that?
20 A. I did not know that.
21 Q. All right.
22 A. Is this on page 1 –
23 Q. Let's go to the next page.
24 A. Okay.

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1 Q. All right. If we look at that first
2 paragraph on page 2, Dr. Di Monte reported that the
3 ratio of neurons that contained both TH plus and
4 neuromelanin to the number of neurons that only
5 contained neuromelanin changed with paraquat
6 treatment, correct?
7 A. That appears to be what that says, yes.
8 Q. The ratio went down?
9 A. Yeah.
10 Q. And if you look at the section, the
11 third paragraph, "The conclusion Dr. Di Monte drew
12 from these experiments was that at the MTD in the
13 squirrel monkey, paraquat did not induce a lesion
14 that resulted in neuronal cell loss in the
15 substantia nigra (quite different in the mouse
16 model) but that it may induce a change in the
17 histochemical phenotype in some of the neuromelanin
18 containing cells. The toxicological significance of
19 this apparent phenotypic change is unclear."
20 Do you see that?
21 A. I do.
22 Q. So based on this, Dr. Di Monte
23 included – strike that.
24 Based on this, Dr. Di Monte concluded

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1 that paraquat treatment caused a change in
 2 neuromelanin containing neurons, right?
 3 A. That appears to be his conclusion, yes.
 4 Q. Paraquat treatment reduced the number
 5 of neurons that contained both TH plus and
 6 neuromelanin and increased the number of neurons
 7 that contained only neuromelanin from this, right?
 8 A. From my reading here that appears to be
 9 what's being said, yes.
 10 Q. Okay. And the last sentence in that
 11 paragraph is, "The toxicological significance of
 12 this apparent phenotypic change is unclear." Was
 13 that Dr. Dino Di Monte's conclusion or was that
 14 Syngenta's conclusion; do you know?
 15 A. I'm unable to tell from the way the
 16 minutes are or whether or not that was his – if he
 17 was being quoted or if that was the interpretation
 18 of the folks recalling his information.
 19 Q. And the toxicological significance of
 20 decreasing TH plus neurons and increasing
 21 neuromelanin-only containing neurons is a loss of
 22 dopamine-producing neurons, correct?
 23 MR. WEIR: Object to the foundation.
 24 THE WITNESS: I'm unfortunately not

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1 knowledgeable enough to answer that as far as from a
 2 toxic or physiological perspective.
 3 BY MR. TILLERY:
 4 Q. Okay. Let's go to Exhibit 18.
 5 (Exhibit 18 was identified for
 6 the record.)
 7 BY MR. TILLERY:
 8 Q. Plaintiff Deposition Exhibit Number 18
 9 is a document produced by Syngenta and Bates
 10 numbered – it's – we'll pull that back. Bates
 11 numbered Syngenta-PQ-02601795. That's 19? I think
 12 it's 18. Sorry.
 13 And this is the document I just gave
 14 you the Bates number for. Are you able to open it
 15 on your system, sir?
 16 A. What I'm seeing, sir, is Syngenta Human
 17 Safety, Potentially Referable Findings Approach
 18 Committee.
 19 Q. That is correct. That is the document
 20 I intended to put on the eDepoze system. And it
 21 lists as chairman Phil Botham and then a whole
 22 number of people. Are every single one of these
 23 people from England?
 24 A. No, sir. Certainly John Akins is –

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1 was located in Greensboro. Pete Hertl at that time
 2 is – would have been located in Greensboro. The
 3 other folks, Phil and Dick, they appear to be all EU
 4 based, as was Bob Parr-Dobrzanski, I believe.
 5 Q. Let's go through and see who these
 6 people were and what their role was at that time.
 7 Phil Botham was head of human safety
 8 for the entire organization, right?
 9 A. Correct.
 10 Q. And Pete Hertl was head of product
 11 safety, Americas, right?
 12 A. Correct.
 13 Q. John Akins was head of human safety,
 14 Americas, right?
 15 A. I'm not sure if he was head. In that
 16 time I believe John was one of our toxicologists,
 17 but I don't know that he had a leadership position.
 18 Q. Okay. And then there was R. Lewis at
 19 human safety, EAME. Where is that?
 20 A. That is our European designation.
 21 Europe – and it stands for Europe and Middle East.
 22 Q. And then E. Puri was global product
 23 registration. What was E. Puri's role in that
 24 division?

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1 A. I am not sure, to be honest with you.
 2 I know the name but I had very minimal interactions
 3 with him, so I'm not really sure what his technical
 4 role was.
 5 Q. You've seen these sorts of documents
 6 many times, haven't you?
 7 A. Many times, no, but I have seen them.
 8 Q. Okay. And this is a document that
 9 reports the findings of the Potentially Referable
 10 Findings Approach Committee, correct?
 11 A. Correct.
 12 Q. And we talked about this in the first
 13 part of your deposition a few months ago, and you
 14 mentioned this is a prelude to it being sent – the
 15 result being sent to the – to another committee,
 16 right?
 17 A. Correct.
 18 Q. And what was the next committee up the
 19 line?
 20 A. This committee would be the technical
 21 review. The next committee, which would be the
 22 North America specific committee, would be comprised
 23 of a legal representative, typically the person
 24 that's the chairperson of the committee.

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1 Potentially the regulatory manager for the relevant
 2 compound, and often there is other folks that sit on
 3 the committee as a standing – standing appointment.
 4 **Q. At the time of this committee meeting**
 5 **on May 19th, 2009, as reflected in these minutes,**
 6 **what was your role at the company?**
 7 A. I was regulatory manager, and paraquat
 8 was one of my molecules that I was responsible for.
 9 **Q. For North America?**
 10 A. For the U.S. primarily.
 11 **Q. For the United States? And who did you**
 12 **report to?**
 13 A. In 2009, it may have been Jerry Wells
 14 or it may have been Dan Campbell.
 15 **Q. Okay.**
 16 A. I'm not sure exactly. One of those two
 17 gentlemen in that time frame.
 18 **Q. Okay. And so this committee met, and**
 19 **if we look at this, have you reviewed these minutes**
 20 **or this document before in preparation for this**
 21 **deposition?**
 22 A. I believe this is the first time I've
 23 ever seen this document.
 24 **Q. These are minutes of the Potentially**

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1 **Referable Findings Approach Committee on May 2009,**
 2 **right?**
 3 A. Yes, sir.
 4 **Q. Dr. Di Monte made his squirrel monkey**
 5 **presentation in April 2009, right?**
 6 A. Correct.
 7 **Q. A month earlier Dr. Di Monte had made**
 8 **his presentation. That was in the exhibit that we**
 9 **went to first, I believe.**
 10 A. Yes.
 11 **Q. Okay. And this committee met the very**
 12 **next month, right, in May?**
 13 A. Yes, sir.
 14 **Q. And one of the items the committee took**
 15 **up was the information provided by Dr. Di Monte,**
 16 **right?**
 17 A. That appears to be point number 3, yes.
 18 **Q. Exactly. Third item on that list.**
 19 MR. WEIR: Steve, before we go on,
 20 could I get a standing objection to the scope here?
 21 Mr. Dixon was not designated as a corporate rep on
 22 PRF or on 6(a)2.
 23 MR. TILLERY: I'm reasonably certain he
 24 was designated on regulatory issues.

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1 MR. WEIR: This is a regulatory issue
 2 for United States that we designated Dr. Botham on
 3 PRF and on 6(a)2, and I believe you asked him
 4 questions about that so --
 5 MR. TILLERY: This is preliminary to
 6 the whole process on the regulatory issues in the
 7 United States. Dr. Botham in his deposition I'll
 8 represent to you yesterday said this went to
 9 America. They made the decision. That's what he
 10 said.
 11 MR. WEIR: Okay. I will -- sorry. I
 12 didn't mean to cut you off.
 13 MR. TILLERY: It's a matter of record
 14 what he said. I actually accused him of blaming the
 15 Yanks yesterday when he said that. Okay?
 16 So bottom line is is that that's what
 17 he said. So that's why you're up.
 18 MR. WEIR: Do I --
 19 MR. TILLERY: Mr. Dixon.
 20 MR. WEIR: Before you go on -- before
 21 you go on, I would like --
 22 MR. TILLERY: According to
 23 Dr. Botham -- I'm sorry, Counsel?
 24 MR. WEIR: I wanted to say before you

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1 go on I would like to make my objection and --
 2 MR. TILLERY: And I'll consent --
 3 (Simultaneous speech
 4 interrupted by the court
 5 reporter.)
 6 BY MR. TILLERY:
 7 **Q. So let's look at number 3, "Review of**
 8 **verbal presentation by Dr. Di Monte regarding**
 9 **preliminary findings from experimental studies with**
 10 **paraquat and MPTP in non-human primates (squirrel**
 11 **monkeys)."**
 12 **Do you see that?**
 13 A. I do.
 14 **Q. And the conclusion of the committee is**
 15 **represented here too if you go forward.**
 16 A. May I read that paragraph?
 17 **Q. Absolutely. Please do. And it's**
 18 **page 2, the top of the page in the first paragraph.**
 19 A. Okay. Thank you. Okay.
 20 **Q. Okay. Now, the committee concluded,**
 21 **"The brain findings in the non-human primate were**
 22 **unanimously agreed as constituting new data,"**
 23 **correct? Top of page 2, first sentence.**
 24 A. Yes.

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<p style="text-align: right;">Page 371</p> <p>1 Q. All right. There were two brain 2 findings according to this. One was the 3 upregulation of alpha-synuclein in the squirrel 4 monkey, right? 5 A. Yes. 6 Q. Sorry? 7 A. Yes. 8 Q. And the second was reduction in the 9 ratio of neurons containing TH plus and neuromelanin 10 to neurons containing only neuromelanin, correct? 11 A. That's what I recall from what we just 12 reviewed. 13 Q. The committee goes on to say, if you 14 follow along on the second sentence, "The 15 participants noted that the study had not yet been 16 completed, peer reviewed, or published and that the 17 data, by Dr. Di Monte's own admission, required 18 further verification." 19 Do you see that? 20 A. I do. 21 Q. Okay. Is it your understanding that 22 the preliminary data need not be reported as a 23 potentially adverse finding to the EPA? 24 MR. WEIR: Object to form. Calling for</p>	<p style="text-align: right;">Page 373</p> <p>1 it's preliminary? 2 MR. WEIR: Same objection. Calls for a 3 legal conclusion. 4 THE WITNESS: My answer on that is I 5 would not make that determination myself. I would 6 work with the committee and follow the determination 7 and guidance of the committee, and if the committee 8 and the attorney deemed it was reportable, then 9 certainly would execute the submission of that 10 report. 11 BY MR. TILLERY: 12 Q. So you wouldn't make the decision one 13 way or another, right? 14 A. I would not -- and I don't recall being 15 involved in this particular one, but in a situation 16 where I'm brought in, I would make my contributions 17 known and as part of the deliberative process. 18 Q. Okay. So would you have a vote in this 19 decision-making process? 20 A. It depends on what the particular 6(a)2 21 situation is and who's in the room. You know, if 22 I'm invited into the meeting and asked to have a 23 determination, then, yes, I would. 24 Q. In a situation like this in 2009, who</p>
<p style="text-align: right;">Page 372</p> <p>1 a legal conclusion. 2 THE WITNESS: I would say that's not -- 3 not my understanding. I would rely upon advice 4 given -- and I apologize. Somebody is -- I thought 5 I had my phone turned off there. I apologize. 6 In a situation like that, depending on 7 the evaluation of the committee and advice of the -- 8 of the committee would be how we determine whether 9 or not to submit that. 10 BY MR. TILLERY: 11 Q. Right. So you'd listen to the lawyers 12 primarily, right? 13 A. The members of the committee which 14 would certainly include a lawyer, yes, sir. 15 Q. Right. And what I'm trying to figure 16 out is as a member and as the person -- the liaison 17 with the United States Environmental Protection 18 Agency and the guy who signs off on these reports, 19 right? 20 A. When there's a 6(a)2 on one of the ones 21 I'm responsible for, I would sign it, yes, sir. 22 Q. Okay. And in those situations, would 23 you deem preliminary data like this to be excluded 24 from reporting obligations under FIFRA 6(a)2 because</p>	<p style="text-align: right;">Page 374</p> <p>1 was the person in charge of that group in the U.S.? 2 A. I believe -- and I may not have the 3 timeline quite line right, Mr. Tillery. I believe 4 it would have been Tim Pastoor, but if not Tim, then 5 potentially Nina Heard. 6 Q. Now, if we go forward to page 2, I'm 7 looking for the conclusion. Yeah, the last sentence 8 of that paragraph that you were referencing. "On 9 the basis of the preliminary nature of the findings 10 and the lack of obvious adverse consequences of the 11 findings in the brain, the data do not meet the 12 necessary technical criteria for referral." 13 Do you see that? 14 A. I do. 15 Q. What does that mean? 16 A. I read it to mean that the committee or 17 this particular group of experts has evaluated the 18 information put before them and their conclusion was 19 that, as stated here, they did not feel that these 20 findings met the criteria for referral. They -- I 21 take it at what it says there, sir. 22 Q. And that means they didn't send it to 23 you in America to evaluate, did they? 24 A. It was 11 years ago. I don't recall</p>

1 having seen that. I can't say definitively what the
2 meeting minutes were in 2009. If I was involved
3 with that, I don't recall -- I don't recall seeing
4 this. But that certainly, that statement there says
5 it did not -- at least at the end of that paragraph
6 it says they did not meet the technical criteria for
7 referral.

8 **Q. And if it had been referred, what would**
9 **have been the next logical step in the process at**
10 **Syngenta?**

11 **A.** My view is it would have been -- been
12 communicated to the lead in the U.S., and if it was
13 Tim, I believe he's on this. He would already know
14 of it. Certainly Peter would have known of it.
15 He's on here. The committee in the U.S. then would
16 have taken the information, held a meeting,
17 discussed whether or not they agreed with the
18 recommendations from the technical committee and
19 whether or not they believed it should be submitted
20 under the 6(a)2 provisions.

21 **Q. Effectively the potentially referable**
22 **findings committee concluded that a paraquat-induced**
23 **reduction in dopamine-producing neurons was not an**
24 **adverse effect that should be reported; would you**

1 **alpha-synuclein was not adverse, correct?**

2 **A.** Based upon what I'm reading here, they
3 appeared to make -- reach the conclusion that that
4 didn't meet the necessary criteria.

5 **Q. When Dr. Di Monte made his squirrel**
6 **monkey presentation to the Paraquat Health Science**
7 **Team, he agreed to share the brain tissue with**
8 **Syngenta to perform a residue analysis study, didn't**
9 **he?**

10 **MR. WEIR:** Object to the legal
11 conclusion.

12 **THE WITNESS:** I believe that is
13 correct, sir.

14 **MR. TILLERY:** Okay. So let's go take a
15 three- or four-minute break because we've got to
16 connect up for your next exhibit.

17 **MR. WEIR:** Before we go off the record,
18 Renee, can I just -- can I double-check that my
19 standing objection to the PRF and the 6(a)2
20 questions was put on the record and Mr. Tillery
21 confirmed that he entered into that. I checked the
22 realtime and I didn't see it there.

23 (Discussion off the record.)

24 **MR. WEIR:** All right. Just for the

1 **agree with that.**

2 **MR. WEIR:** Object to the form. I think
3 it misrepresents the facts.

4 **THE WITNESS:** I would say based on the
5 information that they listed here, the determination
6 where the findings did not meet what they believed
7 were the criteria for referral.

8 **BY MR. TILLERY:**

9 **Q. Those findings included a -- their**
10 **recognition in their own notes of a scientific**
11 **investigator of great repute and recognition who had**
12 **found a reduction in dopamine-producing neurons and**
13 **an increase in neurons that don't produce dopamine,**
14 **and that as a result of that it was not adverse,**
15 **correct?**

16 **MR. WEIR:** Same objection.

17 **THE WITNESS:** That appears to be the
18 conclusion was that after they evaluated the data,
19 they did not feel it met the technical criteria for
20 referral.

21 **BY MR. TILLERY:**

22 **Q. And they also found -- that is, the**
23 **Syngenta potentially referable findings committee --**
24 **found that paraquat's upregulation of**

1 record, I want to make clear that we have a standing
2 objection to any question of Mr. Dixon that the
3 objection is to the scope of the questioning about
4 potentially referable findings or the 6(a)2 process,
5 since Mr. Dixon was not designated as a corporate
6 designee on those topics.

7 **MR. TILLERY:** So did you fix that?
8 We're going to just take one second. We're going to
9 need to go off the record to withdraw the last one
10 and affix it because there was a technical glitch in
11 assigning a number. Are you okay? Okay.

12 **Q. So we'll now go to Syngenta-PQ-01117480**
13 **which is Exhibit Number 16, Mr. Dixon.**

14 **A.** Going back to Exhibit 16, sir?

15 **Q. It's going to -- go to 16, yes.**

16 **A.** Okay. Let me go back.

17 **MR. WEIR:** Just while we're in a little
18 pause, it's 12:15 Eastern Time and we've been going
19 for a little while, so maybe after your next round
20 we can take a lunch break. Is that going to work?

21 **MR. TILLERY:** I'm actually about to
22 start something that's going to take a while. Do
23 you want to take a break now or?

24 **MR. WEIR:** Well, I guess, Monty, would

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1 you like a lunch break or if you want to --

2 MR. TILLERY: Can we go for, say, 30

3 minutes? Would that be okay for you?

4 THE WITNESS: That works for me.

5 Whatever works best for everyone.

6 MR. WEIR: Thanks, Steve.

7 BY MR. TILLERY:

8 Q. Can you go back and open number 16?

9 A. Okay, sir, I think I have it opened.

10 Q. I'm looking for where it says it. All

11 I asked you to do this for us to confirm with me

12 that the April 20/21 note says, I have an interest

13 that Dino Di Monte would be willing to share

14 striatal material with Syngenta for PQ concentration

15 analysis. I just wanted to offer this to you to

16 confirm that that's what it says?

17 A. Okay. Yes. And I'm just looking down.

18 Where roughly is that, sir?

19 Q. It's in the lower right-hand corner.

20 A. Lower right-hand corner. Dino Di Monte

21 to conduct stereology -- yes, I see the lung

22 pathology report. I'm sorry. I'm not -- I'm still

23 not seeing sending the tissues, I apologize. I'm

24 sure it's right in front of me. Quantity, I see

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1 Kersten indicating that they would estimate the

2 quantity, so, yes, it seems that the tissue --

3 Q. Look -- If you look under the heading

4 "Preliminary results from squirrel monkey."

5 Do you see that?

6 A. Let's see here. Preliminary -- yes, I

7 see that, yeah.

8 Q. The last bullet.

9 A. Well, I see that. Okay. Sorry. I

10 apologize.

11 Q. It says "DDM" Dino Di Monte?

12 A. Yes.

13 Q. "Willing to share striatal material

14 with Syngenta for PQ concentration analysis."

15 A. I see that, yes.

16 Q. All right. Okay. And the purpose of

17 the residue analysis would be to confirm the

18 presence and concentration in the squirrel monkeys'

19 brains, correct?

20 A. That's what -- yeah, that's what it

21 says there.

22 Q. All right. Now, if we can go to the

23 next exhibit which is number 19.

24 A. Back to number -- okay. So 18 was

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1 replaced.

2 Q. Oh, is that right?

3 A. 18 originally when it first came up to

4 me appeared to be a publication.

5 Q. Oh, okay.

6 A. But then it looks like 18 now is the

7 one we were just going over which was the PRF

8 meeting minutes.

9 Q. Do we have it in twice? That's okay.

10 So this is number 19? All right. This is number 19

11 that I'm pulling up now, sir.

12 A. Okay.

13 (Exhibit 19 was identified for

14 the record.)

15 THE WITNESS: Okay. I see this.

16 BY MR. TILLERY:

17 Q. Are you familiar with this document?

18 A. Yes, sir.

19 Q. This was sent to your office, wasn't

20 it?

21 A. Sent to the office? It certainly was

22 in our files.

23 Q. Okay. And this is

24 Syngenta-PQ-00044965, and it's Plaintiffs'

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1 Deposition Exhibit Number 19. It's a study

2 completion dated January 21, 2011, and its author is

3 William J. Ray. Do you see that?

4 A. I do.

5 Q. The laboratory was Syngenta Crop

6 Protection in Greensboro, correct?

7 A. Correct.

8 Q. This is the final report for the study

9 of the paraquat residues in the brain tissue of

10 Dr. Di Monte's squirrel monkeys, isn't it?

11 A. Yes, sir.

12 Q. The final report, again, bears the date

13 January 21, 2011, right?

14 A. Correct.

15 Q. Now, if you turn to page 5 of this, it

16 shows the study initiation date of September 13,

17 2010, right?

18 A. I see that, yes.

19 Q. And this was more than a year after

20 Dr. Travis requested permission to conduct the

21 study, right?

22 A. The timing there seems about right,

23 yes.

24 Q. And the study completion date was

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1 **October 29, 2010, right?**
 2 A. That's the experimental termination
 3 date, not necessarily the study completion date.
 4 **Q. Okay. Okay. The -- it's experimental**
 5 **termination date October 29, 2010?**
 6 A. Yes, sir.
 7 **Q. Okay. And that was about three months**
 8 **before the final report was issued, right?**
 9 A. That sounds about right. I think we
 10 said the final report was January of the next year,
 11 so about three months, yes.
 12 **Q. Now, if you go to page 7.**
 13 A. Okay.
 14 **Q. Under "Executive Summary."**
 15 A. Okay.
 16 **Q. Okay. Take a look at that for a second**
 17 **and then see if you can follow along with me.**
 18 A. Yes, sir.
 19 **Q. First paragraph, quoting, "The study**
 20 **objective was to analyze paraquat residues in the**
 21 **brain tissues of Squirrel Monkeys exposed to**
 22 **paraquat in laboratory setting."**
 23 **Do you see that?**
 24 A. I do.

