

1           BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

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4       WALLACE PHARMACEUTICALS,

5           Petitioner,

6       vs.

PCB No.: 02-207

7       ILLINOIS ENVIRONMENTAL

(Air-Variance)

8       PROTECTION AGENCY,

9           Respondent.

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14           Proceedings held on July 16, 2002 at 10:00 a.m., at the

15       Macon County Courthouse, 253 East Wood Street, Courtroom 5C,

16       Decatur, Illinois, before Hearing Officer Steven C. Langhoff.

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21           Reported by: Darlene M. Niemeyer, CSR, RPR  
                          CSR License No.: 084-003677

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KEEFE REPORTING COMPANY

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11 North 44th Street

Belleville, IL 62226

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A P P E A R A N C E S

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

BY: Charles E. Matoesian  
Assistant Counsel  
Division of Legal Counsel  
1021 North Grand Avenue East  
Springfield, Illinois 62794-9276  
On behalf of the Illinois EPA.

HODGE DWYER ZEMAN

BY: N. LaDonna Driver  
Attorney at Law  
3150 Roland Avenue  
Springfield, Illinois 62705  
On behalf of Wallace Pharmaceuticals.

Also present from the Board Staff:

Alisa Liu  
William Murphy

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E X H I B I T S

NUMBER	MARKED FOR I.D.	ENTERED
Petitioner's Exhibit A	13	13

(Petitioner's Exhibit A was retained by Hearing Officer Steven C. Langhoff.)

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P R O C E E D I N G S

(July 16, 2002; 10:00 a.m.)

HEARING OFFICER LANGHOFF: Good morning, everyone. My name is Steven Langhoff. I am the Pollution Control Board Hearing Officer, who has been assigned to this matter and who will be holding this hearing today. This is PCB 02-207, Wallace Pharmaceuticals, Inc., versus Illinois Environmental Protection Agency. For the record, it is Tuesday, July 16th of 2002, and we are beginning at 10:00 a.m.

I want to note for the record that there are two members of the public present -- make that three members of the public present. Members of the public are encouraged and allowed to provide public comment, if they so choose.

I want to welcome Attorney William Murphy and also Alisa Liu from the Board's Technical Unit from Chicago. They will be sitting in for today's hearing.

I will remind the parties that Board Rules allow the Board to ask questions of witnesses who are on the stand and testifying.

On May 20th of 2002, Wallace Pharmaceuticals filed a Petition with the Board seeking a Variance from the volatile organic material, or VOM, V-O-M, emission reduction requirements of 35 Illinois Administrative Code, Part 215, Subpart T. Wallace requested a Variance of the regulations from July 1st of 2002

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1 until December 31st of 2006.

2 On June 6th of 2002 the Board accepted this matter for  
3 hearing. On June 26th of 2002 the Agency filed its  
4 recommendation to the Variance Petition. Ms. Driver, attorney  
5 for Wallace Pharmaceuticals, will more fully explain the contents  
6 of the Variance Petition today.

7 I want to take a brief moment to let you know what is going  
8 to happen today and what is going to happen after the proceeding  
9 today. You should know that it is the Pollution Control Board,  
10 and not me, that will decide this case. My job as a Hearing  
11 Officer requires that I conduct this hearing in a neutral and  
12 orderly manner, so that the Board has a clear record of the  
13 proceedings here today on which to base its decision.

14 Please feel free to call me either Mr. Hearing Officer or  
15 Mr. Langhoff.

16 It is my responsibility to assess the credibility of any  
17 witnesses giving testimony today, and I will do so on the record  
18 at the conclusion of the proceedings. We will begin with opening  
19 statements from both parties and then we will proceed with  
20 Wallace's case. I will then allow any members of the public to  
21 participate in the hearing that wish to do so. We will then set  
22 a briefing schedule on the record and a date for the receipt of  
23 public comment at the Board's office.

24 The Board's Procedural Rules and the Act provide that

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1 members of the public shall be allowed to speak or submit written  
2 statements at hearing. Any person offering such testimony today  
3 shall be subject to cross-examination by both of the parties.  
4 Any such statements offered by members of the public must be  
5 relevant to the case at hand. I will call for any statements  
6 from members of the public later in the proceedings.

7 This hearing was noticed pursuant to the Act and the  
8 Board's Rules and Regulations and will be conducted pursuant to  
9 Sections 101.600 through 101.632 and Part 104 of the Board's  
10 Procedural Rules.

11 At this time I will ask the parties to make their  
12 appearances on the record. For the Petitioner?

13 MS. DRIVER: LaDonna Driver, Counsel for Wallace  
14 Pharmaceuticals, Petitioner.

15 HEARING OFFICER LANGHOFF: Thank you, Ms. Driver. For the  
16 Agency?

17 MR. MATOESIAN: Charles Matoesian, Counsel for the Illinois  
18 Environmental Protection Agency.

19 HEARING OFFICER LANGHOFF: Thank you, Mr. Matoesian. Do we  
20 have any preliminary matters that need to be discussed on the  
21 record?

22 MR. MATOESIAN: No.

23 MS. DRIVER: No.

24 HEARING OFFICER LANGHOFF: Okay. Thank you. Would Ms.

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1 Driver like to give a brief opening statement on behalf of her  
2 client?

3 MS. DRIVER: Thank you. Again, I am LaDonna Driver,  
4 Counsel for Wallace Pharmaceuticals. We are here today on  
5 Wallace's Petition for Variance from the emission control  
6 requirements of 35 Illinois Administrative Code, Part 215,  
7 Subpart T. Specifically, Wallace is seeking relief from the  
8 control requirements for five dryers at its facility here in  
9 Decatur.

10 We are going to be presenting two witnesses today. First  
11 is Mr. George Brown, who is immediately to my right. He is  
12 appearing on behalf of the company. He will testify generally  
13 regarding the facility and the manufacturing process at issue  
14 here, and he will specifically describe the dryers and how VOM  
15 emissions occur from them.

16 Mr. Brown will also then testify regarding the specific  
17 Variance relief we are seeking. He will describe the company's  
18 plan to upgrade its facility here in Decatur, and talk a bit  
19 about the increased production that the facility is expecting,  
20 both in the short-term and possibly in the long-term. Mr. Brown  
21 will explain that this production increase will result in at  
22 least a temporary increase, as well, in VOM emissions and also in  
23 the short-term above the thresholds for emission control under  
24 Subpart T.

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1           Mr. Brown will also describe the potential options for  
2 dealing with those emissions increases and the company's  
3 preference on pursuit of those options. The first preference of  
4 the company is to be able to eliminate VOM solvent from its  
5 process altogether. If that is not successful, the company would  
6 then pursue a substitution for this VOM solvent in its process in  
7 an effort to reduce or eliminate VOM emissions. As a last  
8 resort, would look to installing control technology to deal with  
9 the VOM emissions from the process.

10           Mr. Brown will describe the efforts and the time and the  
11 costs that will be necessary to look into all of those options  
12 during the course of the Variance. His testimony will  
13 demonstrate that the facility simply cannot comply with Subpart  
14 T's emission control requirements, at least in the short-term,  
15 without ceasing production. He will describe how such a halt to  
16 production would result in an arbitrary and unreasonable  
17 hardship, not only on the company, but on the public, who would  
18 have reduced access to medicines.

19           Then Mr. Brown will testify concerning the compliance  
20 schedule that we have proposed for the Variance and resolved with  
21 the Illinois Environmental Protection Agency, as well. This  
22 schedule has been adjusted since we filed our initial Petition to  
23 address some concerns raised by the IEPA, and we will be talking  
24 a bit about that adjustment in the schedule as well.

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1           Specifically the change is that our commitment to assess  
2 potential control technologies has been moved forward in the  
3 schedule now. When we originally proposed the schedule, it was  
4 going to occur at the third stage, the pilot scale testing, of  
5 the non VOM solvent or the solvent elimination. We have now  
6 moved that forward up to the bench scale phase of that process.

7           And, again, Mr. Brown will explain that the company wants  
8 to devote its resources up front to finding a change to its  
9 process that will eliminate solvent altogether in the future.

10           Finally, Mr. Brown will be testifying regarding the VOM  
11 emissions that will be occurring from the process during the  
12 Variance and the limits that the company has proposed to limit  
13 itself for VOM emissions during the course of the Variance. And  
14 he will also clarify what, exactly, the company has on site that  
15 is subject to Subpart T, to clear up some of the questions that  
16 have been raised about that.

