OFFICE OF ZONING AND ADMINISTRATIVE HEARINGS MONTGOMERY COUNTY, MARYLAND

PETITION OF COSTCO WHOLESALE : Case No. S-2863
CORPORATION : OZAH No. 13-12

A hearing in the above-entitled matter was held on September 20, 2013, commencing at 9:34 a.m. in the Rita Davidson Memorial Hearing Room, 100 Maryland Avenue, Rockville, Maryland.

Martin L. Grossman

Hearing Examiner

| | Page 2 | Page 4 |
|--|---|---|
| A | . PPEARANCES | 1 PROCEEDINGS |
| Michele Rosenfeld, Esq. The Law Office of Michele Rosenfeld, LLC 11913 Ambleside Drive | | 2 MR. GROSSMAN: This is the 14th day of a public 3 hearing in the matter of Costco Wholesale Corporation, Board 4 of Appeals No. S-2863, OZAH No. 13-12, petition for a |
| Potomac, Maryland 20854 301-201-0913, (f) 301-990-0924 | | 5 special exception pursuant to Zoning Ordinance 59-G-2.06 to |
| rosenfeldlaw@verizon.net | | 6 allow petitioner to construct and operate an automobile |
| Patricia Warning War | | 7 filling station which would include 16 pumps. The subject |
| Patricia Harris, Esq. Michael Goecke, Esq. | | 8 site is located at 11160 Veirs Mill Road, Silver Spring, |
| Lerch, Early & Brewer | | 9 Maryland. That's Lot N, 631 Wheaton Plaza Parcel 10, also |
| 3 Bethesda Metro Center, Suite 460 Bethesda, Maryland 20814 | | 10 known as Westfield Wheaton Mall in the Zone C-2, general |
| | | 11 commercial. |
| | | The hearing was begun on April 26, 2013 and |
| | | 13 resumed on May 1, May 6, May 23, June 4, June 17, June 19, |
| | CONTENTS | 14 July 8, July 30, July 31, August 2, September 9 and15 September 16. It was noticed to resume again today. The |
| Witnesses: Direct Cross Redirect Recross | | 16 next session has been noticed for Monday, this coming 17 Monday, September 23, here on the second floor, OZAH Board |
| David Sullivan By Mr. Goecke 8 | | 18 of Appeals hearing room in this building, the Council office |
| By Mr. Silverman: 71 By Ms. Rosenfeld: 116 | | 19 building at 9:30 a.m. |
| - | . Goecke 202 | 20 My name is Martin Grossman. I'm the Hearing |
| By Mr | . Silverman 204 | 21 Examiner, which means I will take evidence and write a |
| Kenneth | Chase | 22 report and recommendation to the Board of Appeals which will |
| By Ms | . Rosenfeld 207 | 23 make a decision in this case. Will the parties identify |
| | | 24 themselves please for the record? |
| | | MR. BRANN: Erich Brann for Costco. |
| | Page 3 | Page 5 |
| EXHIBITS | | MS. HARRIS: Good morning. Pat Harris on behalf |
| | | 2 of Costco. |
| Exhibit No. Marked/Received | | 3 MR. GROSSMAN: Hi. |
| | | 4 MR. GOECKE: Good morning. Michael Goecke for |
| 285 | EPA Guideline on Air 10 | 5 Costco. |
| | Quality Models | 6 MR. GROSSMAN: Mr. Goecke. |
| | | 7 MS. CORDRY: Good morning. Karen Cordry,8 Kensington Heights. |
| 286 | Air Quality Odor and Noise 86 | 9 MR. GROSSMAN: Ms. Cordry. |
| | Analysis for Proposed Costco | 10 MS. ROSENFELD: Michele Rosenfeld with Kensington |
| | Gas Station in Wheaton, | 11 Heights. |
| | Maryland, dated 12/20/11 | MR. GROSSMAN: Ms. Rosenfeld. |
| 207 | OGUA rogulations as sabient 201 | MR. SILVERMAN: Larry Silverman, Stop Costco Gas |
| 287 | OSHA regulations re ambient 221 air quality for workers | 14 Coalition. |
| | all quality for workers | 15 MR. GROSSMAN: Mr. Silverman. |
| 288 | Printout from the U.S. 223 | MS. ADELMAN: Abigail Adelman, Stop Costco Gas. |
| 200 | Department of Labor | MR. GROSSMAN: I knew there was somebody different |
| | | 18 here. You don't look like Dr. Adelman. |
| 289 | Publication from the 240 | MS. ADELMAN: Somewhat familiar face.MR. GROSSMAN: He isn't going to be with us today? |
| | United States Department | MR. GROSSMAN: He isn't going to be with us today? MS. ADELMAN: No, he is not. |
| | | MR. GROSSMAN: Oh, okay. All right. Well, we're |
| | of Labor, October 15, 2010 | |
| | of Labor, October 13, 2010 | |
| | of Babor, occober 13, 2010 | 23 happy to have you at counsel table. All right. Let me go |
| | of Habor, Occober 13, 2010 | 23 happy to have you at counsel table. All right. Let me go |

Page 6 1 as a witness by any of the parties? 2 (No audible response.) 3 MR. GROSSMAN: I see Mr. Sullivan raising your 3 MR. GOECKE: Thank you. 4 hand. Did you, are you trying to indicate something? 4 MR. SULLIVAN: No, I'm happy sitting here. 5 BY MR. GOECKE: 6 MR. GROSSMAN: Okay. All right. Hearing no 6 Q Good morning, Mr. Sullivan. 7 7 affirmative responses, I'll move on to preliminary matters. Good morning. 8 There were various filings and exchanges since our last 8 Q I'd like to start today by taking a step back and 9 session. The significant filings include Exhibit 278, an 10 email and graphic attachment from Diane Cameron, in a case like this, how do you begin? 11 11 conservation program director of the Audubon Naturalist A In modeling you first gather information regarding 12 Society; Exhibit 279, which was Kensington Heights Civic 12 the facility, what operations they have, you evaluate the 13 Association's reply to applicant's opposition to the motion 14 in limine; and Exhibit 280, which is my order of September 15

15 18, 2013, denying the motion in limine. The witnesses 16 scheduled for today are Mr. David Sullivan to resume his

17 testimony and Dr. Kenneth Chase, both of whom I see are 18 here.

All right. Once again today we will be 19 20 terminating at right around 4:45. Any other preliminary 21 matters?

Seeing none -- by the way, I noticed just before I 22 came in here that late last night Dr. Adelman sent me an 24 email asking about when I would act on his pending motion 25 for summary disposition which he filed with the Board of

MR. GROSSMAN: I think that's the point I've made at prior hearings. All right. You may proceed. DIRECT EXAMINATION

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Page 9

talking about air modeling generally. When you're retained

land around that facility and you come up with a modeling approach sometimes codified in a protocol. You have that protocol reviewed by the participating parties and

presumably accepted, and then you proceed with implementing 17 that protocol.

Q And the protocol, where is this drawn from? Where 18 do you get the ideas or the guidelines for what the protocol 19 20 is going to involve?

21 A Well, you, of course, do consider the EPA guideline and air quality models which is generally considered the standard of care as a starting point and then look at the particulars of the project at hand. As I've mentioned quite a few times, the goal, initially at least,

1 if you can be conservative all the way through, is to do a

conservative analysis. It allows generally the process to

proceed more smoothly. It helps achieve consensus typically

by doing it in that fashion. Sometimes the conservative

approach, it passes in terms of the standard, sometimes it

doesn't

7 Okay. And you said that the EPA guidelines provide the standard of care. Can you elaborate on what you

9 mean by that?

10 A What they're trying to do is have it such that there's a fairly standardized procedure so that people aren't, you know, using a different model all the time and

they're not making widely different assumptions from project to project. The approach is to try to standardize, to the

extent that they can, but the guideline also says the

ultimate objective is to achieve an accurate answer. So

17 like some cases, of course, judgment is required on a sitespecific basis. The guidance is intended to be regimented,

but it's trying to promote consistency is, I think, the best 19 20 way to describe it.

21 Q Okay. And how did you achieve or what is included 22 in the EPA guidelines that helps one achieve consistency? 23 A Well, for example, it specifies a model selection.

So for a facility such as this gas station which is not 25 usually modeled, but say a small industrial facility at the

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1 Appeals. And I'm not exactly sure what generated that. I 2 really haven't had time to study it, but it's not before me 3 at least at this juncture. There was some conflict in the

4 recitation of what exactly the Board of Appeals did with the 5 two summary disposition motions. When I get something

6 official back from the Board of Appeals, then I'll review

7 that and act accordingly. So if he has a question about

8 that, would you kindly relay that to him?

9 MS. ADELMAN: I certainly will.

10 MR. GROSSMAN: Thank you. All right. All right, 11 seeing no other preliminary matters, I guess we'll move 12 directly back to Mr. Sullivan and even though I denied the 13 motion in limine, I still would like to hear both Mr. 14 Sullivan and Dr. Chase's conclusions based on both Mr.

15 Sullivan's original assumptions and on his more recent, the 16 August 16, 2013 report assumptions.

17 MR. GOECKE: Do you feel like Dr. Chase has not 18 addressed that vet?

MR. GROSSMAN: I'm just, I'm not going to comment 19 20 on that. I'm just saying that I did want to let you know 21 that I did want to hear on both of those, those counts.

22 MR. GOECKE: Okay.

23 MR. GROSSMAN: You, you know, can put on whatever 24 evidence you feel appropriate in that regard.

25 MR. GOECKE: Thank you.

- 1 location of where the Costco site is, it would, if you
- 2 interpreted that guidance, it would say air model is the
- model to use. So we're all starting from the same basic
- starting point. They give guidance on inputs to the model
- and various things with the goal of promoting consistency.
- 6 Q What's the EPA guideline upon which you're 7 relying?
- A It's called Appendix W. It's in the Code of 8
- Federal Register. It's updated periodically and it's called
- the Guideline on Air Quality Models. 10
- 11 MR. SILVERMAN: I have one.
- 12 MR. GROSSMAN: Do you want to have that marked?
- 13 MR. SILVERMAN: Yes.
- 14 MR. GROSSMAN: All right. Thank you. All right.
- 15 (Discussion off the record.)
- 16 MR. GROSSMAN: We'll mark this as Exhibit 285 and
- 17 that is EPA Guideline on Air Quality Models.
- 18 (Exhibit No. 285 was marked for
- 19 identification.)
- 20 MR. GOECKE: May I give Mr. Sullivan a copy?
- 21 MR. GROSSMAN: Certainly. And that's 40 CFR, Part
- 22 51, Appendix W. All right.
- 23 BY MR. GOECKE:
- 24 Q Mr. Sullivan, Mr. Silverman has just provided
- 25 everyone a copy of what's been, what's identified as 40 CFR,

- permit is a very much an iterative procedure, unless it's a
- very simple application and conservative modeling shows the
- applicant passes the first time, then it's very simple. But
- in a situation where it's complex where a chemical plant
- wants to build a facility and for some reason they're over
- the standard initially, well, then it's a series of steps
- 7 that take place involving the applicant and the regulatory
- 8 agencies aimed at trying to achieve the standards if
- possible and it is an iterative process.
 - Q And what does that iterative process involve?
- 11 MR. GROSSMAN: Before you answer that question, 12
- Mr. Sullivan, since this is a 71-page document, can you point me to the particular section which you're referencing
- that indicates that you can vary from the consistency aspect
- of the guidelines in order to improve accuracy in a 15
- 16 particular place?
- THE WITNESS: It comes up several places in here. 17 18 I'd have to, it will take me a few minutes to search for it.
- 19 Do you want me to do it now or after the break?
- 20 MR. GROSSMAN: Well, I'll leave that to Mr.
- 21 Goecke. Do you want him to do it now or at the break?
- 22 MR. GOECKE: I'm sorry, to do, to find the
- 23 portions in the document that talk about the --
- 24 MR. GROSSMAN: The -- he indicated that these
 - guidelines are intended to promote consistency, but that

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Page 10

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- 1 Part 51, Appendix W. I've handed you a copy. Can you look
- that over and tell us whether this is the document you just
- 3 referred to?
- 4 A Yes, it is.
- 5 And tell us what or, again, how this factored into
- 6 your -- let me try that again. Is it your testimony that
- air modeling that you employ are typically based on these 8 guidelines?
- 9 A It's nearly always based on these guidelines with
- 10 the caveat that some judgment issued required to implement
- this on a case-by-case basis. So if you read, fully read
- 12 this document, you will see the EPA does not, they want to
- 13 promote consistency, but not at the expense of accuracy.
- 14 And that's the basic philosophy of this document.
- 15 Q Okay. Are there any other important procedures in
- 16 the EPA guidelines for air modeling?
- A EPA has miscellaneous guideline documents, memorandums, this modeling clearinghouse that all try to 18
- promote this concept of consistency. So this isn't the only 19
- 20 guidance document, but this is generally considered the core
- document for guiding how modeling should be done. 21
- 22 Okay. And under the guidelines is the air
- 23 modeling a one-time event or is it a process or how does it
- 24 work? 25

17

A Well, in application, modeling, for example, for a

- they do not restrict you from varying from them in order to
- improve accuracy. And I just was curious as to what
- particular language he was relying on.
- MR. GOECKE: Sure. I think it might be more 4
- 5 efficient if we wait to a break to go through --
- 6 MR. GROSSMAN: Okay.
- 7 MR. GOECKE: -- the 71-page document to find --
- 8 MR. GROSSMAN: That's fine.
- 9 MR. GOECKE: -- the specific provisions.
- MR. GROSSMAN: That's fine. All right. 10
- 11 BY MR. GOECKE:
- 12 Q But staying on that topic for a moment, why is it
- 13 important that the air modeler be allowed to vary?
- 14 A Well, each case is somewhat different. If they
- had a rigid set of requirements, those applications required 16
- site-specific judgments; we would be precluded from doing 17 SO.

18

- Such as what? O
- 19 A Well, I mean the perfect example here would be
- let's say that you're focused strictly on the impact from a
- loading dock that's on a mall or a gas queue that's on a 21
- 22 mall property, on asphalt, that if you're looking only at
- 23 receptors within that source area at the mall, that's
- defined urban by EPA. That land use is urban. If that's
- your modeling domain for that review, you would want to have

- 1 the ability to say, well, we know it doesn't disperse there
- 2 like a rural setting even though three kilometers away it
- 3 may be grassy. Right there it's an asphalt surface. If
- 4 that's all you're dealing with, it makes perfect sense to
- 5 say, well, of course we're going to use urban for that
- 6 domain. If you're going out to three kilometers with mixed
- 7 use, some urban, some rural, well, then we always do follow
- 8 EPA's procedure as we did here. So it depends upon your
- 9 skill of review. I mean our skill of review so far until
- 10 the August submittal was not micro-scale. We were not
- 11 trying to model what is the impact inside a transient gas
- 12 queue or right at the loading dock. You don't usually model
- that and we don't, we have never deliberately put receptors
- 14 in the middle of the road.
- 15 Q Why not?
- 16 A EPA has guidance that says you don't do that.
- 17 It's not standard procedure. We've done probably 20, 25
- 18 traffic studies in the Washington, D.C. district which is
- 19 required a lot of times with construction. We have never
- 20 put receptors, nor do they want us to, in a roadway. They
- 21 would go in the cidewalk away from the readway, which is
- 21 would go in the sidewalk, away from the roadway, which is
- 22 consistent with EPA's guidance.
- 23 Q Do you know why they don't want you to put the
- 24 receptors right on the roadway?
- 25 A Well, it's not; it's not a situation where

- specificity in the release terms and it's generally done
- 2 quite, you can simplify things when you have more distance.
- 3 In this situation here where you're going to be modeling
- 4 right at the loading dock and identifying the concentrations
- 5 there, we can't use simplified assumptions. That would be
- 6 perfectly acceptable for the more general, more typical
- 7 receptors. And that's the reason why in that August report
- 8 we had to refine in order to accommodate that scale of
- 9 review which is very atypical.
- 10 Q Give us examples of assumptions that you would use
- 11 when modeling, and I'm going to point to Exhibit 159 here,
- 12 the area, the larger outlined area in the pink, fuchsia
- 13 color, compared to assumptions that you would rely on in
- 14 modeling an area that was more limited, say just the special
- 15 exception location itself.
- 16 A If I can come down --
- 17 Q Sure.
- 18 A -- that might be helpful. To make it, to be
- 19 clear, the point of discussion with the focus on, in the
- 20 August 16th report was on the loading dock which is located
- 21 right here. I'm putting --
- 22 Q Other building.
 - A Sorry, thank you, right here. So --
- 24 Q And you're pointing to the southern portion of
- 25 the --

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- 1 generally somebody is going to be parked at that spot for an
- 2 hour or longer. It's a transient, moving sort of situation
- 3 that is not generally addressed by putting models in those
- 4 locations.
- 5 MR. GROSSMAN: When you say receptor, you're not
- 6 talking about a physical receptor; you're talking about a
- 7 modeled receptor?
- 8 THE WITNESS: Yes, sir.
- 9 MR. GROSSMAN: Okay.
- THE WITNESS: So that's the practice, you know,
- 11 that's how modeling is done. July 30th there obviously was
- 12 a change of focus saying, well, what about the impact right
- 13 at that loading dock in that case? Well, you know, the
- 14 public is not going to be standing where that truck is for
- 15 an hour. We did not emphasize that, but if that's the point
- 16 of focus, well, then the modeling has to be designed to
- 17 accommodate that scale of review.
- 18 BY MR. GOECKE:
- 19 Q Well, let's take a step back from that. Do your
- 20 assumptions change depending on the scope of the area that
- 21 you're modeling?
- 22 A Certainly.
- 23 Q Whv?
- 24 A Because if you are modeling a general domain not
- 25 really close to the source, you do not need as much

- 1 A Correct.
- 2 Q -- warehouse?
- 3 A And the maximum is occurring right in the middle
- 4 of this loading dock right here. So in an initial
- 5 assessment, as I've testified earlier, we use a conservative
- 6 treatment of the loading dock, a very conservative
- 7 treatment, which in terms of the fine particulate matter,
- 8 allowed us to compensate for differences between moves in
- 9 mobile six. So it was conservative for TM2.5. For NO2 and
- 10 CO, it's extremely conservative. You use the same safety
- 11 factor in there. And if we're going to focus now on that
- 12 scale of review, right at, where the trucks are parked,
- we're going to have to refine that treatment which I did in
- the August 16th report. So that's an example.
- In terms of the focus on the queue source, for the
- 16 general analysis we simplified to say, well, there's going
- 17 to be 40 cars in queue all the time, the entire 15 hours the18 station is operating. We know that's not the case. The
- 19 transactional data from Sterling, for example, shows that's
 - not the case. So if we're going to focus now on receptors
- 21 inside of a queue, which is not something we do, but if
- 22 that's the focus, we'll refine the hour-by-hour queues
- 23 because we have transactional data for the whole time period
- we can average and show how it varies throughout the day.That avoids positive bias in the modeling. So if you change

- 1 the focus, we're going to have to change the modeling to
- 2 respond to that change in focus.
- 3 Q Where was your focus when you first began modeling 4 on this project?
 - A We were focused on typical, ambient receptors. So
- we were modeling the entire mall contrary to what's been
- stated. We had 400 receptors in the mall area. I don't
- mean inside the mall, but I mean along that property. 8
- 9 And how many receptors did you have total?
- 10 Α 8.100.
- 11 Ω And where were --
- 12 A It's 8,116 actually.
- 13 And where were these 8,100 receptors and 16
- 14 receptors?
- 15 A It went much broader. We had, we had 91, 91
- receptors east and west, 91 north and south, spaced out by 16
- 17 25 meters. So a couple of kilometers, domain each
- direction. 18

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- 19 Q So it went beyond the scope of what, what's in the
- 20 colored area here, the outlined area here, but wouldn't it
- 21 go beyond the scope of what's on Exhibit 159?
- 22 A I believe that it did approximately.
- 23 So it was a broader, a broader analysis. We were
- 24 not focused on receptors that we don't typically model or
- emphasize, which would be inside of a queue, people moving

- you can't by refining the model, which EPA allows you to do,
- if you can't pass, you say what are the most cost-effective
- ways we can get this facility into compliance? And you'll
- test with the model, you know, adding various control
- technologies and to the point where you either pass,
- economically viably pass or you conclude you can't build
- 7 this facility or continue to operate.
- 8 Now I've seen it go both ways, but it's a process
- you work your way through. The intent is not to, from a
- modeler it is to make sure that you're following the
- guidance and you're meeting the standards. You might pass, 11
- 12 you might not pass, but it's a process.
- From a policy perspective, do you know why the 13 14 process requires steps of refinement?
- A Well, oftentimes, you know, the facility passes 15
- with very simplistic methods. And so why spend the 16
- 17 resources by the applicant and especially the resources by
- the EPA or state staff to review an overly complicated
- 19 analysis when a simpler, more conservative one shows you're
- 20 meeting the standards. So the process is designed to
- 21 efficiently use resources, frankly, and only go to a high
- 22 level of refinement if you have to.
- 23 Can you give us an example of where it would be a conservation of resources both for an applicant and for a
 - regulatory agency to go through the process in this manner

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- 1 through a gueue, they don't stay there or park there, or in
- the middle of a roadway or on top of the roof at some of
- 3 those concentrations where, at the Costco Warehouse
- 4 facility. We're focused on typical locations.
- Q Okay. And I'd like to -- we'll get back to 6 talking about what you've done specifically, and I'll just
- say it again, but going back to the general methodology and
- procedure that's used under the EPA guidelines, this
- 9 iterative process, what are the changes with each step in
- 10 the process generally?
- 11 A Well, the process that I've worked through guite a
- 12 few times in applied modeling whether it be for a permit,
- 13 for a major facility or for what's called the state
- 14 implementation plan which is designed to bring a region into
- 15 compliance with the standards. This is like a five step
- 16 process. The first step is that you tend to model
- 17 conservatively. You do initial modeling and you see if
- you're meeting the standards or not. 18
- 19 Q And what happens if you don't meet the standards?
- 20 Then you'll consider making refinements to the
- 21 model at that step which we have done in the past. You see
- 22 if you pass. If you don't pass again, you see what are the
- 23 most, what other refinement is available to me? We'll make
- those refinements. If you don't pass at that point, the
- process doesn't stop, you then go into mitigation. So if

- as opposed to merely starting at the most refined level of 2 modeling?
- 3 A Well, some steps, some steps in the modeling take
- a fair amount of effort and a lot of times it's not
- considered worth it. For example, we worked on a state
- implementation plan in Iowa and the plan involved several,
- two actually, cement plants, and they were exceeding the PM-
- 10 standards at the time. And so we did the modeling and
- 9 found that they were exceeding the standards.

10 So we went through the process and we then determined we couldn't refine at that point any more, so we went through and determined what steps we take to reduce the

- emissions and we'd model the steps the engineers came up with and they still weren't passing. So we met with the
- regulatory staff, MYLA, and they recommended, which we
- 16 accepted, doing a refined treatment for background. So in
- 17 that case we evaluated background as a function of wind
- direction quadrant as I recall and were able to refine the 18
- background, they did pass and in that case we did the more 19
- 20 complex, more refined analysis in the beginning and then at
- the end, but in between did an awful lot of, many steps to 21
- refine the control technology so that by the time that this
- 23 process was done, we could demonstrate to the satisfaction
- of the regulators that these two facilities operating side
 - by-side would meet the standards.

- Q And when you say refine the process, what exactlydo you mean? How do you refine it?
- 3 A We, for example, on the background refinement we 4 did, the normal background which is typically done like we
- 5 did here, you're looking at, say for NO2, you're looking at
- 6 the 90th percentile, the worse case situation essentially
- 7 that happened in the region. And assuming that happens all
- 8 the time, any time the model value that you're adding a
- 9 background to, you add that number. We know that that
- 10 didn't happen all the time and these hits happened at these
- 11 monitoring sites. So it's very conservative.
- And so by doing the refined procedure, you'd be
- 13 increasing the accuracy. You're not trying to have them
- pass, you're basically increasing the accuracy to see if Iincrease the accuracy, do they pass or don't they pass? In
- 16 this case they passed after that step and, you know, the
- 17 site was eventually approved.
- 18 Q And you mentioned the 98th percentile. Explain
- 19 for us, that's been mentioned a few times --
- ${\bf 20}\,{\bf M}$ A $\,{\bf When}\,$ you're saying this case, you mean the lowa
- 21 case?
- 22 Q Yes, sir. And then, again, the 98th percentile,
- 23 that's been mentioned a few times during the course of this
- 24 hearing. Explain exactly what that means.
- 25 A Well, that's the regulatory pass point that to

- THE WITNESS: It's actually a three year rolling
- 2 average. In this case we were more conservative than that.
- 3 We took five years, looked at the first, second and third
- 4 year, the second, third and fourth year, then the third,
- 5 fourth and fifth and picked the highest of those three6 averages.
- 7 MR. GROSSMAN: Right. But if I'm correct in your
- 8 August 16, 2013 report, Exhibit 255(a), one of the
- 9 assumptions that you changed is you changed the background
- 10 assumption and you went to 90 micrograms per cubic meter
- 11 instead of 98. And if I understand correctly, based on the
- 12 more recent years, the more recent years of 2010 through
- 13 2012, rather than in 2009 through 2011, is that correct?
- THE WITNESS: That is correct.MR. GROSSMAN: And, but if I understand you
- 16 correctly, wouldn't you have taken all five years to get a
- 17 more accurate posture rather than just the last three years?
 - THE WITNESS: The last --
- MR. GROSSMAN: Why did you relax it that much?
- THE WITNESS: Well, three years is the basis for the background.
- MR. GROSSMAN: Right.
- THE WITNESS: And so the issue was when we did the
- 24 earlier analysis in 2012, we only had available to us at
- 25 that time 2009, 2010 and 2011 --

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1 determine what your value is, your concentration is. You 1 MR. GROSSMAN: Right.

- THE WITNESS: -- through the duration of this
- 3 process. We looked at the situation in August and said,
- 4 well, we're going to refine this, let's look at the new data
- 5 and we did have data available to us to allow us to go up to
- ---- did we did nave data available to de to dilow de to go ap
- 6 2010, '11 and '12. And so that background is the most
- 7 current background per the EPA procedure.
- 8 MR. GROSSMAN: I understood that. I just, when I
- 9 just heard you testify about you tried to take it over those
- 10 five years, I wondered why you took it only over the last
- 11 three years. But if you're telling me that the process, the
- 12 refinement process would be better applied by only doing the
- 13 last three years, that's something different. I
- 4.4 maintaine de material de constant de chima anno
- 14 misunderstood your testimony.
- THE WITNESS: Well, to clarify, we could have just run the three years, last three years. We ran, we did the
- 17 three iterations of the five years which is a more
- 18 conservative approach. Per the standards, I don't believe
- 19 we had to do that. And so we could have based it just on
 - the last three years. We did it in a more conservative
- 21 fashion is what I'm saying.
- MR. GROSSMAN: No, but I mean in this August 16 report, you just used the last three years, isn't that
- 24 correct --
- 25 THE WITNESS: We --

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- 2 identify the 98th percentile, one hour of concentration at
- 3 each receptacle.
- 4 Q The 98th percentile of what?
- 5 A Of one hour values over the year. So it's, I
- 6 believe it's approximately the 175th highest value of the
- 7 year. And you do that at each receptor in the modeling
- grade and then you do it for five years. So you have fiveyears of those and you then do rolling three year averages
- 10 of those values and that's what the defining standard is.
- 11 Q Is there ever a point in the modeling process
- 12 where you stop refining and you stop removing conservatism
- 13 in your modeling?
- 14 A Yes, yes, there is.
- 15 Q And when is that?
- 16 A Well, when you've exhausted those options
- 17 available to you as a modeler, then the only steps left
- 18 would be to either reduce the emissions or to change the
- 19 timing of those emissions such that when you model that new
- set of circumstances, you pass. If you don't pass then, thefacilities would not get a permit.
- MR. GROSSMAN: I don't understand something. You
- just said that you try to use a five year average, is thatcorrect, for the background?
- MR. GOECKE: Three years.

1 MR. GROSSMAN: -- to get to the 90 micrograms per 2 cubic feet?

3 THE WITNESS: For the background.

4 MR. GROSSMAN: Right.

9

THE WITNESS: We use the same background features 5 in the three steps that we evaluate, which would be a pretty 7 typical procedure. We didn't have a different background 8 for each time step.

MR. GROSSMAN: Right. But am I correct in saying 10 that for the August 16, 2013 report you used your corrected 11 assumption or refined assumptions by which you got to a 12 background of 90 micrograms per cubic meter, you used just 13 the last three years?

THE WITNESS: That is correct. 14

15 MR. GROSSMAN: Okay. And one other confusion you can clear up for me. You modified, if I understand 16 17 correctly from your August 16 report, four assumptions, one with regard to the loading dock, two with regard to the car 18 19 queues and then one with regard to the background which 20 we've just discussed, is that correct?

21 THE WITNESS: That's correct.

22 MR. GROSSMAN: And when you first began to testify here, I understood you to say that you've made, you changed 24 some assumptions because the focus was narrow. Now I hear you to say that you changed the assumptions because you are loading dock, it would be over the standard.

2 MR. GROSSMAN: All right. I think there's even 3 some, well, anyway the problem is that you come in to 4 testify now and say that corrections were a re-focus as opposed to a refinement in order to meet the standards. I understand your point. You're saying that this refinement is necessary to make it more accurate. But there is 8 lingering in the background here concern about changing the assumptions after it appears that the math drives the 10 measurements over the National Ambient Air Quality 11 Standards, at least using the rural dispersion rates.

12 THE WITNESS: I think the issue, Mr. Grossman, is 13 that if we didn't refine, knowing, let me explain the context. The assumptions, for example, for the warehouse are extremely conservative for NO2 for a couple reasons. One I mentioned before that for PM2.5, you know, moves, has quite a bit higher emission rates than mobile six did for idling emissions, you know, tenfold, as Dr. Cole has stated, I agree with that. It's in there.

And so the approach we took for PM2.5 was, fine, we addressed that conservative. But that same scaling was in there for NO2 and CO, and for NO2 it's nowhere near, they're not, they're much more similar. Perhaps it moves as a factor or two higher, but it's not 10 times higher.

So if you take twofold higher, what that means is

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1 refining the model. Am I misunderstanding what you said 2 originally?

3 THE WITNESS: I think they're consistent. If the focus changes and we're dealing with a, what I'm saying is a 4 very atypical situation, we're dealing with evaluating a concentration at a loading dock itself in the center of a 7 big gas queue, the assumptions that, the conservative assumptions that would be reasonable for a more typical analysis will not be reasonable, will not be refined enough for that scale of review. And that's why I made those four 10 11 changes. I could have made several more refinements if we 12 needed to to further increase the accuracy at that scale of

14 MR. GROSSMAN: All right.

review.

13

15 THE WITNESS: Did that answer your questions? 16 MR. GROSSMAN: Well, I think so. I mean there's a 17 concern I have flowing in the background here is that it appears that because of the mathematical error that, 18 concerning the background levels in your NO2 analysis, that 19 20 the amounts predicted by your earlier, more conservative

model would have driven the values over the National Ambient 21

22 Air Quality Standards, is that correct, for using a rural,

23 at least using a rural dispersion rates.

24 THE WITNESS: If you use a rural dispersion coefficients and you had receptors on the roadway at the the building assumption we had before which were fine for

the broader scale and, yes, with the lower background, now

we're making a decision based upon saying is it violating a

standard, but if you look at the math, that's based upon

having effectively 27 heavy-duty trucks at that loading

dock, at 10 minutes every hour for 18 hours a day. And we

know that's not true.

8 And so if we didn't refine it, a decision would have been made based upon excessive conservatism for that and especially for that scale of review and a decision would 11 have been made that the violation, that wasn't going to 12 happen.

MR. GROSSMAN: I think there's been an assertion 14 made by the opposition here that even under the urban dispersion rates using your old assumptions that the NO2 predictions were for levels above the national air quality, Ambient Air Quality Standards, at least on the mall itself, 18 do you agree with that or not?

19 THE WITNESS: I do. If you keep the 27 trucks 20 idling, there's only four bays, if you do that, you model it 21 as urban, but don't do any other steps which are clearly available to refine for that fine level of detail, it will 22 23 show a violation, no question. It's a paper violation, but 24 it's going to be there mathematically, yes.

MR. GROSSMAN: All right. Okay. Thank you. Go

- 1 ahead, Mr. Goecke.
- 2 MR. GOECKE: Thank you.
- 3 BY MR. GOECKE:
- 4 Q Following on Mr. Grossman's questions, in the, in
- 5 Exhibit 255(a), your August 16, 2013 report, the changes you
- 6 did to your modeling, would you describe them as a
- 7 refinement, as a refocus, both?
- 8 A I describe it as a refinement due to the changing
- 9 circumstances that occurred at the July 30th hearing.
- MR. GROSSMAN: What changed circumstances are you talking about?
- THE WITNESS: Well, two. One was, yes, the
- 13 background change; number two, the focus became on what I
- 14 will term as atypical receptors at the loading dock,
- 15 especially -- I mean the high value, Mr. Grossman, you're
- 16 talking about is not at the queue, it's at the loading dock,
- 17 I mean in the loading dock is where the high value occurred.
- 18 We did not design the modeling to address that because
- 19 that's not typical of what we do. But if I did, I would
- 20 have done it more along the lines of what I did August 16th
- 21 and possibly the other refinements if we had more
- 22 opportunity, more time.
- 23 MR. GROSSMAN: All right.
- 24 BY MR. GOECKE:
- 25 Q When you did your first model for this site, where

- 1 especially the school, because when we were within where
- 2 the, the most heavy interest has been.
- 3 Q Did you ever talk with members of the community?
- 4 A Yes.