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1 **Q. "A total of 15 treated tissue samples**
 2 **and one control tissue sample were received from SRI**
 3 **International under the direction of Dr. Dino**
 4 **Di Monte," correct?**
 5 A. Correct.
 6 **Q. Second paragraph in that section says,**
 7 **"The monkey brain tissues exhibited paraquat**
 8 **residues which range from .007 to" -- I'm sorry --**
 9 **".007 to .256, except samples 664, 666, and 6" --**
 10 **"and 732, which were less than the level of**
 11 **quantification," right?**
 12 A. Yes.
 13 **Q. So Syngenta confirmed that paraquat was**
 14 **present in the brains of Dr. Di Monte's squirrel**
 15 **monkeys, didn't they?**
 16 A. That's what this finding indicates.
 17 **Q. And if you go back to the first page of**
 18 **the section marked "Data Requirement(s): EPA**
 19 **Guidelines," okay?**
 20 A. Okay. I am -- okay.
 21 **Q. And it lists EPA guidelines**
 22 **OPPTS 860.1480 (1996) is listed, right?**
 23 A. I see that, yes.
 24 **Q. Does that mean that the study was**

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1 **performed in accordance with the data requirements**
 2 **for residue chemistry studies issued by the U.S.**
 3 **EPA?**
 4 A. That would be how I would interpret
 5 that, yes.
 6 **Q. But this study was never submitted to**
 7 **the U.S. EPA?**
 8 A. I believe the study was submitted in
 9 2019 to the EPA.
 10 **Q. And we're going to talk about that.**
 11 **In 2011, when it was -- 2010 that it**
 12 **was done and finalized in January 2011, it was never**
 13 **submitted, was it?**
 14 A. It was not submitted at that time, no.
 15 **Q. Was it sent to you at that time?**
 16 A. I do not recall ever seeing it. I
 17 can't say that I did not but I certainly do not
 18 recall.
 19 **Q. You don't recall seeing it until a year**
 20 **ago or a little over a year ago in December 2019**
 21 **when it was sent to you to file with the EPA,**
 22 **correct?**
 23 A. I certainly was much more aware of it
 24 then when it was time to submit it. I don't know

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1 the specific date I first became aware of the study,
 2 but I would say it was much closer to the submission
 3 date then. I don't recall an awareness back in 2011
 4 of it.
 5 **Q. Okay.**
 6 A. That was ten years ago, so my
 7 recollection is not perfect; but to the best of my
 8 knowledge, I was not aware of it at that time frame.
 9 **Q. Now, if we can -- is this a -- so what**
 10 **was submitted to the U.S. EPA? In December 2019,**
 11 **you submitted to the EPA a residue study called "The**
 12 **Analysis of Brain Samples from Paraquat-Exposed**
 13 **Squirrel Monkeys for Residues of Paraquat," right?**
 14 A. Right.
 15 **Q. Okay. Is that the document we have up**
 16 **right now?**
 17 A. I believe so. I believe so.
 18 **Q. Okay.**
 19 A. I could confirm it by confirming the
 20 study number, but I have no reason to believe it's
 21 not the same study, sir.
 22 **Q. Okay. Syngenta submitted that report**
 23 **right before the public comment period for**
 24 **paraquat's reregistration ended, right?**

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1 A. Correct.
2 Q. And –
3 A. That was the public comment period for
4 the draft risk assessment. There's currently
5 another public comment period going on. So just for
6 clarity, that was specific to the draft risk
7 assessment period, sir.
8 Q. And the author of the study is William
9 Ray, right?
10 A. Correct.
11 Q. And that's the same study completed
12 January 21st, 2011, right?
13 A. I believe it's the same study.
14 Q. So would you agree there was about
15 roughly a nine-year delay in turning it over to the
16 EPA?
17 MR. WEIR: Object to the form.
18 THE WITNESS: That time frame from the
19 time it's completed to the submission appears about
20 right.
21 BY MR. TILLERY:
22 Q. Okay. Syngenta had fish – strike
23 that.
24 Syngenta had 15 tissue samples from the

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1 frontal cortex of monkeys that were administered
2 PQ – paraquat, right?
3 A. Correct.
4 Q. Syngenta found paraquat residue in 12
5 out of 15 of those samples, right?
6 A. I believe that's what the study found,
7 yes, sir.
8 Q. The monkeys again were dosed with 2.5
9 milligrams per kilogram of paraquat via subcutaneous
10 administration once per week for six weeks under the
11 test protocol, correct?
12 A. That's what I recall from what you
13 showed me earlier.
14 Q. Okay. And the monkeys were sacrificed
15 at two, four, and eight weeks post-dosing, right?
16 A. That seems correct.
17 Q. Did anyone at the EPA contact you or
18 anyone at Syngenta after you submitted the Ray study
19 to them?
20 A. About that study, no.
21 Q. Did they ever talk to you about the
22 study?
23 A. I do not believe we've had any
24 discussions about that study.

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1 Q. Did anyone at the EPA ask Syngenta
2 questions in follow-up as to missing information in
3 the study?
4 A. I do not recall any such inquiry.
5 Q. Do you know if anybody besides you had
6 any contact with anyone at the EPA to discuss the
7 Ray study?
8 A. To the best of my knowledge, no. I
9 don't recall any – any inquiries to me or anyone
10 else from EPA once the study was submitted.
11 Q. When you submitted the Ray report to
12 the EPA, did you tell the EPA what the dosing
13 regimen was for the monkeys?
14 A. No. I don't recall that being in the
15 submission letter.
16 Q. Why wouldn't you tell them what the
17 dosing regimen was?
18 A. It would be contained in the report,
19 sir.
20 Q. Okay. Did you know whether or not the
21 Ray report included the dosing regimen for the
22 monkeys?
23 A. I actually do not.
24 Q. Would you find it rather unusual for

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1 the submitted report to leave out the dosing regimen
2 for the animals?
3 MR. WEIR: Object to the form.
4 THE WITNESS: From my personal
5 experience, I would have expected the dosing regimen
6 to be included.
7 BY MR. TILLERY:
8 Q. All right. Did anybody from the EPA
9 call or ask you or anyone at Syngenta what the
10 dosing regimen was for the monkeys?
11 A. To my recollection there was no
12 communication back from EPA once the study was
13 submitted.
14 Q. All right. Now let's go – what
15 exhibit is this? Number 20. Let's go to
16 Exhibit 20.
17 (Exhibit 20 was identified for
18 the record.)
19 THE WITNESS: Okay. I see the
20 document, sir.
21 BY MR. TILLERY:
22 Q. All right. Now, if you wouldn't mind,
23 take a look at that. This is a document from the
24 United States Environmental Protection Agency, isn't

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1 it?
2 A. It is.
3 Q. It's dated a few weeks ago, September
4 24th, 2020. Do you see that?
5 A. I do.
6 Q. Okay. If you go to page 9 of that
7 document.
8 A. Okay. Okay. I have that document
9 open.
10 Q. If you look in the middle of the first
11 paragraph.
12 A. Okay, sir.
13 Q. One study submitted. Do you see that?
14 A. I see that, right, yes.
15 Q. It says, "One study submitted by
16 Syngenta (Ray, unpublished) quantified paraquat in
17 cortical brain tissue collected from spider monkeys.
18 The brain tissue samples were provided to Syngenta
19 by SRI International and were collected as part of a
20 separate study conducted at SRI International to
21 investigate the effects of paraquat on nigrostriatal
22 function/integrity. The original study was
23 conducted three to four years prior to the brain
24 tissue analysis during which time the tissues were

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1 kept in frozen storage."
2 And this is a sentence I want to direct
3 your attention to: "Although the study demonstrated
4 quantifiable concentrations of paraquat in brain
5 tissue, the study report did not indicate the route
6 of administration nor dosing regimen in the original
7 study. The agency thus could not utilize these data
8 to further characterize paraquat toxicokinetics in
9 monkeys."
10 Do you see that?
11 A. I do.
12 Q. Did I read that correctly?
13 A. I take it, yes, you read it exactly as
14 it's written.
15 Q. So in the middle of this whole process
16 where they're taking a deep dive into paraquat and
17 its potential toxicological effects, when this was
18 submitted a year ago, you left out the dosing
19 regimen and the route of the administration,
20 correct?
21 MR. WEIR: Object to the form.
22 THE WITNESS: That appears to be the
23 case, sir.
24

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1 BY MR. TILLERY:
2 Q. So the agency, the Environmental
3 Protection Agency, couldn't utilize the primate data
4 to further characterize paraquat toxicokinetics in
5 the monkeys, correct? They rejected it because it
6 didn't contain the information which we, all of us
7 on this call, have right in front of us, right?
8 A. That's -- that's what the agency
9 states, sir.
10 Q. Syngenta knows, I know, the reporter
11 knows, videographer knows what the dosing regimen is
12 for the monkeys in the Ray study, but the federal
13 agency in charge of evaluating this chemical
14 apparently does not know that information, right?
15 MR. WEIR: Object to the form.
16 (Phone interruption.)
17 THE WITNESS: I'm so sorry about that.
18 I take the agency, what they said, is
19 exactly what's -- is in the document there, sir. It
20 says that they did not -- I've lost the sentence,
21 but that they did not have the dose or the route of
22 administration.
23 BY MR. TILLERY:
24 Q. I'll read it to you again.

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1 A. Yeah, and I'm going to turn this phone
2 off so we quit getting interrupted. I apologize
3 about that.
4 Q. That's no problem, sir.
5 I'll read you the last sentence again.
6 "The agency thus could not utilize these data to
7 further characterize paraquat toxicokinetics in
8 monkeys," correct?
9 A. That's what is stated there, yes.
10 Q. So Syngenta did not provide the
11 information to the EPA for them to be able to
12 utilize the data to further characterize paraquat
13 toxicokinetics in monkeys, correct?
14 A. Based upon what is stated here and what
15 was submitted in the report, the agency is
16 indicating that the lack of administration or dosing
17 regimen prevents them from using it in that
18 direction.
19 Q. And that, as we've said, is probably
20 the most relevant study animal to humans, the
21 non-human primate, correct?
22 MR. WEIR: Object to the form and
23 foundation, scope.
24 THE WITNESS: Not being a toxicologist,

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1 my layman's view is I would assume a non-human
2 primate study would be a relevant model, but I'm not
3 a toxicologist. That's just a layman's view.
4 MR. TILLERY: So at this point let's
5 take a break so we can have some lunch, okay?
6 THE WITNESS: Thank you.
7 THE VIDEOGRAPHER: We're going off the
8 record. The time is 11:33. This ends Media Unit
9 Number 3.
10 (Recess taken.)
11 THE VIDEOGRAPHER: We're going back on
12 the record. The time is 12:19. This begins Media
13 Unit Number 4.
14 BY MR. TILLERY:
15 Q. In preparation for this deposition, did
16 you go back and look at the early labels that were
17 used on paraquat products in the United States?
18 A. I did look at some labels, the ones
19 that I was able to find and some that were provided
20 in prep material, sir.
21 Q. Can you -- are you getting his sound
22 quality okay?
23 THE REPORTER: (Nods head.)
24 THE VIDEOGRAPHER: (Nods head.)

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1 BY MR. TILLERY:
2 Q. All right. Thank you.
3 And did it give you a good
4 representation in your own thought about the content
5 of the labels? I know you probably didn't look at
6 all of them or look at a lot of them, but did you
7 get a good cross-reference understanding of what
8 those labels said?
9 A. I think so. There was one from the
10 '70s that was quite difficult to read from the EPA
11 website and -- but there was one from the '60s that
12 I could read and then I was able to read the ones
13 from the '80s relatively well.
14 Q. All right. In all of the labels that
15 you saw or any accompanying material, did either
16 Chevron, ICI, Zeneca, Syngenta ever warn about
17 potential neurotoxicity of paraquat?
18 A. I don't recall ever seeing any type
19 statements such as that on the label, sir, no.
20 Q. Did they ever mention the word
21 "Parkinson's disease" in any way on the label,
22 whether it was a warning or anything else?
23 A. I'm not aware of any label that would
24 have had that reference. I certainly have not seen

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1 one.
2 Q. Okay. In the 1960s, whose role was it
3 to interact with the EPA about the content of
4 paraquat labels?
5 A. To the best of my knowledge -- and I
6 don't believe EPA actually existed that early. I
7 think it may have been FDA, sir, but --
8 Q. Yeah, just so you're -- Mr. Dixon, just
9 so you're aware, the first registration of this was
10 with the USDA in the mid '60s.
11 A. Okay.
12 Q. So I didn't mean to mislead you. Sorry
13 about that.
14 A. No worries. Just trying to keep all
15 the "DAs" straight in my brain.
16 Q. Right. Okay.
17 A. So it would have probably been somebody
18 within one of the organizations at the time. I
19 would assume they were in a managerial role. I'm
20 not sure if they were broken down into like
21 regulatory or what have you, but I assume there
22 would have been a person that would have been a --
23 charged with those type of interactions and
24 responsibilities.

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1 Q. So as between Chevron and ICI at that
2 time, who had the responsibility for procuring the
3 registration with the USDA?
4 A. If my recollection serves correctly, I
5 believe that would have initially been Chevron.
6 Q. Did ICI play a role in that process?
7 A. In the '60s, I'm not sure. I believe
8 in the '70s there would have been collaborative
9 interaction between the two organizations and
10 probably even in the mid to late '60s. So I believe
11 there would have been some collaborative work in
12 trying to establish those registrations.
13 Q. And as between the two companies, who
14 had primary decision-making control over the content
15 of the label?
16 A. I don't believe I know which of those
17 two companies had the primary role on that, sir.
18 Q. Did you see one of the companies having
19 a more active or dominant role in the creation of
20 the content of the label over another?
21 A. To the best of my recollection from
22 reviewing some of the prep documents, I believe in
23 the U.S. Chevron had more of a leading role in that.
24 Q. And up until the time of 1982 when ICI

1 went into the distribution of paraquat business? Is
 2 that when it ended? Or up until the time Chevron
 3 got out of the business in '86?
 4 A. I believe ICI had the prominent role in
 5 the '80s starting about the time frame you had
 6 mentioned. So I think in the '80s, it would have
 7 most likely been ICI with the registrations and the
 8 labeling.
 9 Q. And are you saying after Chevron got
 10 out in '86?
 11 A. I'm doing the best I can just from
 12 the -- the information I saw in the background.
 13 Once Chevron was out, it clearly would have been all
 14 ICI. I believe there could have been dialogue
 15 between the two organizations leading up to that on
 16 how to position the labels as they were working
 17 collaboratively on registration actions.
 18 Q. Was there ever a time when their
 19 products had different label content?
 20 A. Afraid I haven't had a chance to
 21 compare the two different labels, so I do not know,
 22 sir.
 23 Q. Okay. When the primary registrant
 24 registers the label and the label content with

1 respect to warnings and operator instructions as
 2 listed and registered with either the USDA or the
 3 EPA, are other companies who sell the same active
 4 ingredient required to use the same label,
 5 instructions, and warnings?
 6 A. It's dependent, sir, on a couple of
 7 things: One would be the nature of the formulation.
 8 So, for example, formulations go through acute
 9 toxicity testing, and it is possible depending upon
 10 the results of those testing you could have,
 11 theoretically, for example, different precautionary
 12 statements. That could be because combinations
 13 may -- of products may have different constituents
 14 in there.
 15 If a registration is granted as a "me
 16 too" registration, and then essentially what that
 17 requires is that all of the use patterns are
 18 essentially identical to the registered product for
 19 which it's seeking that substantially similar
 20 registration, so it's -- it can be some differences
 21 depending on the circumstances.
 22 Q. Okay. Let's at this point pull up
 23 Plaintiffs' Deposition Exhibit Number 21.
 24 (Exhibit 21 was marked for

1 Identification.)
 2 THE WITNESS: Okay. Okay, sir, I see
 3 the document.
 4 BY MR. TILLERY:
 5 Q. Yes, it's a three-page letter and it's
 6 Bates stamped Syngenta-PQ-02510030. And just for
 7 the record, this is a letter dated 18th May 1966 to
 8 Dr. W.G. Toland, manager research and development,
 9 Chevron Chemical Company Ortho Division to -- from
 10 Mr. A.A.B. Swan of ICI.
 11 Now, if you'd just take a look at that,
 12 I've got a couple questions to ask you.
 13 A. Yes, sir. Okay, sir, believe I'm
 14 familiar enough to answer.
 15 Q. Okay. Dr. Swan from ICI was commenting
 16 about proposed label additions by Chevron, correct?
 17 A. Correct.
 18 Q. And in terms of a reference, a point of
 19 time, this was one month before the initial
 20 registration of paraquat was accomplished with the
 21 USDA in June of 1966, correct?
 22 A. That seems correct, although from my
 23 memory I have thought that date was 1964, but
 24 perhaps this is the first registration.

1 Q. Was '64 for the experimental aspect of
 2 this chemical?
 3 A. Okay.
 4 Q. For limited use approval?
 5 A. Okay, sir.
 6 Q. And was this for -- I think June was
 7 for the broad range of broad sales in agricultural
 8 purposes; would that be fair?
 9 A. That sounds about right.
 10 Q. Okay. If we look at this letter,
 11 second sentence, Dr. Swan says, "We are puzzled and
 12 concerned that you're considering changing the label
 13 for paraquat at this moment when the present label
 14 has been agreed with U.S. authorities and the
 15 petition which is filed with the U.S. F. & D.A. is
 16 now presumably under consideration."
 17 Do you see that?
 18 A. I do.
 19 Q. All right. And it says, "You yourself
 20 say the current label should suffice, and it seems
 21 to us that the introduction of the skull and
 22 crossbones implies, by comparison with other
 23 products, a greater hazard than in fact exists,"
 24 right?

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1 A. That's what it says, yes, sir.
2 Q. All right. And if you skip down to the
3 end of that page, last paragraph, Dr. Swan says to
4 Dr. Toland, "Paraquat's toxic property of special
5 concern is its inhalation toxicity; so far, despite
6 very widespread use, the only untoward effect of
7 accidental spray inhalation has been nosebleeding or
8 soreness of mouth and throat," correct?
9 A. That's what it says, yes, sir.
10 Q. Okay. "Lung Injury from Inhalation is
11 a laboratory phenomenon, caused by respirable
12 aerosols which are technically difficult to produce,
13 and has not occurred in man," right? Is that what
14 he says?
15 A. Yes, sir.
16 Q. Okay. And if you skip over to the
17 third page, middle of the page.
18 A. Okay.
19 Q. It says – Dr. Swan's – A.A.B. Swan
20 says, "We take care of the 'spray mist' hazard by
21 warning against the use of air-blast sprayers, and
22 we recommend the use of respirators, et cetera, only
23 when the type of spray equipment or application
24 warrants this precaution," right?

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1 A. Correct.
2 Q. Now, let's go and see what happened
3 when – I've got a 1968 Ortho Paraquat CL label, and
4 we'll pull it up as Exhibit 22.
5 (Exhibit 22 was identified for
6 the record.)
7 BY MR. TILLERY:
8 Q. While we're looking to pull it up, do
9 you know who A.A.B. Swan was at –
10 A. I do not. I've seen the name as I've
11 been reviewing some of the documents for the
12 deposition, but I'm not familiar with who that
13 person was.
14 Q. Okay. All right. Let's open
15 Exhibit 22.
16 A. Okay. Wow, this is going to be quite
17 challenging. Let me try to enlarge it, sir.
18 Q. It is. It is, I agree with you. It
19 is. And what you may have to do is find the area
20 under the "Warning" areas and then increase the size
21 of it.
22 A. Okay. Let me try to increase it.
23 MR. WEIR: Steve, just to be clear, are
24 you going to be looking at the right column on where

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1 It says "Warning" there?
2 MR. TILLERY: Yes, sir.
3 MR. WEIR: Okay. Thank you.
4 THE WITNESS: All right. Let's see if
5 I can get that to blow up again. When I blow it up,
6 unfortunately I cannot get the "Warning" area to
7 show. Let me see if there's a different way to do
8 that.
9 MR. WEIR: I don't know if yours is
10 different than mine, but when I scroll down outside
11 of the document, I'm able to get a left-right scroll
12 bar which allows you to scroll over to the right
13 where you can see that –
14 THE WITNESS: Let me try that, Tom. I
15 will do what I can, sir, to try to read it.
16 BY MR. TILLERY:
17 Q. If you keep enlarging it you can see
18 it.
19 A. Unfortunately, once I get to a certain
20 point it enlarges and it does not – it pushes it
21 beyond the window and I'm not able to scroll it,
22 so – but I'll make do. I can squint and try to
23 take advantage of these readers as best I can. "May
24 be fatal if swallowed," I can make it out, sir.

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1 Q. There's no skull and crossbones on this
2 warning, is there?
3 A. I do not see a skull and crossbones,
4 no.
5 Q. And would you agree if you look at this
6 that the focus is on acute injury?
7 A. Okay. May be fatal if inhaled,
8 absorbed through the skin, will cause it – yes, it
9 all does appear to be geared at acute use injury
10 type concerns which is consistent with what
11 typically is on labels.
12 Q. Okay. Nothing about wearing gloves
13 while applying paraquat, if you could confirm that.
14 A. I am not seeing any reference to gloves
15 under the "Warnings" section.
16 Q. Nothing about wearing a respirator when
17 applying paraquat?
18 A. Actually, hold on, sir. I do see wear
19 a face shield, rubber gloves, but when handling the
20 concentrate.
21 Q. Right.
22 A. Okay. Do not --
23 Q. That's what I was going to say, but
24 when applying it there's nothing about gloves, is

39 (Pages 403 to 406)

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1 **there?**
 2 A. Let's see. When spraying or when
 3 contract spraying -- wear waterproof -- I see wear
 4 waterproof footwear and clothing, but not a direct
 5 reference to gloves.
 6 **Q. And nothing about a respirator when**
 7 **applying paraquat?**
 8 A. I do not see a reference to a
 9 respirator.
 10 **Q. No indication about any potential**
 11 **neurotoxic effect, right?**
 12 A. No. I do not see anything that reads
 13 that way.
 14 **Q. No warnings of cumulative effects,**
 15 **correct?**
 16 A. I do not see any such warning.
 17 **Q. And nothing is on the label that the**
 18 **user may end up with Parkinson's disease, right?**
 19 A. Certainly in the section I'm reading I
 20 see no reference to that. Now, I'm assuming there
 21 will be nothing over in the directions for use, but
 22 I do not see anything that makes a reference to
 23 Parkinson's disease.
 24 **Q. I want to make sure that you're**

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1 **comfortable that the date I gave you is correct for**
 2 **this, because I told you it was printed in**
 3 **January 1968, okay? And I want to tell you how**
 4 **because I had trouble identifying that and I want to**
 5 **make sure you know how I did it.**
 6 **There's a reference number on this that**
 7 **gives the form of the document, and if we pull up**
 8 **then the next -- this is number 23.**
 9 **(Exhibit 23 was identified for**
 10 **the record.)**
 11 **THE WITNESS: Okay. I see --**
 12 **BY MR. TILLERY:**
 13 **Q. If you look at this, which was produced**
 14 **to us by Chevron Chemical Company.**
 15 A. Okay.
 16 **Q. All right. So this, by the way, is**
 17 **CUSA-00114447. Okay? And do you see this? It**
 18 **looks like the outside of a folder?**
 19 A. It does.
 20 **Q. All right. And if you look up at the**
 21 **top you'll see a reference to the top -- to a**
 22 **four-digit number.**
 23 A. I do, 7129.
 24 **Q. Do you see that 7129? You'll see that**

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1 **corresponds with the numbers on the form here, okay?**
 2 **And that's how we dated this. I just wanted you to**
 3 **be aware of it, okay?**
 4 A. Okay.
 5 **Q. Does that make sense to you?**
 6 A. It does. It seems very reasonable.
 7 **Q. All right. Thank you. Let's go to**
 8 **number 24.**
 9 **(Exhibit 24 was identified for**
 10 **the record.)**
 11 **THE WITNESS: Okay. I have it open,**
 12 **sir.**
 13 **BY MR. TILLERY:**
 14 **Q. All right. And this is another**
 15 **Syngenta document. For the record it's**
 16 **Syngenta-PQ-02508227.**
 17 A. Okay.
 18 **Q. And this is a May 12th, 1971 document**
 19 **and it's to R.D. Wessel, Manager of Research and**
 20 **Development, Chevron Chemical Company in Richmond,**
 21 **California. And it's signed by Mr. N. Wright, and I**
 22 **believe that is of ICI. Can you verify who**
 23 **N. Wright was at the time?**
 24 A. I am not familiar with who Mr. Wright

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1 was or -- Mr. Wright, yeah, I'm not familiar with
 2 that person.
 3 **Q. All right. And then on the inside on**
 4 **the front page alongside Mr. Wessel's inside address**
 5 **there's a reference to Mr. Ian D. Bruce, ICI**
 6 **America.**
 7 A. I see that.
 8 **Q. That must have been a person who was in**
 9 **the United States working for ICI in the**
 10 **American-affiliated company, correct?**
 11 A. That's how it would be that.
 12 **Q. All right. And then there's a Dr. J.T.**
 13 **Braunholtz at PPL. What was PPL at that time?**
 14 A. I believe it stood for Ag Protection
 15 Limited.
 16 **Q. Okay. Now, the only reason I**
 17 **referenced this is a couple of things. If you look**
 18 **at the second paragraph, middle of the second**
 19 **paragraph, Mr. Wright was discussing with Mr. Wessel**
 20 **the subacute human exposure of paraquat, and he**
 21 **indicated, "One realizes only too well that farmers**
 22 **do not invariably follow label directions, even --**
 23 **but even in the worst circumstances, it is hard to**
 24 **believe that more exposure occurs than the**

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1 occasional splash of concentrate and that farmers do
2 not wash themselves at least once a day."
3 Do you see that?
4 A. I see that.
5 Q. How long has Syngenta or its corporate
6 predecessor been aware of the fact that farmers
7 don't always follow label directions?
8 A. If it – if it's all right, sir, I'd
9 like to read the paragraphs around it.
10 Q. You read the whole letter. Take your
11 time and tell me when you're ready to talk about it.
12 A. Yes, sir. Okay, sir, I'm ready for
13 your first question. If you could just restate it
14 to make sure I answer it correctly.
15 Q. Right. I referenced the sentence that
16 said, "One realizes only too well that farmers do
17 not invariably follow label instructions," that
18 sentence.
19 A. Yes, sir.
20 Q. All right. How long has Syngenta or
21 its corporate predecessors been aware of that fact?
22 A. My view on that is I'm not necessarily
23 sure that that's a fact so much as Mr. Wright's
24 opinion on the situation. I'm not sure if there's

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1 any studies or any documentation that would quantify
2 how often growers use the labels. We certainly
3 encourage it.
4 Q. And if you go to page 2 of that
5 May 12th, 1971 letter.
6 A. Okay, sir.
7 Q. Last paragraph and just read that.
8 A. Okay. Okay. I have read that, sir.
9 Q. And does he state there, "The rapid
10 rate of excretion of paraquat, which has been
11 studied and discussed on many occasions in the past,
12 the monitoring of urinary levels in paraquat feeding
13 experiments and other biochemical studies all point
14 to the fact that paraquat is not stored in the
15 body?"
16 A. That's what it stated there, yes, sir.
17 Q. Do you know yourself whether or not
18 paraquat is stored in the body?
19 MR. WEIR: Object to the foundation.
20 Outside the scope as well.
21 MR. TILLERY: Actually, I'll withdraw
22 it. There's no problem. Let's go to Exhibit 25.
23 (Exhibit 25 was identified for
24 the record.)