17           Our other witness, sitting two chairs over from me, is Mr.  
18 Dan Goodwin. He is Wallace Pharmaceuticals' consultant. He will  
19 testify regarding the efforts that he has undertaken to study the  
20 potential control options that are there to control VOM emissions  
21 from the process. He will talk about the different options that  
22 he has analyzed for the facility and the technical feasibility  
23 issues with each option, and he will also testify regarding the  
24 cost issues associated with the chosen method of control.

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1           Finally, Mr. Goodwin will testify regarding the  
2 environmental impact of the VOM emissions that will be occurring  
3 during the term of the Variance.

4           With this testimony and the information contained in our  
5 Petition, it will be clear that a Variance should be granted from  
6 the emission control requirements of Subpart T for the dryers at  
7 our Decatur facility. The Illinois EPA has recommended that the  
8 Variance be granted. And on behalf of the company we express our  
9 appreciation to the Illinois EPA for working with us and  
10 recommending suggestions to us for this Variance, and we  
11 appreciate their support.

12           We will be happy to answer any questions that the Agency,  
13 the Board, or the public may have at the conclusion of our  
14 testimony. Thank you.

15           HEARING OFFICER LANGHOFF: Thank you, Ms. Driver. Mr.  
16 Matoesian, do you have an opening statement?

17           MR. MATOESIAN: Your Honor, or Mr. Langhoff, again, my name  
18 is Charles Matoesian, for the Illinois Environmental Protection  
19 Agency. We will not be presenting any testimony today, as we  
20 filed a recommendation recommending that the Board grant this  
21 proposal for a Variance.

22           I would state, though, that with me today is Mr. Joe Uy,  
23 who is an Environmental Engineer in the Air Quality Planning  
24 Section of the Agency. He will be here to help answer any

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1 questions that the Board or the public may have. That is all.

2 HEARING OFFICER LANGHOFF: Thank you. Ms. Driver, before  
3 we get to your first witness, we need to address the issue of the  
4 waiver of the decision deadline.

5 MS. DRIVER: Yes.

6 HEARING OFFICER LANGHOFF: Okay. Go ahead and make your  
7 waiver.

8 MS. DRIVER: We will be following up with a written waiver  
9 to this effect, but I believe currently we have a decision  
10 deadline of September 17th. And the company, Wallace  
11 Pharmaceuticals, has agreed to move that deadline back to the end  
12 of September to allow for a Board decision to be made on  
13 September 19th at its regularly scheduled meeting.

14 HEARING OFFICER LANGHOFF: Okay. Thank you. Would you  
15 call your first witness.

16 MS. DRIVER: Sure. Before I do that, Mr. Hearing Officer,  
17 I would just like to put in Petitioner's Exhibit A, which is just  
18 a copy of the Variance Petition that was filed with the Board on  
19 May 17th.

20 HEARING OFFICER LANGHOFF: All right. Thank you. Any  
21 objections?

22 MR. MATOESIAN: No.

23 HEARING OFFICER LANGHOFF: All right. Petitioner's Exhibit  
24 A is admitted, which is the original Petition that was filed.

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1 (Whereupon said document was duly marked for purposes of  
2 identification as Petitioner's Exhibit A as of this date and  
3 admitted into evidence.)

4 MS. DRIVER: Would you like to look at --

5 MS. BARBARA RIDDLE: No, I don't know anything about that.

6 MS. DRIVER: Okay.

7 MS. BARBARA RIDDLE: I have had no dealings with it, to  
8 this point.

9 MS. DRIVER: Okay.

10 HEARING OFFICER LANGHOFF: Go ahead.

11 MS. DRIVER: The Petitioner calls George Brown.

12 HEARING OFFICER LANGHOFF: We will have Mr. Brown just stay  
13 where you are.

14 Would you swear the witness, please.

15 (Whereupon the witness was sworn by the Notary Public.)

16 G E O R G E R. B R O W N,

17 having been first duly sworn by the Notary Public, saith as  
18 follows:

19 DIRECT EXAMINATION

20 BY MS. DRIVER:

21 Q. Please state your name again just for the record.

22 A. George R. Brown.

23 Q. Who is your employer, Mr. Brown?

24 A. MedPointe, Incorporated.

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1 Q. And what is your position at MedPointe?

2 A. Director of Project Engineering.

3 Q. What does that position involve?

4 A. Basically I oversee all capital or large expense  
5 projects, engineering type projects for the corporation.

6 Q. And how is MedPointe related to the Wallace  
7 Pharmaceutical facility here in Decatur?

8 A. At the end of September of 2001, September 28th,  
9 precisely, Carter-Wallace, the former owner of Wallace  
10 Pharmaceuticals, what is now Wallace Pharmaceuticals, sold  
11 itself. It sold itself to two parties. The consumer products  
12 business was sold to Church & Deloitte. The pharmaceutical  
13 business was sold to MedPointe. Immediately after that sale,  
14 MedPointe changed the name to Wallace Pharmaceuticals for the  
15 operation in Decatur. Prior to that it was called Wallace  
16 Laboratories.

17 Q. And were you employed by Carter-Wallace prior to this  
18 transaction with MedPointe?

19 A. Yes.

20 Q. What were your duties for Carter-Wallace?

21 A. Well, I was employed by Carter-Wallace for 17 years  
22 prior to the transaction. And the last seven years was basically  
23 essentially the same duties that I have now.

24 Prior to that, I was a maintenance manager -- or an

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1 engineering manager for a facility in Trenton, New Jersey, a  
2 manufacturing facility. Prior to that I was a maintenance  
3 manager for an operation in another facility in New Jersey.

4 Q. What is your educational background?

5 A. I have a Bachelor's in Mechanical Engineering from  
6 Drexel University in Philadelphia.

7 Q. Do you have any other engineering experience prior to  
8 your education?

9 A. Prior to my education I served in the Marine Corps for  
10 ten years in the engineering field, in different aspects of the  
11 engineering field.

12 Q. And are you a member of any professional organizations?

13 A. I have a current membership right now in the ISPE, the  
14 International Society of Pharmaceutical Engineers, and BOCA,  
15 Building Officials and Code. Previously I have been involved  
16 with the ASME, American Society of Mechanical Engineers, and the  
17 AIPE, American Institute of Plant Engineers, and I was the  
18 Chapter President of the Northwest Indiana Chapter for about a  
19 year and a half in the early 1980s.

20 Q. Okay. Let's talk now about the Wallace Pharmaceuticals  
21 facility here in Decatur. Can you just describe for us its  
22 general location and just a little bit about the facility itself?

23 A. The facility is very, very close to this courthouse. It  
24 is off of Eldorado Street, which is a main east-west boulevard

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1 through the city, U.S. 36. It is at the intersection of Eldorado  
2 and North Morgan. I believe the street address is North Morgan.  
3 It is an older industrial, commercial neighborhood, basically.  
4 The building goes right up to the -- goes right up to the  
5 sidewalk and a curb on two sides.

6 Q. How many employees do you have at the facility?

7 A. Presently we have around 105 permanent employees, and  
8 for the last nine months or so we have been employing about 20  
9 temporary employees.

10 Q. What does the company manufacture at this facility?

11 A. We manufacture liquid and oral -- or oral dosage  
12 products for cough and cold remedies and central nervous system  
13 remedies. Primarily by oral we have liquid dosage, nasal sprays  
14 and tablets, solid dosages tablets.

15 Q. As you know, today, Mr. Brown, we are here talking about  
16 the emission control rules regarding volatile organic material,  
17 or VOM for short. What products does the Decatur facility here  
18 make that involve or produce VOM emissions?

19 A. Some of the cough and cold solid dosage products or  
20 tablet products use a VOM, ethanol precisely, which is commonly  
21 used in the pharmaceutical industry to wet the dry ingredients  
22 prior to blending the ingredients together before the tablet is  
23 compressed. None of our other processes use that.

24 Q. Okay. Then let's confine the remainder of our

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1    discission just to those handful of tablet products that involve  
2    this ethanol as a wetting agent and subsequently produce VOM  
3    emissions.

4            If you could, describe for us how -- what is it in the  
5    process that actually generates the VOM emissions?