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- 5 Q Who did you speak with?
- 6 A Well, at one point or another I have spoken to all
- 7 the individuals from the community here today, plus at
- 8 community meetings I spoke to quite a few people that
- 9 stopped by our booth to talk about their concerns and their
- 10 issues.
- 11 Q Do you remember when this process began for you?
- A It began just about three years ago, 2010,
- 13 September, I think --
- 14 Q Okay.
- 15 A -- 2010.
- 16 Q Did you ever meet with Dr. Cole to discuss your
- 17 modeling methodology in this case?
- 18 A Yes, actually a year ago today.
- 19 Q Tell us about that.
- 20 A We had wanted to have a better procedure than we
- 21 had for the zoning text amendment where, you know,
- 22 unfortunately Dr. Cole and I went to those proceedings with
- 23 grossly different opinions about things and especially the
- 24 modeling. And my goal was to see if we could reach
- 25 consensus on at least how the modeling should be done,

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- 1 were the areas that you focused on most specifically?
 - A As I mentioned, we did model the whole mall, but
- 3 from meeting with the community and hearing the concerns, we
- 4 heavily focused on the closest homes, the Kenmont Swim and
- 5 Tennis Center and the Stephen Knolls School. I mean that
- 6 was the focus early on in the discussions and we emphasized
- 7 those locations throughout our process.
- 8 Q And how did you emphasize those locations
- 9 throughout the process?
- 10 A Well, for example, those are the locations we did
- 11 the urban and rural analysis to show what those very
- 12 sensitive, close locations, what we felt were the more
- 13 accurate description based upon the urban coefficients and,
- 14 you know, if we knew at that time the focus would be that
- 15 loading dock and a tangent gas queue, I clearly would have
- 16 had different assumptions.
- 17 Q You testified that it was your understanding that
- 18 the community's concerns were the school, the pool and some
- 19 of the nearest residences. How did you come to that
- 20 conclusion?
- A I went to a number of community meetings. I've
- 22 read the documents that have been posted online. It's been
- 23 a long process and, you know, until recently those were the
- 24 issues that were the highest concern. And particularly the
- focus was on the fine particulate matter at those locations,

- retain enough flexibility to interpret it, you know, as each
- 2 soft hit and my goal was to see if we could have a meeting
- 3 of the minds and reach consensus at least on how to model
- 4 the gas station sources. As I've done in every other
- 5 project I've done like this, there's always been a meeting
- 6 like that and we have reached consensus and we develop a
- 7 procedure and we review the procedure and then we implement
- 8 it. And it's worked out very well.
- 9 And so that was the goal of that meeting and to10 some extent we had some success I'd say at that meeting. We
- 11 did make progress. In my view we came to an agreement on
- 12 many things about how to model the gas station. We didn't
- 13 agree on how many sources, should we model around the gas
- 14 station. We could have then agreed on factors about terrain
- 15 and other ancillary issues, but on the core things we
- 16 certainly try to put it in, the issues that Dr. Cole asked
- 17 about, we incorporated all those we felt we could and I
- 18 think both sides tried at that meeting to reach consensus.
- Ultimately, obviously, it didn't fully work out the way wehad hoped.
- Q Did Dr. Cole or anyone from the community express concerns about the emission levels in the loading dock area
- 23 at that time?24 A They had mentioned concerns about odors and the
 - loading dock had come up, but relative to the community I

- 1 don't recall at any time people asking me about what about
- 2 at the loading dock itself.
- 3 Q Okay.
- 4 You know, I don't recall that coming up. It may
- have. I don't remember.
- 6 Q So what was the result of your meetings with Dr.
- 7 Cole in terms of discussing the air modeling protocol?
- 8 Well, we went back and forth in writing after that
- meeting and we listed the areas of agreement and the areas
- 10 of disagreement and ultimately we completed the protocol,
- provided both sides with a copy of the protocol and then we 11
- 12 implemented it.
- Q Did you modify your original protocol based on Dr. 13
- 14 Cole's comments?
- 15 A We did.
- 16 Q In what way?
- 17 Dr. Cole asked us to use a feature of air modeling
- called air minute, which we did. He asked us to evaluate
- 19 major spills and we incorporated that term. It wasn't a
- 20 large component, but we did put that term in. He asked us
- 21 to further evaluate gravity flow situations and we did cal
- 22 puff modeling based upon our discussions at that particular
- meeting. There may be more, but that's the examples of
- 24 things that we certainly try to accommodate his issues in
- 25 order to try to achieve consensus.

- model concentrations on average. The other step we did
- which also increased concentrations, initially we had one
- size for the queue lane to accommodate a 40-car queue. We
- use that for everything. I had my staff shorten it for the
- one hour and eight hour and 20 so that we would have a more
- concentrated source which would tend to give higher
- 7 concentrations, again, with the goal of trying to make sure
- we would minimize potential questions. 8
- 9 Q Okay.
- 10 So I didn't just say, well, what concessions can
- we get with Dr. Cole. My objective, and I'm speaking under
- oath, my objective was to be conservative and to avoid any 12
- 13 future questions to the extent that I could.
- 14 Q Okay. Thank you. Let's jump ahead now to the
- July 30th hearing. At that hearing you testified that there 15
- was a mathematical error in your November 2012 report. Can
- 17 you just refresh our memory about what that error was?
 - A Well, for the, for two of the pollutants, I
- believe it was CO, NO2, the measured data is presented in 19
- 20 parts per billion. In the mall we have done it in
- 21 micrograms per cubic meter. PM2.5, for example, is
- presented as micrograms per cubic meter. And when that
- conversion was done from TBD to micrograms per cubic meter.
- it was done incorrectly and I fully apologize and take
- responsibility for that particular error. Unfortunately,

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- Q Okay. In addition to the changes you made based
- on Dr. Cole's comments, were there any other modifications
- to your original modeling process?
- 4 A Yes.
- 5 Q Can you tell us what those are?
- 6 After we completed the process, I added several
- 7 steps that I felt should be incorporated, all of which acted
- to increase model concentrations beyond what we agreed to
- with the goal of making sure we're as consistent as possible
- 10 with the guidelines and to ensure that in the future there
- 11 wouldn't be questions of us understating anything. And
- 12 examples would be the initial modeling was based upon
- 13 meteorological files we had used previously for this area,
- 14 for the Marant Power Plant, the way the service reference
- 15 was characterized was my view fine for the Marant facility
- 16 and the conservatism there. But it was resulting, I felt,
- 17 an understatement of the results here and we had tested it
- and found out, yes, if we modify that procedure, make the
- surface smoother, more consistent with the airport with the 19
- 20 source of the data that we would double the modeling values.
- 21 I--
- 22 Wait. We're coming back to this case. So the
- changes you made from your report, well, did they increase
- 24 the conservatism?
- 25 A Well, that was for this case. It doubled the

- when we did our quality control, when we quality controlled
- the emissions, which is half of this, they quality
- controlled the modeling and this fell in between and it was
- missed and shouldn't have been.
- 5 Okay. Do you know how it was missed or how the Ω 6
- 7 A Instead the conversion factor is 1.88. It was, the value was divided by 1.88 instead of multiplied --8
- 9 Okay.
- A -- times that value. 10
- 11 MR. GROSSMAN: Did that affect other -- was that
- 12 error only with regard to the nitrogen dioxide background calculations or was it for other substances as well? 13
- 14 THE WITNESS: My review showed just for NO2.
- 15 MR. GROSSMAN: Okay.
- 16 BY MR. GOECKE:
- 17 Q If you had found that error in November of 2012,
- or as you were preparing the report, what, how would you 18
- have responded to it at that point in time? 19
- 20 A Well, I certainly would have fixed it if I found
- it. I would have evaluated the modeling results to 21
- determine, you know, if I, for example, the loading dock.
- 23 If I found that that value, frankly, was creating a problem,
- I would have taken a closer look at the sources and the
- assumptions to ensure that I didn't have excessive

1 conservatism that would bias results towards making an

- 2 improper judgment. I would have done that at that time.
- 3 Q And what did you do when you found the error or
- 4 when you realized the error after July 30th?
- A Well, I did the same thing I said I would have
- 6 done if I found it earlier. I looked at the degree of
- 7 conservatism we had in several points, not all, and I
- 8 refined those which is fully consistent with sound
- 9 methodology. It still has a lot of conservatism in it
- 10 still. And when you make those changes, you find that even
- 11 at the loading dock and the gas queue there are no
- 12 exceedances, no exceedances occur at those locations in
- 13 reality.
- Q And let's talk specifically about what refinements you made or what changes you made. What did you do
- 16 differently in your August 2013 report when you were done
- differently in your August 2013 report when you were don
- 17 with your November 2012 report?
- 18 A Well, I've described the loading dock which is the
- 19 primary issue is that for NO2 we've refined the loading dock
- 20 so it became much more realistic, still conservative, but
- 21 much more realistic for NO2. And basically we had four
- 22 cars, I'm sorry, four heavy-duty diesel trucks at each of
- 23 the four bays idling 10 minutes every hour for 18 hours a
- 24 day. We made that change rather than the very conservative
- 25 safety factors in there before.

- 1 conservative approach that, well, for 20 minutes of that
- 2 hour there will be that concentration and the other 40
- 3 minutes they're not in the queue, they'll be at the
- 4 background, which is also conservative, and do a weighted
- 5 average. So we made that occupancy refinement, much like
- 6 for the cancer risk assessment, how many hours people are at
- 7 school, how many hours they're at the pool, we did the same
- 8 thing for that.
- 9 I mean our goal is to make this realistic and we
- 10 made those steps, refined the background. So these are the
- kind of things we did to try and make it more realistic.
- 12 But as I said, there's a lot of steps I don't feel we have
- 13 to take, but if we did, those numbers would go down a lot14 more.
- 15 Q Okay. So is it your testimony that this is a
- realistic number or that, or are you testifying that there's
- 17 still more conservatism in your modeling that could be
- 18 further refined?
- 19 A It's not realistic, it's high. Those numbers are
- 20 high, in the August 16th report are still highly
- 21 conservative.
- 22 Q Based on the reasons you just testified or for any
- 23 other reasons?
- 24 A Other reasons.
- 25 Q Such as?

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- Mathematically, you could not have enough trucksidling at that location to exceed the standard. There's
- 3 just not enough bays. There's not 28 bays, there's only
- 4 four. So mathematically you can't show an exceedance if you
- 5 do it realistically in that fashion. We still have 18 hours
- 6 a day with four trucks there. I mean that's a lot of
- 7 trucks. They only have 10 heavy-duty trucks a day. And our
- 8 assumptions are based upon there's always four heavy-duty
- 9 trucks. We even took the light-duty trucks out of the
- 10 equation completely. We filled the docks only with heavy-
- 11 duty diesel trucks. And by making what are still
- 12 conservative assumptions, we showed that that issue that
- 13 came up before was on paper an artificial violation that in
- 14 reality you cannot model that warehouse in a way that would
- 15 stand up to scrutiny. It will violate the standard. That
- 16 was the bottom line.
- Almost all of it was associated with that, but for the queue, yes, you made some modifications there to make it
- 19 more realistic. There aren't 40 cars in queue all the time
- There realisate. There drong to date in queue an are a
- 20 at a gas station. We refined that. And, frankly, this
- 21 transient receptor issue is unusual and not something we
- routinely model. But based upon hard data from Sterling using a 40-car queue, the max time in the queue is 16
- 24 minutes during weekdays and 20 minutes weekends and
- 5 holidays. And so we used 20 minutes and took the

- A Well, one reason, the point of discussion we had
- 2 at the protocol meeting a year ago today is we talked about
- 3 NO2/NOX ratios. And I recall Dr. Cole appropriately asked,
- 4 you know, he said what are you going to use for your ratio?
- 5 We said we're going to use one, modeling a domain. We know
- 6 the conversion. What happens when a car or a truck releases
- 7 NOX? They're mostly releasing NO, nitric oxide. And, you
- 8 know, some, mostly nitric oxide and some NO2. And if you're
- 9 modeling a large domain, EPA's tier one approach is just use
- 10 one. We did. But --
- 11 Q Just use one?
 - MR. GROSSMAN: One?
- THE WITNESS: One, meaning it's all NO2. The
- 14 ratio of NO2 to NOX is one. We did. But if you want to
- 15 focus on the gas queue or the loading dock, there is no time
- 16 for conversion. I mean basically the conversion; the
- 17 atmosphere of NO to NO2 according to the EPA is two hours.
- L8 That's the half life. In going across the queue, our
- .9 calculation, we're losing about .5 percent. What that means
- 20 is what people are breathing at the queue and at the loading
- 21 dock is what's coming out of the tailpipe, that mixture of 22 NO2 is NOX.
- And if you look at the literature, the range in
- 24 that ratio directly from a diesel truck or a gasoline truck
 - is somewhere between 5 percent and 25 percent.

- 1 MR. GROSSMAN: Range of what?
- 2 THE WITNESS: NO2 to NOX.
- 3 MR. GROSSMAN: All right. So you're saying that
- 4 the actual tailpipe emission of NOX is composed of NO and
- NO2 and that the percentage of NO2 is somewhere between five
- 6 and 25 percent at the tailpipe, is that what you're saying?
- 7 THE WITNESS: Correct.
- 8 MR. GROSSMAN: All right. And that, nevertheless,
- when you gave your NO2 figures, you assumed that NOX and NO2
- 10 were, in effect, the same?
- 11 THE WITNESS: We did simplify the analysis and at
- 12 that point we didn't need to refine it. There are ways to
- refine it for the broader scale modeling. There are methods
- 14 the EPA has to do that. And if we needed do, we would have
- 15 done that and we have done that before. But here the
- 16 results didn't show it justified at the larger scale of
- 17 review. At the micro scale of review, if we needed to do
- more analysis that clearly is an option available to Costco
- 19 and the max is 25 percent. So that would reduce the impact
- 20 by a factor of four at the loading dock and at the queue.
- 21 MR. GROSSMAN: But reduce the NO2 impact you're
- 22 saying?
- 23 THE WITNESS: Correct.
- 24 MR. GROSSMAN: And do I understand the implication
- 25 of what you're saying, if I understand correctly, is that

- We also could refine the treatment we use in August 16th for
- the loading dock. There aren't 18; there aren't trucks
- 3 there, park trucks 18 hours a day there. So you could
- gather data and refine that too. The question is where do
- you stop? We could do all those things, but the issue is
- from the steps we took in the week we had up to August 16th
- when we worked on that part, we showed that you're well
- 8 under the standards. So going to the levels really
- shouldn't be necessary, but there are options, they're out
- there on the table that could be done. 10

BY MR. GOECKE:

- 12 Okay. Let's say hypothetically you conducted the
- 13 most realistic modeling you could come up with and it showed
- that there were exceedances of the EPA one hour NOT
- standard, for example. Then what? What would happen next? 15
- 16 A I would tell my client, in this case Costco, that
- they would have to look into mitigation options and we would work with the engineering staff and the gas station staff to
- 19 see what combination of further controls, if there are any
- 20 in this case, and changes in hours of operation that would
- 21 get them where they need to be. We would then evaluate
- those options in the model to see what would pass. That's 22
- 23 the standard procedure.
- MR. GROSSMAN: Excuse me. Please don't stand in 24

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25 the middle of the audience taking pictures.

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- THE VIDEOGRAPHER: I'm sorry. There is --1
 - MR. GROSSMAN: That is --2
 - 3 THE VIDEOGRAPHER: -- no one behind me.
 - MR. GROSSMAN: I understand, but that's 4
 - 5 distracting. Do whatever recording you want --
 - 6 THE VIDEOGRAPHER: Sorry.
 - 7 MR. GROSSMAN: -- from the side. Thank you.
 - 8 BY MR. GOECKE:
 - 9 Q Is it your testimony that mitigation is necessary
 - 10 in this situation?
 - 11 No, it's not necessary. We've already taken
 - 12 mitigation steps in terms of the arid permeator, which is
 - state-of-the-art. They have an attendant that's there in
 - cases any spills have occurred, I mean if they need to take
 - any appropriate steps they could take in terms of mitigation
 - 16 strategies.
 - 17 But under the EPA guidelines, mitigation is
 - 18 something that's allowed?
 - 19 A Well, it's what happens. That's how permits are 20 granted.
 - 21 Q Let's put the emissions we're talking about from
 - the potential Costco gas station in context, NO2, for 22
 - 23 example. What portion of NO2 in the ambient air in your
 - 24 calculations would come from the Costco gas station?
 - A Well, to give you an example of the, taking the

- 1 NO2 is a serious pollutant, but NO is not?
- 2 THE WITNESS: Put it this way, I'm not a health
- 3 expert, but EPA, their standard is not for NO. Their
- standard is for NO2. 4
- 5 MR. GROSSMAN: Okay.
- 6 THE WITNESS: There is not an ambient standard for 7 NO.
- 8 MR. GROSSMAN: All right. Okay.
- 9 MR. SILVERMAN: Just so, I didn't understand --
- MR. GROSSMAN: Well, you -- then take it up in 10
- 11 cross-examination.
- 12 MR. SILVERMAN: Okay. I'm sorry.
- 13 THE WITNESS: That was one issue. A second issue
- 14 would have been we could refine the background term. We
- used the most conservative option available to us because we
- 16 could. There are methods available, for example, as
- 17 documented by Capco (phonetic sp.) in California where you can identify the eighth percentile highest value for each 18
- hour. You can have hour by hour background value. If we 19
- 20 did that, it would further reduce the impacts probably by
- 21 about seven, well, seven to 10 micrograms per cubic meter. 22 The other steps we could have done is the fact
- that for the ring road and all the parking lots worse, some 23 of the worse hour of the day traffic happens all the time.
- We could develop scalers to fix that, make it more refined.

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- 1 concentration that Dr. Cole estimated, which was basically
- 2 right at the loading dock, that showed the value of 277 that
- 3 he showed. Actually the value is different. It's higher
- 4 than that. But the issue is at that particular location --
- can you repeat that question, I'm sorry, I lost my train of
- 6 thought.
- 7 Q Sure. Sure. What I'm trying to get at is
- 8 in terms of NO2 and the ambient air around the mall site
- based on your modeling, what portion of the NO2 would come
- from the proposed Costco gas station as opposed to what's 10
- coming from other sources? 11
- 12 Thank you. I'm sorry. It's actually, we did
- 13 assess that. It's actually .024 micrograms of that 277 or
- 14 whatever you want to have is from the gas station, including
- 15 the gas queue, the exits and entrances.
- 16 Q And that's .024 micrograms per cubic meter?
- 17 Right, which works out to be .008 percent. I mean
- it's a warehouse issue, not a gas station issue. That 18
- 19 particular bull's eye that we're talking about there
- 20 essentially has nothing to do with the gas station.
- 21 Q What do you mean by that, it's a warehouse issue
- 22 not a gas station issue?
- 23 Well, that, as I mentioned, that's an artificial,
- 24 that number cannot be supported mathematically to get
- refined about it. That has nothing to do with the gas

- 1 know?
- 2 THE WITNESS: The procedure they have for that is
- for larger sources called prevention of significant 3
- 4 deterioration, but it provides some guidance. And this has
- been discussed earlier by Mr. Silverman and myself. EPA has
- defined levels they consider insignificant. And if you're
- 7 insignificant, they will not stop that source from being
- built, they'll deal with the reason that it occurred. And
- in this example I gave the .024 micrograms. Well, that's
- relative to an SIL, significant impact level, of 7.5 for one 11 hour NO2. So it's hundreds of times below what EPA says is
- 12 insignificant. It's effectively nothing.
- 13 So if it a decision is made, well, you shouldn't
 - build the gas station because there's a model artifact due
 - to the warehouse, 100 percent, that would be, if that came
- out in the record, that would be a poor result. My goal
- 17 here is not, and this might, just to make sure that I do my
- best, that what you get in front of you, Mr. Grossman, is as
- accurate as it can be or conservative. But in this case 19
- 20 with the NO2 bull's eye at the loading dock, it would have
- 21 been misleading in my judgment.
- MR. GROSSMAN: All right. 22
 - BY MR. GOECKE:
- 24 Q How would EPA treat a facility that had a
- contribution of .008 percent of NO2?

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23

- 1 station. The gas station is .024 in the round-off. It's
- nearly all coming from the loading dock itself and due to
- 3 the conservative assumptions for NO2 that are in there and
- 4 it's right at the, it's where the trucks park in the middle
- 5 of the loading dock right where the source is. So it's not
- the gas station, it's the loading dock and that point has
- 7 not come across to me as clearly as it should have. That is
- 8 the situation.
- 9 Q You're talking about the contributions from the
- 10 emissions from activities at the loading dock?
- 11 That's not, that, again, when Dr. Cole did his 12 analysis, that was of the loading dock. That impact was not
- 13 affected in any meaningful way at all by the gas station.
- 14 Q Okay.
- 15 MR. GROSSMAN: Let me -- well, that raises a
- question I've raised before and that is the parties, and
- 17 asked them ultimately to brief it legally and that is the
- question of let's assume for a second that measurements here 18
- are a very small increment from the proposed gas station. 19
- 20 would it drive the overall values above the National Ambient
- 21 Air Quality Standards? How is that to be evaluated? Is
- 22 that -- when the EPA assesses a project of some sort and
- 23 sees that it is a very small increment, but that adding that
- very small increment will drive the total values over their
- 25 standards, what is the EPA action at that point that you

- A They wouldn't inquire anything about that. That would be a non-issue.
- 3 And that's true even if the 0.008 percent bumped
- emissions over the EPA National Ambient Air Quality 4
- 5 Standards?
- 6 Well, yes, well, they have to. I mean to put it
- 7 in context, let's say that they said you can't have any, you
- have a non-attainment, you can't make it worse. We do have
- non-attainment here for ozone. If you get to that approach, 9
- you really wouldn't build anything, you wouldn't build any
- new roads and you wouldn't build any facilities that emitted
- precursors of ozone. It would make the problem worse. So
- they have to have a logical way of dealing with and
- balancing these issues. And they do have significant impact
- 15 levels for a reason. 16 Now EPA did do it and then the court mandated
- 17 changes. And Mr. Silverman has pointed out where the states are allowed the discretion to override those SIL's if they
- feel appropriate. But no state is going to override, even
- 20 as I say .024 micrograms is a problem or NO2. Not going to 21 happen.
- 22 Q Let's go back to your August 16, 2013 report.
- 23 Tell us what the conclusions were in that report.
- A Our conclusions were that the, once these -- these 25 four steps were taken to refine the analysis for the micro-

- 1 scale effects we're looking at, that there were no
- 2 violations and that there wasn't even close to being a
- violation of any standard.
- 4 The opposition is alleging that you've reversed,
- engineered the results, that you changed the methodology to
- get the result that you wanted. How do you respond to that
- 7 criticism?
- 8 A Well, frankly, I can't, I can't, I can't do biased
- analysis and I'll tell you why. I, half my practice, a lot
- of my practice is for industry. A lot of my practice is for
- 11 groups like Kensington Heights and states in the EPA. I
- 12 have a track record. I've been doing this for 38 years. So
- my goal, whether it be litigation or permits, is to be
- 14 consistent, as consistent as I can be and to not try to --
- 15 I'm not trying to have Costco pass contrary to what people
- 16 may think. My goal is to make sure we conservatively
- 17 represent the concentrations that are necessary to mitigate
 - them and make sure the exceedances do not happen to the
- 19 standards. And that's the process that I follow for any
- 20 client. And so I do take exception to the inference that
- 21 I'm saying, look, Costco, I may help you pass, I'll run the
- 22 mall in a way that gives you the lowest numbers.
- 23 If I was doing that, I wouldn't have taken the
- 24 steps after the protocol to double the numbers by changing
- the surface roughness and that wasn't even discussed at the

- process is solved by the statement implementation plan,
- called the SIP. And the SIP looks broadly at the
- metropolitan area in the case of ozone, not just traffic-
- related, and they determine what do we have to do to get in
- compliance and they'll focus on major facilities and they'll
- also focus on roadways as source categories and, you know,
- possibly gasoline marketing as a category. And they will
- 8 run, they'll run photo-chemical models to see, well, what
- combination of changes do we have to make in order to

10 achieve the standard?

11 And it's more of a, more of a metropolitan-wide 12 effort in each state and the Washington, D.C. area, because we have three jurisdictions that come together right here.

So that's -- it's the SIP process really for those kind of

things. 15

16

17

19

MR. GROSSMAN: Well, is there ever an order issued of some sort from the EPA that stops any further projects in an area that's non-attainment that might further exacerbate the problem?

20 THE WITNESS: I've never heard of that. They do 21 have lowest achievable technology requirements. If you have

- non-attainment, they'll be more strict than if you weren't.
- But I've never, I don't recall, and it may have happened,
- maybe Dr. Cole when he testifies can get into this, but I
 - don't recall any situation where EPA would have dictated no

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- 1 protocol meetings. That's not how my practice operates.
- And if I operated it, if I only worked for one side or the
- other, maybe companies can do that, but I don't. So, no, no
- one, I've worked for environmental groups. They're not
- 5 going to hire me if they know I'm biased towards industry.
- 6 When I work for environmental groups, I tell them that if
- 7 I'm working for you, I'm going to, I'm going to be
- objective. I'm not going to just try to pull off a negative
- side to the other side you're trying to fight. So that's
- how we try to balance our practice. It's balanced. It's 10
- 11 not like we work for one side or the other.
- 12 And putting aside your professional credibility,
- 13 is it your testimony that your methodology complies with EPA
- 14 quidelines?
- 15 A It does.
- 16 MR. GROSSMAN: May we return for a second to the 17 statement about what happens when you're in non-attainment
- as we are for ozone as you indicated? So when you, when an 18
- area is in non-attainment, the EPA, what is the EPA action 19
- 20 with regard to any proposed facilities during that period of
- 21 time that might further raise that level?
- 22 THE WITNESS: Well, I could show you what's called
- the PSD, prevention of significant deterioration, could be 23
- triggered and I don't do a lot of permit work, but I don't
- want to say anything wrong in the record. But basically the

- further growth in any particular area.
- MR. GROSSMAN: All right. Okay. Go ahead, Mr. 2 3 Goecke.
- BY MR. GOECKE:
- 5 And how does the significant impact level affect
- whether a project is allowed to go forward or not when an
- 7 area is in non-attainment?
- 8 A Well, there eventually is significant
- 9 deterioration. I talk about design to avoid having creep
- 10 upwards in the air quality levels. And if you are higher
- than the SIL, you're going to have to give more detail
- analysis and get a permit. In this case, in this, of
- course, PSD is not required for Costco. I was just using
- the SIL as a benchmark, as a point of comparison.
- 15 And what is the significant impact level for one 16 hour NO2 exposures?
- 17 A It's 7.5 micrograms per cubic meter.
- 18 Q And the contribution from the Costco site was what 19 again?
- 20 A 0.024.
- 21 MS. ROSENFELD: I'm sorry, could you repeat that 22 number please?
- 23 THE WITNESS: 7.5 micrograms per cubic meter for 24 the one hour NO2 SIL.
 - MS. ROSENFELD: Thank you.

- 1 MS. CORDRY: And, again, what was .24 number you
- 2 said?
- 3 THE WITNESS: 0.24 was the contribution from the
- 4 Costco gas station to the receptor that created the highest
- 5 value at the loading dock.
- 6 MR. GROSSMAN: You just, right now you said 0.24.
- 7 Before I think you said 0.024.
- 8 THE WITNESS: It's 0.024.
- 9 MR. GROSSMAN: Okay. Thank you.
- MS. CORDRY: Okay. Because you've gone back and
- 11 forth now twice. You have another zero in there between the
- 12 period and the --
- THE WITNESS: It's 0.024 per my recollection.
- MS. CORDRY: And that's out of the 277 you're
- 15 saying, .02 out of 277 from the gas?
- 16 THE WITNESS: From the gas station.
- 17 MS. CORDRY: Okay.
- 18 THE WITNESS: That's right. The wind wasn't
- 19 blowing in that direction in the gas station when that
- 20 occurred.
- 21 MS. CORDRY: I'm sorry --
- MR. GOECKE: I think she's getting into cross-
- 23 examination.
- MS. CORDRY: Well, no, I'm just trying to
- 25 understand this because the number has gone back and forth

- 1 MR. GROSSMAN: All right. That's the one hour NO2
- 2 significant impact level?
- 3 THE WITNESS: Correct.
- 4 MR. GROSSMAN: Okay. And in micrograms per cubic
- 5 meter?

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- 6 THE WITNESS: Yes.
- 7 BY MR. GOECKE:
 - Q Okay. And since you last testified here, Mr.
- 9 Sullivan, you also submitted another report; a revised noise
- .0 study which I believe is Exhibit 249(e). Why did you
- 11 perform that study?
- 12 A We had discussion at one of the earlier hearings
- 13 and there was a lot of discussion about and statements made
- 14 that the noise standards would be violated. And discussion
- 15 also came up that the period of our monitoring was shortened
- 16 because of rain issues on that day --
- 17 Q Okay.
 - A -- and so my objective was to get additional
- 19 information by going out to the mall area on a heavy day for
- 20 mall usage and a day, a Saturday when the nighttime
- 21 restriction for noise extended to 9 o'clock. I was looking
- 22 for kind of a worse case situation. So I went out there at
- 23 6:00 in the morning and I gathered samples, noise, noise at
- 24 two different locations from approximately 6:40 a.m. until
- 25 about 2:00 p.m. to evaluate nighttime, which would be until

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- 1 now twice in his testimony.
- 2 MR. GROSSMAN: Yes, I would like to be clear on
- 3 this myself, what this numbers means, so let's see if we can
- 4 pin this down.
- 5 THE WITNESS: We showed the example that you use,
- taking the example from Dr. Cole in our report were the
- 7 maximum occurred, 98th percentile controlling value, like
- 8 the 277. We looked at that condition and what happened at 9 that hour and looked at what the gas station contributed and
- 9 that hour and looked at what the gas station contributed and
- 10 it contributed 0.024 micrograms per cubic meter.
- MS. CORDRY: And that's, you're saying, becausethe wind was going the opposite direction that particular
- 13 hour or something or --
- 14 THE WITNESS: What I'm saying is when the maximum
- 15 occurred from the loading dock -- there's two reasons. One
- 16 is the wind was not blowing from the gas station and, number
- 17 two, the loading dock had much higher emissions and it was
- 18 right next to the receptor being modeled.
- MR. GROSSMAN: All right. And what does the 7.5
- 20 figure relate to?
- 21 THE WITNESS: 7.5 would be the significant impact
- 22 level that should be compared in this case to the 0.024.
- 23 MR. GROSSMAN: Okay.
- THE WITNESS: I'm using that as an example. You
- 25 know, we could do others.

- ${\bf 1}~{\bf 9}~{\bf o}'{\bf clock},$ quote, unquote, nighttime, and then daytime noise
- 2 levels.
- 3 Q And what did you find?
- 4 A I found that the noise levels, when you look at it
- 5 specifically with data for the daytime and nighttime
- 6 allocated and identified, that in both cases the noise
- 7 levels were far below the standards.
- 8 Q Do you have those numbers in front of you? Do you
- 9 know how far from --
- 10 A I don't have them in front of me, but more than,
- 11 by more than five to seven decibels as I recall.
- 12 Q And these are, I guess, what we consider
- 13 background noise levels?
- 14 A Correct. And some of the highest noise levels
- .5 that contributed what I did have was from cicada activity
- 16 which gave some interesting peaks and a barking dog, which I
- 17 described in my report.
- 18 Q In --
- MR. GROSSMAN: Well, what, if any, addition would the gas station make to those noise levels?
- THE WITNESS: That was modeled in our report
- 22 earlier. If you add those levels to what we measured,
- 23 that's how we assessed, you know, how would it work out and
- 24 it was quite a ways below the noise levels. There will not
 - 5 be noise violations when the gas station is built. That

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- data made clear that's the case.
- 2 MR. GROSSMAN: All right.
- 3 BY MR. GOECKE:
- 4 Q And that's in your professional opinion?
- 5
- I'd like to turn now to monitoring the air at 6 Q
- 7 facilities. Have you ever worked on projects where a site
- or a facility was required to monitor the air after it 8
- 9 opened?
- A Yes. 10
- 11 Q And when is, generally when is that required?
- 12 Well, it can be required for major permits. EPA
- 13 has the authority to require, you know, monitoring before
- and after a facility is built. The examples that I've 14
- 15 worked with would situations for let's say lead smelters.
- Well, lead smelters control their emissions by housekeeping 16
- 17 measures. If they don't keep the housekeeping measures in
- good shape, they'll have high levels of pollutants. So to
- 19 make sure they're towing the mark, a lot of, most, all times
- 20 I've seen they're required to have monitors at all four
- 21 major compass points and they'll measure routinely the dust
- 22 loadings and the lead concentrations to make sure that
- they're meeting the standards. So I've seen it for that
- 24 kind of a circumstance.
- 25 Q And what is it that triggers the allegations

- Q Have you ever worked on a project comparable to
- 2 the proposed Costco gas station where air monitoring was
- required? 3

5

13

- 4 A No. No.
 - Have you ever worked on a project comparable to O
- the Costco gas station at all?
- 7 A I worked on similar projects like this, yes.
- 8 Q Such as?
- 9 We've done modeling for certain solvent use at
- 10 auto body shop, paint shops, auto body shops, things like
- that, similar commercial operations, but monitoring of the
- 12 air is not required for them either.
 - Okay. Do you think it would be appropriate in
- this situation to require Costco to conduct air monitoring
- after the gas station were to open? 15
- 16 No, it's really, it's unnecessary.
- 17 And why do you say that?
- Well, because if you do look at the composite set 18
- 19 of work that were done so far, including the earlier reports
- 20 and the refinement for NO2, one hour, Costco, first of all,
- 21 is creating relatively small impacts. Costco gas station is
- 22 creating quite small impacts. Furthermore, if you look at
- the concentrations, they're all below the standard. So put
- those two facts together, what would be gained by having
- them put a monitor in? It's going to show -- it's going to

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- 1 monitor in the first place?
- Well, it's a concern that there may be a violation
- 3 of the standard.
- Q 4 Whose concern?
- 5 Regulatory agency's concern, EPA or the state's. Α
- 6 Are those situations like you talked about before
- 7 where mitigation efforts have been employed to try to make
- 8 sure a facility peaks emissions lower?
- 9 A Well, you definitely -- I mean, for example, as an
- example, a case you worked on in South Carolina the last 10
- 11 three or four years is lead smelter, the first lead smelter
- 12 built in the United States actually in a long time, that we 13
- went through a very convoluted process to get them, their 14
- emissions down to meet the standards. But I was involved in
- 15 working for three environmental groups on that project and
- we insisted that they put monitors, which the state would
- 17 have done anyway, but put monitors at different locations
- that we specified to make sure they wouldn't violate the 18
- standards because they would violate the standards if they 19
- 20 didn't do all the things they said they were going to do
- 21 which involved a lot of housekeeping measures, keeping these
- 22 clean. So it's done in a circumstance we are concerned that
- 23 there could be a violation and you want to have a watchdog
- that monitors the watchdog. If your situation was not even
- close, they're not going to require monitoring.

- show attainment. I have no doubt about that. So it would be in my view a waste of resources.
- 3 MR. GROSSMAN: How costly is a monitor?
- 4 THE WITNESS: It's expensive and it basically, it
- depends how many monitors you have and what you're
- monitoring for, of course, but you need the right protocols,
- you have to have periodic maintenance and calibration. To
- do it correctly, which is how you do it, it's very costly.
- I mean it's -- it depends how many years you do and so
- forth, but we costed out monitoring that works for a project 10
- not long ago and if you did a lot of pollutants, it could be
- well over \$100,000 just for equipment. If you're doing one
- pollutant, it's going to be a lot less than that, but the
- overall maintenance and operation, there's a lot of steps
- you have to take in terms of quality control and quality
- 16 assurance that do add up and it's a costly undertaking.
- 17 MR. GROSSMAN: Well, for a -- let's take this
- situation, Costco gas station. Let's say the Board of 18
- Appeals were to decide to grant the special exception, but 19
- to order air monitoring of the substances that are
- considered potentially health hazard, health hazards by the
- EPA. What would that cost in your estimation for a year of 23 monitoring?
- 24 THE WITNESS: What pollutants should be assumed?

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- 1 compounds; particulate matter, 2.5 and lower; and the other
- 2 substances, carbon monoxide, NO2 and so on that we've
- discussed here.
- 4 THE WITNESS: In the end, it would depend, of
- course, on how many sites are being monitored, but ballpark 5
- number, it would be at least in the order of 50 to \$100,000
- 7 a year, 50,000 to \$100,000, possibly more.
- 8 MR. GROSSMAN: And if the sites that were
- monitored were restricted to residences within let's say 200
- 10 feet of the gas station, the swimming pool nearby and the
- 11 Stephen Knolls School, what would be your estimation of the
- 12 costs of that kind of monitoring, and I guess right on the
- 13 site near the gas station?
- 14 THE WITNESS: Such as in the Westfield -- I want
- 15 to get the context -- Westfield buffer and those areas near
- the school? 16
- 17 MR. GROSSMAN: Right.
- THE WITNESS: If you did that whole set of 18
- 19 chemicals, plus you did volatile organic compounds for a
- 20 suite of chemicals like benzene and toluene and so forth,
- 21 that would be over \$100,000 a year. I can't tell you
- 22 exactly, 100 to \$150,000 a year.
- 23 MR. GROSSMAN: Okay.
- 24 THE WITNESS: At least that. To purchase the
- 25 equipment, install the equipment, have power installed,

- A -- getting a sample for 24 hours. Or you can use
- a toluene which gives you hour by hour coverage. In terms
- of the volatile organic compounds, you would most likely do
- that every six days, you would take canister samples and
- send those to the laboratory for analysis on a 24-hour
- integrated time basis sample. Those are not done
- 7 continuously.
- 8 MR. GOECKE: Mr. Grossman, I think now might be a
- good time to take a break and we can take a look at that
- 10 document and maybe just have a few more follow-up questions.
- 11 MR. GROSSMAN: All right. Let's do that and we'll
- 12 come back at around five until 11:00. Do you want to come
- 13 back at five after 11:00? We're in recess.
- 14 (Whereupon, at 10:55 a.m., a brief recess was
- 15 taken.) 16 MR. GROSSMAN: Mr. Sullivan, have you had an
- 17 opportunity to look through the EPA Exhibit No. 285, the
- guidelines? Tell me about what particular pages refer to
- 19 the refinement process you're talking about?
 - THE WITNESS: I have and this, for the record,
- 21 this document is not complete. It only contains starting at
- 22 Section 8, but I have --
- 23 MR. GROSSMAN: Well, which document are you
- 24 looking at?