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1 THE WITNESS: Okay. I have the exhibit
2 open, sir.
3 BY MR. TILLERY:
4 Q. Would you familiarize yourself with
5 that exhibit?
6 A. Yes, sir. Okay, sir, I've scanned it.
7 I didn't read every line but I scanned it. I think
8 I can answer your questions.
9 Q. All right. Syngenta's involvement with
10 Chevron's labels continued through the 1970s,
11 according to this, didn't it?
12 A. It does.
13 Q. These are notes from ICI concerning a
14 February 27, 1974 meeting with Chevron concerning
15 proposed label changes, right?
16 A. That's correct.
17 Q. One of the bases of concern that is
18 noted here is the number of reports of toxicological
19 effects of paraquat to applicators in the field,
20 right?
21 A. I see that.
22 Q. That's under "Basis of concern (a)."
23 Do you see that?
24 A. Yes, sir.

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1 Q. And under (b) it says, "General growing
2 concern amongst California State Officials brought
3 about by (a) together with fatal poisoning incidents
4 (by swallowing) and drift damage," correct?
5 A. Correct.
6 Q. And then if you go to (e), it says, "If
7 incidents with paraquat continue, it is believed
8 that officials may recommend Glyphosate when this is
9 registered," right?
10 A. I see that, yes.
11 Q. Okay. And the notes then discuss
12 proposed label changes, don't they?
13 A. Yes.
14 Q. And it also mentions that Chevron was
15 looking at the studies on the application of
16 paraquat by sprayers, right?
17 A. I believe I saw that as I scanned it.
18 Q. That's on page 2, sir. Under Roman
19 numeral (viii).
20 A. Okay. I see that, yes, "operator
21 exposure trials."
22 Q. Okay. And the last sentence reflects
23 ICI's concern about adding language concerning
24 goggles and respirator use to the label, right?

41 (Pages 411 to 414)

<p>Page 415</p> <p>1 A. Correct.</p> <p>2 Q. ICI told Chevron they didn't believe</p> <p>3 that a label warning about using goggles and a</p> <p>4 respirator while spraying was necessary; is that</p> <p>5 correct?</p> <p>6 MR. WEIR: I'll object to the form.</p> <p>7 THE WITNESS: Sir, can you help me with</p> <p>8 the sentence? I'm reading here where it says,</p> <p>9 "regard this study as an alternative to the need to</p> <p>10 insert 'wear goggles and respirator.'" Is that the</p> <p>11 sentence that you're questioning on?</p> <p>12 BY MR. TILLERY:</p> <p>13 Q. Yeah, let me see if I can find it for</p> <p>14 you. If you go to "Proposed Label Changes."</p> <p>15 A. Okay.</p> <p>16 Q. Under the second paragraph.</p> <p>17 A. Okay.</p> <p>18 Q. And it says, "I felt," and the person</p> <p>19 here who's speaking is A. Calderbank, right?</p> <p>20 A. Correct.</p> <p>21 Q. And this is a person who works for ICI,</p> <p>22 correct?</p> <p>23 A. Yes, sir.</p> <p>24 Q. All right. And he said, "I felt this</p>	<p>Page 417</p> <p>1 BY MR. TILLERY:</p> <p>2 Q. Okay. Okay. Let's go to number 26.</p> <p>3 (Exhibit 26 was identified for</p> <p>4 the record.)</p> <p>5 THE WITNESS: Okay, sir, I have the</p> <p>6 document open.</p> <p>7 BY MR. TILLERY:</p> <p>8 Q. This is Syngenta-PQ-13119252. Do you</p> <p>9 see that?</p> <p>10 A. I see that.</p> <p>11 Q. And at the top of that document it says</p> <p>12 "Dr. Swan" in handwriting, right?</p> <p>13 A. Yes, sir.</p> <p>14 Q. And it says, "Notes on Discussions with</p> <p>15 Chevron San Francisco, March 28 and 29th, 1974,</p> <p>16 Paraquat Label," right?</p> <p>17 A. Correct.</p> <p>18 Q. "Present for formal discussions on the</p> <p>19 Ortho Paraquat label were," and then it lists a</p> <p>20 large number of people from Chevron. It lists one</p> <p>21 person from Industrial Bio Test Laboratories,</p> <p>22 correct?</p> <p>23 A. Correct.</p> <p>24 Q. So there was a Dr. Florence Kinashita</p>
<p>Page 416</p> <p>1 recommendation on the U.S. paraquat label might have</p> <p>2 repercussions on our markets outside the United</p> <p>3 States and promised to let Chevron have PPL and IHRL</p> <p>4 comments before March 11th. However, it seems</p> <p>5 unlikely that Chevron could be persuaded that this</p> <p>6 precaution is unnecessary - even if the only</p> <p>7 justification is political. Chevron believed this</p> <p>8 added precaution would not inhibit sales in the</p> <p>9 United States."</p> <p>10 Do you see that?</p> <p>11 A. I do.</p> <p>12 Q. Was the additional precautions always</p> <p>13 viewed in the context of what impact it might have</p> <p>14 on sales?</p> <p>15 MR. WEIR: Object to the form.</p> <p>16 Foundation.</p> <p>17 THE WITNESS: As I read this, sir, my</p> <p>18 interpretation of it is that obviously a company</p> <p>19 that's selling a product in regions would think</p> <p>20 about the implications of changes in one region</p> <p>21 versus another, so this is certainly what</p> <p>22 Mr. Calderbank is speculating. I'm not sure that it</p> <p>23 was the company's position, but certainly it was his</p> <p>24 view on it.</p>	<p>Page 418</p> <p>1 from IBT, right?</p> <p>2 A. Correct.</p> <p>3 Q. And there was an IHRL representative,</p> <p>4 Dr. K. Fletcher. And there was a PPL</p> <p>5 representative, two of them, Jenkins and Schumacher,</p> <p>6 right?</p> <p>7 A. Correct.</p> <p>8 Q. Would you take a moment to familiarize</p> <p>9 yourself with that particular document?</p> <p>10 A. Okay. Okay, Mr. Tillery.</p> <p>11 Q. Okay. Now, if we can, if you'd go to</p> <p>12 the page 2 of the document.</p> <p>13 A. Okay.</p> <p>14 Q. And if you go to the fourth paragraph</p> <p>15 that says "it was agreed" and read that, please.</p> <p>16 A. Okay. Okay, sir.</p> <p>17 Q. So it says in that paragraph, "it was</p> <p>18 agreed that the label should give prominence to</p> <p>19 precautions for avoiding or reducing hazard; and</p> <p>20 that it was important that it should carry helpful</p> <p>21 and constructive advice on how to avoid getting" –</p> <p>22 "creating a spray mist. Nevertheless, it was argued</p> <p>23 that some workers would work in a spray mist and the</p> <p>24 label should be worded so that Chevron could resist</p>

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1 claims for industrial injury (however slight) in
2 such instances. (Such a case might come about if
3 the guidance on how to avoid creating a spray mist
4 were thought by a court to be not sufficiently
5 clear.) Before the point was conceded by PPL,
6 Dr. Fletcher confirmed in answer to a direct
7 question that IHRL had no experimental evidence to
8 support the contention that there is no chronic
9 effect from continual exposure to spray mist at
10 subacute effect levels."
11 Do you see that?
12 A. I see that.
13 Q. And do you see in the margin where it
14 says, "i.e."?
15 A. I see the, i.e., yes.
16 Q. And it then it says, "We have no" --
17 "We have done no long-term inhalation studies."
18 Does that appear to be what it says?
19 A. That appears to be what it says.
20 Q. Okay. And then if you skip down one
21 paragraph, it says, "it was agreed that the use
22 instructions should be removed to the existing
23 separate leaflet already packed with each bottle and
24 the label should carry only the product name,

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1 legally required data, and panels covering Dangers,
2 First Aid, and Precautions. There were some
3 difficulties with language. 'Respirator' in
4 American can be very light protection, whereas
5 'mask' can mean to some a gas mask," correct?
6 A. Yes, I'd like to read that paragraph
7 again one more time just to make sure I can really
8 understand what he's saying there about what's going
9 to be on the container.
10 Q. Okay. Go ahead, please, read it.
11 A. Okay.
12 Q. And then if you go to the last page of
13 the document.
14 A. Okay.
15 Q. Number 14.
16 A. Okay.
17 Q. "I said to Carl Tanner 'How about
18 putting "manufactured by ICI" on the label.' He
19 said, 'Sure, for a price.' The topic was not
20 pursued."
21 What is the significance of that, if
22 you know?
23 A. I have absolutely no idea what they're
24 referencing there.

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1 Q. All right. Okay. Let's go to
2 number 27.
3 (Exhibit 27 was identified for
4 the record.)
5 THE WITNESS: Okay.
6 BY MR. TILLERY:
7 Q. This is a CUSA document, CUSA-00341060,
8 March 29, 1974, meeting report regarding paraquat
9 label revision. Upper right-hand corner it's got
10 "152.31 pg," and then a handwritten note, "R.D.
11 Cavalli," on the upper left-hand corner, correct?
12 A. Correct.
13 Q. All right. And then if you go to
14 the -- under "History and Background," the second
15 paragraph, it says, "Our present label has been
16 severely criticized as being inadequate in that the
17 instructions are not clear and can be
18 misinterpreted."
19 Do you see that?
20 A. I see that.
21 Q. Okay. And if you go to the third page.
22 This is a set of minutes recorded by F.X. Kamienski.
23 Do you know who that was?
24 A. I do not.

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1 Q. So these are obviously Chevron notes,
2 correct?
3 A. Yes, I would assume. It's on their
4 letterhead, so I would assume that's their notes.
5 Q. If you look at the front page, it was a
6 meeting that was held March 28th and 29th with ICI
7 to discuss proposed label changes for paraquat?
8 A. I see that, yes.
9 Q. And it lists all the people who were
10 present at the meeting, correct?
11 A. Correct.
12 Q. And then if you look under "Legal" it
13 says, "Doppelt," who apparently was a lawyer,
14 "pointed out that the evidence available to the
15 regulatory agencies implicating Paraquat to be
16 hazardous, even though not scientific, is legally
17 dangerous and admissible as court evidence. Searle
18 and Doppelt felt there were many shortcomings in our
19 present label which would be difficult to defend in
20 a court of law. The punitive aspects of liability
21 are not favorable at the present time. They felt
22 that preventive measures in the form of stricter
23 label recommendations were the best course of
24 action."

43 (Pages 419 to 422)

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1 Did I get that right?

2 A. Yes.

3 Q. All right. If you go to the next page

4 under "Toxicology" it says there, "It was felt that

5 the lack of chronic inhalation toxicity information

6 and epidemiological surveys were a definite weakness

7 in properly evaluating the safety of Paraquat use or

8 properly defending the safety of Paraquat. ICI

9 indicated that the worker-hazard study now in

10 progress in Ireland would aid in evaluating the

11 potential hazard to Paraquat users. Dr. Fletcher

12 felt confident that the Ireland study would

13 demonstrate that Paraquat is safe and minimal

14 amounts are absorbed by workers after prolonged use

15 usage"; is that correct?

16 A. That's correct.

17 Q. Did you ever become aware of the

18 results of the Irish studies?

19 A. I do not have any recollection of ever

20 seeing the Irish studies.

21 Q. Okay. If you go to the next one under

22 "ICI," the next paragraph midway down, "They pointed

23 out that respirator and goggles need not be worn at

24 all times when spraying as outlined in Chevron's

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1 the concentrate mixing warnings and spray

2 application warnings, in other words, focused on the

3 warning labels.

4 A. I notice it mentions a supplemental

5 pamphlet for use. Is that also part of this or?

6 Q. It's certainly not attached to this

7 warning.

8 A. Okay.

9 Q. I don't think you have it. If you go

10 through, I think you just have two pages.

11 A. I just have two pages, yes, sir. Okay.

12 I think I can try to answer your questions.

13 Q. All right. The label requires a new

14 requirement -- strike that.

15 The label includes a new requirement of

16 wearing a full face shield when handling

17 concentrate, correct?

18 A. It does say that, yes.

19 Q. And it says, "Concentrate/Mixing. Wear

20 a full face shield, rubber gloves, and apron when

21 handling concentrate."

22 A. Yes, concentrate/mixing method, yes,

23 that's what that says, yes.

24 Q. Label includes a new requirement of "if

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1 proposed label revision," correct?

2 A. I see that, yes.

3 Q. Okay. And was that what ICI pointed

4 out, as far as you could tell?

5 A. (Reading.) It appears that's

6 summarized in ICI's position, so I would assume

7 that's what -- who was making the recommendation

8 there.

9 Q. Okay. So let's go to the 1974 Ortho

10 Paraquat CL label which is Exhibit Number 28.

11 (Exhibit 28 was identified for

12 the record.)

13 BY MR. TILLERY:

14 Q. And see if you can recognize this as

15 one that you might have reviewed in preparation for

16 the deposition.

17 A. I'm not sure that this is one I've

18 actually reviewed. I don't believe it is.

19 Q. Why don't you take a second and look at

20 this.

21 A. Yes, sir.

22 Q. I have a couple of questions about it.

23 A. Okay.

24 Q. And I think my questions are focused on

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1 there's a risk of exposure wear goggles and approved

2 face mask capable of filtering spray droplets when

3 spraying."

4 A. I see that.

5 Q. Okay. Was this the first time they

6 ever included a reference to any kind of approved

7 face mask, to your knowledge?

8 A. Different than the face shield. Yes, I

9 mean, this is the oldest label I've looked at and

10 the first one we looked at didn't have that. This

11 has it, so my assumption is this would be the first

12 time it's on there. But I only have for reference

13 the other label you showed me as well as this one.

14 Q. All right. And then under "Spray

15 Application," it says, "Avoid working in spray

16 mist."

17 Do you see that, sir?

18 A. I do see that.

19 Q. All right. It says, "If there is a

20 risk of exposure to wear goggles and approved face

21 mask capable of filtering spray droplets."

22 A. I see that.

23 Q. In 1974, do you know how most farmer

24 applicators could avoid working in paraquat spray

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1 **mist when they were applying?**
 2 MR. WEIR: Object to the foundation and
 3 the scope.
 4 THE WITNESS: Not necessarily specific
 5 to any one time frame. But the application
 6 equipment that would have been used, if it was a
 7 traditional ground boom type of equipment, you would
 8 have less of a potential of generating spray mist
 9 than if it was a piece of application equipment that
 10 may have been used called an air blast.
 11 Air-blast equipment creates a -- more
 12 of a cloud that it pushes out. However, it's very
 13 unusual and unlikely to use that with a
 14 non-selective herbicide because you would run the
 15 risk of killing desired vegetation as well. So only
 16 knowing the type of application equipment, some
 17 equipment you have much less of a chance of coming
 18 into a contact with the spray than you would with
 19 others.
 20 BY MR. TILLERY:
 21 Q. Okay. Now let's go to the Gramoxone
 22 paraquat label, and this is Exhibit Number 29.
 23 (Exhibit 29 was identified for
 24 the record.)

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1 THE WITNESS: Okay. I see the letter,
 2 sir.
 3 BY MR. TILLERY:
 4 Q. It should be a letter, and then if you
 5 go behind it there's the content.
 6 A. Okay.
 7 Q. And if we go to page 20, if you could
 8 just go to page 20, I think that will get us
 9 directly to the safety.
 10 A. Okay.
 11 Q. And this may be difficult for you to
 12 read.
 13 A. I'll do the best I can.
 14 Q. Actually, it may be so difficult. If
 15 you'd skip back to 17, sorry. Let's see if that
 16 helps you.
 17 A. Yes, that's quite a bit more legible.
 18 Q. Yeah, if you can ...
 19 A. Okay, sir.
 20 Q. All right. And the first warning says
 21 "Wash splashes from skin and eyes," right?
 22 A. Correct.
 23 Q. Do you know what hazard that warning
 24 language is warning against?

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1 A. Certainly if -- prolonged contact of
 2 paraquat concentrate has the potential to cause
 3 dermal irritation and potentially burns, and then if
 4 you were to get a product like paraquat into your
 5 eyes, if you can wash it immediately, you have a
 6 much less chance of an injury than if you were to
 7 delay getting corrective measures.
 8 Q. Do you know what human health risk
 9 would be implicated in getting it on your skin or in
 10 your eyes?
 11 A. With respect to human health risk, in
 12 the case of skin, you could end up with some dermal
 13 burns. With eyes you could have potential damage
 14 over time. I'm not a medical expert, but my
 15 understanding is it can lead to some significant
 16 injury to the eye if it -- prolonged uncorrected
 17 exposure happens.
 18 Q. Okay. The next warning says, "Remove
 19 and wash contaminated clothing." Do you see that?
 20 A. I do.
 21 Q. All right. Do you know what the hazard
 22 was that was warned against by that particular
 23 language?
 24 A. That is on almost pesticide products,

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1 and it's designed to prevent prolonged dermal
 2 exposure that could happen from a user who were to
 3 get a spill on to their clothing but continue to
 4 work and have a longer exposure than if they
 5 correct -- you know, cleaned it up and corrected it.
 6 Q. Was there any particular human health
 7 risk that was contemplated by removing and washing
 8 contaminated clothing?
 9 A. I think, and I may not be 100 percent
 10 accurate in my recollection, sir, but I think at
 11 this point this is standard label requirements from
 12 EPA that would have been potentially dictated by the
 13 acute tox, so when a category has a certain
 14 classification, these would be the mandated
 15 statements on products.
 16 Q. But there wasn't anything in particular
 17 at that time, as far as you know, about the chemical
 18 that prompted this language?
 19 A. Correct. To my knowledge, this isn't
 20 paraquat specific but more in line with what's
 21 required for general worker-protection-type language
 22 around pesticide products.
 23 Q. All right. And the same with respect
 24 to wash before eating, smoking, and drinking?

<p style="text-align: right;">Page 431</p> <p>1 A. Correct.</p> <p>2 Q. Is that the same category?</p> <p>3 A. I believe so. But I've seen very</p> <p>4 similar statements on almost every pesticide product</p> <p>5 label. You know, one of the concerns there is, you</p> <p>6 know, somebody who may have gone to the bathroom,</p> <p>7 for example, and they did not wash their hands after</p> <p>8 handling the product, so it's designed to minimize</p> <p>9 inadvertent exposures that way.</p> <p>10 Q. Got it. Okay. The next warning</p> <p>11 applies to concentrate and mixing and it says, "Wear</p> <p>12 full face shield, rubber gloves, and apron when</p> <p>13 handling or mixing concentrate."</p> <p>14 What is the hazard that this warning is</p> <p>15 warning against, to your knowledge?</p> <p>16 A. The full face shield is trying to</p> <p>17 prevent exposure to eye, nose, or mouth from</p> <p>18 droplets that could occur from splashes, for</p> <p>19 example, if somebody were to be engaged in mixing</p> <p>20 and loading activities.</p> <p>21 Q. Okay. The next one says, "Avoid</p> <p>22 working in spray mist. If there's a risk of</p> <p>23 exposure, wear goggles and a full face mask capable</p> <p>24 of filtering spray droplets."</p>	<p style="text-align: right;">Page 433</p> <p>1 Q. All right. So in the spray mist</p> <p>2 situation in terms of that warning language, what</p> <p>3 very specific human health risk or hazard was being</p> <p>4 warned against, as far as you know?</p> <p>5 A. My read of that would be they were</p> <p>6 trying to prevent oral absorption.</p> <p>7 Q. And oral absorption could or might</p> <p>8 result in what kind of problem that was being warned</p> <p>9 against?</p> <p>10 A. I did not necessarily know the specific</p> <p>11 tox problem that it would be trying to get to. In</p> <p>12 general, when you register a product you do acute</p> <p>13 oral toxicity testing which establishes oral LD50s,</p> <p>14 and so those are based upon negative tox impacts</p> <p>15 that are given from oral dosing studies.</p> <p>16 So my assumption looking at this</p> <p>17 without knowing the absolute rationale that went</p> <p>18 into that statement is they were trying to prevent</p> <p>19 paraquat entering into the bloodstream and through</p> <p>20 oral absorption.</p> <p>21 Q. And what your concern -- what you would</p> <p>22 be concerned about is that it might get into the</p> <p>23 back of the mouth and then somehow get into the</p> <p>24 bloodstream?</p>
<p style="text-align: right;">Page 432</p> <p>1 Do you know what hazard this warning is</p> <p>2 warning against?</p> <p>3 A. As I -- the goggles is obviously to</p> <p>4 protect the eyes, and with respect to the face</p> <p>5 mask -- face mask, it's trying to prevent droplets</p> <p>6 from entering the nasal or the mouth area. In the</p> <p>7 case of nasal exposure, you could have nasal</p> <p>8 irritation, potential nosebleeds.</p> <p>9 Obviously, paraquat products, if the</p> <p>10 concentrate were to -- and in this case it's talking</p> <p>11 about the application mixture which is more diluted,</p> <p>12 oral hazard from paraquat is significant if it's a</p> <p>13 concentrated product.</p> <p>14 Q. And -- and the oral hazard meaning</p> <p>15 droplets getting into the body and from that the</p> <p>16 application, right?</p> <p>17 A. You know, when the face shields have</p> <p>18 been required and -- it's really trying to prevent</p> <p>19 the more of the concentrated product getting into</p> <p>20 the mouth. This case they're saying it in the case</p> <p>21 of trying to avoid the spray mist getting into the</p> <p>22 mouth.</p> <p>23 Q. Okay.</p> <p>24 A. That's in the application section.</p>	<p style="text-align: right;">Page 434</p> <p>1 A. Yeah, certainly as I read that, it</p> <p>2 seems the intention is trying to prevent the</p> <p>3 material getting into the facial area which would be</p> <p>4 the routes of -- portals of entry would be eye,</p> <p>5 nose, mouth, and so trying to prevent it from</p> <p>6 entering those areas with that.</p> <p>7 Q. And do you know what beyond that once</p> <p>8 it entered the bloodstream, what human health hazard</p> <p>9 this warning would be protecting against?</p> <p>10 MR. WEIR: Object to form.</p> <p>11 THE WITNESS: I'm sorry. I do not.</p> <p>12 BY MR. TILLERY:</p> <p>13 Q. If a person called Greensboro and</p> <p>14 talked to Syngenta Crop Protection, LLC, employees</p> <p>15 and asked very specifically based on this warning,</p> <p>16 "Hey, what would this stuff do to me? What might it</p> <p>17 do to cause me harm if I don't wear a face mask?"</p> <p>18 What would, to your understanding, the answer be to</p> <p>19 that person?</p> <p>20 MR. WEIR: I'll object to the scope.</p> <p>21 THE WITNESS: So from my understanding</p> <p>22 the biggest concern would be the oral absorption</p> <p>23 because paraquat is known to, when you have</p> <p>24 significant oral absorption of the molecule, to</p>

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1 result in very severe health consequences.
 2 BY MR. TILLERY:
 3 Q. You're talking about – you're talking
 4 about poison?
 5 A. Poisoning, yes, sir.
 6 Q. All right. And that poisoning is the
 7 same type of poisoning that appears in some of these
 8 spreadsheets and databases that we're talking about,
 9 right?
 10 A. Correct, sir.
 11 Q. All right. The next warning says,
 12 "Wear waterproof footwear and clothing when spraying
 13 or when contacting vegetation wet with spray."
 14 Do you see that?
 15 A. I do.
 16 Q. What was the hazard that this warning
 17 is warning against, the human health risk?
 18 A. Dermal absorption or dermal contact
 19 potentially which could lead to -- prolonged contact
 20 could lead to skin abrasion, skin injury, and
 21 potentially you could have some absorption through
 22 those routes.
 23 Q. Okay. Would you agree with me that
 24 none of these warnings that we've just gone through

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1 were designed to warn against the neurotoxic effects
 2 of paraquat?
 3 A. My -- my answer on that, Mr. Tillery,
 4 is that, you know, these warnings are designed to
 5 prevent the exposures. I don't believe there was
 6 any belief that there were neurotoxic effects, so
 7 they wouldn't be warning against something they
 8 don't believe was a risk.
 9 Q. So you would agree with my statement
 10 that none of the warnings were designed to warn
 11 against the neurotoxic effects of paraquat, correct?
 12 A. I think I would say it as -- as I said,
 13 is that there was not an understanding or certainly
 14 I don't believe there was an understanding there was
 15 neurotoxic effects, so they would not be writing
 16 warnings for something they did not believe was a
 17 hazard.
 18 Q. Okay. I'm trying to look for more
 19 direct answer to my question though. Whether or not
 20 Syngenta believed, Chevron believed, or they didn't
 21 believe, or they had information to believe, or
 22 didn't have information to believe -- okay? -- would
 23 you agree that as these warnings appeared on a
 24 paraquat product, none of them were designed to warn

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1 against a -- the neurotoxic effects or potential
 2 neurotoxic effects of paraquat?
 3 MR. WEIR: Object. Asked and answered.
 4 THE WITNESS: I'm sorry, Tom, I didn't
 5 understand that.
 6 MR. WEIR: You can go ahead and answer,
 7 Monty.
 8 THE WITNESS: Okay. Thank you.
 9 These statements I -- as written, sir,
 10 I do not believe were targeted to any neurotoxic
 11 effects.
 12 BY MR. TILLERY:
 13 Q. Okay. None of the warnings as written
 14 were designed to warn against the risk of getting
 15 Parkinson's disease from using paraquat, were they?
 16 A. I do not believe the way those warnings
 17 are structured there was any -- any statement there
 18 that was directed towards Parkinson's disease.
 19 Q. Okay. Since paraquat was first sold in
 20 the United States in the mid 1960s up until today's
 21 date, has any warning on any label warned against
 22 the neurotoxic effects of paraquat, to your
 23 knowledge?
 24 A. To my knowledge, there are no U.S.