6            A.   Well, when we make a tablet it starts out very much like  
7    making a cake.  We blend the dry products together and we mix  
8    them up.  And then we basically compress them through a press  
9    into this tablet.  This mixing often requires a wetting agent.  
10   There are dry granulation processes that there is no wetting  
11   agent involved.  You know, we have chosen, for reasons I don't  
12   really understand or know, to use a wetting agent.  Water is  
13   often used as a wetting agent.  If that is not an adequate  
14   wetting agent, then we -- the industry goes into these different  
15   solvents.

16           That binds the product together.  And then after the  
17   product is suitably mixed, we dry it before the compression.  And  
18   the drying is done on what we call tray drawers in the industry.  
19   They are metal trays about the size of this table top with  
20   perforated holes, and they lay a piece of photo paper on top of  
21   that and then just spread the damp powder out on top of that  
22   tray.

23           And they go into a rack of about 25 trays in each rack,  
24   which is tall.  It is about six foot tall.  And that goes into a

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1 chamber and the hot air is blown up through that. And then a  
2 percentage is released out into the atmosphere.

3 That is where the water is either -- the wetting agent is  
4 flashed off, because water is blown away or the solvent is also  
5 blown away and mixed into the air stream and out the exhaust  
6 vent.

7 Q. So the VOM emissions from the process are actually  
8 occurring at the dryers?

9 A. At the dryers.

10 Q. How many dryers do we have involved in this particular  
11 VOM associated process?

12 A. Well, we have -- the plant has five dryers, and there  
13 are a mixture of dryers. Four of them are very similar, but two  
14 of those are single-rack dryers and two are double-rack dryers,  
15 where we can put two of these racks in. And then we have a fifth  
16 dryer made by another manufacturer that is newer that will hold  
17 four racks. Okay.

18 But the way we have stayed within the 100 pound per day  
19 limit is by making our batches in subbatches, either three or  
20 four subbatches, depending upon the total quantity of solvent  
21 that is used. Then we dry these subbatches individually in each  
22 oven. Usually one rack will get us to that 100 pound limit or  
23 close to that 100 pound limit. So we generally just use the  
24 single or double rack ovens to dry these subbatches. We never

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1 use the four rack oven, because it just is not efficient to run  
2 that oven with just one rack in it.

3 Q. And just clarify for the record, when you referenced  
4 this 100 pound limit, what, exactly, are you referring to there?

5 A. Well, Subpart T limitations are 100 pounds per day, or  
6 two and a half tons per year per source.

7 Q. What happens if you cross that line, over 100 pounds per  
8 day, or two and a half tons per year of VOM emissions, what would  
9 Subpart T require?

10 A. Well, Subpart T would then require us to put in a  
11 pollution control device and reduce the emissions to 90 percent  
12 of that.

13 Q. Okay. So what you are saying is that the company has  
14 handled its process in the past such with the number of racks it  
15 puts in a dryer that it would never hit the 100 pound per day VOM  
16 threshold for Subpart T?

17 A. By only using the four what we call Ross dryers, made by  
18 a company called Ross, so we call them Ross dryers, they are the  
19 single and doubles. By confining our operation to those four  
20 ovens, we stay within the 100 pounds per day limit.

21 Q. And, similarly, have any of the ovens ever come up to  
22 the two and a half ton per year VOM emission limit?

23 A. No. Early on in this project I reviewed the emissions.  
24 We keep a daily -- the pharmaceutical industry requires -- most

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1 of the finished pharmaceutical industry is a batch industry.  
2 There is very little continuous manufacturing going on. They  
3 require what they call a batch record. And that's a complete  
4 recipe of how that batch is made and how everything is weighed in  
5 and everything has to be signed off and has to be witnessed. Two  
6 people have to be involved in putting the ingredients into the  
7 batch, and all of the elements. So we went back and reviewed all  
8 the batch records from 1999, 2000, and 2001. In 1999 we produced  
9 or emitted a little under one ton per dryer.

10 Q. For the year?

11 A. For the year, for the entire year. And then in 2000,  
12 that was just a little bit over a ton. And in 2001 it went up to  
13 just around two tons.

14 Q. Okay.

15 A. So we have never been, you know, close to the 2.5, but  
16 we felt, based on what we did last year, in 2001, and what the  
17 new management in the new company was asking us to produce in  
18 2002, that we could have a problem this year and, hence, that's  
19 why we are here.

20 Q. Okay. Let's talk about that a little bit at this time.  
21 You were talking about the fact that in 2001 the emissions got up  
22 to about two tons per year per unit. And then you said the  
23 company was looking at what was going to be coming on the  
24 horizon, and wanted to come in for a Variance.

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1           Talk a little bit about what is behind the thinking there  
2 about what is going to be happening as far as an increase in  
3 emissions in the next couple of years?

4           A.   Well, what happened in I guess back in 2000, we started  
5 to look for -- we are under significant marketplace competition  
6 from the generic drug manufacturers. So we started to look at  
7 the things that we could do to our products to get some  
8 additional patent protection and to keep the generic companies at  
9 bay a little bit. So we looked at some variations of our  
10 existing formulations and basically introduced new products.

11           As we did that, we continued to use the ethanol in these  
12 products. So one of the reasons for the spike in 2001 was a lot  
13 of development work on new products was being done. And then we  
14 actually introduced a couple of new products. And when we  
15 introduce a new product, we have to build a substantial what we  
16 call pipeline inventory. It is important that we have -- that  
17 all of the wholesalers and all the chain drug stores have this  
18 material available so that when we introduce it to the physicians  
19 and the physicians begin to write their prescriptions, it is  
20 available to the public.

21           So that pipeline build is what really amounts to about six  
22 months worth of inventory that, you know, we have to manufacture  
23 in a compressed period of time and get spread out. So when I say  
24 six months worth, six months worth of inventory that we would

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1 normally keep in our factory to back up the industry to get that  
2 spread out.

3           So that is what was going on in 2001. We saw a  
4 continuation of that coming in 2002 with the new company. The  
5 new company has already, at the beginning of the year, had made a  
6 goal of increasing the sales force by about 70 percent. That's  
7 basically in place. These people have now been hired and have  
8 been trained and there has been, you know, some turnover and that  
9 sort of stuff, but they are basically out there. And we are  
10 starting to feel a little bit of the new business that they are  
11 generating.

12           Most of that -- that increase in sales force was basically  
13 designed to support the liquid products more than the tablet  
14 products. But we are calling on more physicians and we are  
15 talking about all of our products when we talk to the physicians,  
16 and we are feeling an overall increase in sales. And that was  
17 one of MedPointe's goals.

18           Then we also -- what MedPointe did, when they did their due  
19 diligence in reviewing the facilities and in reviewing the  
20 businesses of Carter-Wallace, they looked at the manufacturing  
21 facility in Decatur, which was essentially very old. I think  
22 pharmaceuticals have been manufactured there since the 1950s.  
23 Carter-Wallace purchased it in 1979. In -- or excuse me. Yes,  
24 1979.

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1           In 1987 Carter-Wallace expanded it in the liquids area and  
2 the warehouse area. But the tablet portion of it has been pretty  
3 much left alone. Through that due diligence we uncovered that we  
4 are really not up to current standards, so to speak, for the FDA  
5 in our ventilating -- in our heating and ventilation systems in  
6 this tablet area.

7           So we looked at a major project to revamp that entire  
8 system, which would require about 12 weeks of down time to  
9 physically do the work. So that meant another inventory build to  
10 cover us through that down time period. So those are the main  
11 contributing factors, the increased sales, increased new  
12 products, and then the required inventory build for the down  
13 time.

14          Q.   When do you anticipate having the plant -- this part of  
15 it, the tablet area part of the plant, shut down for these  
16 improvements to come up to the FDA standards? When do you  
17 anticipate that shut down is going to begin?

18          A.   Presently it is scheduled to happen in January.

19          Q.   And that has been moved back a little bit?

20          A.   That has been moved back. Originally it was supposed to  
21 be going on within the end of this month we would start, and then  
22 we pushed it back to October. And then about a month ago we  
23 pushed it back to January. We will be starting our inventory  
24 build in the fourth quarter for that to take place.

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1 Q. So then production would have to increase, as you just  
2 said, in the fourth quarter to build inventory in anticipation of  
3 the plant shut down in January?