20

25 THE WITNESS: I'm looking at Exhibit --

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- 1 calibrate, develop a quality assurance plan, implement the
 - plan, do it right. It's an expensive procedure. You're saying that's not complete?
- 3 MR. GROSSMAN: Okay. All right. 3
- 4 BY MR. GOECKE:

7

- 5 Q Is there any significance to a year's worth of air
- 6 modeling in terms of data, sampling size or --
 - A Well, it certainly isn't enough in terms of
- 8 background, so if it was pre-construction, which isn't being
- talked about here, but that would not be enough to give you
- 10 a stable data set. In some cases when EPA does require a
- 11 post-construction monitoring, they do in some cases ask for
- 12 a year of data for confirmatory purposes. So that has
- 13 happened. It's not against EPA's policy in that. But for
- 14 background you need three years, otherwise you have an
- 15 unstable basis. You know, things do bounce around somewhat.
- 16 It's not enough really to give you a definitive answer.
- 17 Q So in order to know the specific background at the
- 18 mall site, for example, you would need three years of data?
- 19 Yes, you would.
- 20 Taken how frequently, daily, weekly, monthly?
- A Well, the things like NO2 and CO would be taken 21
- 22 hour by hour. Particulate matter, PM2.5, there's two ways
- you can go. You can do it with the reference method which
- 24 would be every three days, every six days --
- 25 Q Okay.

- MR. GROSSMAN: 285? The one I have has 71 pages.
- THE WITNESS: It's not complete. It's missing sections 1 through 7. And it's also missing Sections 831,
- 832 and, well, then it starts with 833. No, it doesn't.
- Let me see here. I'm sorry, maybe, maybe -- I think I mis-
- 7 spoke. It may be in here.
- MR. GROSSMAN: Yes, Section 1, I see a Section 1. 8
- 9 Maybe it's not, it's not reflected in the table of contents 10 perhaps.
- 11 THE WITNESS: Strange. I'll -- I can see that it is here. I did find the section, though, I was looking for. 12
- 13 MR. GROSSMAN: All right.
- 14 MR. SILVERMAN: Just to clarify, this is an
- appendix to a very long document and, but I just ran out of 16 nickels, so I'm just giving you this stuff.
- 17 MR. GROSSMAN: All right.
- 18 THE WITNESS: It's complete enough.
- 19 MR. SILVERMAN: Thank you.
 - THE WITNESS: In Section --
- MR. SILVERMAN: I think it's W, too, which means 21
- 22 there is an A, B, C, D.
 - THE WITNESS: Section 1. Section 1(d).
- 24 MR. GROSSMAN: All right. Which is, Section --
- 25 THE WITNESS: I'll read.

20

23

| | Page 66 | | Page 68 |
|----------------------|---|----------------|---|
| 1 | MR. GROSSMAN: 1(d), which would be page | 1 | application." |
| 2 | THE WITNESS: Page 5? | 2 | Okay. |
| 3 | MR. GROSSMAN: 5 of 71, yes. | 3 | THE WITNESS: Those are two examples. There may |
| 4 | THE WITNESS: Should I read that into the record | 4 | be others, but that's the point I was making. |
| 5 | or is that sufficient just to reference it? | 5 | MR. GROSSMAN: Okay. |
| 6 | MR. GROSSMAN: Well, let me take a look at it a | 6 | BY MR. GOECKE: |
| 7 | second. Essentially it says that the model that most | 7 | Q Again, I'm sorry, Mr. Sullivan, did you say |
| 8 | accurately estimates concentrations in the area of interest | 8 | Section 2.2, level of sophistication levels? |
| 9 | is always sought, however, it also expresses a need for | 9 | MR. GROSSMAN: I think he was referring to 3 |
| 10 | consistency. All right. | 10 | MR. GOECKE: Okay. |
| 11 | THE WITNESS: I'm just trying to, trying to strike | 11 | THE WITNESS: Section 3 |
| 12 | a balance as I read it between those two things. | 12 | MR. GROSSMAN: 3(d). |
| 13 | MR. GROSSMAN: All right. Is there any other | 13 | THE WITNESS: 3(d). |
| 14 | section or is that the specific one you | 14 | BY MR. GOECKE: |
| 15 | THE WITNESS: That's the one I was thinking about. | 15 | Q Would you mind taking a look at 2.2, okay, to see |
| 16 | MR. GROSSMAN: Okay. | 16 | if that might be one of the provisions as well? |
| 17 | THE WITNESS: Section 2.3 also basically makes the | 17 | A Which paragraph, Mr. Goecke, were you referring |
| 18 | same point as well. | 18 | to? |
| 19 | MR. GROSSMAN: All right. 2.3 2.2 or 2.3? | 19 | Q A and B, and C for that matter. |
| 20 | THE WITNESS: 2.3 has some statements in it as | 20 | A Yes. This section of this is describing the |
| 21 | well. | 21 | tearing philosophy |
| 22 | MR. GROSSMAN: All right. That's availability of | 22 | Q Okay. |
| 23 | models, begins the very end of page 6 and goes on to page 7. | 23 | A that EPA has. I'm talking about to eliminate |
| 24 | THE WITNESS: And 2.3, Section V. | 24 | the need from a detailed modeling. This can apply to |
| 25 | MR. GROSSMAN: 2.3, Section D? I don't appear to | 25 | selection of model. It also applies to how you run the |
| | | | |
| | Page 67 | | Page 69 |
| 1 | have | 1 | 9 1 |
| 2 | MR. GOECKE: I don't see that either. | 2 | simplified assumption is in my view, indicates that the |
| 3 | MR. GROSSMAN: 2.3, Section D. I see a 3.0, | 3 | concentration contributed by the source exceeds the PS2 |
| 4 | Section D. | | increments or the other meaning to just meet the NAQS and a |
| 5 | THE WITNESS: I'm looking at an electronic file. | | cycle level or more sophisticated models should be applied. |
| | I don't have the whole page. Let me find it. | | We're using the same models, but using the different, the |
| 7 | MR. GROSSMAN: Why don't you look at the paper | 7 | different degrees of refinement in the treatments within the |
| 8 | copy because that's what we have in front of us. THE WITNESS: Yes, Section 3. | 8 9 | model. Q Okay. Thank you. And then going back to our |
| 9 | | | |
| 10 11 | MR. GROSSMAN: Okay. Section 3, beginning on page 7? | 10 11 | discussion about air modeling, hypothetically speaking, could it be possible that someone could do something to |
| 12 | THE WITNESS: Let's see. That is correct. And | 12 | affect the results of the air modeling? |
| 13 | I'm looking at Section D. | 13 | A In what way? |
| 14 | MR. GROSSMAN: All right. So Section 3(d), it | 14 | Q To, you know, for example, hypothetically |
| 15 | says it should be, | 15 | speaking, if someone wanted there to be exceedances shown by |
| 16 | "It should not be construed that the | 16 | the air monitoring, could anyone do anything to affect the |
| 17 | preferred models identified here are to be | 17 | results to try to elevate the level of contaminants that |
| | r | 1-1 | |
| | permanently used to the exclusion of all | 18 | nave been tested? |
| 18 | permanently used to the exclusion of all others or that they are the only models | 18 19 | have been tested? A Theoretically they could. I have never seen that |
| | others or that they are the only models | 18 19 20 | A Theoretically they could. I have never seen that |
| 18 19 | others or that they are the only models available for relating emissions to air | 19 | A Theoretically they could. I have never seen that in my monitoring experience. But there has been a concern |
| 18 19 20 | others or that they are the only models | 19 20 | A Theoretically they could. I have never seen that |
| 18 19 20 21 | others or that they are the only models available for relating emissions to air quality. They're modeled at most accurately | 19 20 21 | A Theoretically they could. I have never seen that in my monitoring experience. But there has been a concern from time to time that, for example, the work I've done on |

24 25 designation of specific models as needed to

promote consistency in model selection and

24 not fond of those pesticides. And the concern would be that

25 they would release some of that pesticide near a monitor

Page 70 Page 72 1 that would bias the results. I haven't seen it happen. It NO2, you said that the NO2 fraction of NOX is .25 percent? could happen, but it's not typically an issue. 2 A I'm referring to out of the tailpipe. 2 3 MR. GROSSMAN: What -- if you would adjust model 3 Oh, the tailpipe? 4 NO2. what would be the costs? 4 MR. GROSSMAN: Well, you're saying .25 or .25 THE WITNESS: Just a monitor? 5 5 percent? 6 MR. GROSSMAN: Yeah, monitor, not modeling. 6 MR. SILVERMAN: I'm sorry, 2.5, yes, 25 percent. 7 Monitor NO2 for a year let's say? 7 THE WITNESS: 25 percent upper-bound out of the THE WITNESS: For the same three locations you tailpipe of either automobiles, gasoline automobiles or 8 8 said before? 9 9 diesel vehicles. BY MR. SILVERMAN: 10 MR. GROSSMAN: Right. 10 11 THE WITNESS: I think just real, don't, please 11 Q Okay. Could I take a look at Exhibit 285? Can I 12 don't hold me to this. It would be more on the lower end of 12 draw your attention to page 15, the bottom of the page? the range I gave earlier. I say 50 to \$100,000 or more. The heading is multi-tiered screening approach for 13 14 MR. GROSSMAN: Okay. estimating annual NO2 concentrations from point sources. 15 THE WITNESS: The instruments themselves, I hate 15 MR. GROSSMAN: Page 15? to guess, I've costed it out before, but I don't remember 16 MR. SILVERMAN: Yes. And there's an image, but I 16 17 the exact amount. They should be paying 30 or \$40,000 just 17 couldn't get it. So -for the monitors. So 50 is probably a low end because you BY MR. SILVERMAN: 18 Q But I want to read B and C here, and I'll read 19 have to then run the program, quality control it and so 19 20 forth. 20 them and tell me if this agrees with what you just said. 21 MR. GROSSMAN: Okay. 21 "Tier 1, the initial screen, use an THE WITNESS: Certain expenses are inherent 22 22 appropriate model to estimate the maximum whether you do one pollutant or three or four, like the 23 annual average concentration and assume a quality assurance plan, the protocol and the oversight 24 total conversion of NO to NO2." procedures are very similar. So there is -- it's not 25 That's the conservative approach, I think you took Page 71 Page 73 1 scalable to be a fourth if you did one instead of four. initially? 1 2 MR. GROSSMAN: Okay. 2 Α That's correct.

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MR. GROSSMAN: Okay.
BY MR. GOECKE:
Q And I can't remember how much you testified about
this before, but are there any trends in terms of NO2 in the
atmosphere, in the ambient air?
A It's trending downward in the D.C. area and
nationally, I believe, it's trending downward.
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9 Q Is that why the background levels have gone down?
10 A Yes. The controls in the automobiles and trucks
11 are reducing NO2 emissions and as the fleet turns over from
12 year to year, you get more newer vehicles and older vehicles
13 off the road, the trend is downward and should be expected
14 to be downward.

15 Q Thank you.

MR. GOECKE: I have no further questions.

MR. GROSSMAN: All right. Who from the opposition

18 wishes to cross-examine? Mr. Silverman?

MR. SILVERMAN: We'll try. Let me apologize in advance for what is, I expect, will be a halting

performance, but there's a lot of new information, there's alot of complicated information.

22 lot of complicated information.

23 CROSS-EXAMINATION

24 BY MR. SILVERMAN:

Q Just a clarification. The conversion of NOX to

Q "If the concentration exceeds the max and/or
 PSD increments for NO2 precedes the second-level screening, for Tier 2(c), for Tier 2
 second-level screening analysis, multiply the
 Tier 1 estimates by empirically derived NO2
 to NOX value of .75."

9 That's 75 percent. So is that -- so is it 75 10 percent or is it 25 percent?

A Well, you're referring to Tier 2 and actually
these days EPA is more saying 80 percent. This is a
national number. In other words, 80 percent, rather than 75
percent, is the current, accepted value and that's for any
source. It could be a power plant. It could be whatever.

source. It could be a power plant. It could be whatever.
Q But this is talking about how to go from a
screening process to this more detailed or refined process,
to use your words, and they say the rule is use 75 percent.
You're saying 80 percent. And it does indicate, the next
sentence indicates the reviewing agency may establish an
alternative default ratio, but we don't care.
A Well, that's correct. You didn't go to the next

A Well, that's correct. You didn't go to the next tier. Tier 3 is detail where we could use the ozone limiting method or in this case, or if we're talking about the gas queue and the loading dock, source-specific ratios

- 1 can be used. And as I mentioned, the source specific ratio
- 2 maxes out at 25 percent NO2.
- 3 Q Yes, but this is, this is -- that Tier 3, that's a
- 4 decision to be made by regulatory bodies, isn't it?
- A No, not necessarily. I mean if we're following
- 6 EPA's guidance and the objective is to achieve the most
- 7 accurate modeling, which is the goal here, I hope, well,
- 8 then the most -- if you're dealing with what are the
- 9 concentrations in a loading dock right as it's being
- 10 released effectively from the exhaust of a truck and we know
- 11 that the ratio is only 25 percent NO2, why would we be
- 12 forced to use 100 percent or 80 percent or 75 percent? I
- 13 mean it's -- what I'm stating we could have done, we haven't
- 14 done it and as I recall we could have, is that you can
- 15 justify very clearly per the guidance using site specific
- 16 ratios for that scale of analysis. I mean we could do,
- 17 frankly, we could have used the old modeling domain, the
- 18 ozone limiting method which would have further reduced it
- 19 throughout the --
- 20 Q Yes.
- 21 A -- entire modeling grid.
- 22 Q You know, I'm sure there's logic to everything you
- 23 say, I'm just, I'm just trying to follow the rules.
- MR. GROSSMAN: Well, that's not a question.
- MR. SILVERMAN: Well, excuse me. I'm sorry. I

- 1 A I'm saying -- no, I'm not saying it's 100 percent.
- 2 MR. GROSSMAN: You have me confused by that
- 3 question.

- 4 MR. SILVERMAN: Let me ask it again.
- 5 MR. GROSSMAN: Because we were talking about
- 6 NO2 --
- 7 MR. SILVERMAN: Right.
- 8 MR. GROSSMAN: -- and then you slipped over to
- 9 zone.

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- BY MR. SILVERMAN:
- 11 Q We're talking -- well, NO2 and ozone are, have
- 12 some relationship, isn't that true?
- 13 A They're interrelated certainly for the chemical 14 process.
- Q So is it not the fact, tell me if I'm wrong, is it
- 16 not a fact that when you have high ozone levels, the
- 17 conversion rate from NOX to NO2 can be much higher than
- 18 normal?
- 19 A I don't know if that's true or not, but when you
- 20 have high ozone levels, you will have lower NO2 levels
- 21 generally. That part is true.
- Q Well, yes, but I just want to get what is the 25
- 23 percent conversion rate or 75 percent or one to one?
- 24 A Well, with a travel time distance of 10 meters,
- 25 that doesn't matter. I mean basically what you get out of

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- 1 apologize.
- 2 MR. GROSSMAN: The witness has answered the 3 question.
- 4 MR. SILVERMAN: Yes. But you said if you go to
- 5 Tier 3, you can then look at a source-specific or site-
- 6 specific ratio. But if you look at D on page 16, the last
- 7 sentence there, site specific ratio derived from maximum
- 8 impact data can only be used to estimate NO2 impacts that9 receptors located within the same distance of the source as
- the source to monitor distance in the monitor. So, first of
- 11 all, I'd suggest you do some monitoring in addition to
- 12 modeling, but also the monitors in this case were regional
- 13 monitors, isn't that correct?
- THE WITNESS: Well, this, but in this case here we're talking about estimating concentrations within the
- 16 source itself, almost right exactly next to where the
- 17 tailpipe is releasing the NO2. If you look at how much
- 18 conversion could take place in 10, 20 meters, you find it's
- 19 essentially zero. So logic says site-specific in this case
- 20 has to be the ratio coming out of the trucks.
- 21 BY MR. SILVERMAN:
- Q So isn't it a fact that when there's a high ozone
- 23 level, non-attainment for ozone which is, which you
- 24 testified is a condition here, that the conversion could be
- 25 100 percent?

- 1 the tailpipe is what you're going to breathe. There's no
- 2 time for any conversion, photo-chemical or otherwise. It's
- 3 a matter of 10 seconds if we're talking about one meter per
- 4 second flow.
- 5 Q So you're saying that the presence of ozone does
- 6 not affect the conversion of -- let me start again if I may?
- 7 You're saying the presence of the high levels of ozone does
- 8 not affect the conversion ratio of NOX to NO2, is that your
- 9 testimony?
- 10 A I said I didn't know the answer to that question.
- 11 Q Thank you. All right. Thank you. All right.
- 12 Mr. Grossman asked a question about what does EPA do when an
- 13 area is a non-attainment and a new source causes worse non-
- 14 attainment, which happens a lot, and you, I think, correctly
- L5 said they resort to the SIL's, the significant impact
- 16 levels. But do you know of any cases where an area is in
- 17 attainment and a new source, no matter how small, creates
- 18 non-attainment where they resort to the SIL's, do you know
- 19 of any case like that or any rule or regulation to that 20 effect?
- 21 A Well, certainly if it's -- I don't claim to be a
- 22 permit expert, Mr. Silverman, but if you're in an attainment
- 23 area, then it presents no significant deterioration applies
- 24 and those SIL's do apply. So that if you did your initial
- 5 assessment and you found you're over the SIL's and you

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- 1 qualified as a PSD source, then you'd have to do a detailed
- 2 review. And --
- 3 Q Isn't that --
- 4 A That isn't the case here because this facility
- 5 doesn't qualify.
- 6 Q Isn't it, let's just --
- 7 MR. GROSSMAN: This facility doesn't qualify as a
- 8 PSD source?
- 9 THE WITNESS: That's correct.
- MR. GROSSMAN: And, for the record, define a PSD source.
- THE WITNESS: They define how many tons a year you
- 13 have to emit by different source category sizes. And I
- 14 think the lowest threshold is 100 tons per year. But for
- 15 the, but there's no category for gasoline station in that
- 16 list. So it would take a higher level for them to qualify
- 17 and they don't even come close to meeting the standard.
- MR. GROSSMAN: What do the letters PSD stand for?
- 19 THE WITNESS: Prevention of significant
- 20 deterioration.
- MR. GROSSMAN: All right.
- 22 BY MR. SILVERMAN:
- 23 Q All right. Well, I want to -- it's true that the
- 24 PSD rules don't apply, I agree with that, I'm sorry, but let
- 25 me just get a little clarification here. If you are well-

- 1 apologize. We were just talking about initial impact. I'm
- 2 talking about the final number, the final impact that's
- 3 calculated. And if it's below the SIL, normally the source
- 4 can go ahead and locate and construct, but if it is below
- 5 the SIL, but it exceeds, it causes a new non-attainment that
- 6 did not exist before, then that source may not proceed,
- 7 isn't that correct?
- 8 A That's not correct. The SIL is a threshold issue.
- 9 The real issue is there's -- a PSD has increments and they
- Lo have different classes, Class 1, Class 2, Class 3. So it
- 11 depends if they're exceeding the increment or not and it
- 12 gets into -- it's a lot more to it than what you just said.
- 13 Q So, well, just -- the PSD concerns, these are
- L4 permitting concerns, isn't that right?
- 15 A Yes, these are permitting.
- 16 Q Yes. And you had, you testified you don't do a
- 17 lot of permits, is that right?
- 18 A We have done modeling for permits. We certainly
- 19 have done PSD-related permits. We don't do it routinely.
 - Q All right. And so it's your understanding of the
- 21 law of permitting that even, that a source, a major, new
- 22 source that will cause a new non-attainment would be
- 23 permitted even, so long as it stayed within the significant
- 24 increment levels?
 - A No, I'm not saying that. I mean I'm saying if a

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- 1 below non-attainment, you're in attainment and you have a
- 2 lot of room to spare, the question comes in how much more
- 3 should you be able to add and they establish the SIL's to
- 4 help new sources in attainment areas comply with the
- 5 prevention of significant deterioration standards, is that
- 6 correct?

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- A Well, the SIL's, of course, in the context of PSD
- 8 apply to major facilities as defined by EPA, not to any
- 9 facility. I use SIL as a point of reference.
- 10 Q Right. Well, we want to understand this point of
- 11 reference because there's a legal implication here perhaps.
- 12 So the SIL's help in determining whether a major new source
- 13 is creating a significant deterioration? Essentially, they
- is creating a significant deterioration? Essentially, theydefine significance in that case. But is it not also true
- 15 that even, that any increment below the SIL's that causes an
- 16 area to go from non-attainment to attainment is forbidden,
- 17 is that not true?
- 18 A Well, the first premise, you said, you said a
- 19 statement that wasn't correct in my view. If a facility is
- 20 exceeding the SIL initial modeling, does that mean they
- 21 create a significant impact? Well, it depends. They give
- 22 an initial assessment and they do refine modeling and so
- 23 forth. What will be the final conclusion? We don't know.
- 24 It could go either way.
- 25 Q Well, I didn't mean to suggest, if I did, I

- new source is going to violate the standards after all is
- said and done, they won't get a permit to construct.
- 3 Q Even if the violation is small?
- 4 A The regulatory agency will make that call, but
- 5 from my experience working with a number of permitting where
- 6 I'm not writing the permit, but I'm doing the modeling for
- 7 the permit, they have to be under the standard and, you
- 8 know, we've gone through multiple iterations. If the PM10
- 9 standard is 150 and you're at 151, you've got to come up
- 10 with something else to get below 150. So that's how the
- 11 process works. I haven't seen states give discretion saying
- 12 you can be a little bit over.
- Q So it's generally the rule you're not supposed to
- 14 violate national air quality standards, right?
 - A Well, certainly that's the rule.
- 16 Q Okay. And I think in a memo I submitted to Mr.
- 17 Grossman, there are, chapter and verse, for what to do in
- 18 cases of attainment is cited there and I haven't heard
- anything to refute it. Perhaps there is something.
- MR. GOECKE: Is he testifying or asking a question?
- MR. SILVERMAN: No, I'm just clarifying because it's a confusing area and I apologize. The --
- THE WITNESS: In answer to your question, a
- 25 combination.

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- 1 MR. SILVERMAN: Right. Right. All right.
- 2 BY MR. SILVERMAN:
- 3 Q You testified that you develop a protocol before
- 4 you do any of your modeling and measuring and so forth and
- 5 it's reviewed by participating parties. Who are those
- 6 participating parties?
- A Well, I'll give you an example. The work that we
- 8 did for the Sierra Club --
- 9 Q Okay.
- 10 A -- the Coastal Conservation League and League of
- 11 Women Voters in South Carolina, they paid us to ensure that
- 12 this lead smelter would not be creating adverse health
- 13 effects in their community. We sat down with the, with
- 14 state, first of all, to get the ground rules established.
- 15 Then we sat down with Johnson's Controls, which was the one
- 16 building the plant, and their consultants and we negotiated
- 17 a modeling protocol that all sides agreed to.
- 18 Q So the state was involved with the modeling
- 19 protocol?
- 20 A They were involved and were involved in the review
- 21 because this is a lead smelter.
- 22 Q Yes.
- A We then, they, both sides, side by side,
- 24 implemented the protocol. We modeled it, they modeled it to
- 25 keep everybody honest. And when all was said and done, they

- 1 I'm not going to testify here. I just -- let me check out
- 2 page 7, recommended air quality models.
- 3 MR. GROSSMAN: This is page 7 of Exhibit 285?
- 4 MR. SILVERMAN: Yes, sir.
 - BY MR. SILVERMAN:
- 6 Q And look at 3.0(b).
- 7 A You said E, sir?

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- 8 Q 3.0(b) as in boy.
- 9 A B? Thank you.
- 10 Q In this guidance,

"When approval is required for a particular modeling technique or analytical procedure, we often refer to the appropriate reviewing authority. In sum, EPA region's authority for NSR and PSD permitting and related activities has been delegated to the states and even local agencies. In these cases, such agencies are representatives of the respective regions. Even in these circumstances, the regional office retains the ultimate authority in decisions and approvals."

And that's, and is that not -- and isn't the same idea expressed in other parts of the guidance, the guidelines, particularly with regard to urban and rural

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- 1 wouldn't pass it and they came up with a series of enhanced
- 2 control measures to get below the standard which is very
- 3 small, .15 micrograms. And we both confirmed it and the
- 4 matter was closed.
- 5 Q So in these cases where we're talking about
- 6 particular facilities, isn't it true there's always a state
- 7 or Federal participant in the process?
- A Well, if a model, if a permit is required that
- 9 requires air quality and modeling, yes, but in this case
- 10 there's no such requirement.
- 11 Q Right. But --
- 12 A So you don't have a state involved or EPA
- 13 involved.
- 14 Q But in terms, that's true, that is the sad truth.
- 15 But in terms of, in terms of the process, aren't the
- 16 guidelines really clear that whenever, that the state or
- 17 usually the regional administrator has got to approve the
- 18 model protocol, isn't that not the case?
- A Well, certainly if it's a major source or a permit
- 20 to construct or a PSD permit, EPA has review authority. The
- 21 decision is made by the state regulatory agency that has
- 22 delegated that responsibility. But that, again, does not
- apply to the construction of a gas station. That's handledas a more, as a general source category by EPA.
- 25 Q Well, I understand. We're talking -- the, I --

- 1 decisions, is that not the case?
- A Well, the controlling words here was when approval
- 3 is required, which is not the case here. So you don't have
- 4 EPA and the states, they're not involved in the review of
- 5 the modeling because it's not required.
- 6 Q Do you do a lot of modeling where the EPA and the
- 7 states are not involved?
- 8 A Yes.
- 9 MR. SILVERMAN: He -- you reference several times
- 10 your investigation of the Sterling site. And do you recall
- 11 that, I think I asked you once before, do you recall a
- 12 November or December 20, 2011, study you did and you didn't
- 13 recall it. But I think I presented it to you and I would
- 14 like to put that study into evidence if I may?
- MR. GROSSMAN: You said November or December?
- MR. SILVERMAN: It's December 20, 2011.
 - MR. GROSSMAN: All right.
- 18 MR. SILVERMAN: It's called Air Quality Odor and
- 19 Noise Analysis for Proposed Costco Gas Station in Wheaton,
- 20 Maryland. Let me see if I have another copy.
- 21 THE WITNESS: Thank you.
 - BY MR. SILVERMAN:
- 23 Q Do you recognize that document?
- MR. GROSSMAN: All right. So let's mark it as an
 - exhibit here. Exhibit 286 and this is Air Quality Odor and

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- 1 Noise Analysis for Proposed Costco Gas Station in Wheaton,
- 2 Maryland, dated 12/20/11. I presume this was for the
- 3 earlier location of the station, not the current location?
- 4 (Exhibit No. 286 was marked for identification.)
- 6 MR. SILVERMAN: Not the current location.
- 7 MR. GROSSMAN: Okay. You get the credit for the
- 8 fattest documents admitted.
- 9 MR. SILVERMAN: Well, there you go. I've got to 10 succeed somewhere.
- 11 BY MR. SILVERMAN:
- 12 Q The, for that, do you recollect this document?
- 13 A I do.
- 14 Q And, in fact, the full document is much longer, is
- 15 it not?
- 16 A There's appendices, if I remember correctly, to
- 17 this that had some raw data in it and so forth.
- 18 Q Right. Close to a thousand pages all together, is
- 19 that, does that sound right?
- 20 A Well, if you included all of the wind data and all
- 21 of the --
- 22 Q Yes.
- 23 A -- output from the monitors, it could. I don't
- 24 remember it being that long, but it was long.
- 25 Q I just want to get some credit for not submitting

- 1 BY MR. SILVERMAN:
- 2 Q Did you make any assumptions about queuing?
- 3 A No, this was a monitoring study, if I may, if I
- 4 may recall. In the correct report we measured the carbon
- 5 monoxide and we took some, a few, some readings with, of
- 6 VOC's and, you know, we were reporting what we measured. It
- 7 wasn't, and dependent about their documenting queuing.
- 8 Q Didn't you do some modeling?
- 9 A We did some normalized modeling to get an idea of
- 10 dilution ratios we showed in here, but that's not based
- 11 upon, as I recall, and I could look at the report again.
- 12 This has been two years ago.
- Q Well, take your time. Take a look at page 34,
- 14 modeling and air quality assessment.
- 15 A Well, that's referring to Wheaton, the Sullivan
- 16 Environmental has conducted a detailed dispersion modeling
- 17 evaluation. That would be the 2011 report. What I recall
- 18 doing for this monitoring study was doing some normalized
- 19 modeling to show dilution ratios with respective, but this
- 20 is fundamentally a monitoring program, a short-term
- 21 monitoring program to collect some data.
- MR. GROSSMAN: Well, I think he's asking about the
- 23 second paragraph on the page that says, on page 34 of
- 24 Exhibit 286, it says worse case assumptions for the one hour
- and eight hour carbon monoxide scenarios were based on

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- 1 everything. Let's see. So did you have a traffic estimate
- 2 in that document?
- 3 A We had, we did not. We had sales records
- 4 available to us.
- 5 Q Did you have estimates of queuing?
- 6 A We did not. We relied upon sales data. We did
- 7 not have a queuing study done at the same time.
- 8 Q You didn't say anything about queuing in that
- 9 document?
- 10 A Our analysis was not a queuing, no.
- 11 Q And you didn't make --
- MR. GOECKE: Can I object to the relevance of
- 13 these questions, Mr. Grossman?
- MR. GROSSMAN: What is the relevance?
- MR. SILVERMAN: Well, my understanding is he had
- 16 queuing numbers which were different from the subsequent
- 17 one, which are different from his final queuing numbers. So
- 18 I just want to establish there are three sets of queuing
- 19 estimates.
- 20 THE WITNESS: So this report --
- MR. GROSSMAN: All right. Well, I'm -- hold on
- 22 one second now. I'm going to overrule the objection. It's
- 23 a legitimate cross-examination question, his present
- 24 testimony as compared to previous testimony to the extent
- 25 that they are comparable. So I'll overrule the objection.

- Lassuming 24 cars idling at the gas station, which is a,
- 2 which is reasonably conservative, especially for more
- 3 critical, eight hour scenario. So I think that's what he's
- 4 referring to.
- 5 THE WITNESS: Right. That's referring to the 2011
- 6 modeling report, that we didn't make any assumptions in
- 7 terms of collecting measured data regarding queues. This is
- 8 just reporting what we had from before.
- 9 BY MR. SILVERMAN:
- 10 Q Is it not correct that this report in its
- 11 entirety, part of it is a monitoring report from what you
- 12 found two days in Sterling and part of it is a modeling
- 13 report applying that information to the Wheaton situation?
- 14 A Well, really what it is, it collected a
- 15 snapshot -- I'm not trying to overstate this -- a snapshot
- 16 of measured data for CO and also for VOC's and some odor,
- 17 and we made some general comparisons of what we measured
- 18 then to what we modeled and made some general comparisons.
- 19 Q Well --
- 20 A But this does not involve any new modeling beyond
- 21 doing some normalized modeling for the odor analysis.
- 22 You've got to get dilution ratios. We're just trying to put
- 23 in context these results relative to the other earlier
- 24 report.
- 25 Q So the third paragraph of page 34 you say results

- 1 show that modeling the combined impacts from the gas station
- 2 operations of nearby roadways are well below the standards
- 3 as established by the U.S. EPA?
- 4 A Right.
- 5 Q So you, so you didn't, when you did those models,
- 6 you didn't take account of traffic?
- 7 A We certainly did.
- 8 Q And did you make some assumptions about queuing
- 9 and traffic?
- 10 A Well, certainly, they are documented in the 2011
- 11 modeling report.
- 12 Q And were those assumptions the same as the
- 13 assumptions you're making today?
- 14 A No, it is updated data collected in January of
- 15 2013 that refined them.
- Q And are those, are those -- but I take it your,
- 17 your traffic and queuing numbers of your August report are
- 18 different from your traffic and queuing numbers of reports
- 19 you did earlier in this case, is that correct?
- 20 A That's correct.
- 21 Q And those, too, are also different from your
- 22 original report that you did in 2011, is that correct?
- 23 A That's correct. I based the --
- 24 Q So we've got three, three sets of
- 25 assumptions?

- 1 Q So do you, so when you talk about a particular
- 2 concentration that one could expect, let's say an average
- 3 concentration, a 24-hour or an annual -- do you look at, is,
- 4 are the zeros counted in that calculation?
 - A Yes.

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- 6 Q Well, would you take a look at our, our earlier
- 7 exhibit list, 285.

8 MR. SILVERMAN: Mr. Grossman, I'm sorry, did we

9 get an exhibit number for the 2011 study?

MR. GROSSMAN: Yes, 286.

MR. SILVERMAN: Thank you. I'm sorry. Let's see.

MR. GROSSMAN: But while he's looking at that, I

13 take it the sense of his question is if you're averaging the

14 levels to include the times of non-operation, are there

15 times of actual Costco gas station projected operation that

16 would result in levels that exceed the air quality, the

17 National Ambient Air Quality Standards? Is that a sense of

18 where you're going with this, Mr. Silverman?

19 MR. SILVERMAN: Well, sort of.

THE WITNESS: I didn't fully grasp the question.

21 MR. GROSSMAN: Well, I guess he asked you a 22 question about whether or not your modeling averages

question about whether or not your modeling averagestogether the fact that there are times when the station is

24 not operational with times the station is operational. You

24 not operational with times the station is operational. Total

25 answered yes as far as things like spillage, no as far as

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- MR. GROSSMAN: Let him finish answering.
- 2 MR. SILVERMAN: I'm sorry.
- 3 THE WITNESS: I based the queuing information with
- 4 the best information available at the time of each report.
- 5 BY MR. SILVERMAN:
- 6 Q I'm not finding fault, I'm just saying there are 7 differences.
- 8 A That's correct.
- 9 Q Substantial. The, when you do your -- the Costco
- 10 gas station, am I correct, it's not open all the time?
- 11 A No.
- 12 Q So when you do your averages and calculate your
- 13 numbers, do you only look at the times that are open or do
- 14 you look at the 24-hour period?
- 15 A We approximate the time they're open, not the
- 16 24 -- where the vent, of course, can release it all the
- 17 time, but the gas filling, the spillage and so forth during
- 18 hours of operation.
- 19 Q So you don't average the non-operation hours?
- 20 A Well, we don't allocate emissions for the non-
- 21 operational hours. The actual model will, of course, put a
- 22 zero in there for those times and it will put the zero in at
- 23 3 o'clock in the morning for spills and for fueling. When
- 24 the station opens up again, it will be putting in numbers
- 25 once again.