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1 labels that make any warnings -- that our paraquat
 2 products make any warnings about neurotoxic effects.
 3 Q. Okay. Since paraquat was first sold in
 4 the United States in the mid 1960s up until today's
 5 date, has there ever been a warning label on any
 6 paraquat product, to your knowledge, warning against
 7 the risk of getting Parkinson's disease from using
 8 paraquat?
 9 A. To my knowledge, there are no U.S.
 10 labels that have ever addressed Parkinson's disease
 11 with paraquat that I'm aware of.
 12 Q. Has Syngenta ever warned users of
 13 paraquat about any long-term chronic effects from
 14 the exposure to paraquat?
 15 A. From a U.S. perspective, I am not aware
 16 of there ever being any such statements.
 17 Q. Okay. Let's go to number 30. And
 18 this, for the record, is Syngenta-PQ-13120361.
 19 (Exhibit 30 was identified for
 20 the record.)
 21 THE WITNESS: I have the document open,
 22 sir.
 23 BY MR. TILLERY:
 24 Q. And can you tell me what this document

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1 is?

2 A. So it appears to be a confidential

3 email written from Mr. Willis of ICI to Mr. Hughes,

4 Northcott, and Slade. I'm not sure who "P&BSG" are.

5 So it appears to be a document that addresses

6 labeling, and it appears that there's some legal

7 ramifications because of the term "plaintiffs" in

8 here, so it looks like it's a label change as a

9 result of a lawsuit.

10 Q. And it says, "Paraquat Labeling: USA,"

11 and in the first page it says, "This is further to

12 our discussion with David Walker last Friday,"

13 right?

14 A. Correct.

15 Q. And it says, "Chevron has obtained

16 EPA's approval for detailed wording changes to the

17 Ortho Paraquat CL labeling."

18 A. Correct.

19 Q. "This note sets out the details of the

20 proposed changes, the background to them, and the

21 comments which I fed into the system on them,"

22 right?

23 A. It says that, yes.

24 Q. "The proposed changes stem from the

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1 recent Ferebee lawsuit. In that action the

2 plaintiffs argued, and Chevron replied, along the

3 following lines," and then I won't go through this,

4 but it lays out the plaintiffs' position, Chevron's

5 position, et cetera, right?

6 A. Yes, sir.

7 Q. And if we go to the next page, okay –

8 actually the third page.

9 A. Okay.

10 Q. There's a paragraph number 3, second

11 sentence. It says, "At the technical level I was

12 not very happy because there was no practical

13 problem with dermal or inhalational poisoning when

14 the product was used as recommended in accordance

15 with normal standards of good agricultural

16 practice."

17 Do you see that?

18 A. I do.

19 Q. Was this in reference to a proposal to

20 use a respirator or some other type of mask?

21 A. I would need to read the document more

22 to be able to –

23 Q. You know, given our time constraints

24 I'm just going to direct you to the last words on

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1 that page.

2 A. Okay.

3 Q. And where it says, "However, we have

4 always been."

5 A. I can --

6 Q. Go to the last paragraph, if you

7 wouldn't mind.

8 A. Okay.

9 Q. And does it say, the carryover

10 language, "However -- however we have always been

11 able to explain away the differences on the basis of

12 the specific and unreasonable requirements of the

13 U.S. system although the recent changes will make

14 that more difficult. Those changes do not alter the

15 overall appearance of the label and they are likely

16 to go unnoticed by all those who have a specific

17 effort to compare the old and new texts in detail."

18 Do you see that?

19 A. I do.

20 Q. So was the effort here to try to create

21 a label that satisfied legal concerns but which was

22 simply designed such that any changes would not be

23 noticed and read with the user?

24 MR. WEIR: Object to the form and the

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1 foundation.

2 THE WITNESS: I'm just reading the

3 sentence again, sir. I'll be answering in a second.

4 It appears what they're trying to do

5 here is to make a label change that will not impact

6 the overall use of the product, so it does appear

7 that that's the intent here is that they feel like

8 they have to make a change with respect to the U.S.

9 labeling, but they're hoping the change will not

10 impact the use in other areas.

11 BY MR. TILLERY:

12 Q. And that it won't be noticeable, right?

13 A. They -- they certainly say here they

14 are likely to go unnoticed.

15 Q. Would you say that the interpretation I

16 give is reasonable of that sentence?

17 A. Would you give me your interpretation

18 again just to make sure I address it correctly?

19 Q. Right. That the changes that are being

20 proposed could be handled such that they do not

21 alter the overall appearance of the label and are

22 likely to go unnoticed by all but those who make a

23 specific effort to compare the old and new texts in

24 detail?

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<p style="text-align: right;">Page 443</p> <p>1 A. That's what the document says, sir.</p> <p>2 Q. All right. And Chevron had proposed</p> <p>3 doing something which caused ICI a great deal of</p> <p>4 stress at that time. If you'd read the next</p> <p>5 paragraph. If you can confirm this.</p> <p>6 A. Okay, sir.</p> <p>7 Q. One act that Chevron had proposed which</p> <p>8 Mr. Willis, who wrote this email, objected strongly</p> <p>9 to was to circulate a letter to distributors drawing</p> <p>10 attention to the changes, correct?</p> <p>11 A. That's what's in this paragraph.</p> <p>12 Q. And he says in the last sentence –</p> <p>13 well, he says in the next sentence, "That letter is</p> <p>14 certain to find its way into various overseas</p> <p>15 markets, as we found when we circulated a letter in</p> <p>16 1977 announcing the withdrawal of bupirimate from</p> <p>17 U.S. development. I believe that without such a</p> <p>18 letter the label changes would pass mainly</p> <p>19 unnoticed. However I understand that Chevron's</p> <p>20 lawyers deemed circulation of the letter to be</p> <p>21 mandatory to meet the legal obligations."</p> <p>22 So Chevron was doing it because they</p> <p>23 thought it was being done to meet legal obligations</p> <p>24 to protect themselves, right?</p>	<p style="text-align: right;">Page 445</p> <p>1 THE VIDEOGRAPHER: We're going off the</p> <p>2 record. The time is 1:30. This ends Media Unit</p> <p>3 Number 4.</p> <p>4 (Recess taken.)</p> <p>5 THE VIDEOGRAPHER: We're going back on</p> <p>6 the record. The time is 1:49. This begins media</p> <p>7 number 5.</p> <p>8 BY MR. TILLERY:</p> <p>9 Q. Do you know when the first competitor</p> <p>10 to Syngenta and Gramoxone or paraquat products came</p> <p>11 on the scene in the United States?</p> <p>12 A. Mr. Tillery, my first knowledge is</p> <p>13 around 2000, there was a company called Griffin, I</p> <p>14 believe it was, that had a product called Boa</p> <p>15 herbicide. But they ultimately -- I believe the</p> <p>16 agency canceled that.</p> <p>17 There may have been, although I'm not</p> <p>18 100 percent sure, but just doing research over the</p> <p>19 years I had seen where I believe Monsanto may have</p> <p>20 at one point had products with paraquat in them.</p> <p>21 I'm not 100 percent sure, but I believe that I have</p> <p>22 seen that in some of the data records in the NPIRS</p> <p>23 data system.</p> <p>24 Q. Let me revise my question and ask you</p>
<p style="text-align: right;">Page 444</p> <p>1 A. That's what is stated there, yes.</p> <p>2 Q. All right. And he then continues, "If</p> <p>3 we are to use senior level inputs to modify</p> <p>4 Chevron's behavior pattern in this whole matter, I</p> <p>5 would place a high priority in seeking to persuade</p> <p>6 them not to circulate any such note."</p> <p>7 Do you see that?</p> <p>8 A. I do.</p> <p>9 Q. And what he's saying is is that we need</p> <p>10 to go to the head of the company to call the other</p> <p>11 head of the company and say, "Don't do this,"</p> <p>12 correct?</p> <p>13 A. It certainly seems the intention is to</p> <p>14 persuade them not to circulate the note.</p> <p>15 Q. Now, let's go to Exhibit 31.</p> <p>16 A. Mr. Tillery, I know we're pushing here.</p> <p>17 In a minute would it be okay to take a biological</p> <p>18 break?</p> <p>19 Q. Absolutely. Take your time. How much</p> <p>20 time would you need, please?</p> <p>21 A. Could we do a five-minute bio break and</p> <p>22 then I have a brief call or a brief touch base with</p> <p>23 Tom on one issue.</p> <p>24 MR. TILLERY: Absolutely.</p>	<p style="text-align: right;">Page 446</p> <p>1 when was the first time that you saw a company that</p> <p>2 captured more than 5 percent of the market share –</p> <p>3 A. My assumption –</p> <p>4 Q. -- In selling paraquat products in the</p> <p>5 United States.</p> <p>6 A. Yes, sir. My assumption that would</p> <p>7 have been sometime probably after 2006 when we had</p> <p>8 Parazone and Firestorm on the market, and certainly</p> <p>9 in my time as a regulatory manager, those were the</p> <p>10 first competitor products that hit the market, so I</p> <p>11 would say it's been since 2006.</p> <p>12 Q. And do you know what their respective</p> <p>13 market shares were?</p> <p>14 A. I do not. I know over the last 10 or</p> <p>15 12 years there's been significant increase in other</p> <p>16 paraquat products on the market, and as a</p> <p>17 consequence I don't -- and I don't know the actual</p> <p>18 sales numbers or figures, but certainly I think the</p> <p>19 Syngenta market share has gone down with the</p> <p>20 introduction of more and more of these generic</p> <p>21 products.</p> <p>22 Q. Well, do you know what the market share</p> <p>23 was in 2006 for Syngenta's paraquat products?</p> <p>24 A. I do not have definitive knowledge. My</p>

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1 best estimate would be since we were the only
 2 registrant on the market, probably prior to 2005, we
 3 would have certainly been the very prominent share,
 4 I would say, the vast majority without trying to put
 5 a number to it. But I would guess being the only
 6 registrant, we would have -- up until 2006, we
 7 should have had the majority of the market.
 8 **Q. And after 2006, has Syngenta maintained**
 9 **a majority of the market?**
 10 A. I -- my understanding is that we no
 11 longer are the -- as a sole registrant, the majority
 12 share. I think our share has come down now. I
 13 don't know the exact market share number, but I
 14 think we're probably -- probably less than
 15 50 percent of the market share now.
 16 **Q. How many competitors do you have now in**
 17 **the United States?**
 18 A. Sir, I believe there's probably 22 to
 19 maybe 25 different products.
 20 **Q. By many -- sorry, go ahead, sir.**
 21 A. I was going to say most of those have
 22 come on -- have received registration probably in
 23 the last five to six years. But there is probably
 24 12 to 15 different registrants, maybe more that have

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1 those products. And as I mentioned, I think the
 2 number of products is greater than 20, probably less
 3 than 30 but closer to 30 than 20.
 4 **Q. Of those 20 to 30 products, how many**
 5 **companies are involved in the manufacture of them?**
 6 A. I don't have a specific number. I
 7 would guess as far as the actual manufacturer, not
 8 the sales and distribution, probably my best
 9 estimate would be 8 to 14.
 10 **Q. How many of them are in the United**
 11 **States?**
 12 A. The company themselves that are selling
 13 the product for the most part are in the U.S., their
 14 sources most likely, and where they would get their
 15 technical product would be outside of the U.S. The
 16 companies that -- just to kind of make sure my
 17 numbers are right thinking about it. There's Amvel
 18 [phonetic], there's Helm, there's Sinon. I guess I
 19 would probably waste our time, but there's a
 20 significant number of companies.
 21 **Q. And are these primarily located in**
 22 **China?**
 23 A. The actual companies I just mentioned,
 24 some of them are global. Many of them are U.S.

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1 based and they just bring in their material. They
 2 source their material from outside of the U.S. but
 3 they're actually U.S. companies with U.S.
 4 registrations.
 5 **Q. And do you know where the manufacturing**
 6 **plants are principally located for these companies**
 7 **where the active ingredient is made?**
 8 MR. WEIR: I'm going to object to the
 9 scope here.
 10 THE WITNESS: Mr. Tillery, I don't know
 11 specifically. I do know that there are some sources
 12 in China, which is where I would assume the majority
 13 come from.
 14 BY MR. TILLERY:
 15 **Q. Yeah.**
 16 A. But I don't know the actual specific
 17 locations or controls for all of them.
 18 **Q. Okay. Let's go to Exhibit 31.**
 19 **(Exhibit 31 was identified for**
 20 **the record.)**
 21 THE WITNESS: Okay. I have this, sir.
 22 BY MR. TILLERY:
 23 **Q. This is a label, and if you'd go to --**
 24 **I think it's -- this is Syngenta-PQ-13800146, 1986**

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1 Gramoxone Super label, okay?
 2 A. Yes, sir.
 3 **Q. And I think the information that you're**
 4 **going to want to look at is on page 3.**
 5 A. Okay. Okay. I have it open, sir.
 6 **Q. If you can look at that, and I hope**
 7 **it's big enough that you can read it.**
 8 A. I should be able to.
 9 **Q. All right. Thank you, sir.**
 10 A. End use product so ...
 11 **Q. And again I'm looking at the worker**
 12 **safety --**
 13 A. Okay.
 14 **Q. -- area.**
 15 A. I see that, yes, sir.
 16 **Q. General warnings.**
 17 A. Okay.
 18 **Q. And the first warning says, "Do not get**
 19 **on skin, eyes, clothing." Do you see that?**
 20 A. I do.
 21 **Q. And I don't know if we dealt with this**
 22 **exact same language, but to cover the same point in**
 23 **a way we did before, what hazard, if any, that was**
 24 **different was this warning guarding against?**

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1 A. I believe this is very consistent with
 2 the one we did before. This looks like
 3 precautionary language. It is protecting against
 4 skin, eyes, and clothing. Skin and clothing
 5 obviously would be dermal-related exposures. Eyes
 6 would be ocular exposures.

7 Q. Okay. So – and I don't want to run
 8 you through all these same questions. There's no
 9 reason to do that, okay? But if you wouldn't mind
 10 looking at these and tell me if there's any
 11 additional human health risks or hazards that you
 12 see from any different language and any warnings.

13 For example, the next warning says, "Do
 14 not inhale the spray mist," and we talked about that
 15 before, you know. Is that the same risk that we're
 16 guarding against that we discussed at length before?

17 A. I certainly would anticipate it. It
 18 does appear to be for the same -- same concerns.

19 Q. Okay. And the next one says, "Wash
 20 splashes from skin and eyes immediately."

21 A. Correct.

22 Q. Would your answer to the previous
 23 language in the prior warning be the same, your
 24 answer be the same?

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1 A. Yes, sir, Mr. Tillery.

2 Q. All right. And the next says, "Remove
 3 and wash contaminated clothing." We went over that
 4 at length. Is that the same risk that we talked
 5 about before?

6 A. It is.

7 Q. All right. And then it says, "Wash
 8 before eating, smoking, or drinking." That same
 9 language?

10 A. Correct, yes.

11 Q. Okay. And the next says, "Wear full
 12 face shield, rubber gloves, and apron when handling
 13 or mixing concentrate." I believe we covered that
 14 as well?

15 A. I believe so. I don't recall if the
 16 apron statement was on there before.

17 Q. Right. And maybe we should cover that
 18 to make sure we're complete. What, to your
 19 knowledge, would the inclusion of the apron be
 20 designed to warn or guard against?

21 A. It's a further protection against
 22 dermal exposure, so the apron would go over the
 23 outer clothing and so it creates a barrier against
 24 splashes or spills from a mixer and loader. And

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1 that's typically who would be asked to wear an apron
 2 would be mixer/loaders and not applicators.

3 Q. Okay. And the next one says, "Wear
 4 waterproof footwear and clothing when spraying or
 5 when contacting vegetation when it's wet with
 6 spray." Is that one we covered before?

7 A. It is.

8 Q. Okay. Would your answer be the same
 9 there?

10 A. It would.

11 Q. All right. Next, "Do not enter treated
 12 areas without protective clothing until sprays have
 13 dried," and that's new. What is it that – do you
 14 think that warning is guarding or warning against?

15 A. Against potential dermal exposure.
 16 Once the material is dried on the surface of plants,
 17 in particular knowing the binding properties of a
 18 molecule like paraquat, you wouldn't expect there to
 19 be exposure through brush-off or through contact.
 20 However, when the spray is wet, you certainly have a
 21 higher risk of potential transfer.

22 So that's – that's a relatively common
 23 statement on labels, but that's the concept behind
 24 that is to prevent a more probable transfer from

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1 contacting wet material.

2 Q. Okay. The next one says, "Avoid
 3 working in spray mist. If there's a risk of
 4 exposure wear goggles and approved face mask capable
 5 of filtering spray droplets."

6 Do you see that?

7 A. I do.

8 Q. Okay. And have we covered that in the
 9 past?

10 A. I believe we did.

11 Q. If we didn't, could you tell me what
 12 that warning was protecting or seeking to warn
 13 against in terms of human health risk?

14 A. So it would be warning against
 15 potential exposure through a couple of routes. One
 16 would be through the nasal cavity or through the
 17 mouth, if somebody were to breathe it in. And the
 18 goggles obviously would be trying to protect the
 19 eye. So it's trying to prevent those exposures
 20 which could lead to dermal or to absorption of
 21 the – of the active ingredient.

22 Q. Would the emetic be a – a product
 23 which if a person got enough of it into their mouth
 24 through the application procedure that the emetic

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1 could help guard against them in that process?
 2 MR. WEIR: Object to the foundation and
 3 the scope.
 4 BY MR. TILLERY:
 5 Q. Do you understand what I'm saying?
 6 A. I do, Mr. Tillery. My understanding of
 7 the role of the emetic is primarily if somebody were
 8 to drink the concentrated product. I do not have
 9 the awareness of what would be the implication of
 10 somebody being exposed to a much more dilute amount
 11 of the emetic, which is what you would see in a
 12 spray volume.
 13 So obviously as you put it into a spray
 14 tank and add the carrier volume, you would dilute
 15 the overall concentration. So I don't have
 16 knowledge on what level of dilution, what impact
 17 that would have on the effectiveness of the emetic.
 18 Q. Okay. You don't know whether it would
 19 work or not, right?
 20 A. I do not know, sir.
 21 Q. Okay. It would certainly be the hope
 22 that if you got enough of it in your system that the
 23 emetic would work to keep the person from becoming
 24 poisoned by having ingested it during the

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1 application process, right?
 2 A. That is the intention of the emetic
 3 that if somebody were to -- to have an unfortunate
 4 situation of an oral exposure that the emetic would
 5 cause the emesis, so you would certainly want it to
 6 have that effect.
 7 Q. And you'd want it to have that effect
 8 whether or not they intentionally drank concentrate
 9 or whether they were exposed to enough of it during
 10 application that it could hurt, right?
 11 MR. WEIR: Object to the scope again.
 12 THE WITNESS: And I think to answer
 13 that to the best of my ability, I'm not necessarily
 14 being an expert toxicologist is I think the whole
 15 concept and focus of the emetic is on the
 16 concentrate. I'm not sure that it's ever been
 17 viewed as a potential mitigant in spray solution,
 18 sir.
 19 BY MR. TILLERY:
 20 Q. Okay. The next warning says, "Keep all
 21 unprotected persons out of operating areas or
 22 vicinity where there might be danger of drift."
 23 Do you see that?
 24 A. I do see that.

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1 Q. That's a new warning, right?
 2 A. It is a new warning.
 3 Q. Okay. So we're talking about a year
 4 here for the first time of this of being 1986,
 5 right?
 6 A. Correct.
 7 Q. Okay. Now could you tell me what that
 8 hazard is that this is warning against?
 9 A. It appears to be warning against the
 10 potential for somebody to be exposed to a pesticide
 11 product that was being applied through potential
 12 drift of the application particles.
 13 Q. And what human health harm would that
 14 drift cause that this warning would protect against?
 15 A. One thing I'm not sure about on this
 16 particular warning, Mr. Tillery, is whether or not
 17 this is a standard precautionary statement that EPA
 18 has required or whether or not it was something that
 19 was put on specifically at the time by ICI.
 20 So I can speak in generality that if
 21 you're putting in a prohibition about avoiding
 22 drift, then you're trying to prevent dermal or
 23 inhalation exposure, is what I would think, to a
 24 bystander.