4 A. Yes.

5 Q. Because of that increase in production, what will that  
6 mean for the facility with respect to the emission control  
7 thresholds for Subpart T?

8 A. That will push us later this year into a situation where  
9 we exceed the limits of Subpart T. So without this Variance we  
10 would have to just basically change our plans and shut down and  
11 possibly lay people off.

12 Q. Okay. In lieu of just shutting down production in  
13 October or whatever in the fourth quarter, you get to that point  
14 where you hit these emission thresholds, couldn't you just change  
15 your process to eliminate the VOM solvent and keep producing  
16 through the end of the year?

17 A. No. Some of our products are what we call an NDA  
18 product, which means back in the -- I am not exactly sure when,  
19 but back 20 or 30 years ago the FDA created a situation or  
20 created a ruling that any new drug that goes on the market has to  
21 have a new drug application and is subject to FDA review before  
22 it can be placed on the market.

23 So the drugs that we have that are in that category, since  
24 they have been fully reviewed by the FDA and are considered --

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1 for some reason we call them an NDA drug, but they are the drugs  
2 that come under that ruling. Any change that we make to that  
3 product, if we change the formulation, if we change the way we  
4 make the product, you know, specifically a process change, we  
5 have to review that with the FDA. And that requires -- that can  
6 take -- these products are not real critical products, you know,  
7 not like cancer medicine or something that is really critical,  
8 you know, to the public, so it takes a little lower priority with  
9 the FDA. And we feel that review would take about a year to a  
10 year and a half, just for the FDA to review.

11 Q. For each product?

12 A. For each product. And then we have -- fortunately at  
13 this plant we have quite a few products that are not NDA  
14 products. They are older products that were grandfathered before  
15 this provision was made with the FDA. And so they don't require  
16 the FDA review.

17 However, both the older products and the NDA products  
18 require that you go through a methodical process to make any  
19 change and, you know, document everything that is done during  
20 that process. One of the biggest time line item in that whole  
21 process is the stability studies. Because we claim a shelf life  
22 on our products. So we have to be able to document that that is  
23 an accurate claim.

24 If we say that the product is good for five years on the

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1 shelf, then we have to have some studies in place that say that  
2 we can prove that it is good for five years. You can't do that  
3 in a month. We can accelerate that process, but we can't  
4 accelerate to -- we can accelerate to a year or several months,  
5 but -- so that has to be done irregardless of whether it is an  
6 FDA -- an NDA product or non NDA product. The difference being  
7 that the NDA product requires that all this documentation be  
8 submitted to the FDA and reviewed. The other means it is just  
9 available for -- we have to be able to produce it if we are asked  
10 by the FDA to produce it, to show that we did the work.

11 Q. Let's talk a little bit about what is involved in that  
12 process and let's do so considering that we have got six or seven  
13 different products that we are talking about here that would have  
14 to go through this. What are the steps, basically, to take this  
15 through this analysis and documentation process for FDA  
16 requirements?

17 A. There is basically three -- four steps. Basically we do  
18 preliminary research, you know, a study of -- let's say that we  
19 were to do a solvent substitution. We would have to do a  
20 literature research. We would have to find out what would be a  
21 suitable solvent that may work in the situation.

22 Then we select that solvent and then we would do a  
23 bench-top test, test-tubes and little small beakers, maybe a  
24 three to five pound batch or something. And then we would start

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1 doing some stability work with that.

2           If that looked promising, then the next step would be a  
3 pilot scale, and that's -- our batches -- I really don't know the  
4 total weight of the batch, but just the alcohol in the batch is  
5 about 200 pounds. And so, you know, we would do a pilot scale  
6 which would maybe be a third of that or 25 percent, depending on  
7 what equipment is available to do the pilot scale. That is a  
8 process that mimics the full scale production.

9           We would go through that and then, again, continue with the  
10 stability. And then if everything looked pretty good, we would  
11 start doing full scale manufacturing. And that is done under  
12 what we call an E batch, which is an experimental batch, or an N  
13 batch. It would probably be done under an N batch, which is a  
14 batch of material that we would still be able to sell, because  
15 there is quite a bit of cost involved in making a batch because  
16 of the raw ingredients. So we don't want to make a lot of  
17 product and then just throw it away. So we would be able to see  
18 that. We would have to put it on hold for the stability work to  
19 be completed before we could actually sell it.

20           Q. And considering these four steps, and all of the  
21 products that we have involved here, how much time does it --  
22 would it take for the facility to move through that complete  
23 process?

24           A. Well, we are estimating that to do this whole facility

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1 through that we would take about 10 to 12 months for the  
2 bench-top work, and then another 10 to 12 months for the pilot  
3 scale, and then another 15 months or so for the full scale.

4 Q. And how about for the preliminary, the first end stage,  
5 how much time we would allow for that?

6 A. We would figure around six months, six to ten months on  
7 that.

8 Q. Okay. So altogether when you talk about all four steps  
9 we are really looking at about four years?

10 A. Uh-huh.

11 Q. Is that as tight as we can get it? Can we cut any time  
12 out of there at any point?

13 A. We don't feel we can, because when we built that  
14 schedule, we really looked at most of it as -- we said, you know,  
15 we don't necessarily need to do 100 percent to stay within this  
16 Subpart T. So we said, well, we won't consider the NDA products  
17 as part of this because it would take a lot longer.

18 Q. Okay. Let's kind of go back now that we have talked  
19 about this process that is involved for getting to the point  
20 where we could do a non VOM solvent or solvent elimination  
21 altogether. Let's bring ourselves back now to where we are in  
22 2002, in this production increase we are anticipating in the  
23 fourth quarter. And when we get to that point in October or so,  
24 where we are hitting -- getting up to those emission control

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1 thresholds.

2           We have established that we couldn't just switch over to  
3 working with a non VOM solvent or a dry process because of the  
4 FDA requirements. In lieu of that, and in lieu of just shutting  
5 down, could we not bring in a control device in the fourth  
6 quarter of this year to keep -- to reduce the VOM emissions and  
7 keep us going in production?

8           A. No. We feel that it would take about a year plus to  
9 install a pollution control device. We looked into this early  
10 this year. We employed Dan's group to help us. We looked at the  
11 different technologies.

12           One of our problems, and our biggest problem at the Decatur  
13 facility is lack of space, lack of real estate around the plant.  
14 So whatever we install there will have to probably go on the  
15 roof. It will have to go on the roof, you know, unless we can --  
16 unless we can buy some property, and that would take several  
17 months to do that.

18           So now we have said, okay, this has to go on the roof. It  
19 is relatively heavy equipment. And even in the best case that we  
20 have looked at that we have chosen, which is the thermal  
21 oxidation, which is not necessarily the best for the environment,  
22 but it is the best that we have chosen. We chose that because it  
23 was the lightest and it required less revisions to the roof. But  
24 even that will require substantial structural revisions to the

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1 building to support it.

2 Then that opens up another problem, because you can't  
3 really just go in and reinforce the roof while people are working  
4 underneath it. So that requires more down time to get in and  
5 schedule that into the process.

6 Q. Okay. And assuming, then, that we could do all of that,  
7 get the structural work done and get the device up there, are  
8 there other requirements that we still have to follow?

9 A. Well, we also have to go through the permit process with  
10 the IEPA for installing the device.

11 Q. So considering that and all of the work that would have  
12 to be done at the facility, ordering and receiving the equipment,  
13 we think it would take about a year before we could get the  
14 device up and running?

15 A. Uh-huh.

16 Q. Okay. Have we looked into what the cost for that kind  
17 of control equipment would be?

18 A. Yes, we have. You know, the equipment installed, not  
19 just the equipment, but the equipment installed, it looks like it  
20 is probably a \$500,000.00 to \$600,000.00 effort.

21 Q. What about annual operating costs that would go on with  
22 that?

23 A. Dan worked that up and could probably answer that more  
24 accurately than I can.

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1 Q. Okay.

2 A. But it is probably in the range of -- in the  
3 neighborhood of \$100,000.00 plus a year to operate that, I  
4 believe.

5 Q. Now, going back to our situation here in 2002, we have  
6 established that we can't change our process right away, because  
7 of the FDA requirements. We can't install a pollution control  
8 device right away, because of physical issues and permitting  
9 requirements.