- the underground tank emissions that might occur. But I
- 2 guess the sense of that that I, that, I guess, where that
- 3 question goes in my mind is, well, are there times when the
- 4 gas station is operational that would exceed the National
- 5 Air Quality Standards?
- 6 THE WITNESS: If it operated for 24 hours a day at
- 7 those levels would it exceed it?
- 8 MR. GROSSMAN: No, no. If it's, I guess the point
- 9 is since it's not operating 24 hours a day and you've
- 10 averaged the time it's not operating into the time it is,
- 11 are your levels that you predict lower than those which
- 12 might actually be experienced for the times when it is
- 13 operating?

THE WITNESS: I would say, no, I can't foresee

that happening. I'm still not sure I fully get it. The goal of the modeling is to, in this case, make sure that we

17 have emissions when the station is operating and we turn it

18 off when they should be turned off. The model keeps track

19 of the averages. I realizes that people aren't pumping gas

25 of the averages. Treatizes that people afort partipling ga

- at midnight and so forth. There will be no emissions then.When the station is open, there are emissions once again and
- 22 it keeps track of that and the wind data and so forth and it
- 23 comes up with the hourly calculations and the daily and the
- 24 annual calculations on that basis. So as long as, you know,
- that this process is done, I don't see a procedure where

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- 1 that would miscalculate or would understate any particular
- 2 concentration relative to the standards.
- 3 BY MR. SILVERMAN:
- 4 Q Could I -- could you turn to page 28 of the EPA
- 5 guidelines?
- 6 MR. GROSSMAN: Exhibit 285.
- 7 MR. SILVERMAN: Exhibit 285. Thank you.
- 8 BY MR. SILVERMAN:
- 9 Q And we're getting deep in the weeds here, Mr.
- 10 Grossman. In Footnote 2, if operation does not occur at all
- 11 hours of the time period of consideration, three or 24
- 12 hours, and the source, the sources of operation is
- 13 constrained by a federally enforceable permit condition, an
- 14 appropriate adjustment to the modeled emission rate may be
- made, i.e., if operations are only 8:00 a.m. to 4:00 p.m.
- 16 each day, only those hours would be modeled with emissions
- 17 from the source. Modeled emissions should not be averaged
- 18 across non-operating time periods. And my question is do
- 19 you, have you followed that instruction?
- 20 A Well, we have. We're -- in this example here,
- 21 this 8:00 a.m. to 4:00 p.m., we shouldn't be modeling
- 22 emissions beyond, you know, the time that it's operating.
- 23 So we have clearly, you know, we've clearly done what would
- 24 be done. We would match the modeling to the operational
- 25 scheduled. That's standard procedure.

- 1 Q And do you think as a matter of policy, do you
- 2 think that's a good and important step?
- 3 A I don't have an opinion. I don't have an opinion
- 4 on any policy for EPA.
- 5 Q Okay.
- 6 A In this context here we have reviewing authority
- 7 in this case instead of the Planning Board and they are
- 8 reviewing what we have done.
- 9 Q And did they review whether you should use the
- 10 urban or the rural dispersion coefficients?
- 11 A I don't know.
- 12 Q Let's talk about uncertainty if I can find the
- 13 chapter and verse. Give me a moment. It is Section 9.1,
- 14 page 34. Would you agree with the statement that the types
- 15 of models you're using are, work better over long terms and
- 16 larger areas than over short terms and smaller areas?
- 17 A Can you give me one question at a time please?
- 18 That was like three questions.
- 19 Q Were those three questions?
- 20 A It was more than one. I lost it.
- 21 Q All right. I'll try again. Would you agree that
- 22 the models you're using are most accurate over long periods
- 23 of time?
- 24 A Well, accuracy as travel distance exceeds is
- 25 generally considered to be more accurate. I would say

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- 1 Q And -- thank you. And with regard to urban and
- 2 rural, would you look at page 10 on the bottom of document
- 3 285, Exhibit 285, 4.2.1.1(b)?
- 4 A Okay.
- 5 Q All screening procedures should be adjustments to
- 6 the site and problem at hand. Close attention should be
- 7 paid to whether the area should be classified urban or rural8 in accordance with Section 7.2.3. The climatology of the
- 9 area should be studied to help define worse case
- 10 meteorological conditions. Agreement should be reached
- 11 between the model user and the appropriate reviewing
- 12 authority on the choice of the screened amount for each
- 13 analysis and on the input data, as well as the ultimate use
- 14 of the results. Do you agree with that?
- 15 A I don't disagree with that.
- 16 Q Okay. So in this case we have no appropriate
- 17 reviewing authority except for the Planning Commission and
- 18 the Hearing Examiner and the Board, is that correct?
- 19 A Well, they are the reviewing authority.
- 20 Q They are the reviewing authority? And why doesn't
- 21 EPA just accept, why don't they just accept your expertise,
- 22 the expertise of a good modeler like yourself and just
- 23 accept the decisions that you made? Why do they insist on
- 24 reviewing it?
- 25 A To verify.

- 1 that's true.
- 2 Q And would you say they're less accurate over
- 3 shorter periods of time?
- 4 A We were talking about distance before. I thought
- 5 that I answered your question correctly.
- 6 Q No, I'm talking about periods of time. We'll talk
- 7 about distance too.
- 8 A Well, models, I need to give you a full answer.
- 9 Models are generally considered to be more accurate in space
- 10 and time, at a particular location, a particular time on a
- 11 long-term basis. So if a seasonal --
- 12 Q Okay.
- 13 A -- annual average is, they're more accurate. In
- 14 terms of short-term, one hour, eight hour and so forth,
- 15 they're less accurate matched in space and time. The
- 16 distributions in that context are considered more accurate
- 17 than the -- in other words, if you say the second high eight
- 18 hour concentration is CO is 85, you may have hit the wrong
- 19 day. In other words, it may not be 85 on June 6th, but look
- 20 at all the days and do a percentage of distribution, that's
- 21 going to be much more accurate than looking at it day-by-day
- 22 and hour-by-hour. So it's a little bit of a complex answer,
- 23 but it depends upon what level of review you're talking
- 24 about
- 25 Q All right. Would you take a look at page 35

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- 1 please, the first paragraph? It's sort of towards the, a
- 2 little bit below the middle. Even with a perfect model
- 3 that --
- 4 MR. GROSSMAN: What --
- 5 MR. SILVERMAN: I'm sorry.
- 6 MR. GROSSMAN: -- section are you on?
- 7 MR. SILVERMAN: This is Section 9.1.1 entitled,
- Overview of Model Uncertainty. 8
- 9 MR. GROSSMAN: And --
- 10 MR. SILVERMAN: And it's A, paragraph A, which is
- the first paragraph on page 35. 11
- 12 MR. GROSSMAN: All right.
- 13 MR. SILVERMAN: Okay. And I'm looking at the last
- 14 three sentences starting with even with a perfect model. Do
- you see that, Mr. --15
- 16 MR. GROSSMAN: I haven't found the, oh, I see it.
- 17 Yes. Okav.
- BY MR. SILVERMAN: 18
- Q Do you have that, Mr. Sullivan? 19
- 20 A I see it.
- 21 Okay. Even with a perfect model that predicts the
- 22 correct ensemble average, there are likely to be deviations
- from the observed concentrations of individual repetitions
- of the event due to various variations of the unknown
- 25 conditions. The statistics of these concentration residuals

- plus or minus 50 percent curb error to those numbers.
- That's not how it's done.
- 3 Q Well, I think that what is suggested is that there
- 4 should be a lot of communication about uncertainty, you
- don't agree with that?

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- A Well, I don't disagree with that, but you've
- 7 already read out the portion that's plus or minus 50 percent
- is a typical variation. There is an expression of the
- uncertainty point-by-point. Again, some will be
- understated, some will be overstated.
- 11 Q And with regard to an earlier question as just to 12
- get, just to nail it down, look on page 35, 9.1.2, studies of model accuracy. And if we look at the, starting with the
- second sentence, the results of these studies are not
- surprising. Basically, they confirm what expert atmospheric
- scientists have said for some time. One, models are more 17 reliable for estimating longer time average concentrations
- 18 than for estimating short-term concentrations at specific
- 19 locations. And, two, models are reasonably reliable to
- 20 estimate the magnitude of highest concentrations occurring
- 21 sometime, somewhere within an area. So the fact that,
- 22 wouldn't that -- you, that's guidance you, you subscribe to
- 23 that guidance? You think that's a correct statement?
- 24 A I agree with that.
 - And doesn't that suggest that if you find a, in a

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- 1 are termed inherent uncertainty. Available evidence
- suggests that this source of uncertainty alone may be
- responsible for a typical range of variation of
- concentrations by as much as plus or minus 50 percent. 4
- 5 Would you agree with that?
- 6 A I do and I have seen that in testing I've done of
- 7 models, one site might be low, a site might be high. That's
- 8 certainly not out of the range of what's generally accepted.
- 9 Q All right. And take a look at 9.1.3, use of
- 10 uncertainty of decision-making. This is where we're about
- 11 here. I'm reading A. The accuracy of model estimates
- 12 varies with the model use, the type of applications, site-
- 13 specific characteristics, thus, is desirable to quantify the
- 14 accuracy or uncertainty associated with concentration
- estimates used in decision-making. Communications between
- 16 modelers and decision makers must be fostered and further
- 17 developed. Have you been, have you made an effort to
- communicate the uncertainties involved in the modeling 18
- 19 process in your reports?
- 20 A We have not done an uncertainty analysis, nor is
- 21 that standard procedure for permitting work.
- 22 So what I just read is not standard procedure?
- 23 No. I mean standard procedure is you run air mod,
- 24 for example, with proper inputs and you compare it to the
- 25 standards. I've never seen EPA say, well, no, let's apply a

- small area over a short time if you find a high
- concentration, it would be unwise to kind of, to tie that
- particular concentration to a particular spot, but just to
- see it as a problem in the general area, is that a correct
- 5 paraphrase?
- A Well, the way I'd word it is that you want to look
- at the overall receptors, the overall concentrations for
- that area and the model is going to do a better job of
- characterizing the highs and second highs in the eighth
- 10 percentile and so forth, the 90th percentiles, and they will
- point-by-point. So you're looking at, in a comprehensive
- fashion, you look at the results and look at the high if you
- want to do that, realizing that high you showed at the
- south, maybe it actually occurred to the south, southwest or
- south, southeast. It's more accurate in that context than
- 16 point-by-point, especially on a short-term basis. Q So if your isoplasts show a higher concentration
- at the loading docks or at the gas station, that's 18
- suggestive that -- that doesn't prove that that's where the
- high concentration is, it just suggests it's somewhere in
- 21 the vicinity there's that high concentration, is that
- 22 correct?
- 23 Well, first of all, I've already stated that the
- loading dock, once refined to math that will match how many
 - trucks can actually be there, there isn't a high at the

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- 1 loading dock. But if you go back to the original scenario,
- 2 what it's saying is if there's three or four or five
- 3 receptors there, the high may have occurred at a different
- 4 receptor than the model said. But generally the models in
- 5 my experience do a pretty good job of identifying the
- 6 distribution. You're going to find the high values, a much
- 7 better job with that than saying that they can model
- 8 accurately in space and time. You know, they hit the
- 9 receptor right there at that location at 2 o'clock in the
- 10 afternoon. They don't do well with that. But if you want
- 11 to get a distribution with high to low concentrations for
- 12 that area, for example, they'll do a pretty good job.
- 13 That's what EPA is basically saying in this document.
- 14 Q Let me go back to Exhibit 286, the December 2011,
- 15 your report. Did you measure at Sterling VOC's?
- A We measured a small subset of VOC's, benzene,
- 17 ethyl benzene, xylene and isomers of xylene.
- 18 Q And did you find spikes in your measurements at
- 19 times during the day when the numbers were much higher than
- 20 what you were measuring the rest of the day?
- 21 A We've, you know, we correctly described this study
- 22 as, you know, as a snapshot in time. The instrument being
- 23 used there, the, was not, you know, extremely sensitive and
- 24 so a number of, I mean most of the time it was below the
- 25 detection limit, below those three parts per billion.

- 1 MR. SILVERMAN: Yes?
- 2 MR. GROSSMAN: -- before we go on with this, since
- 3 we're using --

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- 4 MR. SILVERMAN: Well, I --
 - MR. GROSSMAN: -- a study of a different --
- 6 MR. SILVERMAN: Well, no, well, excuse me. I, the
- 7 statistics, the monitoring, not the modeling, the monitoring
- 8 information he got at Sterling was the basis for all further
- 9 models you've done, is that not true?
 - THE WITNESS: That's not true.
- 11 BY MR. SILVERMAN:
- 12 Q So did you take other measurements?
- 13 A We took other measurements.
- 14 Q At Wheaton?
- 15 A We took, we took measurements of Wheaton of noise
- 16 and odor. We took measurements at Sterling for CO and some
- 17 organic chemicals, some odor. We did -- and noise at
- 18 Sterling. That was just data to, you know, partially
- 19 confirm modeling. That didn't drive the modeling in any
- 20 way.
- 21 Q So you did not plug the measured quantities of
- 22 VOC's or carbon monoxide or other things you measured at
- 23 Sterling into your model?
- 24 A No.
- 25 Q So your model contains no measurements at all?

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- 1 Whatever the value was, it was lower than that. And
- 2 occasionally we'd get a value above that. For example, when
- 3 a truck, when a fill was going on from a truck, I would
- 4 occasionally get a hit, but most of the time it was lower
- 5 than the detectable level of that particular --
- 6 Q So you got hits, as you put it, when there was,
- 7 the fuel was being loaded from the truck to the underground
- 8 tanks?
- 9 A Well, if we go close to the truck, then we might
- 10 go 10 or 15 feet downwind of the truck, take a measurement,
- 11 we'd get a hit.
- 12 Q But you got hits in your measurements --
- 13 A Yes, we did.
- 14 Q -- that were, that were much higher than your non-
- 15 detect measurements the rest of the day, is that correct?
- A Well, we have a few values that are detectable,
- 17 you know, it's below three parts per billion as a detection.
- 18 Q And, right, and like so, for example, on page 45,
- 19 we have line, it's a, well, it's a table, Table 2-4, BTEX
- 20 VOC sample reading. The line 7, it says truck filling,
- 21 9:04. I guess that's the time of day. And you write n/a.
- 22 What does n/a mean?
- A No samples available.
- 24 Q Okay. Then on the next page, page 46 --
- 25 MR. GROSSMAN: Mr. Silverman --

- 1 A Our model is based upon EPA emission factors, not 2 anecdotal measurements from Sterling.
- 3 Q So in terms of VOC's, the number of actual
- 4 measurements you took to arrive at your conclusion is zero,
- 5 is that correct?
- 6 A No, I have measurements, we just went over them on
- 7 pages 45 and 46. These measurements were taken just as a
- 8 point of reference. This was not, had no effect in any way
- 9 on how we ran the model.
- 10 Q And you didn't use these measurements anywhere in 11 the models?
- 12 A No.
- 13 Q Well, just one other question I wanted to ask
- 14 because you caught me by surprise, Mr. Sullivan, on page 46,
- 15 lines 22 and 23 when there's loading going on, there seems
- 16 to be a spike in emissions and the question I had is whether
- 17 the trucks that seemed to have caused that spike, whether
- 18 they were clean diesel or not?
- 19 A Well, I'd have to ask -- I don't know the answer.
- 20 I assume they were based upon Costco's policy. I don't know
- 21 as I sit here if that's 100 percent true, that's correct.
- 22 Q So would you say that people could expect higher
- 23 levels of VOC's when the fuel tanks are being loaded by
- 24 trucks? Would you conclude that?
- 25 A The trucks are turned off, so whatever fuel

- 1 they're running, it doesn't affect these readings. They
- 2 arrive, they turn off their motor and then they pump the
- 3 gasoline. We were standing 10 feet downwind of where the
- 4 opening was for the gasoline to get these readings.
- Q So the, just answer the question, though, did the,
- 6 did you expect higher levels of VOC's during refueling
- 7 operations than not?
- 8 A Higher during fueling than when they're not
- 9 fueling?
- 10 Q Yes.
- 11 A Yes.
- MR. SILVERMAN: If I can have just a moment?
- 13 MR. GROSSMAN: Sure.
- 14 BY MR. SILVERMAN:
- 15 Q Let me go back to a section that Mr. Goecke
- 16 referenced, I think. On looking at the EPA guideline on air
- 17 quality models, Exhibit 285, if we look at Section 2.2,
- 18 levels of sophistication in models, this is on page 6 on the
- 19 bottom, and looking at Sections A and B, is it, am I giving
- 20 a -- and read them aloud -- am I giving a correct loss if I
- 20 a -- and read them aloud -- and giving a correct loss in
- 21 say that Section A is talking about your initial screening
- 22 model that you used very conservative assumptions in the
- 23 initial screening model?
- 24 A Well, terminology, we're not using a screening
- 25 dispersion model. Air model is not an extreme model.

- 1 A They use that term, as you see the last
- 2 sentence --
- 3 Q Okay.
- 4 A -- all these things collectively are referred to
- 5 as refined models, not just talking about change in a
- 6 dispersion model, from a simple model to air model, it's
- 7 talking about the modeling in general, including inputs, and
- 8 including potentially opposed processing if we chose to
- 9 refine further background treatment, for example.
- 10 Q On the urban and rural distinction, why does the
- 11 EPA tell you to do your calculations on the basis of a
- 12 radius of three kilometers?
- A In most facilities that are getting a permit have,
- L4 a lot of them have elevated stacks and you get a stack, for
- 15 example, the maximum can occur well out to one, two, three
- 16 or four or more kilometers. And so in that context if
- 17 you're modeling a broad area, they want you to use whatever
- 18 area predominates, whether it be urban or rural, and they
- 19 have a procedure they've identified for that purpose.
- 20 Q Don't the EPA guidelines, requirements deal also
- 21 with sources where the receptors are at the same height as
- 22 the source, as well as ones with smokestacks?
- 23 A Well, they certainly have a general, that general
- 24 procedure because when you do a modeling analysis, you
- 25 typically will go out, quite a ways out. If it's an

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1 Q Okay.

- A What we're referring to in refining the modeling
- 3 is that the inputs to the model are refined as necessary and
- 4 it's a scale of review changes more than those inputs have
- 5 been changed, but it's the same model. There's no -- it's
- 6 always an air model.
 - Q And look at Section B. It's, which I think
- 8 suggests if there is a violation you can, a second level
- 9 consists of those analytical techniques that provide more
- 10 detailed treatment of physical and chemical atmospheric
- 11 processes require more detail than precise input data and
- 12 provide more specialized concentration estimates. Did you
- a de any mana anacializad acceptuation actimates?
- 13 do any more specialized concentration estimates?
- A We did the -- we did the more detailed and precise
- 15 input data for the portion of modeling we did on April 6th,
- August 16th, refining the modeling for the queue and theloading dock area based upon, you know, that particular
- 27 loading dook area based apon, you know, that part
- 18 higher level tiering procedure.
- 19 Q And did you do more specialized concentration
- 20 estimates?
- 21 A Well, in the context that we, it's identified more
- 22 precise emission estimates for the loading dock, more, more
- refined temporal scalers for the queue. We did refine the
- 24 estimate of concentrations on that basis.
- 25 Q Okay.

- industrial facility, your fence line may not be the
- 2 controlling issue. My point is why is it three kilometers.
- 3 That's really because of the fact that the tallest stacks
- 4 push that level out.
- 5 Q Yes, but it's three kilometers even when you don't
- 6 have tall stacks, isn't it?
- 7 A No, because you would have to meet -- if it's an
- 8 area source, ground level source, you'd have to meet the
- 9 requirements of the fence line. The max would occur at the
- 10 fence line approximately and you would not need to go out
- 11 three kilometers to keep the maximum value.
- 12 Q Does EPA have a guideline that reflects your last
- .3 statement about, which you're talking about a small source,
- .4 you do it at the fence line?
- 15 A They don't, they do not have guideline that will
- say that this should be one kilometer if it's a small stack
- 17 or a three. They use three to encompass all of that. But
- 18 the real controlling issue in this whole discussion goes
- back to page 5 that we recorded earlier, is it 5(d)? The
- 20 most accurate estimate concentrations in the area of
- interest are always sought. So if in this context if youknow that we're not going to focus on the gas queue, for
- 23 example, or the loading dock, those are on urban ground and
- 24 their receptors are inside of them. So your whole domain is
- classified urban. It would be -- it would not make sense to

- 1 say, well, I'll go three kilometers and see if there's grass
- 2 out there and I'll use that analysis for this. The idea is
- 3 if you're following the guidance, you want to get the most
- 4 accurate answer and it's all urban, you don't have to do the
- 5 analysis because you already know the answer.
- 6 Q Why do they talk about radius? A radius suggests
- 7 a circle. Do they want you to draw circles around areas?
- 8 Isn't that the sense of it?
- 9 Q Well, and we did that. I mean the standard
- 10 procedure that we followed in our protocol is we put our, or
- 11 we put our point in the middle of the facility and we do a
- 12 three kilometer radius circle and we showed the land use
- 13 analysis for that circle in our report. And for the general
- 13 analysis for that offsic in our report. And for the general
- 14 modeling, not talking about just in the mall or right next
- 15 to the mall, the general modeling, we followed that guidance
- 16 to the letter.
- But now we're talking about, well, what are the
- 18 impacts like in gas queue, 40 cars generating heat on a hot
- 19 asphalt surface, why would we consider that a rural
- 20 application? Well, we wouldn't. There's no way that can
- 21 happen. So in using your judgment and following the
- 22 guidance and getting the most accurate answer, you'd have to
 - 3 use urban for that specialized modeling and we did.
- Q Well, the area that where the gas station was
- 25 originally intended, have you visited it recently?

- 1 definition, that's C-1 category, that's urban. I would not
- 2 need -- it would not make sense for me to go out three
- 3 kilometers and say, well, I'm going to blindly follow this
- 4 guidance up to three kilometers when I know that the entire
- 5 transport is all on urban ground.
- 6 Q Does it make sense for you to draw, to draw a
- 7 circle around anything of any length to look at whether it's
- 8 urban or rural?
- 9 A Well, we have done that. It's on a certain page
- 10 in my November 2012 report. We did the three kilometer
- radius. We showed the mall area in yellow right in the
- 12 center. And if you look at it, you will see what's
- 13 delineated as urban. It totally encompasses the gueue and
- 14 the loading dock and beyond.
- 15 Q Well, yes, but for your August report, your most
- 16 recent iteration, did you draw a circle to determine whether
- 17 the area was urban or rural or you just picked an area? You
 - 3 just picked a point or you drew a circle?
- 19 A I can refer back to my November 2012 report that
- 20 that analysis has been done. These sources and receptors
- 21 are all inside the urban source area of the mall and so I
- 22 could draw that conclusion from my earlier report. It's
- 23 urban.
- 24 Q So, but just answer the question. When you say it
- 25 is urban or it is rural, you're talking about an area, is

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- 1 A Well, I was there in July.
- 2 Q Did you notice that it's grassed over?
- 3 A It is at the moment, yes.
- 4 Q And have you noticed, have you looked at any of
- 5 the new landscaping plans for this project?
- 6 A I have not.
- 7 Q So you don't know that there's quite a lot of
- 8 greenery and landscaping right really in the station itself?
- 9 A I say I have not seen the plan you're referring
- 10 to, so I don't want to speculate.
- 11 Q So the -- your decision as to whether the area was
- 12 urban or rural was based on a, circles that you drew from
- 13 some point, is that right?
- 14 A Well, I'll clarify that I have made two judgments.
- 15 One is I followed EPA's guidance in terms of a broader
- 16 modeling. I did the three kilometer radius circle. We
- 17 discussed it with Dr. Cole. We did our thing. We showed
- 18 urban and rural and it was mostly rural and we did that.
- 19 But then it also stated that for the specialized modeling we
- ${f 20}$ showed August 16th of the queue and the loading dock, these
- 21 are asphalt surfaces in a mall.
- 22 Q Well, where --
- 23 A Let me finish.
- 24 Q Yes, sir.
- 25 A That you know by definition, the EPA's land use

- 1 that right?
- 2 A I'm talking about the area within the mall and
- 3 near the mall.
- 4 Q Yes, but the -- in general, in looking at the area
- 5 that you're going to designate urban or rural, EPA says draw
- 6 a circle, is that not right?
- 7 A Well, I think I've answered that question. The
- 8 standard procedure is a three kilometer radius circle.
- 9 Q Well, even if it's not three kilometers, even if
- 10 we more refined the use to one kilometer, or even a lesser
- 11 area, the area is always a circle, is that not right?
- 12 A Well, if I'm going to apply judgment and use a
- 13 smaller area than what they say, I can say if it's all urban
- 14 I'm not going to draw a circle. I mean the guidance is a
- 15 three kilometer radius circle. That's the generic guidance.
- 16 We've done that. This is talking about specialized modeling
- 17 on August 6th for specialized sources where the source and
- 18 the receptors are inside the, the sources in the receptors
- 19 coincide.
- 20 Q Sol--
- 21 A So --
- MR. GROSSMAN: August 6th, I think he meant August
- 23 16th.
- 24 THE WITNESS: August 16th, right.
- 25 MR. GROSSMAN: I think we've --

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- 1 MR. SILVERMAN: Yes, okay.
- 2 MR. GROSSMAN: -- we've covered --
- 3 MR. SILVERMAN: We've got it.
- 4 MR. GROSSMAN: -- this point to a fair thee well.
- 5 MR. SILVERMAN: Right. Okay.
- 6 BY MR. SILVERMAN:
- 7 Q To get your background levels, which EPA monitor
- 8 did you use?
- 9 A For which -- for the, referring to the most recent
- 10 report?
- 11 Q Yes.
- 12 A I --
- 13 Q Yes.
- 14 Arlington.
- 15 Q And is that monitor in an urban or a rural
- 16 setting?
- 17 Or Arlington is a fairly urbanized area. In terms
- of EPA's exact criteria, I'd have to look it up in my
- 19 records.
- 20 Q Yes. So if it were, if the background levels were
- 21 in an urban area, you would expect it to be lower than if
- 22 they were in a rural area, is that, is that right?
- 23 A Expect what to be more?
- 24 Q The, I'm sorry. Let me leave it. Not that it's
- 25 not a good question, I just don't understand it. Well, this

- 1 Well, I, unless the witness has a reason why he does not
- want to break now, do you -- I don't know what your schedule
- is today. How much longer do you think your cross-
- examination is going to go, Ms. Rosenfeld?
- MS. ROSENFELD: I, at least several hours. 5
- 6 MR. GROSSMAN: Okay. All right.
- 7 THE WITNESS: I'm fine with breaking now.
- MR. GROSSMAN: All right. So we'll break now and 8
- it's 12:19. Come back at 1 o'clock? Sound good? All
- 10 right. Thank you.
- 11 (Whereupon, at 12:19 p.m., a luncheon recess was
- 12 taken.)
- 13 MR. GROSSMAN: Back on the record. Ms. Rosenfeld.
- MS. ROSENFELD: Yes. Thank you. 14
- 15 BY MS. ROSENFELD:
- Q Mr. Sullivan, you have put in the record two new 16
- 17 reports. One is dated August 16, 2013, and one is dated
- August 9, 2013. How much will you be compensated for each
- 19 of those reports respectively?
- 20 A I don't know. I haven't calculated it yet.
- 21 Ω Do you have any estimate?
- 22 A I, definitely how many hours were billed. I
- 23 don't, I really, I don't, I really don't know.
- 24 Q Okay. And how much do you charge per hour?
- 25 Me personally or my staff?

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- Q You personally. 1
- I charge approximately \$195 an hour.
- 3 Q And your staff?
- It varies. 4 Α
- 5 And you have no sense at all for how many hours
- you spent preparing these two reports?
- 7 A I could make, I could make a general guess if
- 8 that's what you're asking me to do.
- 9 Yes, would you please make a general guess.
- 10 If you're asking me to estimate cost for the
- preparation of the conduct of the work in the preparation of
- 12 the reports, August 9th and August 16th?
- 13 Q That's correct.
- 14 Α I'll estimate \$15,000.
- 15 Q Combined?
- Α 16 Yes.
- 17 Okay. The report that is dated August 16, 2013,
- which I believe is -- is that Exhibit No. 253? 18
- 19 MR. GROSSMAN: 255(a).
 - MS. ROSENFELD: 255(a). Thank you.
- BY MS. ROSENFELD: 21
- Q In that report, you have an Appendix B and it says 22
- 23 there's an Excel spreadsheet, calculations of hourly
- emissions. Would that be the one page following the
- Appendix B cover page or is there more data contained in

- 1 mistake, mathematical calculation that was mistaken, has
- this happened to you before?
- 3 A I've had, I've been a meteorologist for 38 years
- 4 and twice before in my career I've had embarrassments like
- this. As I said, I apologize for the inconvenience to you
- 6 folks, as well as Mr. Grossman, but it definitely is not my 7 norm.
- 8 MR. SILVERMAN: Okay. I think I will resist the
- 9 temptation to go further. Thank you, sir. Thank you.
- 10 MR. GROSSMAN: All right. Ms. Rosenfeld.
- 11 MS. CORDRY: Does it make sense for the lunch 12 break?
- MR. GROSSMAN: Well, I was going to go a little 13
- 14 bit further. I was going to go until 1 o'clock before we go
- to lunch. Is there a particular reason? 15
- 16 MS. CORDRY: I might organize -- well, I might 17 organize the questions better.
- MR. GROSSMAN: Are you hungry? 18
- MS. CORDRY: Well, that too, yes. I might 19
- organize the questions better I think.
- MR. GROSSMAN: All the good food is going to be 21 22 gone at the cafeteria.
- 23 MR. SILVERMAN: Well, I'll get your fish, sir.
- 24 We'll tell your wife.
- 25 MR. GROSSMAN: A viable threat there. All right.

20

- 1 that Appendix B? I have a page 38, hourly emissions scalers
- 2 for total gasoline queue sources. Is that the only page in
- 3 that exhibit?
- 4 A The, that is the only hard copy page for Appendix
- 5 B. The Excel file you're referring to is available in
- 6 electronic format that simply mirrors the values shown for
- 7 each hour on page 38.
- 8 Q And how -- is that a one-page document as well or
- 9 is that --
- 10 A It's an Excel file.
- 11 Q How many pages?
- 12 A I believe it's one worksheet, but I'm not sure
- 13 without having it in front of me. I believe it's one
- 14 worksheet.
- 15 Q Do you have a copy of that with you today?
- 16 A I do electronically.
- 17 Q Would you --
- MS. ROSENFELD: Mr. Grossman, I haven't seen that
- 19 Excel spreadsheet. Would it be possible to get a copy?
- 20 Okay. I'd just like to reserve the right to cross-examine
- 21 Mr. Sullivan on that once I get --
- MR. GROSSMAN: Well, they don't, I mean --
- MS. ROSENFELD: -- them.
- MR. GROSSMAN: -- spreadsheets don't always fit on
- 25 a page, so I'm not sure exactly what -- he's testified it's

- 1 exception application as well, is that correct?
- 2 A That's correct.
- 3 Q One of the elements that the applicant needs to
- 4 prove is that there will be no adverse effects on workers,
- 5 residents and visitors to the subject area. What do you
- 6 understand the subject area to be in this case?
 - A The, if I understand you correctly, are you
- 8 referring to the boundary of the special exception?
- 9 Q I'm not referring to anything. I'm asking you
- 10 what is your understanding of the subject area in the code
- 11 as it relates to adverse effects on residents, neighbors and
- 12 workers?

7

- MR. GROSSMAN: I don't know that you're not askinghim for a legal --
- 15 MR. GOECKE: Yes.
- MR. GROSSMAN: -- conclusion there as opposed to
- 17 what is studied. I mean I think it's fair to ask him in
- 18 what geographical area he studied effects or studied the
- 19 level of pollutants more than effects. I don't think it's
- 20 fair to ask him the legal question you asked him.
- 21 BY MS. ROSENFELD:
- 22 Q What did you understand to be the boundaries of
 - your study area?
- A Well, I think the best way to answer your question
- 25 is I evaluated the ambient air quality impacts associated

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- 1 reflected here.
- MS. ROSENFELD: I understand.
- 3 MR. GROSSMAN: I'm not sure, because this is the
- 4 day he's going to appear and I don't want to have him back
- 5 repeatedly.
- 6 MS. ROSENFELD: Well, perhaps if it's possible to
- 7 email it to Ms. Cordry, we can, I can look at it
- 8 electronically during the course of the examination.
- 9 MR. GROSSMAN: Can you do that now? Can you --
- 10 MS. HARRIS: And, in fact, it was emailed to you 11 this morning.
- MS. ROSENFELD: This morning? Well, I didn't see it before I left.
- 14 MS. HARRIS: I can --
- MR. GROSSMAN: Do you want to move on to something
- 16 else while it's checked out?
- 17 MS. ROSENFELD: I will. Yes, I will.
- MR. GROSSMAN: Okay. You can come back to it.
- 19 BY MS. ROSENFELD:
- 20 Q Mr. Sullivan, you prepared a, you've been involved
- 21 in this case for a long time, in fact, since the first
- 22 application was filed at the previous location, is that
- 23 correct?
- 24 A Yes
- 25 Q And you prepared a report for that special

- 1 with gas stations and contributing sources in the general
- 2 area. I, my domain covers much of this map that's on the
- 3 easel.

10

- 4 Q And that's exhibit --
- 5 MS. HARRIS: 159.
- 6 MR. GOECKE: 159.
- 7 MR. GROSSMAN: 159?
- 8 THE WITNESS: Exhibit 159. So that's the domain
- 9 that I evaluated for ambient exposure.
 - BY MS. ROSENFELD:
- 11 Q And do you understand the visitors to include
- 12 visitors on the entire mall parcel?
- MR. GOECKE: Objection.
- MR. GROSSMAN: And your objection is?
- MR. GOECKE: Again, it's calling for a legal
- 16 conclusion.
- MR. GROSSMAN: I would agree. I don't think that
- .8 he is, his testimony I don't think goes to visitors or
- 19 residents per se, it goes to the level of air pollutants.
 - MS. ROSENFELD: Okay.
- MR. GROSSMAN: That's my understanding of it, is that fair to say?
- 23 THE WITNESS: That's fair.
- MR. GROSSMAN: I mean he does, I mean I guess I'd
 - 5 have to modify that and say that he does have testimony that

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- 1 goes to, that talks about health risks in the community. So
- 2 it does go somewhat beyond that. So I guess I'd have to
- 3 modify that and give you some flexibility in that area.
- 4 MS. CORDRY: And, Your Honor, I would note one
- 5 other point which is this most recent report. He's gone
- 6 from determining simple standards for these air quality
- pollutants, what the levels are to now he wants to say,
- 8 well, I'm going to have 20 minutes at this level and 40
- 9 minutes at this level and maybe they're going to walk
- 10 through here. So he's very much trying to turn a standard
- 11 determination into this kind of --
- MS. ROSENFELD: He's specific --
- MS. CORDRY: -- health assessment. So I think
- 14 he's --
- MR. GROSSMAN: Well, he told us focuses.
- MS. CORDRY: Well, I think that's something that,
- 17 there --
- 18 MR. GROSSMAN: That's the focus.
- MS. CORDRY: -- are health assessments that are
- 20 done for certain pollutants and then there were standards
- 21 and emission levels that are done for others and I think he
- 22 is --
- MS. ROSENFELD: He specifically --
- MS. CORDRY: -- whether properly or not, I think
- 25 he's mixing those up because --

- 1 Q Excuse me?
- 2 A They're all ambient exposures that we model.
- 3 Q And when you say ambient model exposures, what do
- 4 you mean by that?
- 5 A It means exposures to receptors in ambient air and
- 6 in the context of your question, not inside a building or
- 7 structure.
- 8 MR. GROSSMAN: Does ambient in your mind mean
- 9 outside?