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1 Q. And if there was dermal exposure it
 2 would be to avoid some toxic effect from it getting
 3 into the bloodstream, right?
 4 A. That would be the most likely concern,
 5 epidermal exposure. You could have oral irritation
 6 or other, depending on the nature of the chemical.
 7 And that's where I'm not sure if this is a
 8 paraquat-specific statement that EPA may have
 9 required or was it a standard statement from the EPA
 10 precautionary language? I'm just not sure, sir.
 11 Q. All right. And if it were inhalation,
 12 what would the human health end point be that you'd
 13 be warning against?
 14 A. Well, traditionally if thinking about
 15 inhalation, and this is traditionally, not
 16 necessarily specific to paraquat, you -- the EPA
 17 does risk assessments for inhalation exposure
 18 compared to an inhalation tox end point, to use the
 19 term you used.
 20 In the case of paraquat when the
 21 respirators were required in 2000, and I recognize
 22 we're going here it was more mitigating nasal
 23 irritation, nasal exposure, so I'm not sure if
 24 that's directly answering your question.

<p>Page 459</p> <p>1 I recognize we're talking about the 2 '80s, but inhalation, when someone references an 3 inhalation end point or an Inhalation effect, it 4 could be very specific to an adverse effect being 5 driven by the lungs, or as we saw later with EPA, 6 they were trying to mitigate things such as nasal 7 irritation. 8 Q. And nasal irritation resulting in 9 perhaps nosebleeds, correct? 10 A. Perhaps nosebleeds, yes, sir. 11 Q. And as a matter of fact, that's 12 documentation -- strike that. 13 That's documented throughout these 14 references is nosebleeds, right? 15 A. Correct. 16 Q. And that's what these masks, these sort 17 of dust masks were really intended to guard against, 18 weren't they? 19 A. I certainly know from the 2000s forward 20 that was the intent of it. I believe that was the 21 intent here. My knowledge at this time frame is not 22 as good as it is for the 2000 where I was directly 23 involved with -- EPA had removed the requirement for 24 respirators in '97 and then reinstated in 2000, so</p>	<p>Page 461</p> <p>1 exposure -- 2 A. Correct. 3 Q. -- warnings, right? 4 A. Yes, sir. 5 Q. All right. None of them were designed 6 to warn against the risk of getting Parkinson's 7 disease, right? 8 A. That is not the intention of those 9 warnings. 10 Q. None of them were designed to warn 11 against potential latent effects of paraquat, right? 12 A. I do not believe that's their 13 intention. 14 Q. Okay. 15 A. Just adding just a little bit to what 16 I've said there is that, you know, when a person 17 goes to use the label, these are the measures on the 18 label that warn them about the safety equipment they 19 should be using while they're handling or spraying 20 the product, so it really is a day of -- 21 day-of-use-type set of precautions there. 22 Q. Okay. Let's go to Exhibit Number 32. 23 And this is Syngenta-PQ-01832754. It's a 55-page 24 document.</p>
<p>Page 460</p> <p>1 I was involved at that point. I believe the intent 2 here though, sir, is to prevent the particles from 3 creating nasal irritation. 4 Q. Yeah, and what I see nasal exposure, 5 nasal irritation, is in the immediate area of the 6 nose causing a nosebleed, right? 7 A. Correct. Yes, sir. 8 Q. It's not -- you're not trying 9 through -- strike that. 10 You're not through this warning trying 11 to use some kind of dust mask to protect against 12 neurotoxicity; would that be a fair statement? 13 A. I think that's a fair statement. I 14 think the dust/mists were purely about the nasal 15 irritation, as you described. 16 Q. Okay. And none of the warnings we just 17 went over again were designed to warn against 18 neurotoxic effects, if they existed, of paraquat, 19 correct? 20 A. That's correct. These are more acute, 21 day-of-event -- day of, worker-exposure-type warning 22 statements, sir. 23 Q. All right. As a matter of fact all of 24 them are acute, day of application warning -- worker</p>	<p>Page 462</p> <p>1 (Exhibit 32 was identified for 2 the record.) 3 BY MR. TILLERY: 4 Q. If you'd look at the front page. 5 A. Okay. 6 Q. It's a Gramoxone Super product 7 information document. Do you see that? 8 A. It is, yes, sir. 9 Q. And it says ICI Americas. Printed in 10 the U.S.A. And I don't believe -- and just for the 11 record -- just for the record it's 12 Syngenta-PQ-01832754. 13 I'm looking for a date on this 14 document, and can you tell me when Gramoxone Super 15 was first put on the market or a general time when 16 that happened? 17 A. Based on I think the label that we 18 looked at a few moments ago, I would say this is 19 probably mid to late '80s. 20 Q. Okay. 21 A. Would be a ballpark guess. 22 Q. And ICI Americas was still in operation 23 at that time, as far as you know? 24 A. As far as I know.</p>

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1 Q. All right. Now, this appears to be a
2 brochure for Gramoxone Super, right?
3 A. Yes, sir.
4 Q. What would Syngenta or ICI Americas as
5 a predecessor use this kind of brochure for? What
6 was the purpose of it?
7 A. I would think a brochure such as this
8 would be potentially distributed to potential
9 customers. It looks there where it's saying "New
10 Universal Rates," so there has potentially been a
11 change in the rate. It looks there, like, for
12 example, it talks about an old Paraquat Plus product
13 compared to a new rate, so it seems they're trying
14 to get out information to make sure you are using
15 the correct rate.
16 Farmers often when it comes to a
17 product they've used before, they've used it
18 multiple times, they know what the rate is, so this
19 appears to be saying pay attention, there's a new
20 rate. So this would probably be given out at
21 distributors and dealers to try to communicate that
22 information.
23 Q. It shows a farmer holding a plant,
24 right?

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1 A. It does.
2 Q. On the cover. And if you would go to
3 page 42, and page 42 starts a section of the
4 brochure. Up until then they've given various
5 different information about the product and – and
6 take your time if you want to look at the brochure
7 in any other way.
8 Have you seen the brochure before?
9 A. I have not seen that brochure before.
10 Q. Okay.
11 A. It's –
12 Q. Go ahead, sir.
13 A. I'm – I've seen similar type brochures
14 on other products, so it's – it's not surprising to
15 me we would have a brochure that would describe, you
16 know, a product and how a farmer might use it.
17 Q. Right. Was it sort of standard
18 practice when you're introducing a new product to do
19 this?
20 A. I'm not – I don't necessarily know
21 what all the marketing strategies or plans are, so I
22 can't answer that definitively, but it would seem
23 that if you are rolling out a new product that would
24 be a good way to increase grower awareness of it.

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1 Q. All right.
2 A. Okay. Sir, I am seeing "Myths Versus
3 Facts."
4 Q. Okay. Now, I think if we go to the
5 next page, do you see the definition where Syngenta
6 discusses what myths are untrue statements. Do you
7 see that?
8 A. I do.
9 Q. "Myths are untrue statements that
10 usually arise from misunderstandings or
11 misinterpretations of facts. They can be spread for
12 personal, political, or economic gain."
13 Do you see that?
14 A. I do.
15 Q. Okay. And then over on the left
16 there's a reference to "Gramoxone Super is a
17 formulated product containing 1.5 pounds" – so it
18 gives us background information and orients us to a
19 point in time – right? – to that product?
20 A. Correct.
21 Q. All right. Now, if you go to the next
22 page –
23 A. Just one second. I just want to read
24 that whole box there.

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1 Q. Absolutely. Take your time. And as a
2 matter of fact, if you want to look at earlier
3 portions of the document, please do.
4 A. Okay. Thank you.
5 So the prior part looks like a label
6 type, okay. Okay. I'm ready for the – you said go
7 to the next page, sir?
8 Q. Yes, if you'd go to the next page – I
9 think that's where they start – and in the lower
10 right-hand corner.
11 A. Okay.
12 Q. Here we have just for orientation –
13 bear with me – at the upper right-hand corner it
14 says, "Myths about the use of Gramoxone Super."
15 Do you see that?
16 A. I see that.
17 Q. "Myth. Paraquat was recently developed
18 by the U.S. government to spray on marijuana in an
19 effort to deter the illegal use of the plant,"
20 right?
21 A. Correct.
22 Q. And then below that Syngenta comes up
23 with a fact, and they respond to that statement,
24 right?

1 A. Correct, yeah.
 2 Q. And they do that. The next one is,
 3 "Paraquat-treated marijuana causes lung damage when
 4 smoked."
 5 That's the myth, okay? And then – and
 6 they set facts down in response, right?
 7 A. That's – yes.
 8 Q. Okay. Now, look at the – on the right
 9 it says, "Paraquat must be a dangerous chemical to
 10 use because it is so often in the news."
 11 Do you see that?
 12 A. I see that.
 13 Q. And then if you look at the fact answer
 14 does it say, "Diluted Gramoxone Super used to spray
 15 solution" – "used in spray solutions according to
 16 label directions poses no undue risk to agricultural
 17 workers or neighboring individuals, livestock or
 18 wildlife"?
 19 A. It does.
 20 Q. "The exercise of common sense and good
 21 spray practices will reduce the chance for drift."
 22 Is that what it says?
 23 A. That's what it says.
 24 Q. All right. And then if you go to the

1 causative agent of Parkinson's disease.
 2 Q. But now let's see if you can tell me if
 3 this is their position: "There is absolutely no
 4 scientific evidence that Gramoxone Super can cause
 5 Parkinson's disease."
 6 Is that your position?
 7 MR. WEIR: I'll object to the scope.
 8 THE WITNESS: So I think that statement
 9 reflects the time in which the brochure was put out,
 10 and that sounds like this was all relatively
 11 recently to the MPTP, so I believe the statement at
 12 the time was intended to say there's no scientific
 13 evidence for Gramoxone Super.
 14 It's still my understanding that based
 15 upon all of the Syngenta research and our
 16 understanding is that Gramoxone – that paraquat
 17 does not cause Parkinson's disease.
 18 BY MR. TILLERY:
 19 Q. And that there's absolutely no
 20 scientific evidence that it causes it. Is that
 21 still your position?
 22 MR. WEIR: Same objection.
 23 THE WITNESS: I would say that is not
 24 the position. I think the evidence – there is

1 next page, please, and just so we're clear on what
 2 page we're on, that's Syngenta-PQ-01832798.
 3 Over in the right-hand column it says,
 4 "Gramoxone Super causes Parkinson's disease."
 5 That's the myth, right?
 6 A. That's what it says.
 7 Q. And the fact is it says, "It was
 8 recently suggested that paraquat may cause
 9 Parkinson's disease because its active ingredient
 10 has a chemical structure similar to that of a
 11 compound known as MPTP which causes the disease.
 12 But paraquat is distinctly different from MPTP, and
 13 can't be converted to it. There is absolutely no
 14 scientific evidence that Gramoxone Super can cause
 15 Parkinson's disease."
 16 Do you see that?
 17 A. I do.
 18 Q. Is this still Syngenta's position to
 19 this day, 2021?
 20 A. That paraquat does not cause
 21 Parkinson's disease?
 22 Q. Yes.
 23 A. That is my understanding of our science
 24 and our research is we do not believe paraquat is a

1 evidence out there that is – certainly been
 2 positioned by researchers and others that seem to
 3 feel there is a potential for paraquat use to be
 4 associated with potential etiology of Parkinson's
 5 disease.
 6 BY MR. TILLERY:
 7 Q. All right. Let's go to the next one.
 8 "Breathing spray mists of Gramoxone Super will cause
 9 lung damage." That's the myth.
 10 "Fact: In fact, there has been no
 11 substantiated cases of systemic poisoning or death
 12 from inhaling spray mists containing paraquat." Is
 13 that Syngenta's position?
 14 If you go to the next page, "In order
 15 for a particle to enter air spaces in the lungs, its
 16 size must be 10 microns or less (a micron is one
 17 millionth of a meter). Smoke particles are in the
 18 10 micron range. The majority of droplets emitted
 19 from spray equipment typically used in applying
 20 agrichemicals are 100 to 200 microns in diameter.
 21 These large-size droplets generally are not inhaled.
 22 Instead, they are deposited in the nasal passages
 23 and throat or pharyngeal portion of the respiratory
 24 tract."

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1 Does Syngenta stand behind that
2 statement as well today?
3 A. I believe we would still stand behind
4 that statement today.
5 MR. WEIR: I'd just like to put in a
6 scope objection as well, please.
7 BY MR. TILLERY:
8 Q. The next myth is "Breathing the vapors
9 of Gramoxone Super can be fatal." Do you see that?
10 A. I see that.
11 Q. And – and the answer is – the fact
12 that Syngenta states is, "Breathing the air near an
13 open container of Gramoxone Super poses no harm
14 because it has no measurable vapor pressure"; is
15 that right?
16 A. That is my understanding that paraquat
17 is not at all volatile.
18 Q. Okay. So breathing the vapors of
19 Gramoxone from a container poses no harm because it
20 has no measurable vapor pressure, right?
21 A. Not being a toxicologist, I'm not an
22 expert, but my view on that and my understanding has
23 been that paraquat is not volatile because of the
24 exceptionally low vapor pressure, therefore you

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1 would not expect there to be any adverse health
2 effects from that.
3 Q. Now, let's go, if we can, to
4 Syngenta-PQ-01832800, and this is – this is page 47
5 of the document. Do you see that?
6 A. I do.
7 Q. Okay. In the right-hand column, it
8 says, "Gramoxone Super always requires special
9 clothing to protect workers from exposure."
10 Do you see that?
11 A. I see that.
12 Q. Here's what Syngenta told potential
13 customers of Gramoxone Super. They said here's the
14 fact: "When handling the concentrated product,
15 workers should wear rubber gloves, apron, face
16 shield, and waterproof footwear. After mixing,
17 however, diluted Gramoxone Super poses no serious
18 risk to spray operators as a result of absorption
19 through the skin, although prolonged contact with
20 skin can lead to irritation. Once mixed, only
21 waterproof footwear and work clothing need to be
22 worn. However, it is a good idea to keep rubber
23 gloves handy in the event that a nozzle or equipment
24 adjustments are necessary."

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1 Do you see that?
2 A. I do see that.
3 Q. Now, was that consistent with the label
4 warnings on the product at that time?
5 A. I'm struggling to answer just trying to
6 remember actually what was on the label, but I do
7 recall the label talking about wearing – wearing
8 the clothes, the boots, and washing if you have
9 immediate contact, so I would say that is
10 consistent.
11 Q. Okay. Let's go to the next one on that
12 same page, "Paraquat accumulates in the body."
13 That's the myth. Do you see that?
14 A. I see that.
15 Q. And fact: "Paraquat is a water-soluble
16 chemical, so it is not stored or accumulated in body
17 fat. Paraquat that may have been absorbed into the
18 blood is rapidly and effectively eliminated in the
19 urine by the kidneys."
20 Do you know if that is still Syngenta's
21 position?
22 A. Given the caveat that I'm not a tox
23 expert on how it's excreted through the body, I
24 still believe that is our understanding that it is

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1 rapidly excreted through the urine.
2 Q. Okay. So that would still be the
3 official position of Syngenta?
4 MR. WEIR: I'll object to the scope.
5 BY MR. TILLERY:
6 Q. Right?
7 A. I believe that is our still our
8 understanding that the majority of paraquat is very
9 rapidly excreted.
10 Q. Okay. Let's go to -- let's see. This
11 will be page 49, sir, if you could go there.
12 A. Okay. Okay, sir.
13 Q. And this says the myth, "Paraquat in
14 the soil can eventually contaminate groundwater,
15 streams, and lakes."
16 Do you see that?
17 A. I do.
18 Q. And the fact that's told by Syngenta to
19 correct that myth is that "Because of its strong
20 absorption to minerals, organic matter, and clay
21 particles in the soil, paraquat cannot be released
22 from soil particles to contaminate groundwater.
23 Even when soil particles containing paraquat do
24 not" – I mean, "do find their way into groundwater,

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1 the chemical is irreversibly bound to particles,
 2 thus rendering it biologically inactive. Gramoxone
 3 Super is so tightly bound that to release it for
 4 analysis, the clay particles have to be destroyed by
 5 boiling it in concentrated acid for several hours."
 6 Is that still Syngenta's position?
 7 A. Yes. That is still my understanding of
 8 our position on that.
 9 Q. Okay. Let's go to Exhibit 33 now,
 10 please.
 11 (Exhibit 33 was identified for
 12 the record.)
 13 BY MR. TILLERY:
 14 Q. For the record, this is
 15 Syngenta-PQT-ATR-12448188.
 16 A. I have the document open, sir.
 17 Q. And if you go to page 9.
 18 A. Okay. Okay. I'm on page 9, sir.
 19 Q. Okay. If you'd just look at the
 20 cautionary statements, please.
 21 A. Okay.
 22 Q. This is a Gramoxone Extra label from
 23 1992, correct?
 24 A. Let's see here -- the date on -- I

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1 don't see a date on this particular page.
 2 Q. Let me see if I can help out.
 3 A. I'll stipulate if it's '92. I have no
 4 reason to doubt you on that.
 5 Q. All right. I'll see if I can find that
 6 reference and confirm it.
 7 A. And it could be on the front, although
 8 typically when you see this accepted stamp there's
 9 typically the date there. It looks like it just
 10 didn't come through on the scan.
 11 Q. All right. Rather than make you wander
 12 through this whole document, I will just point to
 13 there's a change to the warning for pouring,
 14 loading, mixing concentrate or when exposure to
 15 concentrate is possible, if you could verify that.
 16 A. Yes, I see that.
 17 Q. There's an addition to wear a
 18 "NIOSH/MSHA-approved pesticide respirator." What is
 19 that?
 20 A. Well, NIOSH is the group that I guess
 21 issues certification. We've all recently heard of
 22 N95, for example. It's been very common in the
 23 news. So that is a type of respirator that here it
 24 doesn't necessarily give the specifics on which one,

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1 It just says a NIOSH/MSHA-approved respirator.
 2 Q. Is that the same kind of respirator
 3 that 60 percent of the American population is
 4 willing to wear?
 5 A. I wish I could get a hold of them. The
 6 N95s, there is a series of ways respirators are
 7 qualified, so I'm not 100 percent sure how -- and
 8 this is probably -- I imagine this document looking
 9 at it is '92 to '94ish, somewhere in that ballpark.
 10 I think as the agency has evolved, it's now much
 11 more prescriptive when it requires a respirator, so
 12 you actually have a description of what it needs to
 13 be. That's seems to me a pretty general statement.
 14 Q. So I'm trying to figure out as we look
 15 at these warnings how this differs from what you
 16 just described from this sort of dust mask that we
 17 talked about before that was really designed to
 18 guard against nosebleeds that we discussed at great
 19 length.
 20 A. Yes, sir.
 21 Q. Is this a different requirement for a
 22 different mask?
 23 A. I'm afraid I'm not knowledgeable on
 24 exactly what that statement would have meant in

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1 1992. I can tell you that as the respirator label
 2 language has evolved, now you have much more
 3 specifics saying such, as example, 21C or different
 4 requirements.
 5 So there all I can tell you is it's
 6 just saying a NIOSH/MSHA-approved pesticide
 7 respirator, and I just don't know. Was that a
 8 respirator? Was it a class of respirators? Did it
 9 have different stages? All I can tell is what's
 10 written there, sir.
 11 Q. Right. So here's what I'm getting at.
 12 In terms of the human health risk it's designed to
 13 guard or protect against, was the intention of the
 14 use of this still to guard against nasal irritation
 15 and nosebleeds?
 16 A. My assumption is yes. I do know around
 17 this time frame there was a change in the --
 18 something called the Worker Protection Standard and
 19 that added respirator requirements across many
 20 products. I'm not sure if this statement was put in
 21 as a response to the WPS change.
 22 I certainly know that this was done
 23 shortly before the paraquat RED, in which there was
 24 some changes on respiratory -- respirator

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1 requirements in that time frame. So there was a lot
 2 changing in this time frame, sir, with respect to
 3 respirators.

4 **Q. So are you at this point unable to tell**
 5 **me whether the respirator requirement was protecting**
 6 **against a human health risk that extended beyond**
 7 **nasal irritation and nosebleeds?**

8 A. I'm unable -- I'm unable to tell you
 9 that, sir.

10 **Q. Okay. Well, what would at that time**
 11 **Syngenta have told a customer calling into their**
 12 **help center about what kind of mask they needed to**
 13 **go out and buy when they applied their paraquat**
 14 **products?**

15 A. To be label compliant they would
 16 probably have quoted this NIOSH/MSHA-approved
 17 respirator. Certainly if somebody called a
 18 technical service center they would probably have
 19 specific recommendations. I would think they would
 20 not just give a general just do what the label says,
 21 but -- but that's my assumption. Certainly don't
 22 know how that would have been handled in 1992.

23 **Q. Okay. Do you know if there was a**
 24 **different mask contemplated or a different**

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1 an inhalation risk that they didn't previously have.

2 **Q. They wouldn't be using this to prevent**
 3 **the particles from getting into the bloodstream; is**
 4 **that what you're saying?**

5 A. No, I'm not necessarily saying that. I
 6 think this is still geared at the potential of
 7 trying to prevent the nasal irritation, which if you
 8 do have the nasal irritation and bleeding, then you
 9 do have a potential access to the bloodstream.

10 **Q. Okay. So aside from nasal irritation**
 11 **and nosebleeds and getting into the bloodstream**
 12 **through the nose, as far as you know this**
 13 **NIOSH/MSHAR, the dust filter mask that we spoke of**
 14 **previously, would not have been designed to guard**
 15 **against those particles of paraquat that went into**
 16 **the tubules of the lung and crossed into the**
 17 **bloodstream through the alveolar surfaces?**

18 A. I'm not aware of any change in the
 19 position that Zeneca or the company had with respect
 20 to the particle sizes not getting into the deep
 21 lung, so I -- I don't believe that position changed
 22 at that time frame.

23 **Q. Well, just so the ladies and gentlemen**
 24 **of the court understand that, because you and I**

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1 respirator contemplated, what any additional human
 2 health risk was being warned or guarded against by
 3 that different mask or respirator?

4 A. From my understanding and --
 5 MR. WEIR: I'll object to the form.
 6 THE WITNESS: Yeah.
 7 BY MR. TILLERY:
 8 **Q. Go ahead, sir.**

9 A. So, Mr. Tillery, my understanding, and
 10 this would be based upon knowing what ICI/Zeneca did
 11 in the same time frame which was in responding to
 12 the paraquat RED, that there was a strong position
 13 that the company felt that the same discussion we
 14 just had about the particle sizes being too large to
 15 get to the deep lung, that -- that logic, that
 16 rationale hasn't changed from what we were looking
 17 at earlier through what it was said in -- in the
 18 time frame that happens right after this.

19 So my assumption just based on those
 20 two pieces of fact is nothing had changed in the
 21 Zeneca position on that, so this would still
 22 theoretically, that being the case, be guarding
 23 against that nasal irritation and not necessarily
 24 being driven because there's some new awareness of

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1 perhaps understand each other but just so we're
 2 clear, that means the ICI/Zeneca and subsequent
 3 Syngenta position has been that these masks were not
 4 designed to guard against or protect against spray
 5 mist of paraquat getting into the deep portion of
 6 the lung and passing into the bloodstream through
 7 the alveolar structures of the lung, correct?

8 A. I would say that's correct in that the
 9 position was there was not believed to be a risk of
 10 that due to the droplet size of the particles, so
 11 these respirator requirements were addressing
 12 instead what they had seen which were the nasal
 13 cases, the irritation cases, but --

14 **Q. And that would be a guard against**
 15 **nosebleeds too, right?**

16 A. Correct.

17 **Q. All right. Now, to finish out this**
 18 **particular exhibit, if you would verify there's**
 19 **nothing about wearing a respirator while spraying**
 20 **paraquat, right?**

21 A. I do not see any indication of having
 22 to wear a respirator while making an application.

23 **Q. The NIOSH/MSHA-approved pesticide**
 24 **respirator was only for when you're**

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1 pouring/loading/mixing concentrate, right?
2 A. That's – that's the only section it's
3 in.
4 Q. And there's nothing about wearing
5 gloves when you're spraying, right?
6 A. I do not see anything requiring gloves.
7 Q. And there's no indication anywhere in
8 this document of any potential neurotoxic effect of
9 paraquat, right?
10 A. Not that I'm aware of, sir.
11 Q. The name or -- strike that.
12 The word "Parkinson's disease" is never
13 mentioned, is it?
14 A. I would certainly -- I mean, just would
15 not at all expect it to be on this document.
16 Q. All right. Let's go to the next
17 exhibit which is number 34.
18 (Exhibit 34 was identified for
19 the record.)
20 BY MR. TILLERY:
21 Q. And while you're looking at this --
22 A. Okay. I have it.
23 Q. -- go to page 3 of your document, sir?
24 A. Yes, sir.