10 Getting to the point, again, here at the facility where we  
11 are hitting this threshold, instead of just shutting down  
12 production, is it possible for us just to move the production to  
13 another one of our facilities and keep going?

14 A. We considered that earlier this year, and we determined  
15 that that would take probably another -- that would be another  
16 thing that would take at least a year or so to do. That requires  
17 finding a -- it requires two things, basically.

18 It requires finding a contractor that could make our  
19 products, and is FDA registered and, you know, fully compliant  
20 and knowledgeable of all of the FDA regulations involved in the  
21 manufacturing of pharmaceutical products, and also that has a  
22 pollution control device in place.

23 We didn't pursue that too far, but we looked and that and  
24 said to go through all of that it would take a year and then we

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1 would have to go through moving the process from one facility to  
2 another. Even if we had another -- even if MedPointe had another  
3 facility, it requires several months of work with the FDA, just  
4 to transfer the manufacturing process from plant A to plant B  
5 within the same company.

6 Q. If we did that, what would happen to the jobs here in  
7 Decatur that are associated with this process?

8 A. That would have a negative affect on the population of  
9 the Decatur plant and the operation. And it would have a lot of  
10 negative affects. It would hurt the work force, and it would  
11 also hurt us. It would cost us more money. And it could -- I  
12 don't know where the contractor would be. The contractor could  
13 be some place else in the United States.

14 Q. So, really, when you look at all of the different  
15 options that we have talked about here, once we get to the point  
16 this year that we start coming up to these emission thresholds  
17 for Subpart T, the only thing that we could do, if we don't have  
18 the relief requested in the Variance, is to shut down this  
19 process, correct?

20 A. Uh-huh.

21 HEARING OFFICER LANGHOFF: Excuse me. Would you answer yes  
22 or no? I am sorry. That was a yes, right?

23 THE WITNESS: Yes.

24 HEARING OFFICER LANGHOFF: All right. Thank you.

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1 Q. (By Ms. Driver) Let's talk a little bit, then, about the  
2 Variance itself. And as you know, in the Petition we have  
3 provided a schedule of compliance that has since been adjusted a  
4 little bit.

5 Let's talk about the schedule itself and kind of going back  
6 to what you just described as a process for evaluating the non  
7 VOM solvent or the dry granulation process. Let's just kind of  
8 walk through what commitments the company has made to exploring  
9 these different options throughout the term of the Variance, and  
10 starting with this evaluation of the non VOM solvent or the  
11 process modification?

12 A. Can you repeat that?

13 Q. Sure. That was a long-winded question. Just walk us  
14 through what the company is committed to do during the term of  
15 the Variance to evaluate the non VOM solvent or the dry  
16 granulation process?

17 A. Well, we have committed to a schedule that would allow  
18 us to complete that work within the four years, we feel  
19 sufficiently enough to stay within the Subpart T limitations.  
20 And right now we are very optimistic that we can move toward  
21 eliminating VOMs from our products in the future.

22 This calendar year we had two products that we were  
23 planning to introduce -- first of all, the cough and cold season  
24 is the winter season. So our big season in the cough and cold

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1 business starts in November or December and runs through the  
2 winter. So we generally right now start launching these products  
3 for the next year whenever we have something new to take out to  
4 the industry.

5 The products that we had planned to launch this year, we  
6 were able to revise the process and use dry granulation and  
7 eliminate the solvent from those two products. So whether that  
8 will be as successful as other products is just speculation at  
9 this point. But we are very pleased with the results that we  
10 were able to do there. Our R&D group, or now what is known as  
11 our PPD group, the process product development group, is  
12 committed to all new tablet products to look at dry granulation,  
13 first choice, and then look at if that just does not work, then  
14 they will look at the other solvents, look at water first before  
15 we went into the VOM solvents.

16 Q. So the company's preference really is to eliminate  
17 ethanol altogether in production?

18 A. Absolutely.

19 Q. And that is the first step in the evaluation of the  
20 Variance?

21 A. You know, the solvent -- the ethanol solvent presents  
22 safety issues and employee handling issues and other issues, too,  
23 that we would be glad to get away from.

24 Q. So moving through the four steps that you talked about

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1 earlier, preliminary research, bench-top evaluation, pilot scale  
2 testing, and manufacturing evaluation, we have moved through all  
3 four of those for the elimination of ethanol.

4           What about the timing of looking into the control device  
5 option, where is that going to fall now in our compliance  
6 schedule?

7           A.    I believe we originally put that in far enough back from  
8 the end of the Variance that we could complete it. But we would  
9 get to a point -- because we are very optimistic that we will be  
10 able to eliminate solvents or VOM solvents.

11           If it got to a point where if, for some reason, we felt  
12 that we were not going to be successful, that we would still have  
13 enough time to complete it before the end of the Variance, we  
14 have now moved that up to -- at least the initial study of it to  
15 the front end of the Variance to formulate our specific plan and  
16 do the structural analysis and stuff on the building and know  
17 exactly what we are dealing with as early as we can.

18           Q.    Okay. Then at that point you will have that analysis  
19 done?

20           A.    Right.

21           Q.    If we find in the process that we can't make the solvent  
22 elimination work, you can begin down that path?

23           A.    Yes.

24           Q.    Let's kind of follow-up on that now and think about if

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1 we are in the process either at the pilot scale phase or the full  
2 scale manufacturing phase, and we find that the solvent  
3 elimination is not going to be successful or the non VOM solvent  
4 is not going to be successful, what is our approach going to be  
5 at that point?

6 A. Well, our -- at that point we would do a real careful  
7 analysis on where the business is going, and what are the costs  
8 of our different alternatives. And we would probably revisit --  
9 we would definitely revisit, you know, do we need to introduce  
10 these products, do we need to actually make these products, you  
11 know, what do we yield off of these products. What is it going  
12 to cost us to put in the pollution control device. How much  
13 benefit to the environment will it actually provide.

14 So, you know, if we see that we are just slightly over a  
15 threshold, we would probably look at what is the -- I think the  
16 term is RACT, whether it is really a worthwhile thing here to do  
17 for the environment, for instance, economically from the cost,  
18 and then perhaps pursue a permanent adjustment to the standard.  
19 We would also probably look at outside contracting for at least  
20 some of these products.

21 Q. Is it possible, as well, that at that point in time that  
22 our production needs may be such that we may not even be  
23 operating over the Subpart T thresholds?

24 A. Absolutely. That's our goal.

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1 Q. Let's talk a little bit about -- just before I leave  
2 that part of it, we -- as we are moving through these things in  
3 the Variance we have committed to reporting about what our  
4 efforts are showing on these studies and that sort of thing and  
5 working with the IEPA; is that correct?

6 A. Yes.

7 Q. Okay. Let's talk now about the emissions that we expect  
8 to occur during the Variance. Earlier you stated that through  
9 2001 we are seeing emissions of about two tons of VOM from the  
10 four dryers. So total, how much have we been seeing as far as  
11 actual VOM emissions from this process in the last couple of  
12 years?

13 A. Total, how much emissions we have seen?

14 Q. Right.

15 A. The total is around ten tons.

16 Q. All right.

17 A. Well, it is less than ten tons. It is about eight tons.  
18 In 2001, which has been our highest year, it was about two tons  
19 per dryer on the four dryers that we were using. So it is around  
20 eight tons total.

21 Q. What have we asked for or projected as the VOM emissions  
22 per dryer during the term of the Variance?

23 A. We have asked for relief up to five tons per dryer,  
24 which would be 25 total for the five. And we have asked for

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1 relief on a daily limit for the Lydon oven, the four rack oven,  
2 to 280 pounds a day from one oven, which would allow us to make a  
3 batch and dry it in that oven, with the understanding that on  
4 days that we did that we wouldn't be producing in the Ross ovens  
5 at the same time.

6 So the total daily emissions from the plant would  
7 essentially be the same. It would just be coming from one source  
8 instead of four.

9 Q. So overall we are looking at a total historical  
10 emissions of about ten tons, going up to 25?

11 A. Allowable.

12 Q. Right. Okay. Let's talk now, just as we conclude here,  
13 about the -- I think we have covered some of the things that the  
14 Board had raised in the last Hearing Officer Order. But one  
15 issue that we do want to clear up for the Board gets to these  
16 different pieces of equipment that Subpart T potentially  
17 regulates and whether or not we have those at this facility in  
18 Decatur. We will just work through what the different parts of  
19 Subpart T get to.