13

- 10 THE WITNESS: By EPA, by the Code of Federal
- 11 Regulations it defines it as being not inside a structure.
- 12 MR. GROSSMAN: Okay.
 - BY MS. ROSENFELD:
- 14 Q Did you do any air quality modeling analysis at
- 15 all to determine what levels of exposure visitors inside the
- 16 warehouse might be exposed to?
- 17 A No. Again, that's not the ambient air. We did
- 18 not evaluate that.
- 19 Q So you have no basis in your report to make a
- 20 determination as to whether there will or will not be
- 21 potential adverse health effects on visitors to the
- 22 warehouse based on air quality?
- MR. GOECKE: Objection.
- MR. GROSSMAN: By visitors, you mean visitors
- 25 inside the warehouse?

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2

12

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- MS. ROSENFELD: He's specifically modeling forexposures and not ambient air limit.
- 3 MR. GOECKE: But she's still calling for a legal
- 4 conclusion in terms of what do these terms mean. In his
- 5 report he talks about who, who may be exposed to things and
- 6 when and what duration, but he's not interpreting the code.
 - MR. GROSSMAN: All right. I can't recall the
- 8 exact way you phrased the question, but let's, but I'm going
- 9 to give you some leeway to go into that area. Why don't you
- 10 try another question and see, because of the fact that he
- 11 has gone a little bit beyond just the pure ambient air
- 12 quality.

- 13 MS. ROSENFELD: Okay.
- 14 BY MS. ROSENFELD:
- 15 Q When you modeled for ambient air quality, did you
- 16 model the entirety of the mall parcel?
- 17 A I had receptors throughout the mall parcel. I
- 18 mean I had 25 meter spacing through the entire domain. So,
- 19 yes, we had receptors in the mall parcel. Well, about 400
- 20 receptors in fact.
- 21 Q And when you modeled for air quality, did you
- 22 model within the warehouse itself?
- 23 A Inside?
- 24 Q Yes.
- 25 A No. They're all ambient model values.

- 1 MS. ROSENFELD: Inside the warehouse.
 - MR. GROSSMAN: Inside.
- 3 THE WITNESS: Well, I think that mis-characterizes
- 4 what I said. I said that I modeled ambient exposures and
- 5 does that mean I have no information? I'll say I disagree
- 6 with that. I certainly know what the ambient air is around
- 7 the warehouse. And knowing that air exchanges between the
- 8 outside and inside air, I certainly could make some
- 9 judgments regarding what the likely air quality is inside
- 10 the warehouse, but I certainly have not attempted to make
- 11 indoor air quality estimates as part of this analysis.
 - BY MS. ROSENFELD:
- Q Are you aware of the fact that on the mall parcel
- 14 there is an asthma and allergy center?
 - A I was aware of that.
- 16 Q And if you look at your receptors, would you be
- 17 able to tell me what the ambient air quality levels for NO2
- 18 at the entrance to that center?
- 19 A I don't remember exactly where it is on this map.
- 20 MS. CORDRY: A little further.
- MS. ROSENFELD: So --
- MS. CORDRY: Yes.
- 23 MR. GROSSMAN: So --
- MS. ROSENFELD: In this area. This would be a
- 25 long, rectangular building on the south, the eastern side of

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- the mall parcel.
- 2 MR. GROSSMAN: Okay.
- 3 THE WITNESS: Is there a question pending?
- 4 BY MS. ROSENFELD:
- Q Yes. Can you tell me the NO2 levels in the area 5
- surrounding the south office building on the mall parcel?
- 7 We're referring to the ambient air --
- 8 Q That's correct.
- 9 -- at that location. Well, in our most recent
- modeling, the plot they have in front of you right here with
- the refined analysis and looking at a figure on page 5 which 11
- 12 includes refinements in this case other than the timing
- queue, I can see the values that are on that plot that are, 13
- 14 would be somewhat less than 110 micrograms per cubic meter
- per one hour average. But I do not, I didn't extend the 15
- lines that far down. But I would say in my judgment it
- 17 would be less than 110 micrograms and more likely lower than
- 18 that
- 19 Q And what would they be --
- 20 MR. GROSSMAN: That's the one hour measurement?
- 21 THE WITNESS: The one hour and 98th percentile
- 22 defining value.
- 23 BY MS. ROSENFELD:
- 24 Q And what would they be under your original
- 25 measurements?

- that's, I'm pointing at an Exhibit 159. That's the building
- right here please, is this the correct --
- 3 MS. ROSENFELD: That's correct.
- 4 MR. GROSSMAN: Well, my page 11 is blank. I don't
- 5

13

18

- 6 THE WITNESS: It's Figure 1. Well, it looks like
- 7 the 175 and the 160 isoline across this building in here.
- 8 175 comes to this end and the use of their, the impacts of
- coming from Georgia Avenue. It's going, reducing as you go
- away from Georgia Avenue, but at the building you pointed
- out, it looks like 175 to 160 approximately a bracket, the
- 12 outdoor air quality at that structure.
 - MS. ROSENFELD: Thank you.
- 14 MR. GROSSMAN: We'll note that on my copy, your
- Figure 1 is on page 12. I'm not sure why this is, but on 15
- the copy that I was just handed, on page 12 you have Figure
- 17 2. So I'm not sure --
 - THE WITNESS: Mr. Grossman, page --
- 19 MS. CORDRY: It looks like a blank page, yes.
- 20 THE WITNESS: -- 10 only has two sentences and
- 21 maybe that was merged in your copy. But that's somehow
- 22 fitting on the page maybe.
- 23 MR. GROSSMAN: No, I have two sentences on page 10
- 24 and page 11 is blank and then --
- 25 THE WITNESS: Do you have Figure 1?

MR. GROSSMAN: I do have Figure 1, but it's on

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- page 12 of mine, whereas what Mr. Brann had was on page 11.
- Let me see what the last page is on his. He's got 37 for
- Appendix B. The page numbering is very different. I seem
- to have the same things at different page numbers. So that
- may create some reference issues, at least on the copy that
- I've been using for myself. I'd have to look back in the
- record itself to see, but to the extent we have page
- 9 reference issues, let's make sure we refer to things by the
- figures, et cetera, so that we at least have clarity in the 10
- 11 record.

12

- THE WITNESS: I was referring to Figure 1.
- MR. GROSSMAN: I understand. So now I've lost 13
- your testimony in my mind based on this, so what was your
- testimony about that projection? 15
- 16 THE WITNESS: My testimony was that we're 17 referring to this building located on Exhibit 159.
- 18 MR. GROSSMAN: That southeast corner, right.
- 19 THE WITNESS: Correct. And I testified that the
- 20 isolines where 175 crosses at the eastern boundary at that
- 21 building --
- 22 MR. GROSSMAN: Okay.
- 23 THE WITNESS: -- and 160 pretty much goes through 24 the building right here.
- 25 MR. GROSSMAN: That's kind of, is that --

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- MR. GROSSMAN: Original assumptions you mean? 1
- MS. ROSENFELD: The original assumptions, the 2
- 3 November 2012 assumptions.
- THE WITNESS: You're referring to the November 4
- 5 report?
- 6 MS. ROSENFELD: Yes.
- 7 MR. GROSSMAN: Corrected, for the corrected map?
- MS. ROSENFELD: The corrected. The corrected. 8
- 9 MR. GROSSMAN: Corrected for the map.
- 10 MS. ROSENFELD: Corrected.
- 11 THE WITNESS: So you're still referring to
- 12 Appendix, I mean to the report on August 16th, correct?
- 13 MR. GROSSMAN: Well, the report on August 16, to
- 14 the extent you can tell from that, using the assumptions
- that were based in the November 2012 report, but corrected 16 for the math error.
- 17 THE WITNESS: Correct. I'm looking at the values.
- Here, again, Ms. Rosenfeld, are we talking about the 18
- 19 building right here?

Exhibit 255(a).

- 20 MR. GROSSMAN: What page are you on?
- THE WITNESS: On page 11, Figure 1, 98th 21
- 22 percentile, one hour NO2 concentrations.
- 23 MR. GROSSMAN: All right. And that's page 11 of
- 25 THE WITNESS: And we're referring to the building

- THE WITNESS: And they go toward to the center
- more to the western portion of that building. 2
- 3 MR. GROSSMAN: All right.
- 4 THE WITNESS: And I do note that this figure is
- based upon a 98 microgram background, which is the older 5
- 6 background. We have updated that to 90.
- 7 MR. GROSSMAN: All right.
- 8 THE WITNESS: So with that, with that, we made
- 9 that adjustment, it would be approximately eight micrograms
- less than what I just stated. 10
- 11 MR. GROSSMAN: Okay.
- 12 MS. ROSENFELD: Mr. Grossman, I have a handout.
- 13 This actually is excerpted from the August 16th report.
- MR. GROSSMAN: Okay. 14
- 15 MS. ROSENFELD: And I'm simply handing these out
- 16 for convenience.
- 17 MR. GROSSMAN: Okay. Thank you.
- 18 MS. ROSENFELD: Actually let me be more precise.
- 19 They're not printed from that report, they are the same EPA
- 20 charts that are contained in the report.
- 21 MR. GROSSMAN: Okay.
- BY MS. ROSENFELD: 22
- 23 Mr. Sullivan, in December of 2011, you prepared a
- 24 report for the prior special exception. I'm handing out an
- excerpt.

1

- really know. I can say that could have contained the same,
- you know, error that I mentioned before. The background
- conversion certainly could have, appears to have been in
- that value. I would just say that that's, we have refined
- that since we've put out another report that clarifies the
- background for 2009 through 2011 and updated 2010 to 2012.
- 7 So I would say that would supersede this earlier analysis.
 - Q And I appreciate that clarification. I actually
- have a different question, though, related to this. When I
- look at this 2010 chart, I see 66 at only one location and
- 11 that is associated with the Takoma SC 7010 Piney Branch
- Road, N.W., Washington, D.C. monitoring site. Do you recall 12
- if that's the monitoring site that you used? 13
- 14 My recollection was that we used Arlington South,
- 18th and Hayes Street. That's my recollection. 15
- 16 MR. GROSSMAN: Ms. Rosenfeld, do we know if these
- 17 are in parts per billion or micrograms per --
- MS. ROSENFELD: They are in parts per billion. 18
- 19 MR. GROSSMAN: Okay.
- 20 BY MS. ROSENFELD:
- 21 Q Do you have a copy of your November 2010 report
- with you? 22

8

- 23 A I do.
- 24 Q If you look at that, could it refresh your memory
- 25 perhaps as to which of these monitoring sites you had

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MS. ROSENFELD: Mr. Grossman, actually I think Mr.

- 2 Sullivan introduced this earlier today in its entirety.
- 3 MS. CORDRY: Mr. Silverman. Mr. Silverman
- introduced it. 4
- 5 MS. ROSENFELD: Mr. Silverman introduced this.
- 6 MR. GROSSMAN: Thank you.
- 7 BY MS. ROSENFELD:
- 8 Q Mr. Sullivan, on the second page of this handout
- 9 is page 30 from your December 20, 2011 analysis. And if I
- 10 can draw your attention to the NO2 one hour maximum --
- 11
- 12 -- average background, you have a number of 66.
- 13 Can you please identify where you got that number 66?
- 14 A Well, you know, the Footnote 4 says the average
- background concentrations are calculated in the raw measure
- concentration data with the U.S. EPA, their data website for 16
- 17 2010, Washington, D.C. monitoring stations.
- The blue sheet that I just handed out has, I 18
- believe, the reports that you reference, the EPA air data 19
- 20 website information and the third page of that is near 2010.
- 21 Would you please take a look at the third page and tell me
- 22 if that refreshes your memory on where you might have drawn
- 23 that number from?
- 24 A I really don't recall the basis for that number as
- 25 I sit here right now. I mean off the top of my head I don't

- 1 chosen?
- I'm sorry, you're referring to November 2010 or
- 3 December 20, 2011?
- December 20, 2011 report, page 30 references an
- average background of NO2, one hour per 60, of 66 parts per
- 6 billion and I'm trying to understand where that number came
- 7 from.
- 8 A Well, I know from my recollection that we used
- 9 three stations, Arlington was one of them, which would have
- been 18th and Hayes. We used Beltsville as a second and
- then Rockville. So I do not recall ever using other
- 12 stations for this particular project.
- 13 And do you have in that December 20, 2011 report
- 14 how you divided that number 66?
- A I don't recall how I derived that number, Ms. 15
- Rosenfeld. I've updated it since then. I'll stand by the
- 17 most recent data, 2010 to 2012, for Arlington as being the
- most representative document and data available at this 18
- 19 time.

20

- (Discussion off the record.)
- BY MS. ROSENFELD: 21
- Q And is Arlington the highest background value of 22
- 23 the monitoring sites in the D.C. area?
- 24 A Well, our objection is not identify the highest,
- but the most representative.

- MR. GOECKE: Mr. Grossman, I'd just like to note
- 2 that the EPA except that has been printed is for the year
- 2012 and she's asking him to compare them to data that was
- produced at some point in 2011.
 - MR. GROSSMAN: Well, actually three of them.
- 6 There are three of them.
- 7 MS. CORDRY: There's three pages.
- 8 MS. ROSENFELD: There's three pages.
- 9 MR. GROSSMAN: There's a 2012, there's a 2010 as
- 10 well, so I think she's referring to at this point the 2010 11 one.
- MR. GOECKE: My mistake. Thank you. 12
- 13 BY MS. ROSENFELD:
- 14 Q And you indicated that you had used Arlington. Is
- 15 Arlington considered an urban or a rural monitoring site?
- A It's considered a neighborhood scale site, my 16 17 definition.
- If you were to use the EPA three kilometer rule 18
- and determine whether that area is urban or rural, what 19
- 20 would the result be?
- 21 A I haven't done it. I'm not going to speculate.
- In your November 19, 2012 report at the bottom of 22
- 23 page 4, you have a paragraph, it's the third bulleted
- 24 paragraph that the last sentence on the page starts with,
- 25 "Per EPA guidance documents, it is necessary

- concentrations. That's the change I made.
- 2 And is that because EPA said you had to do it that
- 3 way, is that what --
- 4 A EPA didn't say I had to do it that way. I made
- the change to more closely follow guidance and to clarify
- the sentence that you read. Where it says 85 centimeters,
- that's 85 meters. And earlier in that bullet it says .021
- 8 centimeters. That should be meters. It's a typographical
- 9 error.
- 10 Q So earlier when you say you've taken the
- 11 introductory paragraph to those three bullets, Costco
- 12 representatives have taken further steps beyond Dr. Cole's
- suggested changes to ensure that the modeling conservatively
- overstates expected concentrations. This change was really
- dictated by EPA protocols, correct? 15
- 16 A Well, we, my point I made there was we made these
- 17 changes voluntarily after meeting with Dr. Cole because I
- felt it was the right thing to do. It is consistent, more
- consistent with EPA guidance to use in this case the lower 19 20
- roughness length, so I did.
- 21 Q Per EPA guidance documents it is necessary to move 22 surface roughness values with meteorological station being
- used in the model and not the site location roughness value.
- 24 A Well, that probably is the guidance, however, as I
- 25 indicated before, we used a higher roughness length from a

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- 1 to use surface roughness values with a
- meteorological station being used in the 2
- 3 model and not the site location roughness
- 4 value."
- 5 We cite U.S. EPA 2003. Does that mean that if you
- 6 are modeling an urban site, that you should be drawing your
- 7 background data from an urban monitor?
- THE WITNESS: It doesn't refer to that at all. 8
- 9 BY MS. ROSENFELD:
- 10 Q What does that sentence mean?
- 11 What this is talking about is when you run air
- 12 met, the pre-processor for air modeling, it prepares the
- meteorological data that runs air met that you need to put 13
- 14 in a surface roughness value for the, for the location of
- 15 the met data and if it's referring to how it processes
- 16 meteorological data and is not related in any way to the
- 17 treatment of background concentrations.
- 18 And have you changed where you drew your
- 19 meteorological data from?
- 20 Α No.
- From 2012 to 2013? 21
- 22 We've used DCA Regan National Airport all the way
- through this project. We haven't changed any meteorological 23
- site. What I changed was the surface roughness
- consideration which resulted in less dispersion and higher

- ramp and we did it because collectively we felt for those
- circumstances it was a more accurate assessment. So the
- guidance is guidance but, again, the objective is to have
- accuracy. I mean you bring up this point, the issue with these roughness lengths. When you go to a very low
- roughness like we have per guidance that it makes the
- modeling around Georgia Avenue and in Veirs Mill, there
- really would be more dispersion than we're showing. I mean
- this is not a grass field somewhere. There's buildings,
- 10 there's cars, there's obstructions to flow that will create
- significantly more dispersion than mere modeling. So in
- that context, by making this change for this setting, this
- suburban setting, we're going to tend to overstate
- concentrations as you see near Georgia Avenue, for example.
- If you put a monitor there at Georgia Avenue, you would not
- see numbers as high as what's showing in my judgment. It's
- 17 a limitation of air modeling. It can only handle, you know,
- one roughness length to do the meteorological processing and
- it does have a substantial effect on the overall modeling 19 20 results.
- 21 (Discussion off the record.)
 - BY MS. ROSENFELD:
- 23 My point is your characterization. You did it
- 24 because it was the way EPA guidelines required that it be
- 25 done.

- A Guidelines don't require anything. Guidelines are
- 2 guidelines. We follow the guidelines in accordance to the
- 3 full set of guidelines and, again, the sentence that is
- 4 dictated, the model that most accurately estimates
- 5 concentrations in the area of interest is always sod.
- 6 That's what we did.
- 7 So in terms of land use, in terms of municipal
- 8 selection, we did follow the guidance and properties where
- **9** we think it's appropriate to deviate such as Marant, we did.
- 10 And that was concurred by the other consultants and by the
- 11 city of Alexandria and accepted by the state of Virginia.
- 12 Q I'm handing out, oh, your rural and urban
- 13 calculations for CO in your November 2012 report, those have
- 14 not been superseded, have they? Those are --
- 15 A The carbon monoxide values, you're asking did we
- 16 change those in any way?
- 17 Q Right.
- 18 A I don't recall any changes to those.
- 19 Q Okay.
- 20 A The only change was in the figures in the report
- 21 of August 16th. I believe we identified the maximum values
- 22 in the modeling domain.
- 23 Q This is an excerpt again, just for convenience,
- 24 from the November 2012 report. Table 1-12 predicted rural
- 25 and urban concentrations for CO. Under the CO one hour for

- 1 for gas queue in roadways and so forth. Those maximums in
- 2 our values will occur at different times. Maybe the gas
- 3 queue occurred on August 8th at, you know, noontime. Maybe
- 4 the exit from the gas station occurred on June 5th at 10
- 5 o'clock in the morning. We're showing the maxes for each of
- 6 those sub-runs, but they will not add up to the total down
- 7 below. The total is based upon the actual, exact
- 8 calculations hour by hour, but the subtotals are by a sub-
- 9 group and they will not add up.
- 10 Q Okay. And how would I know that reading your 11 report?
- 12 A I don't think we describe that level of detail in
- 13 the report, but we're trying to give a sense in these tables
- 14 of what source categories are more important than others and
- 15 that's why I put this table together. But there's really no
- 16 way that we could show that culpability by source category
- 17 for a short amount of time except by doing this procedure.
- 18 Q And if I were to hand out page 69 of your November
- 19 19, 2012 report, I think you, for example, predicted rural
- 20 concentrations for PM2.5. If I were to total the numbers
- 21 under the column that says home, p.m., 24-hour, when I
- 22 calculated these numbers again, they did not total the
- 23 number that you had for total modeled.
- 24 And which column again, I'm sorry, are you looking
- 25 at?

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- 1 home, you have a series of numbers associated with the gas
- 2 queue, the roadways, ring road exits, entrance parking,
- 3 warehouse. Would you please total those numbers for me?
- 4 Would you please add them up and tell me what number we
- 5 reach?
- 6 A Which -- you're referring to one hour CO. You
- 7 want me to add up the home, the school and the pool?
- 8 Q No, I want you to go down the column that says
- 9 home and add those numbers and tell me what number you
- 10 achieve --
- 11 A They, they would not --
- 12 Q -- before you get to the yellow.
- 13 A They will not add up. In other words, when you
- 14 try, when you break it -- we're showing component parts here
- 15 as approximations. The one hour values, the one hour value
- 16 at the gas queue occurred at a different time than the ring
- 17 road and so forth. They will not add up to the number
- 18 below. It's clearly -- it has to be an approximation for
- 19 short-term averaging times. For annual they'll add up more
- 20 closely, but they will not add up for short-term.
- 21 Q Would you please explain that to me again? I
- 22 don't understand what you're trying to tell me.
- A Well, in other words, the total model, they're showing a total model, the model maximum based upon
- 25 considering each hour one by one. We're showing the maximum

- 1 Q P.M., 24-hour under home. Rural. Rural at the 2 top left.
- 3 A Well, it's exactly the same answer as I just gave.
- 4 The gas queue sub run could have had a 24-hour maximum on a
- 5 different day than the roadways did, other ring road. So
- 6 it's showing the maximum for that particular subgroup. The
- 7 total is showing across all sources, each hour, each day,
- 8 you know, appropriately. But this is an approximation to
- 9 give you an idea of which sources are more important than10 others.
- Q So if I were to look at the numbers under p.m.,
- 12 24-hour home, are you averaging those numbers or is there a
- 13 formula? I still don't understand how you extrapolate your,
- 14 the total model from the numbers that you have in this15 column.
- 16 A The total model is based upon the direct
- 17 processing of all these sources one day at a time in this
- 18 case. That gives you the total. The total model value is
- 19 accurate. We're showing the source culpability for anything
- 20 less than an annual. We're showing you -- we did sub-runs,
- 21 so when the gas queue run, the ring road run and so forth.

We're showing the maximum, the proper percentile value from

- 23 that run. But they will be on different days. So, again,
- 24 this breakdown is just presented to make it clear which
- 25 sources I'm intending more important than others, but they

- 1 will not, you can't add these columns up and expect to match
- 2 the bottom, the total model of value. They will not add up
- to the same number.
- 4 MR. GROSSMAN: Also, on your scientific notation
- there --5
- 6 THE WITNESS: Yes.
- 7 MR. GROSSMAN: -- are those minuses before? It's
- hard to read. 8
- 9 THE WITNESS: That's scientific notation, so 2.31
- 10 minus O2 would be 2.31, then it's 10 minus two or .0231.
- 11 MR. GROSSMAN: Right. So to add these and when
- 12 you have a minus 03 there, you would have to, that would be
- nine thousandths rather than the other columns where it says
- 14 to the O2 --
- 15 THE WITNESS: Right.
- 16 MR. GROSSMAN: -- that's, the tenth to the O2
- 17 would be two hundredths?
- THE WITNESS: Right. Correct. 18
- MR. GROSSMAN: So you would have to make that 19
- 20 translation in adding them up anyway.
- 21 THE WITNESS: Yes, you would.
- 22 (Discussion off the record.)
- 23 BY MS. ROSENFELD:
- 24 Q And, Mr. Sullivan, the NO2 results in your August
- 16, 2013 report on page 8, again, when I calculate these

- totaled the same exact number as the whole model, no.
- And are there other places in your report, your
- August 16, 2013 report or the August 9th report where there
- would be this deviation?
 - A As I mentioned, for anything less than annual, you
- will see the same factor. They will not add to the same
- 7 value.

18

- 8 Q Okay. Thank you.
- 9 (Discussion off the record.)
- 10 MR. GROSSMAN: I'm glad you brought this all up,
- Ms. Rosenfeld, because I could see myself adding these up at
- some later time and saying, wait a minute, these don't add
- up. So I'm glad that that's been clarified so I don't have
- a little conniption later on.
- MS. CORDRY: Well, that's -- we always have to 15
- clarify Mr. Sullivan's reports for him. 16
- 17 MR. GROSSMAN: I don't think that's fair.
 - MS. CORDRY: Well --
- MR. GROSSMAN: Okay? He is assuming a certain 19
- 20 level of knowledge as an expert that we may not share as
- 21 laymen, or at least I don't.
- 22 (Discussion off the record.)
- 23 BY MS. ROSENFELD:
- 24 Q And in your -- going back just for a minute to the
- NO2 in your August 16, 2013 report on Table 2, where in

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- these numbers did you correct the moves?
- Correct for moves?
- 3 Q Yes.
- 4 A We did not.
- 5 MR. GROSSMAN: I'm sorry, correct for what?
- 6 MS. CORDRY: Moves.
- 7 MR. GROSSMAN: Oh, moves -- M-O-V -- okay. I
- thought you said moose and I just, I was --8
- 9 (Discussion off the record.)
- 10 BY MS. ROSENFELD:
- 11 Q Did you make that correction for any of the
- 12 others, for example, from your November 19, 2012 report, the
- p.m. 2.5, did you make a correction in Table 114?
- 14 A No, we have explained, I've explained in previous
- testimony on the PM 10, the PM2.5 side that I agree with Dr.
- Cole about the 10X factor that moves his higher for idling
- 17 sources. 3NO2 is a much smaller issue. As I mentioned
- before, it could be a factor of two. We could put the
- factor of two in here and it would make a very small
- 20 difference. The contribution from these sources relative to background is small. 21
- 22 And we haven't, we haven't run it and the, we
- 23 checked again with D.C. regulatory authorities and they're
- still working on the guidance. Until they have developed
 - site-specific inputs for moves, we don't know exactly what

- 1 numbers they do not add up. The total modeled does not
- reflect the actual addition that you would --
- 3 MR. GROSSMAN: I'm sorry, what page are you on on
- 4 that?
- 5 MS. ROSENFELD: Page 8.
- 6 MR. GROSSMAN: Page 8? Hold on. Let's see if my
- 7 page 8 is the same as your page 8. All right. That's a
- 8 table --
- 9 MS. ROSENFELD: That's a table.
- 10 MR. GROSSMAN: -- on page 8? All right.
- 11 MS. ROSENFELD: Table 2.
- 12 MR. GROSSMAN: Yes. Okay. So --
- 13 BY MS. ROSENFELD:
- 14 Q And, again, when you add up the numbers for the
- individual sources, gas, queue, roadways, et cetera, they do
- 16 not total 43, they're above the number 43.
- 17 Correct. You would expect that.
- 18 Q And it's the same explanation --19 Α Yes
- 20 Q -- for this chart?
- 21 Yes, yes, it is.
- 22 Q And did you note that anyplace in your August 16,
- 23 2013 report?
- 24 A We did not specifically point out the fact that
- the individual values for each were run and they were not

- 1 the number is going to be for this area for NO2 and for
- 2 PM2.5 for that matter. We're waiting on the guidance. For
- 3 these analyses, it was not available and we chose not to use
- 4 defaults, but to use Mobile 6 at the actual approved
- 5 numbers.
- 6 Q And when is the last time that you checked with
- 7 them for that data?
- 8 A Last week.
- 9 Q And looking at Table 2, the urban, could you tell
- 10 me which of these should be corrected for moves?
- 11 A We're not talking about correcting right now for
- 12 moves. We're, as I mentioned, this, for the D.C. area, the
- 13 model that's set up right now to go is Mobile 6. What I
- 14 said was, for example, if you were to assume that D.C. would
- 15 have a similar relationship between moves as generic
- 16 information, you could assume up to a factor of two
- 17 perhaps --
- 18 Q Okay.
- 19 A -- increase, but if you made that increase, which
- 20 could be done frankly as could the other refinements either
- 21 way, that would not make a big difference in these results
- 22 simply because the contribution from, look at the
- 23 contribution of this gas station. It's very small. For
- 24 example, NOX, one hour; gas queue, it's five.
- Q Well, right. So if you were to make that, if,

- 1 well do it both. Why would we just make the change one way?
- 2 Q I thought you had already made that change with
- 3 respect to the NO2, am I --
- 4 A I did not.
 - Q Okay. But you did make quite a few other changes,
- 6 right?

5

- 7 A I made the four changes I described earlier.
- 8 Q And those all resulted in less conservative
- 9 modeling results, is that correct?
- 10 A My testimony was it made the modeling more
- 11 accurate and less conservative, but it's still conservative.
- 12 That's what I said.
- Q In your January 16, 2012 report on page 16, oh,
- 14 yes, actually it's the January 16, 2013 report which at the
- top of the page says 2012, but page 16 of that report. You
- 16 say Costco used a conservative approach, asked to overstate
- 17 to estimate the general background concentration, i.e., the
- .8 contribution from sources other than those specifically
- 19 modeled for each criteria pollutant, PM2.5, CO and O2, and
- 20 averaging time. Background concentrations in the Costco
- 21 analysis were based on the highest measured concentration
- 22 measured in Montgomery County and surrounding areas as
- 23 necessary for the most recent available three years. At
- 24 that time we were looking at 2009 through 2011, which I
- 25 believe you've since updated to 2010 through 2012, correct?

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et 16th report

- 1 account for that factor of two, the gas queue would become
- 2 10, is that correct?
- 3 A That's if you made that one change, that's
- 4 correct. We can refine this a lot of different ways. And
- 5 now clearly that's one that could be done.
- 6 Q And the roadways?
- 7 A You could do it to the roadways and exits and
- 8 entrances, as well as the parking.
- 9 Q And the ring road?
- 10 A You could do it to any location that's involving
- 11 motor vehicles. I can't say as I sit here that it's as high
- 12 to diesels the same as it would for gas stations. But my
- 13 point is you certainly could make a guess of what it's going
- 14 to be in the future. We don't know what the exact number is
- 15 right now. But we also could make changes, refine other
- 16 things I mentioned earlier in my testimony today. So it
- 17 could go either way.
- 18 Q So if you were to do this in the most conservative
- 19 way, though, you would correct for the fact that you didn't
- 20 use the moves modeling?
- 21 A Well, yes, but if I made that change, well, then I
- 22 might as well use for these sources very close to the
- 23 location, I might as well adjust the NO2, NOX ratio too
- 24 which would cut things back by a factor of four. I mean if
- 25 you're going to do a change in one direction, you might as

- A I only made that change in the August 16th reportfor one hour NO2.
- 3 Q Okay. Were, so, and you carried that modeling, is
- 4 it your testimony that you carried that modeling through to
- 5 the January, to the August 16th report of 2013 that you used
- 6 the highest measured concentration measured in Montgomery
- 7 County and surrounding areas as necessary?
- 8 A No, what I, we were, when I -- I was referring to
- 9 three stations, 18th and Hayes in Arlington, Beltsville and,
- 10 of course, Rockville. That was, actually in the August 16th
- 11 we followed EPA guidance. We didn't do it -- we over, we
- 12 conservatively did it before. We used the three year
- 13 running average, 98th percentile, rather than trying to do
- 14 it more conservatively.
- 15 Q If we go back to the three years, 2010, 2011,
- 16 2012, the monitor values report --
- 17 A Right.
- 18 Q -- you said you used 18th and Hayes Street in
- 19 Arlington. And in 2012, that 98th percentile was a number
- of 44. There are other monitors that are higher, 34th
- 21 Street, N.E., in Washington; 2500 First Street in
- 22 Washington, for example. You did not use those even though
- 23 they were the higher values, is that correct?
- 24 A I wasn't trying to pick the highest value. I was
- 25 trying to pick the most representative site and in this case

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- 1 for August 16th we followed EPA guidance in how we computed
- 2 that background value.
- 3 Q And how did you pick those as your most
- 4 representative sites?
- 5 A They are the most, they're the -- that's, those
- 6 three sites triangulate around the facility.
- 7 (Discussion off the record.)
- 8 BY MS. ROSENFELD:
- 9 Q Is it true, isn't it true that 420 34th Street is
- 10 actually closer to the site?
- 11 A I don't have a map and our judgment at the time
- 12 was that these were the most representative sites. We
- 13 weren't trying to pick the lowest or the highest, but those
- 14 that would best represent this location.
- 15 Q But your report says the background concentrations
- 16 in the Costco analysis were based on the highest measured
- 17 concentration measured in Montgomery County and surrounding
- 18 areas as necessary. So you didn't pick the highest measured
- 19 concentrations?
- 20 A Well, as my reports have shown, and I've
- 21 testified, we selected three locations as representative and
- 22 in the earlier work I picked the highest of those three.
- 23 That is consistent with EPA policy and what we did. We did
- 24 not look at all the monitors in the area, including those
- 25 in downtown Washington, D.C., and let's pick the highest one

- 1 THE WITNESS: So I should look at the January --
- 2 you said look at the November report or the January report?
- 3 MS. ROSENFELD: Wherever you --
- 4 MR. GROSSMAN: She's read to you, I think, from
- 5 the January 2013 report.
- 6 MS. ROSENFELD: That's correct.
- 7 MR. GROSSMAN: But the page, at the top of the
- 8 page it said 2012.
- 9 THE WITNESS: Okay. Let me take a few minutes to
- 10 look through my report.
- 11 MR. GROSSMAN: Sure.
- 12 (Discussion off the record.)
- 13 THE WITNESS: While he's looking, did we resolve
- 14 the spreadsheet issue? Ms. Rosenfeld, did we get the
- 15 spreadsheet?

16

18

20

10

15

- MS. ROSENFELD: I'm not sure.
- 17 (Discussion off the record.)
 - MS. CORDRY: It looks like it was sent over. I'm
- 19 trying to see if I can open it.
 - MR. GROSSMAN: Thank you.
- 21 THE WITNESS: Well, going through this, the
- 22 November, I don't see it. It specifically explained that we
- 23 picked the three most representative locations, but I'll
- 24 testify that we did. That's what we did.
- 25 BY MS. ROSENFELD:

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- 1 we can find, we didn't do that.
- 2 Q Okay. But can --
- 3 A That's not what I intended to do.
- 4 Q Can you show me where in your report that you
- 5 explain that you were picking the representative monitoring
- 6 sites and not the highest measured concentration sites?
 - A I don't know if it's mentioned in my report, but
- 8 that is what we did. We picked the most representative
- 9 sites we could find.
- 10 Q So your report is incorrect in that respect, isn't
- 11 that true?

- 12 A Well, I can search in my report and see what it
- 13 says if you like. I don't recall the exact wording, but all
- 14 the way through this process we used the same three sites.
- 15 Nothing has changed.
- 16 Q Yes, I would like you to find that please because
- 17 when I read Section 4.0, it says something very different to
- 18 me from what you just testified to.
- 19 A Well, that really wasn't my intention to suggest
- 20 that we take the highest site in the D.C. area as the basis
- 21 for background. That would not be consistent with --
- MR. GROSSMAN: Right now you're looking at the
- 23 January 2013 language, is that what you are looking at?
- MS. ROSENFELD: That's correct, on page 16,
- 25 Section 4.0.