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1 Q. While you're looking at it I'll
2 reference that this is Syngenta-PQ-03711838 is the
3 first page of the document, but that the text does
4 not start until 03711844. And if you would look at
5 it and then for the record describe what the
6 document is.
7 A. It's entitled "Paraquat Backpack Risk
8 Assessment." It looks like it's discussing a risk
9 assessment for workers that would be making
10 applications with backpack equipment. Okay. And it
11 appears to go into some information about how EPA
12 may choose to do the risk assessment and what could
13 be potential end points if EPA were to do a risk
14 assessment.
15 MR. TILLERY: Okay. Yeah. Excuse me a
16 second, sir. Hold on one second. We're just going
17 to go off the record here for a second.
18 (Discussion off the record.)
19 BY MR. TILLERY:
20 Q. If you would go to page 7.
21 A. Page 7, sir? Okay.
22 Q. There we go. Sorry.
23 A. Okay.
24 Q. Okay. This is a document where the

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1 author is Becky Sherman, right?
2 A. Yes, sir.
3 Q. Dated March 9th, 1993, right?
4 A. Correct, yeah.
5 Q. And it says, referenced in the first
6 paragraph, "Attached is a draft of the defense Jenna
7 and I have put together using your" -- and a blank
8 there -- I don't know what else -- they left a word
9 out -- "to try to avoid the 48-hour reentry time and
10 additional PPE for applicators. Review and have
11 comments back to me by Friday a.m."
12 Do you see that?
13 A. I see that.
14 Q. Okay. Is this at this time frame a
15 Zeneca document?
16 A. It would most likely be Zeneca.
17 Syngenta was formed in 2000, so I believe this would
18 be Zeneca.
19 Q. Okay. If you'd go to the next page --
20 actually it's the fourth page. It's actually
21 page 13, I'm sorry.
22 A. Okay. Page 13, okay.
23 Q. And you see the topic "Introduction"?
24 A. Yeah.

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1 Q. I'll just read this into the record,
2 you tell me if I get it right.
3 "In August, 1992, the EPA issued a
4 revised worker protection standard to protect
5 workers entering treated areas and to protect
6 employees mixing, loading, and applying pesticides.
7 Under the revised standards restricted entry
8 intervals" -- they refer to them as REIs, okay? --
9 "and personal protective equipment are predetermined
10 based upon the toxicity classification of the
11 technical material and the formulation,
12 respectively. Paraquat dichloride has been
13 classified by the Environmental Protection Agency as
14 Toxicity Category I based on acute oral inhalation
15 and eye toxicology studies and Toxicity Category II
16 based upon acute dermal and skin toxicology studies.
17 Therefore a reentry interval of 48 hours is
18 required. Additional PPE is also required when
19 mixing/loading/applying when compared to the current
20 labels. A comparison of the current label to
21 required changes under the worker protection
22 standard are listed in Appendix 1."
23 Do you see that?
24 A. I do.

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1 Q. Now, if you'd go to the next page.
2 Actually two more pages.
3 A. Page 15, sir?
4 Q. It's page 19.
5 A. Okay.
6 Q. Under "Inhalation Exposure."
7 A. Okay.
8 Q. Okay. It was Syngenta -- I'm referring
9 to them because this was the predecessor. It was
10 Syngenta's position if you look at the very last
11 sentence of that section, "The addition of a
12 respirator for applicators as is required in the
13 worker protection standard is not necessary."
14 Do you see that?
15 A. Yes, sir.
16 Q. Was that their position?
17 A. I'd like to read that whole
18 paragraph --
19 Q. Absolutely. Take your time.
20 A. Okay, sir, I'm ready and that is
21 consistent with what I understand the position to be
22 about agricultural sprays not producing droplets
23 that would be small enough to get into the deep
24 lung.

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1 Q. And that's Syngenta's position today,
2 isn't it?
3 A. It is, sir.
4 Q. That a respirator for applicators is
5 not necessary, correct?
6 A. That is correct.
7 Q. All right. Now, if you go to the very
8 next page, it continues on and says, "No change in
9 personal protective equipment is required to improve
10 the protection of mixers/loaders of paraquat. There
11 is no risk of oral exposure to the applicator; so
12 addition of a respirator as required in the worker
13 protection standard, which would offer oral as well
14 as inhalation protection, is not necessary."
15 Do you see that?
16 A. I do.
17 Q. And that's been the position as of this
18 statement in 1992 and it's been the same for the
19 last 28 years, hasn't it?
20 A. It has, sir.
21 Q. And it was from the time the product
22 was first introduced in the market, wasn't it?
23 A. I seem to recall very similar logic in
24 some of those earlier documents we looked at.

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1 Q. All right. And if you continue to the
2 bottom of that same page under the heading "Dermal
3 Exposure."
4 A. Okay.
5 Q. It says, "For this reason." Do you see
6 that about six lines up?
7 A. Okay. "For this reason." From the
8 bottom?
9 Q. It would be in the last full paragraph.
10 A. I see that.
11 Q. "For this reason, Zeneca believes the
12 personal protective equipment already listed on the
13 labels: Waterproof footwear (in addition to wearing
14 a disposable suit/coveralls or long-sleeved shirt
15 and pants and a wide-brimmed hat) is adequate. The
16 addition of protective eyewear and respirator and
17 chemical resistant gloves as required is excessive."
18 Do you see that?
19 A. I do.
20 Q. Is that the position of Syngenta today?
21 A. The position of Syngenta today is not
22 quite aligned with that in that with our current
23 labels and just part of the label process when a
24 product is registered obviously as we've discussed,

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1 the company recommends label requirements and
2 protective measures and statements and then EPA
3 ultimately reviews and determines whether or not the
4 statements proposed satisfy the EPA's view of what's
5 required.
6 And so what we currently have on our
7 labels today are all reflective of what we have
8 submitted and been mandated to have on the labels
9 working through that registration process which
10 would include changes such as the agency is
11 specifying, for example, current on the PID, new
12 glove language.
13 Q. And were gloves added for the first
14 time in 1994 as a requirement when applying the
15 product?
16 A. I do not know that definitively, but as
17 is mentioned in this document, this is all very
18 close to the time when the WPS standards were
19 revised and that may have been a requirement of the
20 WPS, so it is certainly possible that that would
21 have been a time frame for that.
22 Q. And when they came back in first -- for
23 the first time and added a respirator during
24 application in the '90s, in the mid '90s, I think

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1 that was 1994, what kind of – what kind of
2 respirator was that?
3 A. Yes, sir, I'm sorry. Based on what we
4 saw before on the label it was that NIOSH/MSHA
5 respirator. I'm -- unfortunately don't know if that
6 was a single type of respirator or that appears to
7 me to be a class of respirator in that it says a
8 NIOSH-approved respirator so ...
9 Q. All right. Let's – let's go to that
10 document at Exhibit 35 and see if we can answer the
11 riddle.
12 A. Okay.
13 (Exhibit 35 was identified for
14 the record.)
15 BY MR. TILLERY:
16 Q. And if you go to page 29 of this
17 exhibit.
18 A. Okay. Let me just take a quick look to
19 see what we've got here.
20 Q. Absolutely. Take your time.
21 A. Thank you, sir. It looks like a label
22 submission, okay. Page 29 did you say, sir?
23 Q. This is, for the record,
24 Syngenta-PQT-ATR-16564722, and I have it down as 29

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1 of 30.
2 A. Hang on. I see that, sir.
3 Q. Okay. I don't know how well you're
4 going to be able to see it.
5 A. I can see it, sir.
6 Q. Okay. And so please familiarize
7 yourself with it and let me know when you're able to
8 talk about it a little bit.
9 A. Okay. Yeah, this looks like a -- just
10 a label panel, and I'm looking at the personal
11 protective equipment area, so I think I'm ready,
12 sir.
13 Q. Okay. The use of gloves for
14 applicators was new, right?
15 A. I'd say yes, sir.
16 Q. And there had been no formulation
17 change in paraquat that changed the active
18 ingredient – the active ingredients have been the
19 same all the way through, hasn't it?
20 A. I think in the '60s there was some
21 different salt forms of it, but essentially from the
22 '70s on, I believe it's always been the dichloride
23 salt.
24 Q. Okay. So what was the hazard that was

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1 being warned against for the use of gloves for
2 applicators?
3 A. That would be a dermal exposure
4 warning.
5 Q. And the use of a respirator was new.
6 Do you see on the – on the warning the type of
7 respirator?
8 A. Yes, sir, this now is referring a
9 little more specifically than what we saw earlier to
10 a dust/mist filtering respirator, and it does give
11 that approval number of a TC-21C.
12 Q. So this is the dust – this is the dust
13 type now designed to protect against vapors from
14 getting into the lungs and bloodstream, is it?
15 A. This is -- this is just the classic
16 dust/mist filter. Half respirator or half like
17 we've seen before.
18 Q. And for the court and jury, I mean, I
19 think we -- we hear the word "respirator" and we
20 hear the word "mask," and I think it's important
21 that you and I clear this up.
22 I mean, you know, there's like gas
23 masks that people see, and those things have
24 canisters in them that are replaceable canisters

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1 that guard against, like, for example, if there is a
2 riot and there is teargas, these things will guard
3 against this and prevent people from getting sick.
4 Now, this is not that kind of mask, is it?
5 A. No, sir. This --
6 Q. And please explain this.
7 A. Sure. And I'm not an expert on the
8 respirators, but I can talk in generalities that you
9 do have different levels of respiratory protection.
10 The dust/mist filters are considered to filter
11 approximately, I believe, 90 percent of the
12 particulate versus when you go to what are called
13 PF50. So now you might here a phrase PF10 versus
14 PF50, which is protection factor.
15 So what you do get into the respirators
16 that you were just referring to, Mr. Tillery, are
17 much more what you see when you think of gas masks.
18 They could be complete forced-air systems where the
19 person is essentially like in a canopy or you could
20 have cartridge -- very specific cartridge
21 respirators.
22 And the respirator, even the dust/mist
23 filter language evolves over time to have in
24 additional prefixes of N, R, or P, and those refer

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<p>Page 495</p> <p>1 to whether or not – the different types of 2 particulate it might be filtering or some of them 3 may be effective against oils versus not. 4 So as labels have evolved over time and 5 EPA's respirator requirements have evolved over 6 time, you will see that increasing specificity as we 7 see here versus the last label we looked at. 8 Q. So this isn't a – for clarification, 9 one of those gas masks, is it? 10 A. No, this would not be -- a dust/mist 11 filter would not, in my mind, be called on as a gas 12 mask. 13 Q. This would be something you'd go down 14 when you're buying a can of paint to paint your 15 garage door that they might give you a little white 16 mask. This is something comparable to that, isn't 17 it? 18 A. Well, I think in today's parlance and 19 the way the Worker Protection Standard has evolved 20 now, there are some specific classifications to 21 where the typical just painter's mask would not 22 fill – would satisfy that. However, in 1995 or '6 23 or '7, I'm not sure those distinctions were as well 24 defined as they are now.</p>	<p>Page 497</p> <p>1 most recently approved labeling is removal of the 2 dust/mist filtering." 3 Do you see that? And "respirator" in 4 the middle of the page? 5 A. Middle of the page. Let's see here. 6 Q. Three of 73. 7 A. Three – yeah, I'm on 3 of 73, 8 removal – 9 Q. "The label change from the most 10 recently approved labeling is removal of the 11 dust" – 12 A. I see that, yes, sir. 13 Q. Thank you. 14 A. I'm sorry. I see that. 15 Q. Okay. So it is gone. No more 16 dust/mist filter using applying the product, right? 17 A. Correct. 18 Q. Okay. And if you go to page 9 of this 19 exhibit. 20 A. Okay. 21 Q. At the bottom, do you see the reference 22 to OREB? 23 A. I do. 24 Q. What does that stand for?</p>
<p>Page 496</p> <p>1 Q. So they may well – that kind of mask 2 may well have been satisfactory? 3 A. It would have had to satisfy on this 4 label whatever the requirements for the TC-21C are. 5 Q. Okay. And then let's go to 36. This 6 is Plaintiffs' Deposition Exhibit 36. 7 (Exhibit 36 was identified for 8 the record.) 9 MR. TILLERY: And this is 10 Syngenta-PQ-00226998. 11 THE WITNESS: Okay, sir, I have this 12 open. 13 BY MR. TILLERY: 14 Q. It looks like a submission from Zeneca? 15 A. Okay. 16 Q. And if you'd go to page 3. 17 A. Page 3, I'm sorry. I went one too far. 18 Okay. Page 3. 19 Q. Yes, it is there. And if you go to the 20 middle of the page. 21 A. Okay. 22 Q. This is a submission from new Cyclone 23 label, and it's dated November 27th, 1996 by 24 Syngenta. And it says, "The label change from the</p>	<p>Page 498</p> <p>1 A. I am actually not sure. OREB could be 2 occupational review or something along there. OREB. 3 I don't believe EPA uses that phraseology now. 4 Q. It's a governmental agency of some 5 sort, right? 6 A. It certainly seems to be, yes, sir. 7 When I look above it talks about revised OREB 8 chapter, and it may be now what is considered like 9 the human exposure, HSRB – HRB now. 10 Q. Okay. And it says, "OREB has removed 11 the dust respirator from the list of minimum active 12 ingredient based PPE for applicators of all paraquat 13 products, based on the unique properties of 14 paraquat: Low vapor pressure, liquid formulation 15 type, and large spray droplet size." Okay? And 16 that, "However, OREB dismisses Zeneca's statement 17 that the ingestion," whatever that says. 18 A. Yeah. 19 Q. Was this based upon a – a statement 20 submitted to the regulatory authorities by Zeneca, 21 to your knowledge? 22 A. I believe so. I believe they provided 23 also data on droplet spectra, I believe. I can't 24 put it specifically, but I believe they did.</p>

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<p>1 Q. And as a result of that, the 2 respirator – the dust/mist respirator requirement 3 was removed from the label, correct? 4 A. Correct. 5 Q. Okay. Let's go to Exhibit 37. 6 (Exhibit 37 was identified for 7 the record.) 8 THE WITNESS: Okay. 37. 9 Okay, sir, as I'm reading this, this 10 may have been where my mind was thinking about the 11 information on the droplet spectrum, so it may have 12 been more in this time frame here. 13 BY MR. TILLERY: 14 Q. All right. This is a September 1, 1998 15 Zeneca document signed by Ralph Riggs, regulatory 16 product manager, and he's writing about 17 specification of a respirator. And at the bottom of 18 the first page, last sentence, does he say, "The 19 specification for use of a respirator is unnecessary 20 for products containing paraquat when the spray 21 droplet size spectrum produced by paraquat 22 application equipment is considered." 23 Do you see that? 24 A. I do.</p>	<p>1 A. Correct. 2 Q. So there's no respirator warning there, 3 Is there? 4 A. No, sir. 5 Q. Okay. But if we go to 39. 6 (Exhibit 39 was identified for 7 the record.) 8 THE WITNESS: Sir, is that Exhibit 39 9 or page 39? 10 BY MR. TILLERY: 11 Q. I'm sorry. It's Exhibit 39. It's 12 coming up now. 13 A. All right. Thank you. 14 Q. I apologize. 15 A. Okay. I see this. 16 Q. Okay. This is a letter to all paraquat 17 registrants from the EPA dated February 12th, 2001, 18 right? 19 A. Correct. 20 Q. And the letter states that the EPA – 21 EPA has decided that respirators are necessary to 22 protect applicators and handlers of paraquat 23 products, right? 24 A. Correct.</p>
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<p>1 Q. And that's consistent with the position 2 that Syngenta has taken throughout, isn't it? 3 A. Correct. 4 Q. Let's go to Exhibit 38. 5 (Exhibit 38 was identified for 6 the record.) 7 BY MR. TILLERY: 8 Q. Now, this is Syngenta-PQ-00544073. 9 It's a 1999 paraquat concentrate warning, 3/26/99. 10 A. Okay, sir. 11 Q. And I think we need to go to page 7. 12 A. Page 7. Okay. 13 Q. And if you look under "Personal 14 Protective Equipment." 15 A. Okay. 16 Q. It says, "Applicators and other 17 handlers (other than mixers and loaders) must wear: 18 Long-sleeve shirt and long pants, waterproof gloves, 19 shoes plus socks, protective eyewear," right? 20 A. Correct. 21 Q. "Mixers and loaders must wear: 22 Long-sleeve shirt and long pants, waterproof gloves, 23 shoes and socks, face shield, and a 24 chemical-resistant apron," right?</p>	<p>1 Q. Okay. So on page 1, first paragraph, 2 line 5, "I'm writing at this time to inform you that 3 the EPA has made a determination on this issue, 4 concluding that applicators and handlers of paraquat 5 products should wear a dust mist filtering 6 respirator when mixing, loading, or applying 7 paraquat." 8 Do you see that? 9 A. I do. 10 Q. In the third paragraph they say, "CDPR 11 based their request on the fact that although there 12 is no documented risk of systemic paraquat poisoning 13 from inhalation of paraquat spray droplets, use of 14 the compound without proper respiratory protection 15 has been reported in the public domain literature to 16 cause epistaxis (nosebleeds) and other forms of 17 respiratory irritation," right? 18 A. Yes, sir. 19 Q. So that's exactly what you were talking 20 about earlier, the dust/mist filter was designed to 21 protect against nosebleeds, right? 22 A. Yes, sir. 23 Q. So this indicates that the EPA 24 considered nosebleeds and respiratory irritation as</p>

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1 indicative that some droplets were being inhaled
2 during mixing, loading, or application of paraquat,
3 right?
4 MR. WEIR: Object to the form.
5 BY MR. TILLERY:
6 Q. You can answer, sir.
7 A. It certainly looks like EPA views this
8 as a necessary barrier to prevent that.
9 Q. Did the EPA make that change?
10 A. It did. Up until this time frame as
11 part of the '97 RED where the PPE requirements were
12 established, there was not a requirement for the
13 respirator, but then upon the receipt of this
14 letter, all paraquat products going forward would
15 have to have that respirator, end use products.
16 Q. Has that respirator, end use type,
17 stayed on the label since?
18 A. It has.
19 Q. Okay.
20 A. It has. There has been as I mentioned
21 a little bit earlier, Mr. Tillery, some refinement
22 in how EPA mandated the statements be listed, some
23 additional specificity, but essentially from this
24 time forth that respirator requirement consistent

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1 with this was a mandate for all paraquat products.
2 Q. Okay. Now, let's go to Exhibit 40.
3 (Exhibit 40 was identified for
4 the record.)
5 THE WITNESS: Okay.
6 BY MR. TILLERY:
7 Q. Please read this.
8 A. Okay, sir.
9 Q. The first email is from you, and it's
10 dated May 30th, 2001. Do you see that?
11 A. I do, sir.
12 Q. All right. And that is to Greg Watson
13 regarding a paraquat meeting follow-up;
14 investigation of alternative PPE for paraquat,
15 right?
16 A. Correct.
17 Q. Was this in response to the EPA's
18 decision?
19 A. Yes. Internally at the time I was not
20 in the Regulatory Affairs Group. I was doing
21 operational and worker risk assessments. I was
22 contacted to see if -- to do an analysis of what the
23 requirements were and to seek options, and so this
24 email appears to be the response that I would

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1 have -- that I gave to Greg Watson at the time based
2 upon conversations that I had had with our chemical
3 hygienist, Chip.
4 Q. Chip Witcher?
5 A. Yes, sir.
6 Q. All right. Let's read this into the
7 record if we can. It says -- you said, "Dear Greg,
8 I have investigated the availability of Personal
9 Protective Equipment alternatives for preventing the
10 nasal irritation that have been reported for
11 Paraquat use. I have not found any other reasonable
12 PPE that would alleviate the problems. I have
13 consulted with our Chemical Hygienist, Chip Witcher,
14 and his only recommendation would be to increase the
15 awareness of the users to the potential nasal
16 irritation problems.
17 "From a worker standpoint, we recommend
18 the following steps to reduce incidences of nasal
19 irritation:"
20 One, or the first bullet, "Require
21 applications to be made in a closed cab
22 environment."
23 Two, second one, "Utilization of a
24 respirator equipped with an appropriate vapor

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1 cartridge (this would not be the dust-mist type of
2 mask, as it is our belief this would increase the
3 potential for nasal irritation by trapping the
4 paraquat residue in the close proximity of the skin
5 and nasal passages and thus potentially aggravate
6 any skin irritation.)
7 "Please let me know if I can provide
8 further assistance with this matter."
9 Is that what you said?
10 A. Yes, sir.
11 Q. And then Greg Watson says, "Guys, we
12 need to follow up on this."
13 A. Yeah.
14 Q. And what was the follow-up on this?
15 A. As I recall, what was happening at that
16 time frame is there was -- initially I hoped not to
17 have to go back to putting respirators on -- in
18 particular because it was initially being driven
19 from a California perspective.
20 That second bullet there, is my
21 recollection is that one of the concerns with the
22 dust/mist type of mask, as we discussed, is that
23 sometimes workers would -- would do things such as
24 if they were to have an itch on their nose, they

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1 might lift up their mask and scratch their nose and
 2 then by putting the mask back on, that would
 3 actually trap the material or the potential material
 4 in there.
 5 So that was what the thought process
 6 was, so the question I was asked was, are there --
 7 you know, what would be the measures that could
 8 potentially reduce nasal irritation? And at the
 9 time these were the recommendations that we came up
 10 with.
 11 **Q. So who was Greg Watson at that time?**
 12 **A. Greg Watson at that time would be**
 13 **somebody similar to the role that I am in now. He**
 14 **would be one of our regulatory managers and one of**
 15 **the leaders in the Regulatory Affairs Group at that**
 16 **time.**
 17 **Q. So you were really being tasked with**
 18 **the responsibility of evaluating PPE alternatives**
 19 **for preventing nasal irritation from paraquat**
 20 **application, right?**
 21 **A. To at least reduce the potential.**
 22 **Q. And paraquat applicators were**
 23 **complaining of nasal irritation when they sprayed**
 24 **paraquat. You knew that, right?**

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1 **A. It's my understanding that the issue**
 2 **was raised from complaints of these applicators**
 3 **having issues in California, and CDPR then, you**
 4 **know, communicated a desire to go back to the**
 5 **respirator. So that was kind of the genesis of it.**
 6 **It would have been in response to reports of alleged**
 7 **incidences or actual incidences.**
 8 **Q. And those included nosebleeds, correct?**
 9 **A. That's -- that's my recollection, sir.**
 10 **Q. After investigating the matter, you**
 11 **couldn't find reasonable personal protective**
 12 **equipment which would protect against the problems**
 13 **with nasal irritation that the applicators were**
 14 **experiencing. That's what you said in your letter,**
 15 **correct?**
 16 **A. That's the phraseology I used in the**
 17 **letter. In hindsight, as I'm looking at it, I'm not**
 18 **so sure that the term "reasonable" is the best**
 19 **phrase there. You know, I think if -- in looking at**
 20 **this in the context, it was trying to see if there**
 21 **were workable solutions that would help address the**
 22 **issue that would be minimal impact on the user.**
 23 **Q. Back in 2001, though, you said "I have**
 24 **not found any other reasonable PPE that would**