20 There are some provisions in Subpart T that regulate such  
21 things as pharmaceutical product reactors, distillation units,  
22 crystallizers, centrifuges, vacuum dryers, and so forth.

23 Do we have any of those pieces of equipment involved in  
24 this process?

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1           A.    No, we don't have those at Decatur.  Those are used by  
2 what is known in the pharmaceutical industry as fine chemicals or  
3 people that manufacture ingredients, and not the finished  
4 products.

5           Q.    All right.  Now, we know we have air dryers involved,  
6 obviously.  That's why we are here?

7           A.    Uh-huh.

8           Q.    What about the rotary vacuum filters and the filters  
9 that have exposed volatile organic liquid surfaces, do we have  
10 any of those in this process?

11          A.    No.

12          Q.    Okay.  Do we have any storage of ethanol in storage  
13 tanks?

14          A.    No, all of our ethanol is purchased in drums.

15          Q.    Okay.  Do we have any end process tanks associated with  
16 this production?

17          A.    No.

18          Q.    Do we have any other kinds of emission units that would  
19 fall in kind of a miscellaneous category that could be regulated  
20 by Subpart T?

21          A.    We report our emissions and we calculate our emissions  
22 based upon the total ethanol that we use in the process, and that  
23 is based on the assumption that it all goes out the stack in a  
24 dryer.  And in reality a little bit is emitted when we actually

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1 add the ethanol ingredients in the mixer. At that point we set a  
2 drum of ethanol on a drum rack that is horizontal and there is a  
3 faucet on the side of it.

4 We pour it out and weigh it out into a smaller container,  
5 and then pour that into the mixing vessel. And there is an  
6 exhaust fan that is hooked up to that mixing vessel that pulls  
7 the fumes out into air. You know, this is basically speculation,  
8 but it is -- I would be surprised if that even accounts for half  
9 of a percent of the total emissions.

10 Q. So from this very small amount of VOM that could be  
11 happening from mixing, obviously, it would never have been an  
12 issue with the Subpart T thresholds in the past. In this  
13 anticipated increase in production, is there the potential that  
14 VOM emissions from this mixing could ever come close to the  
15 Subpart T thresholds?

16 A. Well, we don't believe there is, but it would certainly  
17 be studied. We need to look at that because the provisions of  
18 Subpart T say we have to get down to ten percent of our total.  
19 So we want to make sure that this is not a large contribution.  
20 If it was, the remedies are simple. You just tie that exhaust  
21 from that pick up in that room into a pollution control device.

22 Q. But we don't see the need now to seek relief from  
23 Subpart T for the mixing?

24 A. Huh-uh.

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1 Q. Okay. So then the only thing in Subpart T that we need  
2 the relief on are the five dryers that we have talked about  
3 today?

4 A. Uh-huh.

5 Q. That's a yes?

6 A. Yes.

7 Q. Okay.

8 A. I am sorry.

9 MS. DRIVER: That's all of the questions I have for you  
10 right now. Thank you.

11 HEARING OFFICER LANGHOFF: All right. Thank you, Ms.  
12 Driver.

13 Mr. Matoesian, do you have any questions?

14 MR. MATOESIAN: No questions.

15 HEARING OFFICER LANGHOFF: All right. Thank you. Ms. Liu?

16 MS. LIU: Sure. Thank you.

17 CROSS EXAMINATION

18 BY MS. LIU:

19 Q. Good morning, Mr. Brown.

20 A. Good morning.

21 Q. As part of your compliance plan you describe that  
22 Wallace Pharmaceuticals will be doing some research into a non  
23 VOM alternative. You described the bench scale testing, and the  
24 pilot scale phase that you will be investigating and --

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1 A. Pardon me?

2 Q. You described the bench scale and the pilot scale phases  
3 that you will be investigating?

4 A. Right.

5 Q. Do you plan to utilize internal resources for all of  
6 this research, or do you think you might seek outside expertise,  
7 as well?

8 A. The answer is yes to the second part. We always use  
9 outside expertise on just about all of our research. In fact, at  
10 this point in time we don't have a pilot facility. So even the  
11 pilot and the manufacturing facility would be contracted out.

12 Q. Would your process product development group be  
13 receptive to utilizing assistance from resources within the  
14 Illinois Environmental Protection Agency or the Department of  
15 Natural Resources that have some expertise in pollution  
16 prevention in the manufacturing processes?

17 A. You know, I can't speak for them directly, but I would  
18 think they would be.

19 Q. Okay.

20 A. I would think they would take any resources from any  
21 place that they could get them.

22 MS. LIU: Thank you.

23 THE WITNESS: Uh-huh.

24 HEARING OFFICER LANGHOFF: All right. Is there anything

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1 further? Okay. Thank you, Mr. Brown.

2 Yes, Ms. Driver?

3 MS. DRIVER: Could we take a break so that I could go plug  
4 my meter?

5 HEARING OFFICER LANGHOFF: Sure. We will take a brief  
6 recess. Five minutes.

7 MS. DRIVER: Thank you.

8 HEARING OFFICER LANGHOFF: All right. We will be back on  
9 at 11:00.

10 (Whereupon a short recess was taken.)

11 HEARING OFFICER LANGHOFF: All right. We are back on the  
12 record. It is 11:04.

13 Ms. Driver, your next witness.

14 MS. DRIVER: Thank you, Mr. Hearing Officer. I would like  
15 to call Dan Goodwin.

16 HEARING OFFICER LANGHOFF: Would you swear the witness,  
17 please.

18 (Whereupon the witness was sworn by the Notary Public.)

19 HEARING OFFICER LANGHOFF: By the way, the microphones are  
20 not on.

21 THE WITNESS: Okay.

22 HEARING OFFICER LANGHOFF: So you will have to speak up so  
23 that Darlene can pick up everything you say.

24 THE WITNESS: All right.

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1                                   D A N I E L J. G O O D W I N,  
2   having been first duly sworn by the Notary Public, saith as  
3   follows:

4                                   D I R E C T   E X A M I N A T I O N

5                                   B Y   M S.   D R I V E R:

6           Q.   Please state your name for the record.

7           A.   Daniel J. Goodwin.

8           Q.   Who is your employer, Mr. Goodwin?

9           A.   I am employed by Secor International, Incorporated,  
10   which is a national environmental consulting firm.

11          Q.   Okay. What is your position there with Secor?

12          A.   I am a principal engineer.

13          Q.   What do you do as a principal engineer?

14          A.   I oversee the work of a group of professionals,  
15   environmental professionals, engineers and scientists, and do a  
16   variety of consulting assignments in the environmental field.

17          Q.   What, just generally, kind of projects would be involved  
18   in that work?

19          A.   Well, one of the areas that I particularly specialize in  
20   is air quality, air pollution control related work. And a  
21   typical example of the kind of thing we do is to assist clients  
22   in compliance with air quality regulations, in understanding what  
23   regulations apply, and the record keeping, and data collection,  
24   and so on, that is required. We also do a great deal of

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1 environmental permit application work.

2 Q. Okay. How long have you been in this position?

3 A. I have been in this role for 18 years almost.

4 Q. Okay. How were you employed prior to this position that  
5 you have now?

6 A. Well, I am counting in that 18 years the time that I  
7 spent as principal of a predecessor firm, Goodwin Environmental  
8 Consultants, which was also previously known as Goodwin & Broms,  
9 Incorporated. They were environmental consultants acquired by  
10 Secor last year.

11 Q. How about before that, how were you employed?

12 A. I spent 13 years with the Illinois Environmental  
13 Protection Agency, the last seven of -- I am sorry -- the last  
14 six of which were as head of the division of Air Pollution  
15 Control.

16 Q. What kind of responsibilities did you have as the Chief  
17 of the Division of Air Pollution Control?

18 A. I was the Chief Administrator of the Air Pollution  
19 Program in the State. The position, then, is comparable to what  
20 is now called the Chief of the Bureau of Air. I was responsible  
21 for regulatory development for satisfying the Clean Air Act, the  
22 state implementation plan requirements, as well as permitting and  
23 compliance monitoring and enforcement.

24 Q. Okay. And tell us about your educational background?

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1           A.    I have a BS in Engineering from Rose-Hulman Institute of  
2   Technology in Tere Haute, Indiana.  I have a Master's in Business  
3   Administration from Indiana University.