- 1 Q And how did you determine that they were the most 2 representative?
- 3 MR. GROSSMAN: He's already testified he
- 4 triangulated, well --
- 5 MS. CORDRY: That doesn't make it representative.
- 6 MS. ROSENFELD: Well, you could triangulate --
- 7 MR. GROSSMAN: Well, he can, you can, you can
- 8 testify to that when you testify, ma'am.
- 9 MS. CORDRY: Okay. I just, I guess --
 - MR. GROSSMAN: You don't --
- MS. CORDRY: -- we're asking was there anything
- 12 else besides the fact that it was --
- MR. GROSSMAN: Well, wait a minute. Wait a
- 14 minute. We have one person to question.
 - MS. CORDRY: I'm sorry.
- 16 MR. GROSSMAN: So --
- 17 BY MS. ROSENFELD:
- 18 Q How did you pick which three to triangulate?
- 19 A We looked at those that were close proximity and
- 20 consideration of all the alternatives, in our judgment those
- 21 three were the most appropriate for this modeling.
- 22 Q And other than proximity, what other factors did 23 you consider?
- 24 A You know, at this point in time all I can say is,
- 25 this was three years, that we used our best judgment, looked

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- 1 at the alternatives, and concluded that those three were the
- 2 most representative for that location.
- 3 Q And which, what EPA guidance did you rely on in 4 picking those three?
- A I don't know there's EPA guidance that makes
- 6 recommendations how to select representative air quality
- 7 sites. We use best judgment. Those are also included in
- 8 our protocol, those three locations. We followed the
- 9 protocol.
- 10 Q Do you recall if you picked it in part because it
- 11 was a mixed site, not purely urban?
- 12 A I don't, as I mentioned, it was three years ago.
- 13 I don't remember the exact specifics. I described the
- 14 reason I did it. I can show you I didn't pick it because I
- 15 thought those three would give low numbers. Our objective
- 16 was to find representative locations in the area to
- 17 represent background.
- 18 You testified earlier that you would be focused on
- 19 the loading docks because there had been a change in the
- 20 focus. Where did that change in focus come from?
- 21 July 30th during cross-examination there was
- 22 exhibits put in front of me showing maximum concentrations
- at the loading dock in the November report and it was clear
- 24 that that was the area of interest as was going to be
- 25 discussed further. And on that basis we conducted the

- 1 It certainly does.
- 2 Under both urban and rural?
- 3 A Well, we're modeling an urban, we're showing urban
- 4 because I've made the statement that that is the only
- applicable modeling approach. When everything is urban,
- you're modeling the source and the receptors are urban,
- we're going to use urban. So I'm not talking about doing it
- both ways if the focus is on the loading dock.
- 9 And what was the highest urban emission level on
- 10 the mall parcel under your November 2012 report?
 - What do you mean by emission level?
- 12 What was the highest NO2 level, one hour
- 13 concentration?
- 14 MR. GROSSMAN: You mean using his November 12
- report or using the November 12 report with the corrected 15
- math? 16

11

- 17 MS. ROSENFELD: November 12 with the corrected math. 18
- 19 MR. GROSSMAN: Okay.
 - THE WITNESS: The rural values in the August 16th
- 21 report.

20

- MR. GROSSMAN: Which figure are you looking at? 22
- 23 THE WITNESS: I'm looking at Figure 1 --
- 24 MR. GROSSMAN: Figure 1?
- 25 THE WITNESS: -- on page 11 in mine. It's page 12

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- 1 refined modeling to be able to appropriately handle that
- level of review. The previously modeling was not designed
- 3 for micro scale assessment inside the loading dock or within
- 4 the gas queue.
- 5 Q As I recall, the question was to have you provide
- 6 a report that showed the corrected numbers and not to create
- an entirely new report. Was there some other reason why you
- did that? 8
- 9 A Yes.
- 10 And what was that reason?
- 11 The reason was it was clear that the focus was
- 12 going to be on the concentrations right at the loading dock.
- 13 My concern was that the record would be misleading and
- 14 unclear if we did not conduct an analysis suitable for that 15
- level of detail that you would look at that isoline and say, well, this is a huge, this is a huge problem when it wasn't.
- 17 So in order to clarify the record, I concluded that the
- 18 only, it would be necessary to refine the modeling for that,
- 19 those areas so that it would be clear and there wouldn't be
- 20 a false impression that the loading dock is creating an
- 21 exceedance of the one hour NO2 standard which it clearly
- 22 would not. There's no math that would support that
- 23 conclusion that I can see.
- 24 Q Well, the math in your November 2012 report would
- 25 support that conclusion, isn't that correct?

- in yours.
- 2 MR. GROSSMAN: All right.
- 3 THE WITNESS: The highest value based upon rural
- dispersion coefficients is 388.
- 5 MS. ROSENFELD: And --
- 6 THE WITNESS: The loading dock.
 - BY MS. ROSENFELD:
- 8 Q And that would be at the loading dock?
- 9 Α Yes.

7

15

- And what would the number be in the center of the 10
- 11 queuing area for the special exception?
- 12 It looks like approximately 200 in the center.
- 13 And under the rural dispersion with the corrected
- 14 numbers, what would be the highest number, the highest --
 - MR. GROSSMAN: That was the rural.
- THE WITNESS: That is the rural. 16
- BY MS. ROSENFELD: 17
- Q I apologize. Under urban, what would be the 18
- 19 highest concentration --
- 20 A Where?
- 21 -- within the mall parcel? Q
 - A Well, the highest concentration at the mall parcel
- 23 would be at the loading dock, right at the loading dock.
- Again, it would be approximately 414 micrograms. It would
- be higher.

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- MR. GROSSMAN: Is that using --
- 2 MS. ROSENFELD: And --
- 3 MR. GROSSMAN: -- dispersion? What figure are you
- 4 looking at?
- 5 MS. ROSENFELD: You said 440?
- 6 THE WITNESS: I'm not.
- 7 MR. GROSSMAN: Oh.
- 8 THE WITNESS: We have, that's, the calculation,
- 9 that's a run we have done to prepare, but that has not been,
- 10 that was done recently and couldn't be provided 10 days in
- 11 advance. We did it to evaluate Dr. Cole's affidavit.
- 12 BY MS. ROSENFELD:
- Q Can I go back to that number one more time? Was
- 14 it 414?
- 15 A 414.
- 16 Q Okay. And that was at what location?
- 17 A Right at the loading dock.
- 18 Q And that was with urban?
- 19 A That's correct.
- 20 (Discussion off the record.)
- MR. GROSSMAN: And those are NO2 one hour rates?
- 22 THE WITNESS: Yes.
- 23 (Discussion off the record.)
- MR. GROSSMAN: Just to make sure we're clear,
- 25 that's before you did the refinement or change in the

- L run datas had been done using the November inputs. We asked
- 2 for that. It took a month and repeated incorrect data being
- 3 given to us before we got something that supposedly was that
- 4 which consisted of figures for 16 specific receptors. That
- 5 was what we asked for in the beginning, that's what we've
- 6 still been asking for and now it appears that maybe he's
- 7 doing that kind of a run. It has still not been provided to
- 8 us. We are sitting here getting numbers that, again, are
- 9 changing that the reasonable comparisons between, before and
- .0 after to find what's going on because we're getting very
- 11 incomplete things.

We have never gotten an urban run data for

13 November that bears any relationship to this Figure 1, that

14 bears any resemblance to the new data he's doing. I don't

 ${f 15}$ know how we can evaluate this, Your Honor, when we get these

16 fragmentary bits and pieces of data, then he does new runs,

17 then he puts them in the record. We don't have them. What

18 are we supposed to do with this?

MR. GROSSMAN: Well, first of all, you can present your, you can cross-examine and present your own evidence.

21 He's required to turn over those things that we've required

22 him to turn over. When he is responding to a question and

23 he's giving you his best answer as to the question based on

24 his evaluating an affidavit from, that was recently

25 submitted by Dr. Cole, there's no requirement that he have a

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- 1 assumptions?
- 2 THE WITNESS: That's --
- 3 MR. GROSSMAN: That's using the corrected math,
- 4 but the old assumptions?
- 5 THE WITNESS: That's correct. That is correct.
- 6 BY MS. ROSENFELD:
- 7 Q Regardless of the 10-day rule, we would like a
- 8 copy of that introduced into the record please.
- 9 A Well, it's not complete. I mean I'm saying I
- 10 reviewed Dr. Cole's affidavit, we've done the mall and it's
- 11 not ready for sharing. When it's ready for sharing, I'll be
- 12 happy to provide it to the attorneys.
- 13 Q I don't know what to say to that. You just
- 14 testified as to a specific number.
- 15 A You asked me what the number was and I answered
- 16 your question --
- 17 Q That's correct.
- 18 A -- because I knew.
- 19 Q Right.
- 20 A That is a tentative number until it gets quality
- 21 and finalized.
- MS. CORDRY: Could I clarify one thing, Your
- 23 Honor, also that -- when we asked back on July 30th for
- 24 urban run data under -- the testimony back then was the
- 25 urban run data had been done in the same way that the rural

- piece of paper that has that run on it.
- 2 MS. CORDRY: I understand, but what --
- 3 MR. GROSSMAN: But he's just answering as best he
- 4 can from his own analysis of what Dr. Cole said in his
- 5 affidavit attached to the, your motion.
- 6 MS. CORDRY: Which was a guesstimation because we
- 7 didn't have the numbers then --
- 8 MR. GROSSMAN: All right.
- 9 MS. CORDRY: -- and he's also testified at great
- .0 lengths that he's doing things based on what he thinks we
- 11 changed our mind, what we're focusing on, what we're doing
- 12 and what we're saying, number one here, is that what he is
- 13 testifying about now. There is no resemblance to what was
- 14 asked for in July, what he testified he had in July, what
- 15 has not been presented since then.
- MR. GROSSMAN: Hold on one second, ma'am. This is not an opportunity for you to critique his testimony.
- 18 MS. CORDRY: I understand.
- 19 MR. GROSSMAN: You can ask him questions and get
- answers and that's what Ms. Rosenfeld has done, she's askingquestions, she got an answer. Now he arrived apparently at
- 22 that figure by looking at, analyzing the database done, Dr.
- 23 Cole's analysis.
- MS. ROSENFELD: He didn't, he didn't say that.
 - MR. GROSSMAN: Well, Dr. Cole apparently in the

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- 1 affidavit gave a figure.
- 2 MS. CORDRY: No, he didn't.
- 3 MS. ROSENFELD: Yes, but --
- 4 MS. CORDRY: The new -- I'm sorry, Your Honor. I apologize.
- 6 MR. GROSSMAN: So I don't understand, I understand
- 7 that you want more and more pieces of paper, but he's not
- 8 required to generate a piece of paper for every answer that
- 9 he arrives at.
- MS. ROSENFELD: I understood Mr. Sullivan to say that he had this document, they didn't turn it over because
- 12 it was less than the 10 days required to hand it over.
- 13 BY MS. ROSENFELD:
- 14 Q I -- am I correct?
- 15 A Well, I also testified it wasn't through quality
- L6 control or finalized. It's recent data in preparation for
- 17 my testimony and it's based upon my review of the affidavit
- 18 of Dr. Cole. It's preliminary work. You asked the question
- 19 and I answered the question.
- MR. GROSSMAN: I think there's been plenty of
- 21 sharing of data in this case, so I don't think this is a
- 22 well-founded objection. You can certainly answer and I
- 23 think he is attempting to answer your question that you
- 24 posed as to what his estimate was using the urban values --
- 25 MS. ROSENFELD: Okay.

- 1 MR. GROSSMAN: That's quite all right. You can
- 2 address it to me too.
- 3 BY MS. ROSENFELD:
- 4 Q Okay. Mr. Sullivan, the 414 microgram, that was
- 5 the one hour NO2, correct, urban with the corrected math?
- 6 MR. GROSSMAN: Corrected math based on the
- 7 previous assumptions, as I understood.
 - THE WITNESS: Corrected background.
- 9 MS. ROSENFELD: Right.
- THE WITNESS: Corrected background, not the
- 11 refined analysis.
- 12 BY MS. ROSENFELD:
- 13 Q Okay. Now you -- am I correct in understanding
- 14 that you did this based on Dr. Cole's affidavit?
- 15 A Well, we did the analysis to identify the results
- 16 and compared it to Dr. Cole's affidavit. His value, of
- 17 course, was less than that. And we wanted to, I evaluated
- 18 his primary preparation for this testimony. That's why we
- **19** ran it.

8

- 20 Q And did you have any of your own independent data
- 21 that you worked with? Did you have any data in your
- 22 November 2012 files that you relied on?
- 23 A Well, certainly we had all the data from our
- 24 November 2012 files.
- 25 Q And that would be the data --

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- 1 MR. GROSSMAN: -- or the urban dispersion rates,
- 2 but applying the old assumptions with the corrected math.
- 3 So he's tried to do that as far as I can tell. So the fact4 that he doesn't have a piece of paper in front of him to me
- 5 is not dispositive of anything, nor are you entitled to get
- 6 a piece of paper every time he gives a number and responds
- 7 to your question.
- 8 MR. SILVERMAN: Just to clarify, I'm not arguing
- 9 with what you just said, but just to clarify, his answer is
- 10 based in part on an investigation that has not been quality
- 11 controlled or his study has not been quality controlled.
- 12 That's what we have here.
- MR. GROSSMAN: Well, he's answering based on the
- 14 information, his best analysis of it at this point. And
- 15 he's entitled to do that. I think that's what he's
- 16 obligated to do in answering your question.
- 17 MS. ROSENFELD: And --
- 18 MR. GROSSMAN: And not every answer has to have a
- 19 piece of paper attached to it.
- 20 MS. ROSENFELD: And if I could resume with questioning --
- MR. GROSSMAN: Yes.
- MS. ROSENFELD: -- I'd like to. Thank you. And
- 24 that was directed at my co-counsel, not at the Hearing
- 25 Examiner.

- 1 A As has been, to the best of my knowledge, that's
- been shared.
- 3 Q That would be the data that we got in August, I
- 4 believe, is that correct?
- 5 A I don't know when it was, but you have those
- 6 files, the modeling files from the November 2012 report to
- 7 the best of my knowledge.
- 8 Q Did you have more than 16 receptors for the urban
- 9 runs in your November 2012 data?
- 10 A We never did an urban plot. Are you referring to
- the urban plot? We never did an urban plot in 2012. We ran
- 12 urban and rural, and as I've testified a number of times,
- 13 the urban was run in that report, the 16 discreet receptors.
- 14 That encompassed the homes, the school and the pool. We ran
- 15 that for comparative purposes, urban, rural. The plots
- 16 which were the largest scale, those were just done rural
- 17 back then. So you have what we did.
- 18 Q Okay.
- A When you asked me at the July 30th to the urban
- runs with the corrected background, we did, and we did it
- 21 for also as you requested, the CO and PM2.5.
- 22 Q Okay. And I'm somewhat intrigued by the fact that
- 23 your urban number at 414 is higher than your rural number
- 24 which maxes 388. Can you explain that?
- 25 A Yes, because we're referring to a loading dock.

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- 1 And as described in our report, we have conservatively
- 2 centralized the stack, more or less, from the exhaust from
- 3 the trucks, to be one point source, one -- imagine a smoke
- 4 stack right in the loading dock. It's 10-feet high. So
- 5 when you have urban dispersion for a location right next to
- 6 a stack, it brings the pollutants down very quickly to that
- 7 location at a highly concentrated rate more so than the
- 8 rural would. That's why for that road, there are receptors
- 9 probably within 20 feet or less of the stack, they get
- 10 higher numbers than you got from the rural. And that was
- 11 the reason why Dr. Cole's extrapolation didn't work, because
- 12 urban and rural don't scale the same. For an elevated
- 13 source in particular, they scale different.
- 14 Q And was that the only location on the mall parcel15 that you calculated urban NO2 with the corrected background?
- A No, we did it within a plot similar to the plots
- 17 shown in Exhibit -- is this 16? I'm not sure -- August
- 18 16th --
- MR. GROSSMAN: What's Exhibit 255(a).
- MS. ROSENFELD: Figure 1?
- THE WITNESS: Exhibit 255(a).
- 22 BY MS. ROSENFELD:
- 23 Q Similar to what you show on Figure 1 for the
- 24 rural?
- 25 A Same receptor grid.

- 1 MR. GROSSMAN: Okay.
- 2 THE WITNESS: These numbers are still inflated to
- 3 some extent conservative.
- 4 MR. GROSSMAN: Okay.
 - BY MS. ROSENFELD:
- 6 Q Did the numbers -- what page are Figures 1(i) and
- 7 (ii)?

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15

- 8 A Five and six. Five and six in my version.
- 9 MR. GROSSMAN: Yes, even on my version.
 - BY MS. ROSENFELD:
- 11 Q And in these concentrations on Figures (i) and
- 12 (ii), did you make any adjustments for not having used
- 13 moves?
- 14 A I did not, no.
 - Q And did you make any assumptions with respect to
- 16 what traffic levels would be during the holiday season?
- 17 A This, these numbers are based upon a five year
- 18 analysis and the you move the traffic at the, we're using
- 19 within the mall is the highest one hour value in the traffic
- 20 study. We're using it all the time the mall is operating.
- 21 So in that context this modeling is extremely conservative
- 22 and is another area if we needed to refine we could. It's
- 23 not the highest level of all time. So I would represent
- 24 that that overstates to some extent any issue regarding
- 25 holiday versus weekends or weekdays. We're using the

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- 1 Q And what was the VIN number, what was the highest 2 urban one hour NO2 within the special exception boundaries?
- 3 A Well, it would have been 414. Was that one done
- 4 in the boundary? I guess I don't know. Is that inside the
- 5 boundary?
- 6 Q Within, for example, where the queuing would
- 7 occur, the pumps and the kiosk and the vehicular queues
- 8 going into the gas station.
- 9 A I don't recall off the top of my head. It was
- 10 much lower than that number.
- 11 Q When those numbers are finalized, could we have a 12 copy of them?
- 13 A That's fine by me.
- MR. GROSSMAN: Mr. Sullivan, just so I understand,
- 15 those numbers, do they represent your conclusion as to an
- 16 accurate projection for -- what is your conclusion as to an
- 17 accurate projection of what the NO2 one hour level should
- 18 be?
- THE WITNESS: The August 16th, Exhibit 255(a)
- 20 report, I show in plots Figure (i) and (ii) on pages 5 and 6
- 21 what is the more refined estimate of NO2. You see the peak
- 22 near the loading dock is, it's totally not there because
- 23 it's not a real peak. The more, the real, the most
- 24 realistic assessment would have included also adjustment for
- NO2 ratio and an adjusted background by hour of day.

- 1 maximum values --
- 2 Q So --

- 3 A -- all the time.
- 4 Q -- when you say the highest from the traffic
- 5 study, you would be talking about the traffic analysis that
- 6 Mr. Guckert prepared?
 - A We're specifically referring to, if you look at
- 8 the peak morning and peak afternoon, took the highest of the
- 9 two our defining number within the mall. That would be for
- 10 the ring road, the parking lot assessment and so forth.
- 11 Q Okay. And do you recall what month of the year
- 12 that report was conducted?
- 13 A I don't recall.
- 14 Q If those numbers increased during the course of
 - 5 the holiday season, would your projections for NO2 increase
- 16 as well?
- 17 A I don't see how they would. If we were modeling
- 18 the peak hour, 18 hours a day, seven days a week, that's
- 19 going to tend to overstate relative, any small differences
- 20 between the peak on a holiday versus the peak in Mr.
- 21 Guckert's analysis. I'll conclude that our analysis in that
- 22 regard is extremely conservative.
- THE WITNESS: Mr. Grossman, at some point could I
- 24 have a break in the process?
- 25 MR. GROSSMAN: Certainly.

- 1 THE WITNESS: It doesn't have to be right now, but
- 2 sometime soon just to get a little --
- 3 MR. GROSSMAN: How much longer do you think your
- 4 cross-examination is going to be?
- 5 MS. ROSENFELD: Oh, probably a couple hours.
- 6 MR. GROSSMAN: All right. Why don't we take your
- 7 break now?
- 8 THE WITNESS: Definitely.
- 9 MR. GROSSMAN: So we'll come back at about, at
- 10 about 25 until 3:00.
- 11 (Whereupon, at 2:28 p.m., a brief recess was
- 12 taken.)
- 13 MR. GROSSMAN: On the record. Ms. Rosenfeld.
- 14 MS. ROSENFELD: Thank you.
- 15 BY MS. ROSENFELD:
- 16 Q Mr. Sullivan, you had said that part of the
- 17 conservatism that you factored into your assumptions were
- based on this idea that you would take the peak hour in 18
- 19 terms of traffic and you assume that that extended out over
- 20 a period of 18 hours, is that correct?
- 21 A That's referring to the ring road and inside the
- 22 ring road, yes.
- 23 And with respect to NOX, we're talking about a one
- 24 hour standard, correct?
- 25 A Well, you know --

- all the -- pick a receptor, in a year you have 8,760 hours.
- If you rank them from highest to lowest and go down to
- 175th, that's your defining number. So if every day and
- every hour of the day we have a maximum number of cars, the
- distribution would be substantially affected by that because
- a lot of those numbers will be, it will be inflated because
- of the distribution. The distribution will be skewed. You
- have many more hours of peak than you actually have. So
- it's conservative for the one hour, as well as the annual,
- or any other averaging time in between.
- 11 Q Okay. And in terms of the effect on the ground,
- however, if for example during the holiday season in a given 12
- hour you had 600 cars and not 300 cars, you would for that 13
- holiday season have a higher 75th percentile number,
- wouldn't you? 15
- 16 You would not.
- 17 You would not?
- You would not. 18
- 19 Q And how would you not?
- 20 Think of how many holidays you have per year.
- 21 Let's say there's 10 holidays per year. Then think about
- 22 the fact that 365 days per year and 365 days for 18 hours we
- have the maximum number of cars in those roadways. That has
- to be more conservative when you're talking about 10 days,
- which is, frankly, a very small percentage, three percent.

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- 1 Q There is a one hour. There is also an annual.
- 2 Yes, there's two standards.
- 3 O But there is a one hour standard, correct?
- There is a one hour annual standard. 4
- 5 MR. GOECKE: For NOX and NO2?
- 6 MS. ROSENFELD: NOX.
- 7 THE WITNESS: NO2.
- 8 MR. GROSSMAN: NO2.
- 9 MS. ROSENFELD: NO2. I thought we were treating
- 10 them as the same thing.
- 11 MR. GROSSMAN: Yes, it's listed in various places,
- 12 but some places it's listed as NOX and some places it's NO2 and I understand the distinctions that you made before, so 13
- 14 you don't have to go over that again.
- 15 BY MS. ROSENFELD:
- 16
- Q So for the purposes of the one hour standard,
- 17 let's say hypothetically we had 300 vehicles on the ring
- road for each of those 18 hours. It really doesn't build in 18
- any conservatism to assume that you have 300 for 18 19
- 20 consecutive hours because each of those hours are identical,
- 21 isn't that correct?
- 22 That's incorrect. Α
- 23 Q Okay. Can you explain to me how that works?
- 24 Referring to 98, 98th percentile distribution,
- which is the 175th highest hourly value, if you rank ordered

- So it would be dominated by the day-by-day. You may have
- some really high numbers in the very top. Maybe you have 25
- percent higher traffic during the holiday. That will be way
- at the top of your distribution maybe. If you're going down
- 5 to the 175th value, that will be dominated by the fact that
- we conservatively assumed roadway and parking lots and the
- 7 rest that we'll use the peak values for Mr. Guckert's
- report. That's an extremely conservative approach that
- 9 could be refined. We don't need to in my judgment. If we
- did, the numbers would go down substantially. 10
- 11 Q And I understand that you used the peak numbers
- from Mr. Guckert's report, but there was testimony that the holiday season extends for a number of weeks, in fact, at
- the mall and the number of vehicles on the mall parcel
- easily doubles. So we are not talking about 10 days out of 15
- 16 the year.

- 17 A I don't, I can't speak to Mr. Guckert's report in
- that detail about how many extra days the holiday has. What 18
- I'm saying is the math, if you think about it in the bigger
- picture, you're talking about something that happens every
- single day with high numbers every hour of the day. That's 21
- going to much more than compensate for any holidays because
- 23 even the holidays don't have that many cars every hour of the holiday. I'm talking about the entire time the mall is
- open that we have those numbers going on. If that was

- 1 refined, I can guarantee you that the distributions would be
- 2 reduced and the 175th would be substantially lower than
- we're showing now, at least in terms of the contribution
- 4 from the roadways.
- Q Okay. And are you aware that during certain
- periods of the holiday season the mall, in fact, is open 24
- 7 hours a day?
- 8 A I don't know that, but I'm certain that that
- would -- I'm certain that would not more than compensate for
- 10 the conservatism I've just described.
- 11 Q Mr. Sullivan, going to your August 16th report,
- 12 you have an executive summary that begins on page 3. And
 - the first bullet you say the loading dock is now being
- 14 modeled based on assuming four heavy-duty diesel trucks are
- 15 idling for 10 minutes. And you say the actual idling time
- 16 is expected to be even less than that. If, in fact, the
- 17 trucks were idling for more time than you've assume here,
 - would the NO2, one hour NO2 numbers increase?
- 19 A Well, certainly if they're idling for more than 10
- 20 minutes, you have more idling, you have more emissions.
- 21 And which numbers would be affected by that?
- 22 The loading dock emissions.
- 23 And when -- assuming that those emissions
- 24 disperse, would you expect higher numbers in surrounding
- areas on the mall parcel or even beyond?

- that formula worked basically.
- 2 MR. GROSSMAN: Hold on one second just to make
- 3 sure I'm looking at the right page here. What's the title?
- 4 MS. ROSENFELD: I believe it's Section 4.1.1.
 - MS. ADELMAN: 4.1.1.
- MR. GROSSMAN: Okay, 4.1? Okay, 4.1.1. That's on 6
- 7 page 20 for me.

5

8

- MS. CORDRY: You're expanding.
- 9 MR. GROSSMAN: Okay.
- 10 THE WITNESS: So I'm showing the fact that there
- are, where this equation is based upon doing a daily value. 11
- So we have 10 heavy-duty trucks, for example, shown in this 12
- analysis. So you see at the very end of the top line, you
- see the 10 heavy-duty trucks. I'm clarifying that if each
- truck we have, they operate, they're the equivalent of four
- miles worth of travel and we apply a 2.5 fold scale up
- 17 factor per Mobil 6. Then we're still left over with a 10-
- 18 fold safety factor in that equation.
- 19 The extra 10 in the very front I was required to 20 avoid being, underestimating PM2.5. In terms of NO2, that
- 21 factor substantially overstates. So I've just rearranged
- the terms and clarified it, and then below I show a more
- realistic assessment, but still very conservative, where
- it's very similar to that, but each truck is there for 10
 - minutes, .42 miles. We still apply the 2.5 safety factor

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- A You're referring to a hypothetical that if they
- did not follow the law and they idled for more than the 10
- minutes they're allowed their policy calls for and more than
- the five minutes allowed by Montgomery County, would that
- hypothetically increase concentrations in the loading dock,
- 6 yes, it would.
- 7 Q And beyond?
 - A As we showed in the modeling, it's quite localized
- 9 to the loading dock, but certainly beyond the loading dock
- would be some effect. 10
- 11 You had updated your formula and I can't locate it 12 in your report right now. Did you provide a copy of that?
- 13 MR. GROSSMAN: What do you mean by your formula?
- 14 MS. ROSENFELD: The flip chart formula that we
- spent so much time on has now been modified. And I'd like
- 16 Mr. Sullivan to explain how it's been modified.
- 17 MR. GROSSMAN: I'm still not sure what you're referring to when you say the flipchart formula. 18
- 19 MS. CORDRY: We'll find it for you. It's here.
- 20 MR. GROSSMAN: Okay.
- 21 MS. CORDRY: It's on page --
- 22 MS. ROSENFELD: Oh, thank you.
- 23 MS. CORDRY: -- maybe 18, maybe 19.
- 24 MR. GROSSMAN: Okay.
- 25 THE WITNESS: I more explicitly, it's shown how

- that for Mobile 6, the building compensates for the 2X issue
- with NOX. We have four trucks there. They can only have
- four trucks. There's only four bays. And we do that on an
- hourly basis to see if the emission rates are the more
- accurate, but still a conservative estimate of .007, you
- know, is roughly, what, 15 times lower than the very
- 7 conservative rate used earlier.
 - BY MS. ROSENFELD:
- 9 Q The 10 times safety factor at the start of the
- 10 calculation, can you show me where in your November 2012 11 report that's identified?
- 12 A I didn't, I didn't pull it out that way. That's
- in our spreadsheets. We simplified that to a term of 100
- and we have a 10. I split it off to show more explicitly
- how that could be interpreted. But it's not, it's not 15
- 16 described in our November report.
- 17
- So where would that 100 be shown in your November 18 report?
- 19 A As I mentioned, that the 100 is described in our 20 emission spreadsheet that supports that emission factor.
- 21 And where is that emission spreadsheet?
 - The emissions start at XOS. It's in that
- 23 emissions, in that XOS spreadsheet that's in the package
- 25 Q Oh, the one that just got emailed?

22

- A No. It's from the November 2012 data disk that we
- 2 prepared that includes all the emissions and modeling,
- 3 input/output files.
- Q And so if there were more than four heavy-duty
- 5 trucks in an hour, this number, you would simply plug in --
- 6 let's say, for example, there were five. You would simply
- put a five where there's a four right now and run the
- formula that way? 8
- A Well, that's a hypothetical. These are, there's
- 10 only four bays, so you're making the assumption that within
- 11 an hour they could, the truck could be dropped, unloaded and
- 12 another truck loaded in. I don't know for a fact that could
- 13 be done, but let's assume that it could be done. Then this
- 14 would go up five, you know, five divided by four, scale up.
- 15 But keep in mind that we're assuming there's four trucks at
- 16 the loading dock every hour for 18 hours. They don't have
- 17 that many trucks. They only have 10 heavy-duty trucks per
- 18 day. So this equation still has a substantial amount of
- 19 conservatism still embedded into it. That would be the
- 20 total of 18 times -- 72 trucks. They have 10 trucks. And
- 21 we're only modeling -- and this, we're assuming the bays
- 22 only have heavy-duty trucks. They're the ones that have the
- 23 most emissions. Remember, half the time they have light-
- 24 duty trucks.
- 25 Q And so if, for example, there were four trucks in

- assume the same extremely conservative emission rates for
- the Costco loading dock applies to the Target loading dock,
- the one that's in the center of the mall to the north of the
- gas queue, that it made a very small difference at the
- locations of primary concern which, of course, we're really
- focusing on the school, the homes or the pool. I would be
- surprised if Target or the central loading dock has as much
- 8 traffic as Costco does, but I don't know that for a fact.
- 9 (Discussion off the record.)
 - BY MS. ROSENFELD:
- 11 And those very conservative emission rates as they
- apply to the home, the school and the pool, with respect to 12
- within the mall parcel itself, you have higher
- concentrations, isn't that correct?
- 15 A Well --

10

20

- 16 Q That's what your isoplats show?
- 17 A Well, we did, are you referring to the other
- loading docks or referring to Costco's loading dock? 18
- 19 Q I am referring to the mall parcel --
 - A What source?
- 21 MR. GROSSMAN: Well, hold on.
- MS. ROSENFELD: -- which is within the defined 22
- 23 neighborhood.
- 24 MR. GROSSMAN: Let's keep in mind here, I mean my,
- 25 I'm only evaluating the potential impacts of the Costco gas

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- 1 station.
- 2 MS. ROSENFELD: Okay.
- 3 MR. GROSSMAN: So I think it appears, unless you
- have some startling revelation in your evidence, it appears
- 5 that what you're getting at is testimony regarding things
- beyond the Costco gas station, well beyond and having
- nothing to do with what I'm supposed to evaluate. Now to
- the extent you're arguing that it's part of the overall
- figures and he's given his testimony about background, I'm
- 10 not sure where you're going with all this. This seems to me 11 to be --
- 12 MS. ROSENFELD: It --
- MR. GROSSMAN: -- a minimal contribution to what I 13
- 14 have to look at.
- 15 MS. ROSENFELD: In order for Mr. Sullivan to
- accurately model the ambient air quality within the
- neighborhood, and it's undisputed in the record that the 17
- neighborhood includes at a minimum the mall parcel --18
- 19 MR. GROSSMAN: Right.
- 20 MS. ROSENFELD: -- he needs to accurately model
- emissions. And it certainly is our position that those 21
- emissions are not just from the gas station itself, but EPA
- requires that you also factor in background. And the 23
- question is whether or not the background has been
- accurately computed. And some of the contributing sources

- 1 the bays and two trucks waiting to approach the bays and
- idling during that period of time, would you then make this
- 3 six and --
- A No, well, in your hypothetical where are these 4
- trucks idling?
- 6 Q Well, there's a huge parking lot right next to the
- 7 warehouse.
- 8 A Well, so somewhere in the parking lot they're
- 9 idling. What is your question?
- 10 Q Would you take this formula and increase the four
- 11 heavy-duty vehicles to six?
- 12 A No, I would not.
- 13 And you would not why?
- 14 Because they're not at the same location. And
- 15 they're still, the idling policy as far as I know still
- applies. This is not my area of expertise, but there's an
- 17 idling policy for the County of five minutes and Costco's
- 18 policy is 10, which may have to get reconciled, but the
- 19 issue is they just can't. They shouldn't be letting their
- 20 trucks idle for a long period of time.
- Q For the other, there are other loading docks, 21
- 22 there are certainly other heavy-duty trucks on the mall
- 23 parcel, do you include them in your background elsewhere?

A We have assessed, we've assessed that at one point

25 in time, I think I've testified to that fact, that if we

24

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- 1 are not just the loading dock and not just the gas station,
- 2 but the other uses in the mall and, candidly, a whole bunch

of other stuff as Mr. Sullivan has testified.

- 4 MR. GROSSMAN: And I think we've had a whole lot 5 of cross-examination about background here. I just -- I'm
- 6 not cutting you off now, I'm just saying that I think you're
- 7 in an area that is really beyond what is going to have a
- 8 significant impact on what I have to evaluate. And so I am
- 9 suggesting that you take that into account in terms of the
- 10 amount of time that's spent on cross-examination on this

11 area.

- MS. ROSENFELD: Well, the core question with respect to Mr. Sullivan's expertise is whether or not the
- 14 EPA ambient air standards have been met or not. And Mr.
- 15 Sullivan has testified that he has changed part of his
- 16 formula in calculating what the background levels are. And
- **17** so my --
- 18 MR. GROSSMAN: For NO2?
- MS. ROSENFELD: For NO2 and PM2 and all of them
- ${f 20}$ relate to this formula of these emissions. So I'm simply
- 21 trying to get clarification of what those changes are and
- 22 what impact it would have and he said his underlying
- 23 assumptions are four vehicles, four heavy-duty trucks for a
- 24 certain period of time and I'm trying to understand --
- MR. GROSSMAN: That's for the -- he's changed the

- . Q Mr. Sullivan, going to the second bullet in your
- 2 executive summary on page 3, you said cars in the queue at
- 3 the gas station were previously modeled for a one hour NO2
- 4 and other pollutants for 40 cars for all 15 hours of gas
- 5 station operation every day of the week. I thought your
- 6 testimony was that you had originally started with 20 cars
- 7 and then increased it to 32?
- 8 A I, for the one hour we've, the November 2012
- 9 report and onward we have used 40 car gueues.
- 10 Q And can you show me where in your report that's
- 11 listed?
- 12 A I don't know if it's listed in the report or not,
- 13 but that's what we did. We got a 40-car queue for one hour,
- 14 we had a 10-car queue for the annual and different ones in
- 15 between. What I'm saying in the second bullet point is that
- 16 we used that for all operational hours, the one hour
- 17 analysis for NO2 and for CO. The point, there is, it's a
- 18 very, that worked in the past, it was an extremely
- 19 conservative approach. They don't have 40 cars in queue all
- 20 the time.
- 21 (Discussion off the record.)
- 22 BY MS. ROSENFELD:
- 23 Q So how many cars are you now assuming in the queue
- 24 and for what duration?
- A As is shown on page 38, based upon transactional

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- 1 Costco loading dock estimate. I don't think he's testified
- that he changed his estimate of loading elsewhere in the
- 3 mall, did he? Did you --
- 4 THE WITNESS: I did not.
- 5 MR. GROSSMAN: So I don't think that's a change.
- 6 MS. ROSENFELD: I understand that, but I'm trying
- 7 to understand if the basic assumptions change whether or not
- 8 he would consider that to have an impact on the emissions
- 9 levels at the loading dock --
- MR. GROSSMAN: All right. As I say, I'm not stopping you.
- II Stopping you.
- MS. ROSENFELD: -- and beyond.
- MR. GROSSMAN: I'm just saying bear in mind here
- 14 that the further you stray away from what is likely to be
- 15 produced by the Costco gas station, the less impact it can
- 16 possibly have on what I have to analyze, okay? That's -- to
- 17 me that's a fundamental factor here. I understand your
- 18 point. I understand the idea of background as part of this
- 19 analysis. But the central issue I have to look at is what
- 20 the projection is as to what the Costco gas station is going
- 21 to do. That's my job. Once again, I didn't mean to cut you
- 22 off. I just want you to bear that in mind before we take
- 23 too much time on cross-examination on issues that will not
- 24 really bear heavily on what I have to consider.
- 25 BY MS. ROSENFELD:

- data, transaction, transactional data from, which I believe
- 3 MR. GROSSMAN: Which figure are you looking at
- 4 now?