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1 **alleviate the problems," correct?**
 2 **A. That's -- yes, sir, that's what's**
 3 **stated there.**
 4 **Q. And so after consulting with Syngenta's**
 5 **chemical hygienist, Mr. Witcher, you made your own**
 6 **recommendations, right?**
 7 **A. Those are the recommendations there,**
 8 **yes, sir.**
 9 **Q. And you recommended that application be**
 10 **done in a closed cab environment, right? One of**
 11 **them?**
 12 **A. Yeah, that's one -- to reduce the**
 13 **nasal -- incidence of nasal irritation, that would**
 14 **be a way to do that.**
 15 **Q. And so we're clear, a closed cab**
 16 **environment means an air-conditioned unit that**
 17 **captures the entire tractor or other -- other farm**
 18 **implement and protects it and controls the air and**
 19 **filters the air inside the unit, correct?**
 20 **A. That's what closed -- in the term of --**
 21 **in agronomics when one refers to enclosed cab or a**
 22 **closed cab tractor, it's as you described. It's**
 23 **a -- a cab that controls the airflow in and out. It**
 24 **typically has filters in different devices on there**

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1 **to -- you know, to kind of make sure the air coming**
 2 **in is clean.**
 3 **Q. What was that change designed to**
 4 **protect against in terms of human health risk?**
 5 **A. To reduce the potential for nasal**
 6 **irritation.**
 7 **Q. And nosebleeds?**
 8 **A. Nosebleeds.**
 9 **Q. Was it to protect against potential**
 10 **neurotoxicity?**
 11 **A. No, sir. It was specifically being**
 12 **directed at trying to answer the question as to how**
 13 **could we reduce the cases of this nasal irritation**
 14 **nosebleeds.**
 15 **Q. Okay. It wasn't designed to protect**
 16 **against the enhanced possibility of developing**
 17 **Parkinson's disease, was it?**
 18 **A. It was specifically designed to address**
 19 **the nosebleed issue.**
 20 **Q. Now, you also recommended the use of a**
 21 **respirator equipped with a vapor cartridge, right?**
 22 **A. Correct.**
 23 **Q. And you discouraged the use of a**
 24 **dust-type mask which was recommended at that time**

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1 because it was your belief that the dust-type mask
 2 actually increased the potential for nasal
 3 irritation by trapping the paraquat residue in close
 4 proximity to the skin and nasal passages, correct?
 5 A. I wouldn't use the term "belief." It
 6 was based upon the discussions of – and it would
 7 have been more focused than just myself – that we
 8 were looking at this issue as we were thinking
 9 through the different options. That would be one of
 10 the potential challenges that a dust/mist filter
 11 could create, so it was identifying a potential
 12 complication that the dust/mist could create.
 13 Q. You actually used the words "this would
 14 not be the dust-mist type of mask as it is our
 15 belief this would increase the potential for nasal
 16 irritation by trapping the paraquat residue in
 17 the – in close proximity to the skin and nasal
 18 passages and thus potentially aggravate any skin
 19 irritation."
 20 Are those the words you used?
 21 A. Those are the words, yes, sir.
 22 Q. So the dust-type mask in your view and
 23 your belief would aggravate the irritation, correct?
 24 A. At that time the belief was it had the

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1 potential to aggravate the nasal irritation.
 2 Q. And how long had the dust-type masks
 3 been recommended for use with paraquat by the time
 4 you wrote this email in May of 2001?
 5 A. Actually at this point – so you had
 6 the time period of '92 to '94 that we were talking
 7 about when the WPS came out. Then when the RED was
 8 issued in '97, that removed the respirator
 9 requirement, so this would be relatively close and
 10 about the same time when EPA was coming back with
 11 the recommendations.
 12 So at this point, there was not a long
 13 history. It was basically coming back to the fact
 14 the EPA had taken – removed that requirement and we
 15 were being asked to – to potentially put it back on
 16 in the business and the company was trying to look
 17 at the best options to reduce the nasal irritation.
 18 Q. Up until this time, May of 2001, had
 19 any other type of mask been recommended for paraquat
 20 applicators?
 21 A. I don't believe, and we looked at those
 22 earlier labels. I believe that was a NIOSH/MSH was
 23 what was recommended, and then we saw it went to the
 24 TC-21 -- 21C. I think that was on an earlier label

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1 we looked at, sir.
 2 Q. But they're comparable masks, aren't
 3 they?
 4 A. I believe a TC-21C, or certainly when I
 5 said a dust/mist filter and then it had in the
 6 parens if you'll recall, that meet NIOSH 21C, those
 7 are equivalent.
 8 Q. These aren't -- those are certainly not
 9 vapor cartridge masks, are they?
 10 A. No, vapor cartridge mask is a
 11 different -- different respirator. Requires
 12 different fit testing. It's a different type of
 13 piece of equipment.
 14 Q. And that would literally filter at
 15 multiple levels all of the air that entered a
 16 person's lungs, wouldn't it?
 17 A. Certainly a vapor cartridge respirator
 18 does a more intense job of filtering than a
 19 dust/mist filter.
 20 Q. Was that recommendation of using a
 21 filter-type mask accepted by Syngenta? A vapor
 22 cartridge mask?
 23 A. No, we did not do the vapor cartridge.
 24 We went with the dust/mist filter.

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1 Q. Okay. And would -- strike that.
 2 Did your recommendation of using closed
 3 cab application, was that recommendation accepted?
 4 A. That recommendation is on labels but
 5 not as a mandate. It is part of what's standard
 6 label recommendations under the WPS, so those
 7 recommendations would be on labels typically, but
 8 our labels did not specifically require someone to
 9 use a closed cab.
 10 Q. And they still don't, do they?
 11 A. Not currently.
 12 Q. And you say "not currently" because you
 13 see the changes that may be required in the future
 14 that could alter that, right?
 15 A. That is correct, Mr. Tillery, yes. It
 16 looks like going forward there will be either a
 17 closed cab requirement for folks handling greater
 18 than 80 acres, or less than 80 acres, they would
 19 have an option of a respirator mask or the closed
 20 cab.
 21 Q. So as of today, we're talking about a
 22 dust-type mask and a recommendation of closed cab
 23 but not a requirement, correct?
 24 A. On the current label.

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1 **Q. And that's been the case since 2001,**
2 **hasn't it?**
3 **A. Since the respirator requirements went**
4 **back on the label, yes, sir.**
5 **Q. Okay. These proposals you made were**
6 **not designed to protect against neurotoxicity, were**
7 **they?**
8 **A. No, sir. These were specifically**
9 **designed to address the questions around the nasal**
10 **blood – I think they called it epistaxis or**
11 **nosebleeds.**
12 **Q. Did you ever consult with Syngenta**
13 **scientists about the significance of these proposed**
14 **label changes with respect to potential**
15 **neurotoxicity of paraquat?**
16 **A. I do not recall any such conversations.**
17 **Q. Okay. Let's go to number 41.**
18 **(Exhibit 41 was identified for**
19 **the record.)**
20 **THE WITNESS: Sir, I have the document**
21 **up.**
22 **BY MR. TILLERY:**
23 **Q. All right. If you'd familiarize**
24 **yourself with this.**

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1 **A. Yes, sir.**
2 **MR. WEIR: Steve, while he's doing**
3 **that, I'm not sure how much you have left, but we've**
4 **been going for an hour 45 or so. Maybe after this**
5 **document.**
6 **MR. TILLERY: This is fine. Let's take**
7 **a break. I'm trying to get finished, Tom, I**
8 **promise.**
9 **MR. WEIR: No, I understand. It's been**
10 **a while, but I'm happy to work through this document**
11 **unless you think it makes sense to stop now.**
12 **MR. TILLERY: No, no, let's -- maybe**
13 **this -- while we're off and taking a five-minute**
14 **break you can familiarize yourself with the**
15 **document, please.**
16 **THE WITNESS: Yes, sir.**
17 **MR. TILLERY: No problem. We'll take a**
18 **five-minute break.**
19 **THE VIDEOGRAPHER: We're going off the**
20 **record. The time is 3:26. This ends Media Unit**
21 **Number 5.**
22 **(Recess taken.)**
23 **THE VIDEOGRAPHER: We're going back on**
24 **the record. The time is 3:43. This begins Media**

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1 **Unit Number 6.**
2 **BY MR. TILLERY:**
3 **Q. Exhibit Number 41, did you have an**
4 **opportunity on the break to read through that**
5 **document?**
6 **A. Yes, sir.**
7 **Q. All right. And if you'll look on the**
8 **second page of that, did you happen to look at that**
9 **as well?**
10 **A. I did.**
11 **Q. All right. And this is an email where**
12 **Jerry -- who is Jerry that wrote it?**
13 **A. So Jerry Wells was the paraquat**
14 **regulatory manager that was the predecessor to me**
15 **taking that role, so at that time he was the**
16 **paraquat registration manager.**
17 **Q. And it says, "Please review the**
18 **document prepared by Monty Dixon." And is that**
19 **document attached? It's not, is it?**
20 **A. I do not see that attached.**
21 **Q. Do you remember what that document was?**
22 **A. I -- I believe just knowing the nature**
23 **of the role that I would have been in and I think it**
24 **mentioned on this -- next page, it would have been**

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1 **my analysis as a worker exposure assessor on what**
2 **the potential options were going forward to try to**
3 **address the concerns from a worker exposure**
4 **standpoint.**
5 **Q. So for the record, and because this**
6 **isn't really being captured, this is a September**
7 **17th, 2001 email exchange, isn't it?**
8 **A. Yes, sir.**
9 **Q. All right. And it has a PQT document,**
10 **and it says, "Gentlemen, please review the document**
11 **above prepared by Monty Dixon. I think it hits the**
12 **mark for where we are trying to go to get the dust**
13 **mist filter requirement removed from the paraquat**
14 **labels in the United States. And as soon as I get**
15 **your comments and we agree on proper wording, I plan**
16 **to submit ASAP to the EPA," right?**
17 **A. Correct.**
18 **Q. And was your document or some iteration**
19 **of it ultimately submitted to the EPA?**
20 **A. I do not know, Mr. Tillery. In that**
21 **time I would have provided it to the regulatory team**
22 **and they would have made the submission. I am not**
23 **sure if Jerry submitted the document I provided or**
24 **if he would have written his own potential letter**

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1 using points and statements from that document, so
 2 I'm not sure whether that specific document was
 3 submitted or not.
 4 **Q. Okay. If you look back in the**
 5 **preceding page, there's a reference from Ian Wheals**
 6 **to -- to Jerry Wells, right?**
 7 A. Correct.
 8 **Q. What's the significance of this**
 9 **particular email exchange?**
 10 A. When I look at the email exchange and
 11 looking at the folks that are on the email exchange,
 12 it looks like they were working through their
 13 regulatory path forward to try to address the
 14 dust/mist filter. It summarizes much of what we
 15 were just talking about in the prior exhibit about
 16 trying to point out the potential to create a sink,
 17 a sink being a potential reservoir for repeating
 18 irritation.
 19 And I think it was also pointing out or
 20 going through trying to establish the logic to
 21 present to EPA about making sure that it's
 22 reiterating the position on inhalation not being a
 23 relevant route to exposure, talking about the --
 24 just day-to-day activities where somebody could

1 **Q. And you still do?**
 2 A. We still do believe that the inhalation
 3 risk is not -- with paraquat we do not believe
 4 because of the particle and droplet size that
 5 inhalation risk is a real world risk. It is when
 6 you get the inhalation end point from these studies
 7 where they've done it in the rats where they create
 8 artificially small particles, you get these -- you
 9 get the point of departure that -- that's driving
 10 the current risk assessments.
 11 But it's been Syngenta's position and
 12 consistent position that inhalation exposure risk is
 13 not a relevant risk to workers.
 14 **Q. Let's go to the next exhibit,**
 15 **number 42.**
 16 (Exhibit 42 was identified for
 17 the record.)
 18 BY MR. TILLERY:
 19 **Q. And just if we can quickly, look at**
 20 **this. I think this is the follow-up letter to the**
 21 **EPA that was generated from your work.**
 22 A. I'd like to read the cover letter,
 23 please, sir.
 24 **Q. Well, yeah, take your time, sir.**

1 potentially gain an irritation.
 2 We've talked about on the label,
 3 Mr. Tillery, like washing your hands before smoking,
 4 drinking. It seems to be just building those --
 5 those points into what would ultimately be the
 6 position that the company was going to take.
 7 **Q. And it's been the position of the**
 8 **company from basically from the first year of**
 9 **application of this that an applicator in the field**
 10 **is not required to wear a mask, right?**
 11 A. Are you referring all the way back to
 12 1966, sir?
 13 **Q. You bet.**
 14 A. Okay.
 15 **Q. I sure am.**
 16 A. Based on all of the documents we've
 17 reviewed and what we've seen, it's been a consistent
 18 position that the inhalation exposure is not
 19 considered a risk and so there hasn't been a
 20 consistent position that people should wear a mask.
 21 **Q. Well, there's been a consistent**
 22 **position that they don't need to wear a mask, right?**
 23 A. We -- we have made that -- that
 24 petition and that -- taken that position, yes, sir.

1 A. Okay, sir, I think I am ready.
 2 **Q. Okay. Look at the second paragraph,**
 3 **first sentence. It says, "The requirement" -- he's**
 4 **referring to the dust/mist filter requirement,**
 5 **right?**
 6 A. Correct.
 7 **Q. "The requirement was not due to**
 8 **concerns over inhalation of paraquat," correct?**
 9 A. Correct.
 10 **Q. Did the EPA agree with that?**
 11 A. Yes. You can see in different EPA
 12 documents where the EPA has indicated that
 13 inhalation risk for paraquat should be assessed only
 14 if there is a -- basically a risk for that. The
 15 2001 HIARC, for example, which would have been about
 16 this same time frame reaches that conclusion. I
 17 believe there's also roughly something to that same
 18 rationale presented in the '97 RED.
 19 **Q. Okay. If you go to the next paragraph,**
 20 **first sentence.**
 21 A. Yes.
 22 **Q. "The request to add the requirement for**
 23 **the dust mist filter was due to reported incidents**
 24 **of epistaxis (nose bleeds) and upper respiratory**

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1 Irritation associated with exposure to paraquat,"
2 right?
3 A. Correct.
4 Q. It wasn't due to neurotoxicity. That's
5 what you're saying, right?
6 A. Correct, sir.
7 Q. And if you go to the second page, next
8 to the last paragraph.
9 A. Yes, sir.
10 Q. The last sentence.
11 A. Okay.
12 Q. "Syngenta respectfully submits that the
13 changes proposed in the attached label amendment
14 which emphasize the importance of minimizing hand to
15 face contact and avoiding contact with spray mist
16 are more effective in preventing epistaxis than the
17 addition of a dust mist filter to applicators PPE,"
18 correct?
19 A. That's what is stated there, yes, sir.
20 Q. All right. And 43 is next.
21 (Exhibit 43 was marked for
22 identification.)
23 BY MR. TILLERY:
24 Q. I just want to ask some general

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1 questions. Did Syngenta continue to take the
2 position with regulators that a mask – strike that.
3 Did Syngenta continue to take a
4 position with regulators that a respirator of this
5 dust/mist-type respirator was not required?
6 A. Yes, sir. Let me – I just got the
7 exhibit. Let me read it real quick to answer your
8 question.
9 Q. Yes.
10 A. So that was an email from Scott to --
11 and I'm sorry. Mr. Tillery, can you restate your
12 question just --
13 Q. Yeah, I'm trying to get to -- to a
14 general state on this where there's no issue
15 about -- so I don't have to pull up a whole series
16 of documents.
17 A. Sure.
18 Q. Is it fair to say that Syngenta has
19 taken a position with regulators and elsewhere and
20 have led the way sort of that it's not necessary to
21 wear these dust/mist filters when you're applying
22 this -- paraquat products?
23 A. We have taken that position. I believe
24 once this has resolved, or was resolved back in this

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1 time frame and EPA said, "No, these are required,"
2 we no longer have been trying to advocate the
3 removal of the dust/mist filter.
4 Once this series of back-and-forths
5 with the agency came into place and established that
6 those respirators were going to be required, I
7 think -- I do not believe Syngenta has made any
8 further efforts to remove the respirator at that
9 point.
10 Q. Okay.
11 A. The dust/mist filter.
12 MR. WEIR: And let me just impose an
13 objection to the last question. Sorry I was muted
14 when I said it.
15 BY MR. TILLERY:
16 Q. Okay. And here if you could look at
17 that second paragraph. It says -- and this is an
18 email exchange, correct?
19 A. Correct.
20 Q. And it's February 27th, 2002 at the
21 bottom, and it's Gramoxone DOT changes, right?
22 A. Yes, sir.
23 Q. And that's from Austin -- no, that's
24 from Rusty Wendt, right?

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1 A. Correct.
2 Q. And then at the top there are a large
3 number of people involved in that discussion, right?
4 A. Correct.
5 Q. And this exhibit is
6 Syngenta-PQ-31448158, and the person who wrote this
7 is Chuck Foresman; is that right?
8 A. Correct.
9 Q. And who is he?
10 A. Chuck Foresman would have been what we
11 call a brand manager, so what Chuck would be
12 involved with is coming up with the marketing and
13 business strategies around that product.
14 Q. And he says in that email, "For your
15 information, we are steadfast in our resolve to get
16 this dust mist filter requirement off the label in
17 the future and are working with the state of
18 California to accept new PPE labeling directions
19 more pertinent to reducing exposure to the
20 applicator, for instance, avoid contacting your nose
21 with your finger after contaminating it with
22 Gramoxone. Will keep you informed," right?
23 A. Yes, sir.
24 Q. So as of the date of this email which

69 (Pages 523 to 526)

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1 was 2002 in February, Syngenta was still very
2 strongly committed to getting rid of the dust/mist
3 filter requirement on the label, right?
4 A. That's what this email indicates.
5 Q. Okay. Now, let's look at 44.
6 (Exhibit 44 was identified for
7 the record.)
8 BY MR. TILLERY:
9 Q. I want to show you this and I have a
10 couple questions for you.
11 A. Let me scan this really quickly, sir.
12 Q. And this is Syngenta-PQ-01981745. The
13 12/12/03 document entitled "Paraquat: A unique
14 contributor to agriculture and sustainable
15 development."
16 Do you remember seeing this document at
17 the time?
18 A. Mr. Tillery, I don't recall seeing this
19 document at the time. I may have but I certainly do
20 not remember seeing it if I did.
21 Q. This is what appears to be a report and
22 created by a Mr. Srinivasan, correct?
23 A. Let's see here. Yes, Mr. Srinivasan,
24 okay.

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1 Q. And if you look at the bottom under
2 number 6.
3 A. And, Mr. Tillery, just it's called a
4 report. It looks to me or the question about this
5 report, this looks to me more like a Q & A type.
6 Q. Yes, I think you're right. It's a
7 Q & A is what it really is.
8 A. Yes, sir, for number 6.
9 Q. Yeah, dated December 12th, 2003, and it
10 is in fact just that. And it demonstrates on
11 point 6 that he got paid by Syngenta, a sum not –
12 as he referred to it, a nominal fee to complete the
13 assessment but retained editorial control, okay?
14 A. Okay.
15 Q. And he is in paragraph 5 saying why
16 he's releasing this now, and he says "This
17 comprehensive review has been in progress for over
18 the last 12 months and is now ready for release.
19 Syngenta believes in the importance of making
20 balanced and credible information available to
21 consumers, users, regulators, and all stakeholders,"
22 right?
23 A. Yes, sir.
24 Q. All right. So let's go with

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1 paragraph 16.
2 A. Okay.
3 Q. And that would be on page 3.
4 A. Okay.
5 Q. It's paragraph – strike that.
6 "Is paraquat safe for operators?" And
7 I'll read it into the record. "Under normal use
8 conditions (i.e., as recommended on the label and in
9 minor predictable deviations) the product is safe to
10 the user and the bystander. When spraying
11 Gramoxone, Syngenta recommends the operator does not
12 need any special protective clothing. Normal
13 clothing, that is, a long-sleeved shirt, long
14 trousers and waterproof shoes are generally advised
15 for spraying all pesticides including Gramoxone."
16 Was that Syngenta's position at that
17 time in 2003?
18 A. I'm trying to remember specifically
19 what the label said. The answer would certainly
20 have had the position the label must be followed, so
21 if those were the clothing requirements on the
22 label, then that would have been our position.
23 Q. Why would then this be released by the
24 Greensboro communications specialist about the use

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1 and safe use of paraquat if it didn't dovetail
2 directly with what was on the label?
3 A. My assumption is that –
4 MR. WEIR: Sorry, Monty. I object to
5 foundation and outside the scope, I believe.
6 BY MR. TILLERY:
7 Q. Go ahead, sir.
8 A. My assumption is that it does dovetail
9 with the label, but I just – since I'm on the
10 record here, I don't want to make a definitive
11 statement unless I have a definitive recollection of
12 it.
13 Q. Okay. Well, let's talk about if you
14 go – we're going to come back – but let's go to
15 the next page and paragraph 17.
16 A. Yes, sir.
17 Q. It says, "In developing countries with
18 hot climates, the protective clothing you describe
19 is often impractical. How are farmers supposed to
20 protect themselves from paraquat exposure in these
21 situations?"
22 And then he writes an answer, doesn't
23 he?
24 A. He does.

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1 Q. So the question is what I read is, and
 2 the answer is, "Results from more than 40 years of
 3 field use and many worker exposure studies show that
 4 paraquat can and is being used safely by millions of
 5 farmers in both the developed and developing world.
 6 This includes circumstances where minor and
 7 predictable deviations from the label are taken,
 8 such as not always wearing shoes" -- "wearing gloves
 9 and mask. In fact, the safety record of the product
 10 in the developing world matches that in other
 11 regions.
 12 "We advise normal work wear for
 13 spraying Gramoxone: Long trousers, long-sleeved
 14 shirt, and waterproof boots. For mixing and
 15 loading, the addition of nitrile gloves and a face
 16 shield is also recommended. Some regulatory
 17 authorities recommend gloves and face mask on the
 18 label.
 19 "The skin is actually an excellent
 20 barrier to paraquat, and the product has no vapor
 21 pressure to allow it to be inhaled," right?
 22 A. Correct.
 23 Q. So is it your belief today that the
 24 skin is an excellent barrier to paraquat?

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1 A. Intact skin for short-term exposure is.
 2 I believe the normal absorption by you has been
 3 demonstrated to be about 0.3 percent.
 4 Q. So getting it on your hands wouldn't be
 5 something you'd be concerned about if the person
 6 didn't have some cut, scrape, bruise, abrasion,
 7 et cetera, that would allow it to penetrate into the
 8 bloodstream?
 9 A. It certainly is our recommendation that
 10 you immediately would stop and wash the hand.
 11 That's in the paraquat training materials we
 12 developed that are now part of the standard
 13 training. So our position would be certainly if you
 14 have dermal exposure, immediately wash it off.
 15 I think the data has shown that for a
 16 short-term exposure there is very low potential for
 17 dermal absorption, but given longer-term exposure
 18 you could have skin irritation and that could
 19 complicate the situation.
 20 Q. Now, this Q & A is dated December 12th,
 21 2003, isn't it?
 22 A. I believe that's correct.
 23 Q. Right. And this is two years after the
 24 EPA and the discussion with the EPA about the

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1 dust/mist filter, right?
 2 A. That would be correct, two years after.
 3 Q. And Syngenta is taking a very clear
 4 position that it is not required, aren't they here?
 5 MR. WEIR: Object to the form.
 6 THE WITNESS: Okay. Yes, I mean, the
 7 position that they're taking here, and I think it's
 8 an acknowledgment that you have in different regions
 9 different regulatory standards. The EPA tends to be
 10 one of the more highly regulated regions that some
 11 regulatory authorities will require more mitigations
 12 and -- than others.
 13 And in the case of the face mask or the
 14 dust/mist filter is Syngenta clearly had taken the
 15 position that it didn't believe it was warranted.
 16 However, once EPA mandated it, then it would be
 17 something that we would have on our U.S. labels.
 18 BY MR. TILLERY:
 19 Q. And you have them on the label, but if
 20 people ask you, and this is a question and an
 21 answer. This was an official position, question and
 22 answer. You told them in your opinion it wasn't
 23 necessary, right?
 24 MR. WEIR: Object to the form.