4           Q.    What are your professional affiliations?

5           A.    I am a member of the Air & Waste Management Association,  
6   the Water Environment Federation, the American Institute of  
7   Chemical Engineers.  And I am currently serving as Vice President  
8   of the Consulting Engineers Council of Illinois.

9           Q.    Are you, then, a Licensed Professional Engineer in  
10  Illinois?

11          A.    Yes, and I have been since 1972.

12          Q.    Okay.  Thank you.  Let's talk a little bit about the  
13  work that you have done specifically for this facility here in  
14  Decatur that we are talking about today.

15                Mr. Brown mentioned that they had retained you to study  
16  some options that they might have as far as control technology.  
17  Can you tell us a little bit about what you did in that regard?

18          A.    Yes.  MedPointe retained me back in the fall of 2001 to  
19  look at their situation and evaluate their alternatives for  
20  complying with Subpart T.  And in the course of doing that, in  
21  addition to the solvent substitution option, which has been  
22  discussed, I identified four main control technology alternatives  
23  that might be considered for application in their problem.

24          Q.    How did you go about deciding what the four options

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1 could be? What were the activities you undertook to come up with  
2 that?

3 A. Well, I looked at the four main or most commonly used  
4 technologies for control of organic chemical emissions. And I  
5 went through a qualitative screening of those four alternatives  
6 to identify which ones really were most likely to be a preferred  
7 alternative and deserving of a more detailed quantitative type of  
8 analysis. And out of that process I identified one technology  
9 that seemed clearly the best choice of the four.

10 Q. Tell us just briefly what four options you came up with  
11 in the beginning?

12 A. Okay. First of all, I looked at absorption, and that is  
13 with a B. That's a technology where typically you -- in this  
14 situation you would use water as a scrub and absorb the ethanol  
15 vapors, which are very soluble in water, using either a packed  
16 column or a tray type scrubber.

17 That technology would probably not be very feasible because  
18 of the very dilute nature of the ethanol concentration in the air  
19 stream and the large volume of liquid that would have to be  
20 disposed of once it passed through the scrubber. In addition,  
21 considering that it would have to be placed on the roof, the  
22 equipment would have to be protected from freezing conditions  
23 with some type of heated enclosure, or possibly it could be  
24 insulated with heat tracing. But neither of those -- either of

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1 those would add considerably to the cost of the installation. It  
2 really is not a technology that is very well suited for this  
3 situation.

4 Q. So based on those concerns, you ruled out absorption on  
5 a technical or a practical basis for the facility?

6 A. That's correct.

7 Q. All right. What was the next option that you looked at?

8 A. The next option was adsorption, with a D. With  
9 adsorption, using -- most often it is done with activated carbon.  
10 There are two main approaches to it. You can do it with on site  
11 or in-situ regeneration of the carbon. The way that works is the  
12 organic vapor laden gas stream is passed through a bed of  
13 activated carbon. The organic material is adsorbed on to the  
14 carbon bed.

15 Periodically, then, you have to stop the gas flow or switch  
16 it to another unit and regenerate that activated carbon using a  
17 hot gas. Usually it is done with steam to desorb the organic  
18 material from the carbon. Then that hot gas, that steam, would  
19 go to some type of a cooling device where the organic phase would  
20 condense out and be separated from the steam.

21 The other approach with activated carbon is to use carbon  
22 units or canisters. They come in standard sizes. And the system  
23 is set up so that you simply physically switch out canisters as  
24 they become saturated with the organic phase. And those are then

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1 transported off site for regeneration at a facility that is  
2 designed for that purpose.

3 With in-situ regeneration, you would have a very large,  
4 heavy installation. The control systems on activated carbon  
5 units are fairly complex and require a lot of attention to keep  
6 them operating properly.

7 If you were to use off site regeneration, you would have  
8 the problem of physically moving these canisters of carbon from  
9 the roof top to ground level where they could be trucked for  
10 regeneration. Practically speaking, that would require the  
11 installation of an elevator of some sort.

12 Neither version of the carbon adsorption process appeared  
13 to be a very desirable approach. If it were the only game in  
14 town, so to speak, it could be done. But as I am sure we will  
15 get to later on in the testimony, there is a better option.

16 Q. Okay. Let's move on, then, to the third option that you  
17 identified.

18 A. That would be condensation. In condensation, the  
19 vapor-laden gas is subjected to a combination of reduced  
20 temperature and increased pressure to condense out the organic  
21 phase. Here, again, because we are looking at a rather dilute  
22 gas stream, and the temperature is well above ambient temperature  
23 on most days, at least, it would take quite a refrigeration  
24 capacity to produce the required chilling to condense out the

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1 organic phase particularly to achieve the 90 percent reduction  
2 that the regulation would require. That's a critical point in  
3 all of these technologies, is the ability to get a 90 percent  
4 reduction from that very dilute gas stream.

5 For reasons of weight alone, it probably would not have  
6 been a technology of choice for this application. But, in  
7 addition, in discussing it with the MedPointe people, I learned  
8 that there is a capacity problem with the plant's electrical  
9 substation which would have required a major and costly upgrade  
10 to that facility in order to get the power that would be needed  
11 to operate this condensation system. And it would be a very  
12 large user of electrical power.

13 Q. So based on that, the condensation option was also  
14 eliminated as being, on a technical basis at least?

15 A. That's correct.

16 Q. Okay. Let's move on to the fourth and final option that  
17 you identified?

18 A. The fourth option is thermal oxidation. There are two  
19 variations of that we looked at. The first being simple  
20 oxidation, which you can do either with or without a recovery of  
21 waste heat. And the second variation of it is catalytic  
22 oxidation.

23 Let's talk about the catalytic first. In catalytic  
24 oxidation, the gas stream is passed through a combustion chamber,

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1 which is heated by supplemental fuel -- in this case it would be  
2 natural gas -- typically to a temperature of 12 to 1,500 degrees  
3 Fahrenheit for simple thermal oxidation. But with catalytic  
4 oxidation, you have a bedded catalyst just downstream from the  
5 combustion zone, or I should say from the burner area. And that  
6 catalyst bed allows the oxidation or combustion process to go to  
7 completion at a much lower temperature, something more in the 650  
8 to 800 degree range. That allows for a much lower fuel use for  
9 catalytic oxidation.

10 For thermal oxidation, simple thermal oxidation, you don't  
11 have the catalyst bed. It is just a large combustion chamber and  
12 you are simply burning the organic vapors to carbon dioxide  
13 water and it passes out of a stack into the atmosphere. Usually  
14 in that situation, you do have some form of recovery of waste  
15 heat as part of the process, but it is not technically required.  
16 That simply reduces the fuel consumption if you do.

17 Q. So based on your evaluation, did you feel that the --  
18 either of the oxidation alternatives would be technically  
19 feasible for addressing the VOM emissions?

20 A. I think probably either one of them would work in this  
21 case, and either one of them would be better than any of the  
22 other options that were looked at.

23 The main drawback with catalytic oxidation, apart from the  
24 cost of the catalyst, which adds significantly to the cost of the

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1 unit, the catalyst is subject to being poisoned, which reduces  
2 its effectiveness and eventually you have to replace the catalyst  
3 periodically.

4 The types of agents that can poison it are halogen  
5 compounds or sulfur compounds. And while we don't know that  
6 there is reason to suspect that there would be large quantities  
7 of either of those things in this gas stream, it is a concern.

8 So we really have come to the conclusion that simple  
9 thermal oxidation is probably the best choice for control in this  
10 particular situation.

11 Q. In looking at that, then, in the context of a control  
12 under Subpart T, what is your feeling about how that control  
13 option would fit for this kind of situation, considering the  
14 emissions involved and the regulatory background for Subpart T?

15 A. It certainly will meet the requirements of the  
16 regulation. It would not be unreasonable to expect that you  
17 would get 98 or 99 percent control using a well designed thermal  
18 oxidizer over the entire cycle, the entire 16 hour drying cycle.

19 So from that stand point, it is -- it would be an  
20 appropriate choice. Whether or not this would represent a  
21 Reasonably Available Control Technology, which is what Subpart T  
22 was adopted to establish in the regulations in the particular  
23 circumstances of this plant, my own judgment is that it isn't  
24 really a reasonable measure.