13

15

- 5 THE WITNESS: Yes, would be in Appendix B.
- 6 MR. GROSSMAN: Okay.
- 7 THE WITNESS: The spreadsheet discussed earlier.
- 8 MR. GROSSMAN: Right. Yes, that begins on page 42
- 9 for me. I think --

was Sterling --

- THE WITNESS: You were just grounded. It goes on.
- MR. GROSSMAN: I think so. I think that the,
- 12 probably your margins were beyond my printer's --
 - THE WITNESS: I think so.
- MR. GROSSMAN: -- capabilities and so it just --
 - THE WITNESS: Right.
- MR. GROSSMAN: -- in any event, all right. So --
- 17 THE WITNESS: So we had transaction history of --
- 18 there is a function of time of day how many transactions
- 19 occurred at the gas stations which would be likely, directly
- 20 related to queue length. We used that data to normalized
- 21 that such that the period that had the highest transactional22 history would be one, one within the scalers used and the
- 23 other thing, it would be relative to that one which you will
- 24 see in the spreadsheet you received this morning. This type
- of hourly scalers is something that air mod was designed to

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- 1 do. It's routinely done in refined modeling. If the source
- 2 has hourly variability, that's certainly within the
- 3 modeler's flexibility to incorporate that into the modeling
- 4 to improve the accuracy and to accommodate other factors
- 5 such as you can see here.
 - BY MS. ROSENFELD:
- 7 Q I'm not -- if that answered my question, I didn't
- 8 understand it. How many vehicles are you now assuming in
- 9 the queue?

6

- 10 A Well, at noontime it would be 40 and everything is
- 11 relative to that. Noontime on weekdays would be 40 and, you
- 12 know, approximately, unless when and some other times, it's
- 13 40 at 10 o'clock in the morning on Saturday and Sunday. And
- 14 so it's all relative to 40. So if it was 7 o'clock on a
- 15 weekday, it's at the .57 scaler, then it would be 40 times
- 16 .57. It's all scaled by those values.
- 17 Q And where would I find that .57?
- 18 THE WITNESS: It's on it on that chart, just below
- 19 there's, you'll see the chart on page, Appendix B, which
- 20 has --
- 21 MS. ROSENFELD: Right.
- MR. GROSSMAN: -- a graph on it. And you can see
- 23 it.
- 24 MS. ROSENFELD: Right.
- MR. GROSSMAN: The hour, the seventh hour there's

- Q Okay. And so at least theoretically it's possible
- 2 that if you did a more precise calculation with respect to
- 3 vehicular traffic over the course of a year, that you might
- 4 have different numbers, different emission from what you
- 5 have now, is that correct?
- 6 A Well, you can always refine the model more and
- 7 more and more. My point is this change and, yes, it's
- 8 different than the old assumption. We don't have 40 cars
- 9 all the time and this, in this scenario we have reasonably,
- 10 we have an accurate representation of how the queues vary
- 11 the function of weekdays, Saturday and Sunday. You could
- 12 argue that what if some holiday during some hours had higher
- 13 queues that this. That certainly is possible. We're
- 14 looking at 175th high value over the course of a year. In
- 15 my judgment, this analysis is substantially more accurate
- 16 and more appropriate if we're going to refine things into
- 17 queues and into loading docks than we had before.
 - Q Going to your third bullet on page 4 of your
- 19 August 2012 report that we have assumed conservatively that
- 20 individuals were in the queue for an hour, even though the 21 transactional queue data shows the maximum time is 16
- 22 minutes on weekdays and 20 minutes on weekends based on
- 23 passage through a 40-car queue, based on the observed four
- 24 minute fueling time per vehicle throughout for passage
- through the queue. In the refined modeling we assume 20

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18

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- 1 a .57 which is the scaler. So you multiply the .57 times
- the 40 cars and that would result in the number of cars he's
- 3 including in his estimate for 7:00 a.m., is that fair?
- 4 THE WITNESS: Yes, that's correct. As a
- 5 refinement of the queues, getting away from the ultra-
- 6 conservative assumption that there's always 40 cars all the7 time.
- 8 (Discussion off the record.)
- 9 BY MS. ROSENFELD:
- 10 Q So with respect to the queue, you have done an
- 11 hour by hour, more refined analysis of the number of
- 12 vehicles. Now I asked you earlier about holiday traffic and
- 13 I think what you're doing here with the queues reflects
- 14 conceptually what I was asking you with respect to an annual
- 15 because there are times during the year, prolonged periods
- of time during the year when you have significantly more
- 17 traffic than you would have at other times of the year.
- 18 A Correct.
- 19 Q So in this case you did that precise refinement to
- 20 decrease the amount of emissions, or at least that's the
- 21 effect of this, is that correct?
- 22 A Well, we did, we did this to refine and more
- 23 accurately describe queues. That's why we did it.
- 24 Q And the --
- 25 A The result of that is it does lower concentration.

- minutes in gueue and 40 minutes of the background
- 2 concentration for the one hour NO2 concentrations. I don't
- 3 understand how it is that you base your modeling on the time
- 4 the individuals are exposed. My understanding of the EPA
- 5 requirements are that you establish levels of emissions or
- 6 levels of concentrations in ambient air, is that correct?
 - A Well, not -- well, it's correct in an ambient
- 8 receptor, but the question is does EPA modeling guidance
- 9 suggest they should put a receptor, you know, a receptor in
- 10 the middle of a transient queue and the answer is I have
- 11 never seen any guidance document where EPA suggests you put
- 12 receptors in a road, for example, and an analogy to a queue.
- 13 So what I'm doing here is analogous exactly to what we did
- 14 to the occupancy factors for the school and the pool for the
- 15 VOC risk assessment. We're more accurately describing the
- 16 time period that they could be exposed. And you can't park
- 17 your car in a queue. You can't go and stand in a queue for
- 18 now. You move through. And based upon the transactional
- history, and input from Mr. Guckert, it's clear the maximumtiming queue is typically 16 minutes with the 40 cars. It's
- 21 almost always less than that.
- 22 Q And didn't EPA just change it's protocols to
- 23 require monitors roadside because they are looking precisely
- 24 for more accurate pollutant concentration.
 - A Roadside is the key term, not in the middle of the

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- 1 road.
- 2 And this, of course, is not a road, this is a Q
- 3 special exception use, is that correct?
- 4 A But now it's very analogous, the roadway, people
- move through a roadway. 5
- 6 Q And --
- In fact, even a roadway, if I could finish, even a
- 8 roadway, you could on the Beltway get stuck for an hour, but
- in this case we're talking about a queue. You can't park
- your car and stop. When you're in a queue, you've got to
- 11 move on through. You enter the queue, you wait and get gas,
- 12 you exit the queue. So there is no feasible scenario which
- a person would hang out at that one spot for an hour.
- 14 Therefore, we refined it to consider occupancy.
- 15 Q Well, but your modeling is to determine what those
- 16 pollutant concentrations are at this location, correct?
- 17 Well, I, yes, I certainly, yes, I did that. I
- 18 showed those values, but in the modeling files. But the
- 19 issue is that if I assume that a person will be there for an
- 20 hour, I'm going to overstate without question what their
- 21 exposures are. So I'm refining that exposure to still very
- 22 conservatively say that for the 20 minutes they'll be
- 23 exposed and what the receptor says right there in the gueue.
- 24 And for the next, on the 40 minutes, they'll be at the 175th
- 25 highest concentration at the monitor during the course of a

- much time you estimate a receptor, an individual will be
- located within the confines of the special exception
- boundaries.
- 4 A This is an ambient study. We're comparing things
- to EPA standards. The EPA standards do not apply to the
- 6 attendant.
- 7 Well, that's a legal question and one that I
- 8 submit to you has yet been to be addressed in this case. Is
- it your understanding that the attendants will be there for
- 10 an hour or less at a time?
- A No, the attendants will be there for more than an 11
- 12 hour.
- 13 Q And this is a one hour standard, is that correct,
- 14 NOT has --
- A Just to --15
- 16 Ω -- a one hour standard?
- 17 A To clarify, EPA has a one hour standard. OSHA has
- an eight hour standard. They're different.
- 19 Q EPA has a one hour standard, correct?
- 20 Α Correct.
- 21 Q And it is a health-based standard, is that
- 22 correct?

5

9

- 23 It's, it is a health-based standard designed for
- 24 the general public.
- 25 Q And do you have any understanding about -- what is

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- 1 year. So they're going to be conservative with the
- background, they're not going to zero, they're going to in
- 3 this case 90 micrograms, which is a higher number when
- 4 they're in the queue, whatever the queue receptor says.
- 5 So it's still conservative, but it's more
- 6 reasonable. In my judgment it's not reasonable to model in
- a queue. We don't, we haven't done that or a roadway before
- or a loading dock. But to show the data based upon the
- comments being made about these values, we've refined the 10 analysis to be able to do that, but it's atypical. I've
- been modeling for, you know, 38 years in the business. I
- 12 haven't modeled inside a roadway by putting a receptor to
- get the concentration or in this, by analogy, at a queue 13
- 14 people are moving through as a function of time.
- 15 Q Do you need special exception approval to build
- 16 most roads or any other roads that you worked on?
- 17 A I don't, I don't know if they needed a special
- 18 exception.
- Q Is it your understanding that the attendants who 19
- 20 work at the gas station will be there for an hour or less
- 21 during the day?
- 22 A My assessment was not occupational. My assessment
- 23 was ambient accessible.
- 24 Q Well, this doesn't give me an ambient assessment
- 25 in your bullet number three. What this does is quantify how

- your understanding as to how much time it can take for
- somebody to feel the effects of, any adverse health effects
- if exposed at the EPA levels?
- 4 MR. GOECKE: Objection. He's not a health expert.
 - MS. ROSENFELD: He's telling me that --
- 6 MR. GROSSMAN: I'm going to let him answer that if
- he, I think it's, it probably is beyond his expertise, but
- I'll let him answer if he can.
 - MS. ROSENFELD: He's telling --
- 10 THE WITNESS: Well, I limit my area of expertise
- in medical issues to the standards. EPA has a one hour
- standard and annual standard for NO2. Those standards are
- what they are and those standards are designed for the
- ambient air and that's to protect the general public,
- including sensitive people. The attendant, there's an 15
- 16 occupational exposure which is controlled by OSHA. That's
- 17 my understanding.
- 18 MR. SILVERMAN: Mr. Grossman --
- 19 MR. GROSSMAN: Mr. Silverman.
- 20 MR. SILVERMAN: Are you interested in whether that
- statement is legally correct or would you like to hear about 21 22 that please?
- 23 MR. GROSSMAN: Well, I did ask you all about that,
- but not at this moment. I think --25 MR. SILVERMAN: No, I know.

- MR. GROSSMAN: -- at the appropriate time you can
- 2 tell me what, well, both sides can tell me whether they
- think the OSHA standards should be looked at here as well.
- 4 I did ask that.
 - BY MS. ROSENFELD:
- 6 Q Once EPA implements the near road monitors and
- 7 it's, I believe it's a minimum three years data, would you
- expect that the background levels for certain pollutions
- would be higher than they are now based on better
- 10 monitoring?
- 11 A Well, background for what? I mean that would be
- 12 background for near major roadways and major highways,
- 13 things like that. That wouldn't be better background for
- 14 this location. It wouldn't be representative of exposures
- 15 here. It's a different scale of analysis.
- 16 Q Your background, though, which comes from EPA
- 17 monitors, this site is ringed by major roadways, is that not
- correct?
- A Well, yes, it's quite a distance from Georgia 19
- 20 Avenue. If your point is if they were to put a monitor
- 21 right next to Georgia Avenue, would that represent
- 22 background at this gas station, clearly it would not. EPA
- 23 likely will put the monitors at even more heavily traveled
- 24 spots than that. So my point is is what EPA is doing is,
- 25 definitely sounds good to me, but it's not relevant to this

- 1 and the entrance?
- A Well, no, I was referring to a particular one hour
- 3 period that was that, that was the, well, actually it's
- three, it's three hours, a running average. But the hours
- that comprise that data point, I gave that as an example
- saying we're going to talk about that maximum as an example,
- let's put it in context. And in doing so, you find that the
- gas station, there's a very tiny contribution towards that
- 9 value.

16

- 10 Q Well, when I look at the Table 2, it seems to me
- 11 it's a much more significant contributing factor.
- 12 A Well, this is a general analysis, not for one
- 13 hour, and these tables are the ones that did not have the
- refinement for the in queue and next to the loading dock
- calculations, so it's really apples and oranges. 15
 - But it does say NOX one hour?
- 17 A Well, it is one hour NOX, but it's based upon the
- assumption we're not doing micro scale modeling. This is 18
- 19 for the general model we did in the November report. You're
- 20 comparing that to define modeling for micro-scale in the
- 21 August 16th report for one particular three hours actually
- 22 of information and it's an apples and oranges comparison.
- MS. CORDRY: Well, maybe I'm confused, but I
- thought you testified that the 414 number was taken from the
 - same urban assumptions in November 2012 from which these

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- numbers were calculated, were they not?
- THE WITNESS: It was based upon the, taking the
- 3 November 2012 data disk --
- MS. CORDRY: Yes. 4
- 5 THE WITNESS: -- files that you folks have and
- 6 it's running that as urban and correcting for the
- 7 background.
- 8 MS. CORDRY: Okay.
- 9 THE WITNESS: That's the number we're referring
- 10 to.
- 11 MS. CORDRY: Right.
- THE WITNESS: I'm referring to three particular 12
- hours over the course of that five year period as the 13
- 14 example.
- 15 MS. CORDRY: Right. And we are saying, I think the question was simply is this not another example from the
- same set of data runs with the same sort of assumptions and
- it's not an apples and oranges here, there's not another 18
- 19 set, a different apple in the same bushel of apples?
- 20 MR. GOECKE: Just a point of procedure, Mr.
- Grossman. I thought only one attorney was going to be 21
- asking questions? 22
- 23 MS. CORDRY: Well, I'm --
- 24 MR. GROSSMAN: That's true, but she's just trying 25 to clarify something.

- 1 matter at hand. This is not near a major highway or roadway
- where this gas station is.
- 3 (Discussion off the record.)
- MS. ROSENFELD: Mr. Grossman, one moment please. 4
- 5 (Discussion off the record.)
- 6 BY MS. ROSENFELD:
- 7 Q Mr. Sullivan, you testified earlier about SIL
- limits and what is that number again? 8
- 9 You asked me for the one hour NO2 SIL?
- 10 Q Yes.
- 11 7.5 micrograms per cubic meter.
- 12 Q Okay. If you could go back to page 8, which is
- 13 Table 2 of your August 16, 2013 report? In looking at the
- 14 sources, I believe you had testified that your results, you
- 15 had come out with .024 for the impact of the gas station, am
- 16 I correct?
- 17 A I gave a very specific example of the, the
- 18 affidavit that Dr. Cole did and he had identified a certain,
- 19 277, which we feel is 414. I said for that particularly
- 20 controlling concentration, if you look at that as an
- 21 example, that .024 micrograms per cubic meter was the
- 22 contribution from the gas station sources, the queue, the
- 23 entrance and the two exits.
- 24 Q And if you look at Table 2, is that the number you
- 25 come up with on this table if you add the gas to the exits

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- MS. CORDRY: I'm trying to understand this.
- 2 MR. GROSSMAN: So I think it's fair. I don't --
- 3 MS. CORDRY: His apples and oranges idea. To me

4 this is just another apple.

5 MR. GROSSMAN: All right. Well, let him answer.

6 THE WITNESS: Well, basically these tables, Table

7 2 is showing urban and rural, and it's showing the

- controlling concentrations of the model on the bottom in
- yellow and it's giving an indication of contributions each
- 10 over the time. I've already testified they don't add up.
- 11 They will not add up. But the issue is this is not the same
- 12 thing. This is looking at all hours, looking at the whole
- 13 data set and taking the 175th value and doing a rolling
- 14 average. The other analysis with the 277 or 414 was for
- 15 just three hours for the whole data set, which happened to

16 be the ones that were the controlling ones for that run.

MS. CORDRY: And we understand that, but I think,isn't though this still just another set of contributions

18 ISTIT THOUGHT THIS SHIII JUST AHOTHER SET OF CONTINUUTIONS

19 from the gas station in the same sort of urban runs? In

20 other words, .024 is not the only number that's out there

21 that is a reasonable number to look at. You have a five

22 year for just the gas queue in urban, you have a 14 in the

3 rural, so I mean that's the question. Aren't these all in

24 the same set of modeling runs?

THE WITNESS: No, well, sure, they're in the same

- 1 these one hour NOX figures are looking at a one hour
- 2 average, contribution of the gas station or other specifics
- 3 throughout the area and so it's going to have a different
- 4 impact because the gas station would have had a lesser
- 5 contribution at that -- I assume that's correct.
- 6 THE WITNESS: That is correct.
 - MS. CORDRY: We understand that.
 - IVIS. CONDICT. We understand the
- 8 MR. GROSSMAN: All right.

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- 9 MS. CORDRY: It's just there is a gradient there,
- 10 there's a whole set of areas and I guess the point was
- 11 simply I'm not quite sure how we're looking at exactly one
- 12 receptor and that somehow is becoming the entire discussion
- point here as opposed to all of the other points that are

14 available to look at.

MR. GROSSMAN: Well, I don't think he, I don't

16 think he was intending to make that as the discussion, the

17 whole discussion point. That's not my sense of what he was

18 saying. He had an understanding from his July 30 session

19 that there was, that there was an attempt to address what

20 was happening at the loading dock, so he attempted to

21 respond to that among other things. That's what he's

22 testifying to. You can accept that, not accept that,

23 whatever you want. I think that's the sense of his

24 testimony. And he felt that the assumptions he previously

25 made according to his testimony were not as accurately

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- 1 modeling runs. The point here is looking at the typical
- 2 ambient sensitive receptors, the home, the school and the
- 3 pool, I'm showing the contribution from the gas station
- 4 which is, yes, it's going to be a lot more than at that
- 5 loading dock. My point was the loading dock, net 414, is a
- 6 loading dock issue and has nothing to do with the gas
- 7 station. If you want to talk about the gas station, look at
- 8 numbers like Table 2. The peak you're talking about is from
- 9 the loading dock, it's not from the gas station.
- MS. CORDRY: I understand. I understand. But I quess I --
- MR. GROSSMAN: He's -- I think, I think, I
- 13 understand your question and I think I understand his
- 14 answer.
- 15 MS. CORDRY: Right.
- MR. GROSSMAN: I think what he's saying is, yes,
- 17 it is apples and oranges. You think it's just a different
- 18 apple. But he's saying, no, the numbers reflected in Table
- 19 2 are not just a different apple out of the same bunch,
- 20 they're actually a different concept.
- 21 MS. CORDRY: Okay.
- MR. GROSSMAN: They're not looking at, as the
- 23 other number he was talking about, was looking at the
- 24 contribution of the gasoline, proposed gasoline station over
- 5 a three hour period at the loading dock, whereas, this,

- reflected the likely truth of the matter as his present
- 2 assumptions do. That's his testimony. Like it or not,
- 3 that's his testimony.
- 4 MS. CORDRY: Okay.
- 5 MR. GROSSMAN: All right. Ms. Rosenfeld, anything
- 6 else?
- 7 (Discussion off the record.)
- 8 MS. CORDRY: Can we take five minutes and just
- 9 determine if we're done?
- MR. GROSSMAN: I think that's fair. All right.
- 11 Come back at 3:30.
- 12 (Whereupon, at 3:25 p.m., a brief recess was
- 13 taken.)
- MR. GROSSMAN: So what's the good word he said
- 15 with hope in his heart?
- MS. ROSENFELD: We have no further questions for
- 17 this witness.
- MR. GROSSMAN: Any -- well, I should say I don't
- 19 see anybody here from Kensington View?
 - MS. ADELMAN: No.
- 21 MS. ROSENFELD: Yes, well, Ms. --
- MS. ADELMAN: They were here this morning, but not for the afternoon.
- MR. GROSSMAN: I guess there's no further cross.
- 25 Any redirect?

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- MR. GOECKE: Just briefly, please.
- 2 REDIRECT EXAMINATION
- 3 BY MR. GOECKE:
- 4 Q Mr. Sullivan, if you were to conduct an indoor air
- 5 modeling analysis of the mall, or the warehouse, would you
- 6 expect the levels that you would find or the toxins you've
- 7 identified to be higher or lower than the outdoor ambient
- 8 air?
- 9 A Well, it depends on how you monitor. If you
- 10 did -- there's two ways. You have fixed sites --
- 11 Q Okay.
- 12 A -- where a personal monitor, a person wears a pump
- 13 and it has a tube going up their lapel. If they're doing
- 14 like particulate monitoring with the personal monitoring,
- 15 you could get, you could get higher values possibly because
- 16 when they move around, they generate a cloud of dust to some
- 17 extent.
- MR. GROSSMAN: People say that about me all the
- 19 time.
- 20 THE WITNESS: But in terms of like say
- 21 particulates, usually indoor levels with that exception with
- 22 fixed monitors I expect would be less. For the gases such
- ${\bf 23}~$ as NO2 or CO, depending upon the air exchange, I would think
- 24 it would be sort of comparable to the outdoor air.
- 25 BY MR. GOECKE:

- a generic background value as we've done, then you would
- 2 tend to overstate to some extent. How much, I'm not sure,
- 3 but there would be some double-counting in there.
- 4 Q Thank you.
 - MR. GOECKE: I have no further questions.
- 6 MR. GROSSMAN: Any recross?
- 7 MS. ROSENFELD: No.
- 8 MR. GROSSMAN: Mr. Silverman?
- 9 MR. SILVERMAN: Just one.
 - RECROSS EXAMINATION
- 11 BY MR. SILVERMAN:
- 12 Q Did you calculate your background values for EPA
- 13 monitors?

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- 14 A The EPA -- I don't know that EPA does maintain any
- 15 monitors. Their monitors are maintained by the states.
- 16 Q I'm sorry, yes. Did you, in calculating your
- 17 background, you relied on the state monitors in Beltsville
- 18 and Rockville and so forth, is that right?
- 19 A That is right.
- 20 Q So you didn't make any separate count for, well,
- 21 the burger stands at the malls or for the loading docks or
- 22 anything else, you just relied on the state-maintained
- 23 monitored stations to get background levels?
- MR. GOECKE: Objection. This is beyond the scope
- 25 of the redirect.

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- Q And what would be the indoor air levels thatapply? Would it be the same EPA max or would it be adifferent standard?
- 4 A The EPA max don't apply indoors at all. It would
- 5 be -- I don't know the standard that would apply inside the
- 6 mall per se.

7

- Q And then turning quickly to the modeling you did
- 8 for the activities related to the mall itself, the ring
- 9 road, for example, the loading dock, would those figures
- 10 also be included in the background levels that you used?
- 11 A Well, I think the issue is to some extent yes
- 12 because our modeling, if you follow, strictly follow EPA
- 13 guidance, you model your source, in this case the gas
- 14 station, and the entrance and exits to the gas station
- 15 delivery trucks and then you would model other sources that
- 16 would create significant gradients at your source area. You
- 'I' '' ''
- 17 might argue the ring road may create a significant gradient.
- 18 EPA defines what significance is. But, clearly, I wouldn't
- 19 expect that Georgia Avenue, Veirs Mill and the others would
- 20 create it. The parking lots definitely would not create
- 21 significant gradients based upon our analysis, so I would
- 22 say we're double-counting because we're including all those
- 23 things I mentioned, the parking garage, the west parking
- 24 lot, Georgia Avenue, Veirs Mill and so forth, University,
- 25 even though they are not required. So when you add that to

- 1 MR. GROSSMAN: It is, but I'm going to leave a 2 little bit of leeway with this.
- 3 MR. GOECKE: Sure.
 - THE WITNESS: Well, I testified at an earlier time
- 5 that even though we did not model the entire mall, that I
- 6 did a special assessment and we modeled all the parking lots
- 7 the same rate as Costco's and the two loading docks, the
- 8 same, the same activity level as Costco and we showed a tiny
- 9 impact down at the clinical receptors of concern. And I
- 10 also showed that we overstated, in our regular modeling that
- 11 we overstated the parking lots because we had increased the
- 12 conservatism on the parking lot calculations and I already
- 13 described the conservatism on the loading dock at Costco.
- 14 So my argument was made on the record before that those
- 15 things clearly more than compensated for any effects at
- 16 further away locations in the mall.
- 17 Q I only asked you about the background, the
- 18 background levels are based on the state monitors, that's
- 19 correct?

20

- A That is correct.
- 21 Q Okay. You didn't modify them, you didn't change
- 22 them, you just accepted them?
- A I didn't change them, no.
- 24 Q Thank you.
 - MR. GROSSMAN: Okay. Thank you, Mr. Sullivan. I

Page 206 Page 208 1 think you are done. MS. ROSENFELD: All of the governed contaminants 2 THE WITNESS: Good. 2 that would apply here, the NO2, the --3 MR. GROSSMAN: All right. Shall we have Dr. Chase 3 THE WITNESS: Did you say for government workers? 4 take the stand? 4 MR. GROSSMAN: No. for --(Discussion off the record.) 5 BY MS. ROSENFELD: 5 6 MR. GROSSMAN: And I think I forgot to say to you 6 Q For workers generally, employees. 7 MR. GROSSMAN: The OSHA standards for the 7 when you began, but you were still under oath here when you 8 testified. 8 contaminants mentioned here for workers. 9 THE WITNESS: I understood that. 9 THE WITNESS: Well, all six of the EPA criteria 10 MR. GROSSMAN: You understood that? And so all of pollutants, including carbon monoxide, lead, nitrogen your testimony offered today was under oath, sir? dioxide, ozone, particulate matter, and sulfur oxides would 11 12 THE WITNESS: Yes, it was. be included, but there's certainly others, asbestos, silica, 13 MR. GROSSMAN: Okay. although silica hasn't been updated since 1971, but it's 14 MR. GOECKE: I believe he even pointed that out at about to be and others. MS. CORDRY: Mr. --15 one time. 15 16 MR. GROSSMAN: Yes, he did say he was under oath. 16 MR. GOECKE: I don't think he heard the question. 17 (Discussion off the record.) 17 MR. GROSSMAN: I think the question is what levels MR. GROSSMAN: Would you identify yourself for the are permitted under OSHA, is that --18 18 19 record, Dr. Chase, please? 19 MS. ROSENFELD: Yes. 20 THE WITNESS: Kenneth H. Chase, M.D. 20 MR. GROSSMAN: Do you know what levels are 21 MR. GROSSMAN: All right. And, Dr. Chase, you 21 permitted under OSHA for these contaminants? 22 recall that you are still under oath? 22 THE WITNESS: I don't have them all memorized, but 23 THE WITNESS: I understand. 23 I have them right in front of me. 24 MR. GROSSMAN: All right. Where did you leave off 24 MR. GROSSMAN: All right. So what are you reading 25 with Dr. Chase? from that's in front of you? Page 207 Page 209 1 MR. GOECKE: Cross-examination. THE WITNESS: I'm reading, these are pages copied 2 MR. GROSSMAN: Yes, but where -- who is going from the American Council of Governmental and Industrial 3 cross-examination? 3 Hygienists Handbook. MS. ROSENFELD: Oh, I was, under the impression 4 MR. GROSSMAN: Okay. 4 that there would be new direct testimony based on the past 5 THE WITNESS: And the supplemental, smaller 5 6 testimony. handbook known as the TLVBEI handbook, which respectfully 7 MR. GROSSMAN: Well, there doesn't have to be. stand for Threshold Limit Values and Biological Exposure There is a question. Did you have any additional direct? 8 Indices. 8 MR. GROSSMAN: All right. Do you have an extra 9 MR. GOECKE: No. 9 10 MR. GROSSMAN: Okay. All right. 10 copy of that by any chance? 11 MS. ROSENFELD: Mr. Grossman, one moment please. 11 THE WITNESS: I don't know. We didn't bring it, 12 MR. GROSSMAN: Sure. 12 but --13 (Discussion off the record.) 13 MR. GROSSMAN: All right. 14 **CROSS-EXAMINATION** 14 THE WITNESS: -- it's only six or seven pages. 15 BY MS. ROSENFELD: MR. GROSSMAN: All right. Well, first of all, 15 16 Q Dr. Chase, what is your understanding of what OSHA let's -- would you tell us what the standards are for carbon 17 levels, what OSHA considers to be appropriate standards for 17 monoxide? air emissions for workers? THE WITNESS: Carbon monoxide is 50 parts per 18 18 A Would you mind speaking a little louder because 19 19 million. 20 I'm hard of hearing --20 MR. GROSSMAN: Per million or per billion? Q Well, certainly. THE WITNESS: Per million. 21 21 22 -- and that fan is creating white noise. 22 MR. GROSSMAN: Okay.

23

24

25

that's no surprise.

THE WITNESS: It's a lot higher than EPA, but

MR. GROSSMAN: All right.

23

24

25

Q Would you please identify the OSHA levels, the,

for standards for air emissions that govern workers?

MR. GOECKE: For which contaminant?

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- 1 THE WITNESS: But it's true for virtually
- 2 everything. There's no agreement between EPA and OSHA and
- ACGIH and other recognized or influential organizations.
- 4 MR. GROSSMAN: And when you say it's a lot higher,
- 5 you mean it's that a --
- 6 THE WITNESS: They allow more, much more exposure.
- 7 MR. GROSSMAN: They allow more exposure under
- 8 OSHA?
- 9 THE WITNESS: Under OSHA.
- MR. GROSSMAN: Than they do under EPA?
- THE WITNESS: Than they do under the ambient air
- 12 quality standards?
- MR. GROSSMAN: Okay. What about for lead?
- 14 THE WITNESS: For lead, it is .05 milligrams per
- 15 meter cube.
- 16 MR. GROSSMAN: Okay. And --
- THE WITNESS: And these are, these are eight hour time weighted averages unless I tell you otherwise.
- MR. GROSSMAN: All right. Did you say micrograms
- 20 or milligrams, Dr. Chase?
- THE WITNESS: I said milligrams, but let me repeat
- 22 it. It's .05 milligrams per meter cube.
- MR. GROSSMAN: All right.
- 24 THE WITNESS: Which is the same as 50 micrograms
- 25 per meter cube.

- particles, airborne particles that you can breathe in that
- 2 get packed in your nose or your pharynx, but never make it
- 3 down to your lungs, down to the alveoli level or tiny,
- 4 microscopic air sacs. And inhalable and permeate respirable
- 5 refers to the ones that they're, can get all the way down to
- 5 the, into the lungs.
- 7 MR. GROSSMAN: Okay. How about sulfur oxides,
- 8 what's the standard for that?
- 9 THE WITNESS: Five parts per million, from an
- 10 eight hour standard again.
- MR. GROSSMAN: Okay. Is there anything else on
- 12 the list that's comparable, you know, in terms of a
- 13 pollutant that OSHA controls?
- THE WITNESS: Well, there's, the booklet that I
- 15 got this out of is pretty thick, so there's, there are other
- 16 things in there.
- MR. GROSSMAN: But I guess we're talking about
- 18 things that would be --
- 19 THE WITNESS: I've got --
- MR. GROSSMAN: -- ambient air, yes, for, that
- 21 might be emitted from --
- 22 THE WITNESS: That correlate to the --
 - MR. GROSSMAN: -- a gasoline station.
- THE WITNESS: -- ambient air standard or NAAQS?
- 25 MR. GROSSMAN: Right.

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23

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- 1 MR. GROSSMAN: All right. How about NO2?
- 2 THE WITNESS: OSHA does not have an eight hour
- 3 standard for NO2, but it instead has a, what's called a
- 4 STEL, short-term exposure limit, of 50 per, 5 ppm or 5,000
- 5 parts per billion.

- 6 MR. GROSSMAN: Okay. How about ozone?
 - THE WITNESS: Ozone is more complicated because it
- 8 depends on the level of work, how arduous the work is. So
- 9 for heavy work, the limit is .05 parts per million. For
- 10 moderate work, it's .08 parts per million. For light work,
- 11 it's .1 parts per million. And for light, moderate or heavy
- 12 workload, they have a two hour standard, the first three
- 13 numbers I gave you were eight hour standards. They have a
- 14 two hour standard of .2 parts per million. I can give you
- 15 these in milligrams or micrograms too if you want, but I
- 16 think we all know how to convert now.
- MR. GROSSMAN: I'm not too good at that process
- 18 but in any event, the PM2.5?
- THE WITNESS: PM2.5, OSHA does not have a
- standard, but AC, excuse me a second. Where did that page
- 21 go? But ACGIH has a recommended standard which is, and this
- 22 is where we had to cover the other booklet, three milligrams
- 23 per cubic meter for respirable particles and 10 milligrams
- 24 per cubic meter for inhalable particles. The difference
- 25 between respirable and inhalable is a lot of large

- THE WITNESS: Those are the six. We've identifiedsix substances and chemicals that, and gases that EPA
- 3 regulates under NAAQS --
- 4 MR. GROSSMAN: Okay.
- 5 THE WITNESS: -- with the help of a CASAC
- 6 committee that I described last time.
- 7 MR. GROSSMAN: Okay. Ms. Rosenfeld.
- 8 MS. ROSENFELD: Yes.
- 9 BY MS. ROSENFELD:
- 10 Q Is the publication that you're referencing, what
- 11 is the name of that organization that you --
- 12 A ACGIH stands for American Council of Governmental
- 13 Industrial Hygienists.
- 14 Q And what role do they play in, with respect to
- 15 OSHA regulations?
- A I don't think they have the force of law, so they
- 17 don't do enforcement like OSHA can and does, but they've
- 18 been around for many, many decades and they're well-
- 19 respected by OSHA and EPA, even if they don't publicly admit
- 20 it.
- 21 Q And do they give recommended guidelines
- 22 themselves?
- 23 A Yes.
- 24 Q And are you familiar with an organization called
- 25 the American Conference of Governmental Industrial

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- 1 Hygienists, that's the one you were just referencing, is
- 2 that correct?
- 3 A I didn't hear you.
- 4 Q You said the American Conference of Governmental
- 5 Industrial Hygienists, correct?
- 6 A No, Council of Governmental Industrial Hygienists.
- 7 Q Okay. Are you, do you know if Costco has ever
- 8 done a health study of gas station workers?
- 9 A No.
- 10 Q You don't know or they never have done one?
- 11 A I don't know.
- 12 Q Okay.
- A It's not that I didn't pose the question, however.
- 14 Q Did you pose the question?
- 15 A I did recently, but I haven't gotten a response
- 16 yet.
- 17 Q Do you know if anybody else has done a study of
- 18 gas station workers?
- 19 A No, except what I ran across in the medical and
- 20 scientific literature, but those studies have been sporadic,
- 21 diverse, meaning all over the world, and not well-
- 22 coordinated. I don't think the American Petroleum Institute
- 23 has ever conducted such a study.
- 24 Q Do you remember the names of any of those medical
- 25 or scientific articles that --

- 1 going to lead off with her or not.
- 2 MS. ROSENFELD: We will. She's prepared.
- 3 MS. CORDRY: And is it okay if Mr. Flynn still
- 4 wants to get on his --
 - MR. GROSSMAN: Okay.
- 6 MS. CORDRY: -- motorcycles journeys, we would,
- 7 so --

5

- 8 MS. HARRIS: Well, actually Mr. Flynn isn't on his
- 9 motorcycle, but we have a, somebody else to sit in for Mr.
- 10 Flynn.
- 11 MR. GROSSMAN: Okay.
- MS. HARRIS: Can I follow-up on that question?
- MR. GROSSMAN: In like Flynn is that --
- MS. HARRIS: Do they expect, how long, do they
- 15 expect to cover anyone else on Monday? That would be
- 16 helpful to know.
- MR. GROSSMAN: All right. Mr. Sheveiko is listed
- 18 as No. 2. Is he, assuming that you finish?
- MS. ROSENFELD: He's not, he's not going to be
- 20 available on Monday.
- MS. CORDRY: I expect it to be a long day. I
- 22 don't know if I would be all day, but we will --
- MR. GROSSMAN: You've only allocated five minutes
- 24 for your testimony.
- MS. CORDRY: I think it will take a little longer

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- A No, not precisely, but I have a list of about 45
- 2 with me. You've seen the rest of reference attached to my
- 3 report. There was only 15 there. I've got a longer list of
- 4 45 with me.
- 5 Q And would that list contain any articles that talk
- 6 about the impact of gasoline stations on the health of
- 7 workers?
- 8 A Or, that or living in proximity to a gas station.
- 9 Q Could you --
- 10 A They're almost all foreign. I can, I remember the
- 11 names of where some of them were performed. I only, I have
- 12 never heard of this, but I've been in Greece before, but
- 13 I've never heard of Ionia, Greece. I've never been to
- 14 Mercia, Spain. I've been to Rio. Brazil is another country
- 15 where the study was done. Windsor, Ontario, to name four.
- 16 Q If you have that list with you, could you just
- 17 give me the name and author of the articles that have that
- 18 analysis?
- 19 A Yes. I may have it here or Jim may.
- 20 (Discussion off the record.)
- MR. GROSSMAN: While he's looking, so I think
- 22 I'll -- who do you anticipate as your first witness on
- 23 Monday? I know you have Ms. Cordry listed for the need
- 24 issue, but I didn't know whether you were actually, since
- 25 she's not going to be out of order any more, whether you're

- 1 than that, though.
 - MR. GROSSMAN: Are you going to testify both as to
- 3 need in your other --
- 4 MS. CORDRY: No.
- 5 MR. GROSSMAN: So you're solely addressing need?
- 6 Okay. And so who do you, Mr. Sheveiko is not going to be --
- 7 Mr. Silverman is listed No. 3.
- 8 MS. ROSENFELD: Yes, generally, we're, the Stop
- 9 Costco Gas Coalition is going to present its witnesses
- 10 followed by Kensington Heights.
- MS. ADELMAN: I don't have the list in front of
- **12** me.