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1 THE WITNESS: Okay.
 2 BY MR. TILLERY:
 3 Q. Is that correct?
 4 A. Our position is always you must follow
 5 the label directions.
 6 Q. Well, but here look at number 17 and
 7 the answer.
 8 A. Yes, sir.
 9 Q. "We advise normal work wear for
 10 spraying Gramoxone: Long trousers, long-sleeved
 11 shirt and waterproof boots." That's what you
 12 recommend, right?
 13 A. That's what is stated there, yes, sir.
 14 Q. Yeah. I mean, that doesn't say one
 15 word about a -- a spray mist filter, does it?
 16 MR. WEIR: Object to the form. I think
 17 it misrepresents the document.
 18 BY MR. TILLERY:
 19 Q. Go ahead, sir.
 20 A. And my position on that or the way I
 21 view this is taking that one paragraph as it is
 22 written doesn't make a reference to the label. The
 23 label is the law and Syngenta always recommended
 24 people follow the label.

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1 Q. Right. But you don't say that here, do
 2 you? Where does it say – let me just say this to
 3 you. You say it's hot in developed – hot climates,
 4 okay? Hot climates cause people to compromise and
 5 not always follow instructions, and you say your
 6 advice would be to wear what you would have them
 7 wear, normal work wear for spraying Gramoxone, long
 8 trousers, long-sleeved shirt, and waterproof boots,
 9 right? That's what you say.
 10 A. That's what the document there states.
 11 Q. Right. And for mixing and loading, the
 12 addition of nitrile gloves and a face shield is also
 13 recommended, right?
 14 A. That's what's said there, yes, sir.
 15 Q. Now, that's the end of your
 16 recommendations?
 17 A. No, sir. I think if you go to the very
 18 next sentence it also indicates some regulatory
 19 authorities recommended gloves and face mask on the
 20 label, so there's a reference there that you should
 21 make sure that you're doing what's recommended on
 22 the label.
 23 Q. But that's not what you're – the way
 24 this is worded isn't what you're recommending. You

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1 say "We advise," and then you say "some regulatory
 2 authorities recommend gloves and face mask," right?
 3 A. As I read that, that's all
 4 comprehensive in the same paragraph, sir.
 5 Q. Okay. And then the skin is an actual
 6 barrier to paraquat and the product has no vapor
 7 pressure to allow it to be inhaled, correct?
 8 A. That's what is stated there.
 9 Q. All right. Let's go to the bottom of
 10 the page and number 18.
 11 A. Yes, sir.
 12 Q. The question is "What role does
 13 paraquat play in Parkinson's Disease?"
 14 A. Okay.
 15 Q. Do you see that?
 16 A. That is number 18, sir?
 17 Q. 18. It's the number, paragraph 18.
 18 A. Yes, sir.
 19 Q. Do you see it?
 20 A. I'm not seeing the reference to
 21 Parkinson's, but maybe I'm overlooking it, sir.
 22 Q. It's on that same page that you were
 23 on.
 24 A. I'm sorry, sir. I got confused because

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1 18, 19, back to 18.
 2 Q. Yeah, no, it's – it's – it's the
 3 paragraph.
 4 A. I'm with you now, okay. So the one
 5 that's highlighted here?
 6 Q. Right.
 7 A. Okay.
 8 Q. And it says, "There is no scientific or
 9 reliable epidemiological evidence to link paraquat
 10 with Parkinson's Disease. Previous studies have
 11 demonstrated that paraquat does not cross the
 12 blood-brain barrier easily, meaning that it does not
 13 reach to specific location in the brain necessary to
 14 produce Parkinson's symptoms. Epidemiology studies
 15 in areas of high and long-term exposure usage have
 16 shown no increase of neurotoxic incidents."
 17 Is that right? Is that what it says?
 18 A. That's what it says, yes, sir.
 19 Q. All right. Now, let's go to the bottom
 20 there of the page and look what it says. "Syngenta
 21 communications contact." This came from Sherry
 22 Ford's office in Greensboro, didn't it?
 23 A. It did.
 24 Q. Okay. Let's go to Exhibit 45 now.

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1 (Exhibit 45 was identified for
 2 the record.)
 3 THE WITNESS: Let me make sure I have
 4 the document open.
 5 BY MR. TILLERY:
 6 Q. All right. If you'd open that and --
 7 A. Okay.
 8 Q. The question-and-answer document by
 9 Mr. Srinivasan that we looked at went along with a
 10 2004 report on paraquat by Mr. Srinivasan, right?
 11 A. That appears to be this case, yes, sir.
 12 Q. And Mr. Srinivasan was paid by Syngenta
 13 to prepare the report, right?
 14 A. That's what -- yes, that was stated in
 15 the other document.
 16 Q. And that's still on or was at least a
 17 few weeks ago on the paraquat.com website that
 18 Syngenta maintains, correct?
 19 A. I do not have a reason to doubt that.
 20 I can't confirm it, but I don't have a reason to not
 21 believe that.
 22 Q. Okay. So if we can, go to page 50.
 23 A. Okay. And just for clarity, as I'm
 24 going to page 50, Mr. Tillery, when you said it was

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1 on the paraquat.com website, I'm assuming that was
 2 that Q & A that we just reviewed?
 3 Q. I think this report is what's on –
 4 or – I think the report is what I'm referring to.
 5 A. Okay. All right. So I am now on
 6 page 50, sir.
 7 Q. And this is adverse effects?
 8 A. That's – yes, sir.
 9 Q. Okay. And if you go to the second
 10 paragraph.
 11 A. Okay.
 12 Q. "Concern has been raised over the fact
 13 that some workers do not use the protective clothing
 14 recommended for pesticide spraying."
 15 Do you see that?
 16 A. I see that.
 17 Q. "However, this is understandable in an
 18 environment where temperatures routinely exceed
 19 27 degrees Celsius (80 degrees Fahrenheit) and
 20 humidity can be close to 100 percent. Whilst few
 21 workers wear full protective clothing, studies have
 22 found that most workers use appropriate safety
 23 equipment and apparel. Moreover, WHO* – is that
 24 the World Health Organization, sir?

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1 A. I believe that's what that would be
 2 referencing.
 3 Q. "WHO studies confirm that safety" –
 4 "that despite this practice there is no evidence
 5 indicating long-term health impacts of workers that
 6 are occupationally exposed to paraquat. There are
 7 no recorded instances of fatalities from
 8 occupational exposure to paraquat and no reason to
 9 believe that there ever will be any fatalities."
 10 Is that what he said?
 11 A. That's what he said, sir.
 12 Q. Okay. Now, if we go to 69 of that same
 13 document, that report. There's a section called
 14 "Paraquat safety." Do you see that?
 15 A. I do see that.
 16 Q. Now, according to Syngenta, he says,
 17 "Safe handling and use of paraquat may be ensured by
 18 following five simple rules (these are promoted by
 19 Syngenta as the '5 golden rules')." Okay?
 20 "1. Be aware of risks," right?
 21 A. Yes, sir.
 22 Q. "2. Understand safety precautions -
 23 avoid exposure, avoid contact with skin and eyes,
 24 secure containers." Okay? Is that number 2?

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1 A. That is number 2.
 2 Q. Number 3 is "Personal hygiene - wash
 3 and change clothes at the end of spraying," right?
 4 A. Correct.
 5 Q. 3 is "Knapsack sprayer maintenance."
 6 Do you see that?
 7 A. I see that.
 8 Q. And 4 is "Appropriate personal
 9 protective equipment - simple protection, provided
 10 by work clothes and boots, is sufficient."
 11 Is that what they say?
 12 A. That's what they say, yes, sir.
 13 Q. Is there any reference there that you
 14 can see to any kind of masks or gloves?
 15 A. There is no reference there to mask or
 16 gloves.
 17 Q. Okay. Now if we can I'd like to go to
 18 the paraquat – paraquat.com website. Okay?
 19 A. Okay.
 20 Q. And this is -- this is Exhibit 46.
 21 (Exhibit 46 was identified for
 22 the record.)
 23 BY MR. TILLERY:
 24 Q. And this is the paraquat information

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1 center?
 2 A. Okay.
 3 Q. The paraquat.com website was created
 4 and is maintained by Syngenta, right?
 5 A. Correct.
 6 MR. WEIR: Would you mind if I can get
 7 a standing objection on scope here since we
 8 designated other witnesses on the website?
 9 MR. TILLERY: Okay. Is this Botham's
 10 topic?
 11 MR. WEIR: I don't recall if we did for
 12 Botham or Mr. Ouzts, if I'm honest, but I know it
 13 wasn't for Mr. Dixon.
 14 BY MR. TILLERY:
 15 Q. Hold on. Okay. Let's just cover a
 16 brief section. If you'd go to this called "Safety
 17 FAQs." Do you see that?
 18 A. Yes, sir, I see that.
 19 Q. Under number 5.
 20 A. Okay.
 21 Q. And just so we're clear, was the
 22 website intended to provide facts and information
 23 about paraquat to people who might be able to access
 24 it and answer questions?

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1 A. That's my understanding of the
 2 intention of the website is to be a location with
 3 factual information to inform folks about paraquat.
 4 Q. Does it mention using a respirator to
 5 use paraquat safely?
 6 A. I do not see a reference to a
 7 respirator, sir.
 8 Q. Okay. Actually, it says in number 5,
 9 "Use personal protective clothing and equipment
 10 (PPE) where required. For paraquat this is defined
 11 as using" – sorry – strike that.
 12 "For paraquat this is defined as using
 13 eye protection and gloves when handling concentrated
 14 product and normal work wear, such as long-sleeved
 15 shirt, trousers, and waterproof shoes, for
 16 spraying," right?
 17 A. That's what's stated there, yes.
 18 Q. And that's – that's good as of 2020?
 19 A. Correct.
 20 Q. Okay. Not a mention of a mask, right?
 21 A. The only mention would be as part 5
 22 where it says, "Use protective clothing and
 23 equipment (PPE) where required." So if you're in a
 24 region where the label requires PPE, that indicates

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1 you should use that required PPE.
 2 Q. You don't think this is sending a
 3 message to people who are – a farmer who's
 4 accessing this on his home computer and looking at
 5 it, you don't think this is sending a message to him
 6 that there's no need to wear a mask? Is that –
 7 MR. WEIR: Objection. Sorry, object to
 8 the foundation and the form.
 9 THE WITNESS: I certainly yield the
 10 point that it does not specifically say mask, and
 11 what it defines as the protection there, there is
 12 that clause that says "Use PPE where required." So
 13 it's – this document is intended to cover – or
 14 this website, I believe, is intended to cover the
 15 world, and so there are some differences, I guess,
 16 in the regional requirements, and perhaps that's why
 17 that sentence is phrased the way it is.
 18 MR. TILLERY: I see.
 19 Let's go off the record now and see if
 20 I can wrap up, okay? Just for a second.
 21 THE VIDEOGRAPHER: We're going off the
 22 record. The time is 4:22. This ends Media Unit
 23 Number 6.
 24 (Recess taken.)

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1 THE VIDEOGRAPHER: We're going back on
 2 the record. The time is 4:28. This begins Media
 3 Unit Number 7.
 4 BY MR. TILLERY:
 5 Q. On the record. I'm told that I did not
 6 record on the record the Bates number for
 7 Plaintiffs' Deposition Exhibit Number 43. And that
 8 is Syngenta-PQT-ATR-01330649.
 9 Mr. Dixon, did Syngenta ever internally
 10 research or examine the overall effectiveness of its
 11 paraquat warnings and labels?
 12 A. I'm not sure exactly how to answer
 13 that, sir. I don't have any recollection or
 14 first-hand knowledge, but I can't say that over the
 15 years there's not been a case where they potentially
 16 tried to evaluate the labels. One of the key
 17 elements of the labels, of course, is that most of
 18 the statements on there are mandated by the EPA,
 19 their Label Review Manual.
 20 So once our labels are submitted and we
 21 have the approval, it's been vetted with the EPA,
 22 and the statements typically are based upon what's
 23 required through that Label Review Manual and the
 24 different requirements within the 40 CFR for labels.

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1 Q. I understand your point, but my
 2 question to you is different. Irrespective of the
 3 origin of each word or each sentence on the label,
 4 what was mandated by FIFRA or anything else, did
 5 Syngenta ever initiate any research to examine the
 6 effectiveness of its warnings or labels, to your
 7 knowledge?
 8 A. To my knowledge, I'm not aware of any
 9 such activity.
 10 Q. Okay. Did Syngenta ever hire a third
 11 party to research the overall effectiveness of its
 12 warnings or labels?
 13 A. To my knowledge, I'm not aware of that
 14 being done.
 15 Q. Did Syngenta ever internally research
 16 or examine the specific language of its warnings or
 17 labels?
 18 A. To my knowledge, no. I will indicate
 19 that when we did do the Spanish translations that
 20 we've done, part of that involved discussion with
 21 the EPA to ensure that we were able to select the
 22 appropriate – there's many different Spanish
 23 dialects, so that was an attempt to ensure that the
 24 Spanish translations that we put particularly on the

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1 counter card would be clear to the most like users
 2 who would be predominantly Spanish-speaking people.
 3 So that was an attempt to use a
 4 professional organization to improve the readability
 5 of that part of the label.
 6 **Q. Did Syngenta ever hire a third party to**
 7 **research the specific language of its warnings or**
 8 **labels?**
 9 A. Not that I'm aware of, sir. Not that I
 10 recall.
 11 **Q. For example, in order to address the**
 12 **effectiveness of any statement on the label**
 13 **regarding the use of any kind of mask or respirator,**
 14 **did Syngenta ever hire anybody to do any kind of**
 15 **analysis to decide how many people were actually**
 16 **following that direction or regulation or warning on**
 17 **the label?**
 18 A. I -- to the best of my recollection, I
 19 have no awareness of that being done. I don't
 20 recall ever seeing anything like that.
 21 **Q. Okay. We're going to do a Share screen**
 22 **now real quick to finish, and that Share screen will**
 23 **involve a database that's listed -- listing you as**
 24 **the custodian, okay?**

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1 (Exhibit 47 was identified for
 2 the record.)
 3 BY MR. TILLERY:
 4 **Q. Can you see this document, sir?**
 5 A. I do, although I'm not sure what this
 6 is.
 7 **Q. Well, we were going to ask you the same**
 8 **thing. This is a -- this was given to us as the**
 9 **document. If you look at all the columns --**
 10 A. Right.
 11 **Q. -- of people who have been exposed**
 12 **through ingestion of paraquat.**
 13 A. Okay.
 14 **Q. And it lists you as the custodian.**
 15 A. Yes, and I am struggling because this
 16 does not look like -- I am not familiar with this.
 17 I -- I have done -- and I guess some of these
 18 folders -- are those folders' names associated with
 19 the discovery process or?
 20 **Q. You mean in this case?**
 21 A. Like, where I see Syngenta group
 22 identifier or original file path control --
 23 **Q. We got this document exactly the same**
 24 **form as is being shown to you right now.**

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1 MR. WEIR: That was going to be my
 2 question, Steve. This was a document that was
 3 produced like this to you by us?
 4 MR. TILLERY: Yes, by your partner.
 5 MR. WEIR: Okay.
 6 BY MR. TILLERY:
 7 **Q. And it was the subject of discussion in**
 8 **Dr. Botham's deposition, and he suggested that we**
 9 **direct our questions to you. Okay?**
 10 A. So he has -- he had -- you know, as I'm
 11 looking at this, Mr. Tillery, I don't -- it looks to
 12 me, and I'm just piecing together looking at this
 13 screen, I'm seeing file names and different people.
 14 It looks like -- I see some references to Prosar.
 15 This looks to me like some generated database that
 16 may have had something to do with recovering files,
 17 but I am struggling. I see Steven Wall's name. I
 18 see Steven Goldsmith. I don't even know who that
 19 is.
 20 **Q. Yeah, so these -- what we're trying to**
 21 **figure out is is your connection to or involvement**
 22 **with maintaining databases of people who have**
 23 **ingested paraquat.**
 24 A. I don't have any database that I

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1 maintain, sir. What we do have is we have our
 2 relationship with Prosar that became ProPharma that
 3 I have the ability to access through a pass code,
 4 you know, like a website login. I certainly over
 5 the years at times downloaded reports from Prosar or
 6 ProPharma to try to understand the data that was in
 7 there.
 8 But I do not have any type of database
 9 that I maintain, and so looking at this document I
 10 see a lot of references to ProPharma from people
 11 like Fernando Suarez who's a toxicologist. Earlier
 12 on I went down I saw different Syngenta people, Pat
 13 McCain who I would assume would have no real
 14 interaction. So it looks to me -- I'm not sure
 15 where this came from.
 16 Tom, do you have any idea because it's
 17 not a database -- I don't maintain any databases,
 18 sir.
 19 **Q. Let me ask you this: Is -- is the**
 20 **information contained here limited in time to a**
 21 **beginning point, to your knowledge?**
 22 A. Can I have -- let me scroll to the top
 23 just to see what's there.
 24 **Q. Is there any way we can give him**

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1 control? They tell me no.
2 THE WITNESS: So, for example, Tom, are
3 those Bates numbers there, those SYNG stuff or?
4 MR. WEIR: I probably shouldn't be
5 doing any testifying here. I mean, those are --
6 MR. TILLERY: I don't mind if you do
7 just as a way of an explanation. We're not going to
8 play this -- we stipulate that we are not going to
9 play this to a jury or judge.
10 MR. WEIR: I'll say, Steve, that this
11 to me doesn't look like a document that we would
12 have produced. It looks like an export from a
13 database that lists documents that were produced,
14 but if you want to -- If you want to send me along
15 the email from Ragan or something that attached
16 this, I'm happy to take another look at it and we
17 can get back to you.
18 MR. TILLERY: Yeah, I'm --
19 unfortunately this is you see here other kinds of
20 people listed.
21 THE WITNESS: You know, I don't even
22 know who Steven Goldsmith is. I do see Pat McCain,
23 but he's not associated with paraquat. And these
24 control numbers, I have no idea what those are.

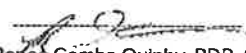

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1 MR. TILLERY: Okay. Well, we don't
2 either. But we were just going to ask. So thank
3 you very much, Mr. Dixon. Thank you for your time
4 and these depositions hours. No further questions.
5 THE WITNESS: Thank you, Mr. Tillery.
6 MR. WEIR: No redirect from Syngenta.
7 MR. TILLERY: All right. And let me
8 take this down, please, and can you take that down?
9 And we're going to put -- you know, an exhibit
10 placeholder 47 just to reference it.
11 MR. WEIR: Yeah, that's fine. Thanks,
12 Steve.
13 MR. TILLERY: Off the record now.
14 THE VIDEOGRAPHER: We're going off the
15 record. The time is 4:38. This ends Media Unit
16 Number 7.
17 (Discussion off the record.)
18 THE VIDEOGRAPHER: We're going back on
19 the record. The time is 4:39. This begins Media
20 Unit Number 8.
21 Go ahead, Renee.
22 THE REPORTER: Standing orders for
23 everyone?
24 MR. TILLERY: There are for the

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1 plaintiffs, correct?
2 MR. WEIR: Yes, for Syngenta.
3 MS. CECIL: Yes, for Chevron, thank
4 you.
5 MS. KIMBALL: Yes, for Growmark.
6 THE VIDEOGRAPHER: And standing orders
7 for everybody on video?
8 MR. TILLERY: For the plaintiffs, yes.
9 MR. WEIR: For Syngenta, yes.
10 MS. CECIL: For Chevron, yes.
11 THE VIDEOGRAPHER: Ms. Kimball?
12 MS. KIMBALL: I don't think we have a
13 standing order for the video. The standing order is
14 no order.
15 THE VIDEOGRAPHER: Perfect. Thank you.
16 This concludes the video-recorded deposition of
17 Montague Dixon. We're going off the record at 4:40.
18 (Whereupon, signature was not
19 waived and the witness was
20 excused at 4:40 p.m.)
21 --oOo--
22
23
24

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1 CERTIFICATE OF REPORTER
2 I, RENEE COMBS QUINBY, a Registered
3 Diplomate Reporter, Certified Realtime Reporter,
4 Certified Court Reporter (MO), Certified Court
5 Reporter (IL), and Notary Public within and for the
6 State of Missouri, do hereby certify that the
7 witness whose testimony appears in the foregoing
8 deposition was duly sworn by me to testify to the
9 truth and nothing but the truth; that the testimony
10 of said witness was taken by stenographic means by
11 me to the best of my ability and thereafter reduced
12 to print under my direction.
13 I further certify that I am neither
14 attorney nor counsel nor related nor employed by any
15 of the parties to the action in which this
16 deposition was taken; further, that I am not a
17 relative or employee of any attorney or counsel
18 employed by the parties hereto or financially
19 interested in this action.
20 My Commission expires April 9, 2021
21  
22 Renee Combs Quinby, RDR, CRR, CCR (MO) #1291,
23 CSR (IL) #084-004867
24

76 (Pages 551 to 554)

MONTY DIXON VOLUME II 1/7/2021

1 ALARIS LITIGATION SERVICES
 2
 3 January 18, 2021
 4
 5 Tom Weir, Esq.
 6 Kirkland & Ellis, LLP
 7 1301 Pennsylvania Avenue NW
 8 Washington, D.C. 20004
 9
 10 IN RE: DIANA HOFFMANN, individually and as
 11 Independent Administrator of the Estate of
 12 THOMAS R. HOFFMANN, Deceased, et al. v.
 13 SYNGENTA CROP PROTECTION, LLC, et al.
 14
 15 Dear Mr. Weir:
 16
 17 Please find enclosed your copies of the deposition of
 18 MONTY DIXON taken on January 7, 2021 in the
 19 above-referenced case. Also enclosed is the original
 20 signature page and errata sheets.
 21
 22 Please have the witness read your copy of the
 23 transcript, indicate any changes and/or corrections
 24 desired on the errata sheets, and sign the signature
 page before a notary public.
 Please return the errata sheets and notarized
 signature page to our office at 711 N 11th Street, St.
 Louis, MO 63101 for filing prior to trial date.
 Sincerely,
 RENEE COMBS QUINBY
 Enclosures

1 STATE OF _____)
 2
 3 COUNTY OF _____)
 4
 5 I, MONTY DIXON, do hereby certify:
 6 That I have read the foregoing deposition;
 7 That I have made such changes in form
 8 and/or substance to the within deposition as might
 9 be necessary to render the same true and correct;
 10 That having made such changes thereon, I
 11 hereby subscribe my name to the deposition.
 12 I declare under penalty of perjury that the
 13 foregoing is true and correct.
 14 Executed this ____ day of _____,
 15 20__, at _____.
 16
 17
 18
 19 _____
 20 MONTY DIXON
 21
 22 _____
 23 NOTARY PUBLIC
 24 My Commission Expires:

1 ERRATA SHEET
 2 Witness Name: MONTY DIXON
 3 Case Name: DIANA HOFFMANN, individually and as
 4 Independent Administrator of the Estate of
 5 THOMAS R. HOFFMANN, Deceased, et al. v.
 6 SYNGENTA CROP PROTECTION, LLC, et al.
 7 Date Taken: JANUARY 7, 2021
 8
 9 Page # _____ Line # _____
 10 Should read: _____
 11 Reason for change: _____
 12
 13 Page # _____ Line # _____
 14 Should read: _____
 15 Reason for change: _____
 16
 17 Page # _____ Line # _____
 18 Should read: _____
 19 Reason for change: _____
 20
 21 Page # _____ Line # _____
 22 Should read: _____
 23 Reason for change: _____
 24 Witness Signature: _____