- MS. HARRIS: The list indicates Karen and, Dan,
- 14 and Larry Silverman and Diane Cameron.
- MR. GROSSMAN: Yes, I think that Ms. Cameron from
- 16 her email expects to be testifying on Monday. So I think we
- 17 should let her do that if she's coming in.
- 18 THE WITNESS: Michele, I don't know your last 19 name, I'm sorry.
- 20 MS. ROSENFELD: Rosenfeld.
- 21 THE WITNESS: What?
- MS. ROSENFELD: Rosenfeld.
- THE WITNESS: Rosenfeld, Ms. Rosenfeld, I'm not
- 24 immediately finding it, but I know that I have it. I've got
 - six Panofex folders to go through and I can produce it and

| | Page 218 | | Page 220 |
|--|---|--|--|
| - | | 1 | • |
| 2 | will be happy to. MR. GROSSMAN: Okay. Will you send a copy, email | 2 | actually OSHA regulations or are they just suggested figures from ACGIH? |
| 3 | a copy to counsel? | 3 | THE WITNESS: Well, the column, sir, you'll see |
| 4 | THE WITNESS: To my counsel and they will get it | 4 | that the second column in is labeled OSHA. |
| 5 | to everybody else? | 5 | MR. GROSSMAN: Right. |
| 6 | MR. GROSSMAN: Right. Thank you. All right. | 6 | THE WITNESS: The other columns are not labeled |
| 7 | BY MS. ROSENFELD: | 7 | OSHA. Those are, in fact, one of the columns is from |
| 8 | Q Dr. Chase, would you agree that generally this is | 8 | Germany, but it's often, the German standards are often |
| 9 | an area that is not very well studied? | 9 | cited. |
| 10 | A Do I agree with what? | 10 | MR. GROSSMAN: All right. But when you labeled |
| 11 | MR. GROSSMAN: That this is an area that's not | 11 | it, when the column was labeled OSHA, does that mean that's |
| 12 | very well studied? | 12 | an OSHA regulation, an enforceable regulation? |
| 13 | THE WITNESS: Yes, I agree with that and I noticed | 13 | THE WITNESS: And that's currently in effect. |
| 14 | several of the authors that have, some of whom have already | 14 | MR. GROSSMAN: Okay. |
| 15 | been mentioned, have made the same observation, that it's | 15 | THE WITNESS: It's from the 2013 version of the |
| 16 | not well understood, it's not been well-studied. There's | 16 | manual I described. |
| 17 | contradictory findings. There's a lack of consensus, but | 17 | MR. GROSSMAN: Okay. So we'll call this OSHA |
| 18 | they did the studies anyway. But they pointed out the | 18 | regulations re ambient air quality for workers. |
| 19 | office typically are pretty candid about omitting the | 19 | THE WITNESS: Will I get a copy of that back, Mr. |
| 20 | limitations to the study design and came out | 20 | Grossman? |
| 21 | MS. ROSENFELD: Okay. | 21 | MR. GROSSMAN: I can make a copy for you, sir. |
| 22 | THE WITNESS: in that spirit. | 22 | THE WITNESS: Thank you. |
| 23 | MS. ROSENFELD: Thank you. | 23 | MR. GROSSMAN: Would you remind me when you're |
| 24 | MR. GROSSMAN: Dr. Chase, may I have the list of | 24 | finished today? |
| 25 | the OSHA figures that you just gave? I think you put it | 25 | THE WITNESS: What? |
| | | | |
| | Page 219 | | Page 221 |
| 1 | | 1 | |
| 1 2 | over here and I can put it in the record as an exhibit. | 1 2 | Page 221 MR. GROSSMAN: Would you remind me to do that? THE WITNESS: Okay. |
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25 be Exhibit 287 and are these, by the way, are these figures

 ${f 25}$ day, in the early part of the day you'll see a rise in NO2

Page 222 Page 224

- 1 and then later in the day the NO2 comes down, but the ozone
- 2 goes up. He had testified to it or he mentioned it to me.
- Q And is there a greater health effect, adverse
- 4 health effect if you are breathing multiple types of
- pollutants as opposed to just a single kid of pollutant?
 - A If I understood you right, you're asking me is
- there a greater health effect if you're breathing more of
- 8 these?
- 9 MR. GROSSMAN: Multiple.
- MS. ROSENFELD: For, right. For example --10
- 11 THE WITNESS: Multiple?
- 12 MR. GROSSMAN: Multiple.
- 13 MS. ROSENFELD: -- a combination of NO, the NO2
- 14 ozone and PM2.5?
- 15 THE WITNESS: Not at the levels we're talking
- about, no. 16
- 17 BY MS. ROSENFELD:
- 18 In general? Q
- A In general, it's theoretically possible, but you 19
- 20 would need much higher levels.
- 21 Q What kind of levels would you need?
- 22 Much higher than the standards that EPA had set,
- which are, in turn, are much lower than OSHA standards and
- 24 ACGIH recommended standards.
- 25 Q And is that --

- 1 MR. GROSSMAN: Certainly.
- 2 (Discussion off the record.)
- 3 MR. GROSSMAN: Are you going to have any other
- 4 exhibits, by the way? I just want to know if I should stop
- 5 writing in the margins on the exhibit list and create a new
- 6 page here.
- 7 MS. ROSENFELD: I think a couple.
- 8 MR. GROSSMAN: All right.
- 9 THE WITNESS: You've handed me a document from
- 10 OSHA that talks about nitrogen dioxide.
- MS. ROSENFELD: That's correct. 11
- 12 BY MS. ROSENFELD:
- 13 And on this sheet it says exposure limits and
- health effects and it has the OSHA permissible exposure
- limit. It also talks about National Institute for 15
- Occupational Safety and Health, Recommended Exposure Limit.
- 17 Are you familiar with that organization?
- A Yes, and that's on the exhibit 287 that I handed 18
- Mr. Grossman. 19
- 20 And what role does, the acronym is NIOSH, what
- 21 role does NIOSH have with respect to these exposures?
- Well, what NIOSH does not have is it doesn't have 22
- enforcement authority, but NIOSH does a lot of relevant
- research in the field, the fields of occupational safety and
- health and makes recommendations which are often more
- Page 223
- 1 restrictive than what OSHA already has in place. In this
- case, the differences are between five and one. OSHA has a
- ceiling of five parts per million and NIOSH thinks the
- short-term exposure limit should be one part per million.
- 5 Q And what exposure does the American Conference of
- Governmental Industrial Hygienists recommend? 7
 - A .2 parts per million.
- 8 Q And the very bottom list, is that California's
- 9 OSHA?
- 10 But the ACTIH is different than what you're saying
- from OSHA and NIOSH because that .2 parts per million is an
- eight hour time weighted average, not a ceiling or a short-
- 13 term exposure limit.
- 14 And do you know when that .2 parts per million
- standard was adopted by ACGIH? 15
- Where or when? 16
- When? When? 17
- No. I know it's in the current edition and I have 18
- 19 some older editions back in my office but, no, I do not
- 20 know.
- 21 Q Does 2012 sound right to you? Does 2012 sound
- right to you, that it was adopted in 2012? 22
- 23 MR. GOECKE: I think he just testified he doesn't
- 24 know.
- 25 THE WITNESS: Well --

Do you mean more stringent, that the OZAH is a more stringent standard than --4 THE WITNESS: The EPA --MR. GROSSMAN: Well, the EPA is a more stringent 5 6 standard? THE WITNESS: -- is the most stringent. It's the

MR. GROSSMAN: I heard you say much lower than.

7 8 most protective and I believe that's always been true, but there's a rationale for that because they have a charge of 10 protecting the most vulnerable segments of our population as

11 opposed to healthy workers. But sometimes the differences

are enormous, like a hundred fold or a thousand fold. 12

MS. ROSENFELD: Mr. Grossman. I would like to hand 13 14 out, this is a short printout from the U.S. Department of 15 Labor.

16 MR. GROSSMAN: Thank you.

17 MS. ROSENFELD: And if we could mark these as an 18 exhibit?

(Exhibit No. 288 was marked for

19 MR. GROSSMAN: Okay. This will be Exhibit 288. 20

identification.) 21

22 THE WITNESS: Mr. Grossman --

23 MR. GROSSMAN: Yes. sir? 24 THE WITNESS: -- can I borrow back that exhibit

25 for a moment?

Page 226 Page 228 1 MR. GROSSMAN: I think he can, she can refresh his 1 THE WITNESS: -- are not identical and --2 2 recollection if you can. MR. GROSSMAN: -- identical. 3 (Discussion off the record.) 3 THE WITNESS: -- I was, I was trying to figure out 4 THE WITNESS: That wouldn't surprise me. That's 4 how do I normalize for that? 5 very recent, obviously. It wouldn't surprise me in part 5 MR. GROSSMAN: Right. How do you normalize for because I know that EPA never had a one hour exposure limit 6 that? 7 until 2010, I think April 2010, which was also pretty THE WITNESS: I don't know. recent. And my understanding is that the potential hazards 8 MR. GROSSMAN: Okay. All right. 8

years and that's why we're seeing activity now. 10 11 BY MS. ROSENFELD:

12 Q And do you know when OSHA last updated its NO2 13 standard?

with nitrogen dioxide were not well-recognized until recent

14 A I did, but I don't know if I remember offhand. 15 Would it be fair to say that they've never updated 16 it?

17 A It's conceivable. I don't know. 18 (Discussion off the record.) THE WITNESS: Like I said before, OSHA still 19 20 doesn't have an eight hour standard for NO2.

21 BY MS. ROSENFELD: Q Does the 1970's sound right for the last time OSHA 22

23 updated or implemented an NO2 standard? 24 A I don't know.

1 for OSHA is called short-term, five parts per million.

25 MR. GROSSMAN: You mentioned that the NO2 standard

9 BY MS. ROSENFELD:

10 Q So under OSHA where it says permissible exposure 11 limit, what time frame is that?

12 A For OSHA? For the STEL, which is short-term 13 exposure limit, that's either 15 or 30 minutes. I think

it's 15. But I didn't, I didn't tell you yet, I'll tell

you now, that in addition to that STEL limit, OSHA also has

a, it's called a ceiling limit of nine parts per million and 17 ceiling means not to exceed period.

On this Exhibit 288 that I handed out to you, this 18 19 is a publication, as I understand it, United States

Department of Labor, OSHA. Do they look to NIOSH and the

21 American Conference of Governmental Industrial Hygienists

22 for guidance? Is that why this information would be

contained on their publication?

24 A I've read it and it doesn't disagree with what I

25 handed, the exhibit I handed Dr. Grossman. It's consistent

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Page 227

1 with it, but I'm not sure I understood your question. OSHA,

What's considered short-term? this is an OSHA publication and they're acknowledging that

THE WITNESS: I believe it's 15 minutes, either 15 3 NIOSH and ACGIH have different limits than OSHA currently 4 or 30, not more than 30.

5 MR. GROSSMAN: I was just trying to get some sense of comparison with the EPA one hour standard of 100 parts

per billion, which I guess compares to the OSHA standard of

5,000 parts per billion. Am I --

9 THE WITNESS: The EPA says 100 parts per billion, 10 not --

11 MR. GROSSMAN: Yes.

3

THE WITNESS: -- not one. 12

13 MR. GROSSMAN: Yes, I, yes, 100 parts per billion

14 on the one hour standard, right?

15 THE WITNESS: Correct.

16 MR. GROSSMAN: And that compares to, if I'm 17 reading it correctly, the OSHA standard of five parts per

million, which would, I guess, translate to 5,000 parts per 18

billion, is that correct? 19

20 THE WITNESS: Exactly. In other words, it's a 50fold difference. 21

22 MR. GROSSMAN: Right.

23 THE WITNESS: But the time frames are --

24 MR. GROSSMAN: That's what I was trying to get, an

idea of the time frame, not --

does.

5 Q Does OSHA have certain posting requirements? Does 6 it require that certain pollution levels be posted in work

7 places?

8 A I don't know the details, but I believe they do.

9 Q And do you know if they require any of these non-

OSHA standards to be listed on those publications? 10

11 A If OSHA requires non-OSHA standards to be 12 published? No.

13 Q You don't know or they don't?

14 A I don't know.

15 Q Okay.

16 A I would guess that carbon monoxide would be a good 17 example of something that it would post.

I'm sorry, I --18 Q

A I'm guessing that, I guess I shouldn't be 19

guessing, but I'm guessing carbon monoxide would be a good example of something that should be posted. 21

22 Q Okay.

23 (Discussion off the record.)

24 BY MS. ROSENFELD:

25 Q If they did require it, do you know why they would Page 230 Page 232

- 1 require it?
- 2 A Posting?
- 3 Q Yes.
- 4 A Well, for the example that I gave, carbon monoxide
- 5 can kill you. It's potentially lethal at a high enough
- 6 level in a relatively short period of time. My
- 7 understanding is you can survive exposure to excessive
- 8 levels of carbon monoxide for a few hours, but not much
- 9 longer than that. And then if you're lucky, you lose
- 10 consciousness, you're taken to the emergency room, the
- 11 diagnosis is made, it's pretty easy to make, and you're
- 12 treated appropriately and you can resume a normal life --
- 13 Q And so --
- 14 A -- if you're lucky.
- 15 Q So there would be a benefit to posting the lower
- 16 levels, is that correct?
- 17 A It might be, maybe, yes.
- MS. CORDRY: I'm sorry, were you talking about
- 19 lower level or higher level because I thought you were
- 20 talking about high levels of carbon monoxide?
- THE WITNESS: I don't think I said either.
- 22 MS. CORDRY: Okay.
- 23 THE WITNESS: But I can rephrase.
- MR. GOECKE: That's okay.
- MR. GROSSMAN: Where is this getting us, posting

- 1 Q Notwithstanding the OSHA levels for the one hour
- 2 NO2, workers who are the station attendants at the gas
- 3 station itself, if they are exposed to NO2 at or above the
- 4 EPA levels, would they suffer potentially adverse health
- 5 effects?
- 6 A Well, I don't know what the basis for that
- 7 hypothetical is. My understanding is that the vapor
- 8 recovery systems intended to be used in this Costco gas
- 9 station, as well as modern technology in automobiles, have
- LO reduced NO2 levels drastically and it's extremely unlikely
- 11 that a gas station attendant would be, overcome, pardon me,
- 12 affected by NO2. And I've never heard of a case and I've
- 13 never seen a case, and I've done a lot of work with the
- 14 American Petroleum Institute in years past and I would have
- 15 expected to have seen it in medical journals.
- 16 Q Well, Mr. Sullivan's November 2012 report, his
- 17 updated numbers reflect a potentially as high as 388 one
- 18 hour NO2 levels under one analysis and his high is 414.
- 19 Hypothetically speaking is someone were exposed to those
- 20 levels --
- 21 A 388 didn't come from Sullivan.
- 22 Q I proffer to you that it did and we've discussed
 - 3 it extensively. In his most recent report when he corrected
- 24 his numbers from his November 2012 report, those were the
- 25 numbers that he provided.

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2

10

- 1 and not posting and --
- 2 MS. ROSENFELD: The question is whether or not
- 3 OSHA recognizes these other guidelines. Even though OSHA has
- 4 not yet adopted them, does OSHA recognize them as legitimate
- 5 indicators of unhealthy pollution levels?
- 6 MR. GROSSMAN: And when you say these other
- 7 guidelines, which are you referring to?
- 8 MS. ROSENFELD: I would be referring, for example,
- 9 to the NIOSH limits and the American Conference of
- 10 Governmental Industrial Hygienist levels.
- MR. GROSSMAN: All right.
- 12 (Discussion off the record.)
- THE WITNESS: Ms., can I respond to you, Ms.
- 14 Rosenfeld?
- 15 MS. ROSENFELD: Yes.
- 16 MR. GROSSMAN: Yes.
- THE WITNESS: I would be happy to do so. Some of
- 18 these are standards and some of these are guidelines. The
- 19 OSHA numbers that you see on here are standard. NIOSH is
- 20 not a standard. It's a recommendation. ACGIH is not a
- 21 standard. And the status of CAL OSHA, which is also on this
- 22 table, I think, is a standard. States are permitted to
- 23 adopt stricter exposure limits than OSHA. The same is true
- 24 with respect, with regard to EPA.
- 25 BY MS. ROSENFELD:

- 1 A 388 up to what?
 - MR. GROSSMAN: Yes. Well, to be entirely fair to
- 3 the witness, what Mr. Sullivan testified to was that if you
- 4 didn't use the, his current assumptions, which he used his
- 5 old assumptions which he said were very conservative and not
- 6 as realistic, but you corrected for the math error that he
- 7 had made, then you could get the kinds of figures you are
- 8 talking about.
- 9 MS. ROSENFELD: That's right.
 - MR. GROSSMAN: Right. So --
- 11 MS. ROSENFELD: And --
- MR. GROSSMAN: -- I just wanted to make sure the
- 13 witness understands that.
- 14 THE WITNESS: Well, that number, I believe, came
- 15 from Dr. Cole, but I don't think I'll find it in Dr.
- 16 Sullivan's, David Sullivan's latest report dated August 16,
- 17 2013.
 18 MR. GROSSMAN: No. What he's saying in his latest
 19 report is that he has changed some assumptions that he
- 20 originally made which, but what Ms. Rosenfeld was asking
- you, if you were to apply the original assumptions that Mr.Sullivan made and you would see those levels, maybe a
- 23 clearer way to ask it is just ask about the levels.
- MS. ROSENFELD: It's just a hypothetical.
- MR. GROSSMAN: Just ask, he's the health witness.

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- 1 Forget about Mr. Sullivan.
- MS. ROSENFELD: Sure.
- 3 MR. GROSSMAN: Just ask him if hypothetically
- 4 there were levels of and --
- 5 BY MS. ROSENFELD:
- 6 Q If hypothetically there were levels of 388 NO2
- 7 under EPA's one hour standard, what health effects would you
- 8 expect a person to feel?
- 9 A Oh, I could provide a caveat to my answer, I'm
- 10 going to say none, but I've been practicing occupational
- 11 medicine for 35 years both in a full-time academic setting
- 12 and in an active private practice and I've never seen a
- 13 single patient with such an exposure scenario who was
- 14 symptomatic.
- Q And when EPA imposed the one hour standard, was
- 16 that based on scientific analysis or scientific study that
- 17 you know of?
- 18 A My understanding was that it was based on
- 19 relatively recent recognition that asthmatic children are
- 20 unusually sensitive to short-term, relatively short-term
- 21 exposure to NO2 and prior to 2010, EPA did not have a one
- 22 hour standard for NO2. It had an annual standard and it
- 23 still does, but it didn't have a --
- 24 Q And was that recognized just with respect to
- 25 asthmatic children or would that apply as well to anybody,

- 1 Q Do you know if --
- 2 A EPA chose to use a one hour standard of 100 parts
- 3 per billion and they also have an annual standard of 53
- 4 parts per billion.

8

15

18

- 5 Q And do you know if EPA has established whether
- 6 there's any known, safe thresholds for NO2?
- 7 A Any known what?
 - Q Safe threshold.
- 9 A Yes, I think I'm looking at it on the document
- 10 that, the document that he gave me, Exhibit 288.
- 11 Q Okay. So it's your testimony that --
- 12 A I'm sorry, you said EPA, didn't you?
- 13 Q Yes, I did.
- 14 A Okay. I mis-spoke. I don't mean Exhibit 288.
 - MR. GROSSMAN: 277?
- 16 THE WITNESS: Is that what -- 277.
- 17 MS. CORDRY: 287?
 - MR. GROSSMAN: 277.
- 19 MS. ADELMAN: 277.
- MR. GROSSMAN: That's the NAAQS standard.
- 21 THE COURT: That's the standard. Is he saying
- 22 that that's -- I think the question was a little different,
- 23 but --
- 24 BY MS. ROSENFELD:
- 25 Q Is it your testimony then that the, it's -- you

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- 1 adult or child, with asthma?
- 2 A I'm assuming that could apply to adults with
- 3 chronic bronchitis or emphysema as it, as listed on the CAL
- 4 OSHA, or probably the OSHA document that you gave me.
- 5 Q And what about cardiac problems?
- 6 A I don't see any mention of cardiac here and I'm
- 7 not -- I have not read that elsewhere.
- 8 MS. CORDRY: Can he identify what he means by
- 9 here, what he's looking at when he's saying he doesn't see
- 10 that here?
- MR. GROSSMAN: What are you reading when you say you don't see it here? What are you looking at, an exhibit?
- 13 THE WITNESS: The document that she --
- 14 MS. CORDRY: Oh.
- 15 MR. GROSSMAN: Exhibit 288.
- THE WITNESS: -- showed me. It shows them both right here. Is it 288?
- 18 BY MS. ROSENFELD:
- 19 Q And is that your complete understanding of the
- 20 potential health effects of NO2 at the one hour standard?
- 21 A What is the question?
- 22 Q Is that your total understanding of the potential
- 23 adverse health effects of NO2 at the one hour standard?
- 24 A Yes, it's a respiratory irritant at relatively low
- 25 levels.

- 1 understand the EPA's safe threshold is the one that is set
- 2 for the one hour standard?
- 3 A Yes, and as we discussed before, these were,
- 4 divide that by the 22 experts from all of the country and
- 5 multiple disciplines that form the CASAC Committee.
- 6 Q And in your opinion could an individual suffer
- 7 adverse health effects at something lower than the EPA one
- 8 hour standard?
- 9 A Very unlikely, but there's nothing that -- there's
- 10 nothing that doesn't have a threshold. I think I gave
- 11 sunlight as an example on Monday. I would say the same for
- 12 noise.
- Q Did EPA set the one hour standard due to emergency
- 14 room visits in an area that met the annual standard of 53
- 15 parts per billion?
- 16 A In part. I say only in part because I think some
- 17 of the literature that I've looked at, and I'm sure CASAC
- 18 looked at it far more than I did, mentioned increased
- 19 emergency room visits and hospital admissions for those who
- 20 were exposed at higher levels.
- 21 MR. GROSSMAN: Ms. Rosenfeld, I --
 - MS. ROSENFELD: Higher --
- MR. GROSSMAN: -- we are approaching the time at
- 24 which we have to --
- MS. ROSENFELD: Yes, what time --

| | Page 238 | | Page 240 |
|---|---|---|---|
| 1 | MR. GROSSMAN: quit. | 1 | the levels that OSHA set are levels at which OSHA thinks are |
| 2 | MS. ROSENFELD: is it? | 2 | safe, is that |
| 3 | MR. GROSSMAN: It's now 22 and | 3 | MS. ROSENFELD: That's right. Protecting the |
| 4 | MS. ROSENFELD: Okay. | 4 | health. |
| 5 | MR. GROSSMAN: so what how much more do you | 5 | THE WITNESS: Not across the board. |
| 6 | think you have? | 6 | (Discussion off the record.) |
| 7 | (Discussion off the record.) | 7 | MS. ROSENFELD: Okay. This would be the last |
| 8 | THE WITNESS: Mr. Grossman | 8 | exhibit for the day. |
| 9 | MR. GROSSMAN: Yes, sir? Thank you. | 9 | MR. GROSSMAN: All right. That's 289. |
| 10 | (Discussion off the record.) | 10 | (Exhibit No. 289 was marked for |
| 11 | BY MS. ROSENFELD: | 11 | identification.) |
| 12 | Q So is it your view that OSHA considers its current | 12 | MS. ROSENFELD: And this is a publication from the |
| 13 | pollution levels to be safe? | 13 | United States Department of Labor, October 15, 2010. These |
| 14 | MR. GROSSMAN: I just want to, I want to get some | 14 | are excerpts. |
| 15 | idea of how much more you have. | 15 | BY MS. ROSENFELD: |
| 16 | MS. ROSENFELD: Oh, I'm sorry. I'm sorry. This | 16 | Q Under regulatory activities, it says, |
| 17 | question, one exhibit and a couple of follow-up questions. | 17 | "In addition, we are making progress on |
| 18 | MR. GROSSMAN: Three more questions? All right. | 18 | finding a new way forward to address our |
| 19 | Well, I'll if we can finish this witness, I'll | 19 | seriously outdated, permissible exposure |
| 20 | MS. ROSENFELD: Yes. That's the whole | 20 | limits, PEL's. As many of you are no doubt |
| 21 | MR. GROSSMAN: be a little late if necessary. | 21 | aware, many of these standard were adopted in |
| 22 | So come on, let's | 22 | the 1970's based on science from the 1950's |
| 23 | THE WITNESS: My answer is not across the board. | 23 | and '60's. Science has moved on and we now |
| 24 | A good example would be silica, silica exposure causes death | 24 | know that significant dangers exist at lower |
| 25 | and disease in thousands of people. | 25 | exposure levels than was thought almost half |
| | Page 239 | | Page 241 |
| 1 | BY MS. ROSENFELD: | 1 | a century ago." |
| 2 | Q I'm really, my question really goes to the | 2 | Would you agree that the exposure limits set by |
| 3 | pollutants that are at issue in this case, the NO2, the | 3 | OSHA, in fact, are not sufficiently protective of human |
| _ | the DMO 5 | | com, in the state of the state |
| 4 | ozone, the PM2.5. | 4 | health? |
| 5 | MR. GROSSMAN: So what's your question, that's | 4 5 | |
| 5 | | _ | health? |
| 5 | MR. GROSSMAN: So what's your question, that's | 5 | health? A Not across the board, which is what |
| 5 6 | MR. GROSSMAN: So what's your question, that's your question, ma'am? BY MS. ROSENFELD: Q Is it your opinion that OSHA considers its | 5 | health? A Not across the board, which is what Q What about for A which is the same answer I gave you before. Q What about for NO2? |
| 5 6 7 | MR. GROSSMAN: So what's your question, that's your question, ma'am? BY MS. ROSENFELD: Q Is it your opinion that OSHA considers its exposure limits to be safe limits? | 5 6 7 | health? A Not across the board, which is what Q What about for A which is the same answer I gave you before. Q What about for NO2? A I don't, I don't know. I already testified that |
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Page 242 Page 244 1 witness. Can you send to me the information of whoever it 1 know she's prepared. The question is has she redone her 2 is who is going to be following Karen's lead testimony? schedule because of what I said. If that's the case, then 3 MR. GROSSMAN: What do you mean following? I'm going to try for Patton Malruvey (phonetic sp.) because 4 MS. CORDRY: No. Larry Silverman will get, he will not be present and neither MS. HARRIS: Dr. Chase is our last witness. will Dan Sheveiko. 5 6 MS. CORDRY: No, no, no. 6 MS. HARRIS: Okay. So it will be Ms. Cordry and MS. ROSENFELD: No, no, no, I don't mean 7 then either Diane Cameron or Pat Malruvey? following. Who is potentially the rebuttal witness for 8 MS. ADELMAN: Pat Malruvey, right. 8 Karen's lead testimony? If you could just send me whatever 9 MS. HARRIS: Okay. And then if by the end of --10 information? 10 that's fine. Okav. 11 MS. CORDRY: Who is critiquing or -- who is going 11 MR. SILVERMAN: When is our next meeting after the 12 to be sitting there? Who is going to be the --12 23rd? 13 MS. ROSENFELD: Is it Mr. Flynn? 13 MR. GROSSMAN: You might think of having still one 14 MS. CORDRY: Who is going to be Mr. Flynn? additional witness because it's quite possible that we'll 15 MS. HARRIS: Joe Cronin will be sitting there, but get to a third witness. We sometimes get to all the when it comes time to put in our rebuttal witnesses, it will witnesses in one day in some hearings. 16 be Mr. Flynn if necessary. 17 17 MS. HARRIS: Sometimes we finish the case in one 18 MS. ROSENFELD: But he's gone for three months. 18 day. MR. GROSSMAN: So -- right. It does happen. 19 MS. ADELMAN: But he's gone. 19 20 MS. CORDRY: I wish I could be gone for three 20 (Discussion off the record.) 21 months. 21 MS. CORDRY: Well, we'll see what we can do. MS. HARRIS: I know. Well --MS. HARRIS: Well --22 22 23 MR. SILVERMAN: We'll be here. We'll be here. 23 MR. GROSSMAN: Well --

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prepare.

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MS. HARRIS: Mr. Grossman --
 1
          MR. GROSSMAN: Yes?
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 3
          MS. HARRIS: -- we never finished the conversation
 4 about the witness list order, which is at the last meeting,
   or one of the last hearings, we were, Ms. Rosenfeld
   indicated that this is the order and now she's somewhat
    suggested it may not be. And so for our preparation
 8
    purposes, it would be helpful to know the order.
 9
          MR. GROSSMAN: All right. Well, we are certainly
    going to start out with Ms. Cordry and she says that she's
    going to take more than the five minutes I allotted her. So
   when we finish with her, we're going to have -- Ms. Cameron,
13
    in her email, indicated she expects to testify, so we know
14
    that Ms. Cameron --
15
          MS. ADELMAN: Excuse me, Mr. Grossman. I did
16
   email her on -- where are we today?
17
          MR. SILVERMAN: Friday.
18
          MR. GROSSMAN: What's today? Friday.
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MS. ADELMAN: And we're on Wednesday, could say it

didn't like she would be on on the third. So that's a

MR. GROSSMAN: Thank you.

little layer of complexity which I wasn't assuming, I guess,

MS. ADELMAN: And I'll let you know. If Ms.

Cameron, as she has submitted her graphic, if she is -- I

MS. HARRIS: Mr. Grossman --

MR. GROSSMAN: Mercy me. All right.

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in the office at home.

Friday and we're talking about Monday. MS. CORDRY: Well, that's -- I've got a lot to 4 5 say. 6 MS. HARRIS: How long do you expect your direct 7 testimony to be? 8 MS. CORDRY: At least the whole morning, maybe 9 more. 10 MS. ADELMAN: So if I understand correctly, and I think the maximum amount of time that would be available 12 after Ms. Cordry is finished is two hours, is that fair to 13 say? 14 MS. HARRIS: Repeat that please? 15 MR. GROSSMAN: I guess it depends on the length of 16 the cross-examination for that. You know, I'm not sure how 17 long that would be. So --

MS. HARRIS: -- we need to know.

MR. GOECKE: We need to know because we have to

MR. GROSSMAN: Well, they need to know. It's

MR. GROSSMAN: So I would like to have just one additional witness. Well, hopefully, Ms. Cameron will be first and so we'll have Cameron and Malruvey and then that probably ought to do it. And I think what we would do is try to adjust the testimony, the schedule around Ms. Cameron

24 if she's here. Is that agreeable to everybody?

MS. ADELMAN: Okay.

MS. HARRIS: Yes.

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- 1 MR. GROSSMAN: I don't think she should take that 2 long.
- 3 MS. HARRIS: Yes. In fact, if she's here, she
- 4 could go first and the same for Ms. -- yes.
- 5 MR. GROSSMAN: Is that agreeable --
- 6 MS. HARRIS: And Mr. Malruvey.
- 7 MR. GROSSMAN: -- Ms. Cordry?
- 8 MS. CORDRY: First, you mean before?
- 9 MR. GROSSMAN: It may even be before Ms. Cordry
- 10 just so that -- because it's somebody who is not going to be
- 11 here on a regular basis. That's all. Well, I'll let you
- 12 decide that and you can have, you can do it either way, but
- 13 I was just trying to be, for her convenience, okay?
- 14 (Discussion off the record.)
- MS. CORDRY: I think we would prefer going the
- 16 other way because there was sort of a flow to the way --
- 17 MR. GROSSMAN: Okay.
- 18 MS. CORDRY: -- we were going.
- MR. GROSSMAN: All right. Well, we'll let you
- 20 flow then. All right then, if there's nothing else, we are
- 21 adjourned. We'll see you Monday morning and start out with
- 22 Ms. Cordry.
- MS. ROSENFELD: We did finish two witnesses today.
- MR. GROSSMAN: That was excellent. I want to
- 25 praise everybody involved.

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- 1 MR. SILVERMAN: Thank you.
- MR. GOECKE: Thank you. Have a good weekend.
- 3 MS. HARRIS: Thank you.
- 4 (Whereupon, at 4:52 p.m., the hearing was
- 5 adjourned.)

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. Digitally signed by Tracy M. Hahn

ELECTRONIC CERTIFICATE

DEPOSITION SERVICES, INC., hereby certifies that the attached pages represent an accurate transcript of the electronic sound recording of the proceedings before the Office of Zoning and Administrative Hearings in the matter of:

Petition of Costco Wholesale Corporation

Local Map Amendment No. S-2863

Office of Zoning and Administration Hearings No. 13-12

By:

Tracy M. Hahn, Transcriber

| | 444 40 440 44 45 44 | | 170 11 170 10 | 00.15.17.00.7.00.00 |
|---------------------------|-----------------------------|---|--|------------------------------|
| | 141:19;148:11;167:16, | adding (5) | 158:11;159:10; | 92:16,17;93:5;99:23; |
| \$ | 17;177:5;188:10,15; | 20:4;22:8;47:23; | 160:24;161:5;162:1, | 106:16,25;107:6; |
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