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1 Q. What is the basis for your feeling on that?

2 A. Well, one factor is cost and cost effectiveness. In  
3 looking at -- if you go back and review the Board's rulemaking,  
4 when it adopted the presence of the Subpart T rules, as  
5 Reasonable Available Control Technology, the Board was using sort  
6 of a benchmark of \$5,000.00 per ton of VOM controlled as a  
7 reference point for what is reasonable or what is not. And that  
8 was taken as sort of the maximum cost per ton that the Board  
9 would have considered reasonable at the time that it adopted this  
10 rule in 1987, I think it was.

11 I did cost effectiveness calculations for the MedPointe  
12 application. And there are various ways you can do the  
13 calculations, but one way in which you can do it is to look at  
14 the cost for reducing the emissions to the 12 and a half ton per  
15 year level that would represent the threshold at which Subpart T  
16 became applicable. If you do the calculation in that fashion,  
17 you get a cost effectiveness ratio in the range of \$87,000.00 to  
18 \$102,000.00 per ton.

19 If you use a more conservative approach, and look at the  
20 cost of effectiveness for doing a 90 percent reduction from 15  
21 tons per year, then you get a cost effectiveness ratio of  
22 \$16,000.00 to \$19,000.00 per ton of VOM.

23 Either way, you are way, way above what the Board adopted  
24 as its benchmark when the Rule was adopted, even after you

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1 consider the inflation that has occurred in that intervening  
2 period of time. So on economic grounds I think you can say it is  
3 not reasonable.

4 You can also look at it from the perspective of what is the  
5 environmental benefit of this reduction, and is it -- is the cost  
6 to achieve this reduction commensurate with -- or is the  
7 environmental benefit commensurate with the cost, is the way I  
8 should say it.

9 We are really looking at a very, very small fraction of the  
10 emissions in the Decatur area that would be controlled if this  
11 device were installed. It would be about .05 percent of the  
12 Macon County total VOM emissions, as estimated by the Agency for  
13 1999.

14 So given that the area is in attainment of the ozone  
15 standard, has been in attainment, I believe, all the way back to  
16 the time that the attainment designations were first made, and is  
17 not marginal in its attainment status, that very, very minute  
18 change in the total emissions in the area is going to have no  
19 discernible environmental benefit to go with it.

20 Q. These kinds of factors, looking at the environmental  
21 benefit and also the cost effectiveness of reduction, those are  
22 the kinds of things that you would be looking at with the company  
23 during the course of the Variance if the control option is  
24 decided to be pursued or being evaluated, particularly if the non

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1 VOM solvent option does not work out, or the dry granulation  
2 process as well?

3 A. Yes, that's correct. We would -- that would be a part  
4 of the continuing study that we would do of the control  
5 technology alternatives. You know, we would revisit those  
6 questions as we went through that evaluation to make sure that  
7 what we were doing was still -- well, going to work, number one,  
8 going to meet the requirements of the regulation, but also that  
9 we were not identifying some option that would produce much  
10 greater benefits or could be implemented at a substantially lower  
11 cost. If we did, then we would have to rethink which option we  
12 wanted to pursue.

13 Q. Okay. Let's talk now about the emissions themselves.  
14 Mr. Brown testified earlier that historically we are now right  
15 around ten tons of VOM per year total for all the dryers. And  
16 the Variance would allow us to go up to 25 tons per year. Is  
17 that your understanding as well?

18 A. That is my understanding, yes.

19 Q. All right. You have talked a little bit about this  
20 already. In the course of your work for the facility on the  
21 control options in the Subpart T compliance, you did take a look  
22 at the environmental impact of this increase in the VOM emissions  
23 during the term of the Variance; is that correct?

24 A. Correct.

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1 Q. Okay. And what, basically, were your conclusions on  
2 that?

3 A. Well, my conclusion is that there really is not going to  
4 be any environmental impact that would be discernible to the  
5 human senses or that could be measured using conventional ambient  
6 air quality monitoring equipment.

7 Q. You did do some looking at what fraction, I think you  
8 called it, of the Macon County emissions that this emissions  
9 increase would be comprised of. What was that number again?

10 A. That figure is .05 percent of the Macon County total for  
11 1999.

12 Q. So even with the production increase that we are talking  
13 about during the term of this Variance, we still would not reach  
14 one percent of the total Macon County VOM emissions?

15 A. That's correct.

16 MS. DRIVER: I think that's all the questions I have for  
17 you, Mr. Goodwin. Thank you.

18 HEARING OFFICER LANGHOFF: All right. Thank you, Ms.  
19 Driver.

20 Mr. Matoesian, do you have any questions?

21 MR. MATOESIAN: I have no questions.

22 HEARING OFFICER LANGHOFF: All right. Thank you. Ms. Liu,  
23 do you have any questions?

24 MS. LIU: Yes. Thank you.

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CROSS EXAMINATION

BY MS. LIU:

Q. Good morning, Mr. Goodwin. You were discussing the environmental impact and your analysis. There is mention in the Petition of a nearby school and a church. Is there any reason to single out those in an environmental impact study in terms of what they would receive as far as exposure goes on the human health side as well as the environmental side?

A. I don't believe so. First of all, you should recognize that if this Variance is granted, there will not be any increase in the short-term emission rates. The hourly emission rates that would be of greatest concern, from the standpoint of exposure of the school children, for example. The increase will be on annual emissions. And there might be an increase from one dryer, but it would be offset by the fact that the other dryers were not going to be used simultaneously. So you don't really have any short-term increases in emission rates.

Secondly, the maximum concentration coming out of the dryer without any control is about -- it would be about three-tenths of a percent ethanol. Now, that concentration would not persist for any length of time, at most maybe a few minutes. That concentration represents only three times the maximum permissible exposure level that OSHA allows for worker exposure to ethanol in the workplace.

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1           Certainly, as it goes out the stack and becomes disbursed,  
2           that concentration is going to be diluted by a factor of several  
3           hundred before it reached the area of the school and the church.  
4           So it is going to be far, far below the level of any health  
5           concern.

6           Q.    Could you describe what the primary environmental  
7           concern is for the emissions of VOMs from ethanol?

8           A.    Well, I think that the primary concern is that the  
9           ethanol will react in the atmosphere in the presence of sunlight  
10          with oxides of nitrogen to form ozone.  That is the underlying  
11          reason for the regulation, and absent that phenomenon, there  
12          would not be any reason to regulate it at the levels that we are  
13          talking about.

14          MS. LIU:  Okay.  Thank you, Mr. Goodwin.

15          HEARING OFFICER LANGHOFF:  Mr. Goodwin, I have one question  
16          that might be helpful to the Board in making its determination.  
17          I believe you testified about the thermal oxidation alternative  
18          and the benchmark that you believed to be \$5,000.00 per ton.  You  
19          did your calculations on 15 tons per year.

20          Have you done any calculations on reducing the cost  
21          effectiveness of the thermal oxidation using the 25 ton per year  
22          figure?

23          MR. GOODWIN:  No, I did not do that calculation.  It would  
24          be a simple calculation to do, and I would be glad to do that and

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1 submit it.

2 HEARING OFFICER LANGHOFF: Would it be less than the 15 ton  
3 per year calculation, the cost per ton?

4 MR. GOODWIN: It would come out somewhat less than the --  
5 let me back up. If you looked at a 90 percent reduction from the  
6 25 ton per year level, the cost effectiveness ratio would be  
7 somewhat lower than the 87 -- I am sorry -- than the 16,000 to  
8 19,000 numbers that I quoted. It is going to be somewhere over  
9 half of those numbers. So it is still going to be in probably  
10 the 9 to 12,000 range, something like that.

11 HEARING OFFICER LANGHOFF: Okay. Thank you.

12 MS. DRIVER: Could I just follow-up on one thing that I  
13 think is important from Ms. Liu's question, to clarify for the  
14 record?

15 HEARING OFFICER LANGHOFF: Yes.

16 REDIRECT EXAMINATION

17 BY MS. DRIVER:

18 Q. Mr. Goodwin, you mentioned that during the course of the  
19 Variance, that the short-term or the hourly VOM emissions would  
20 not be increasing. The increase is going to be seen on an annual  
21 basis. Can you just explain practically why that is with respect  
22 to the increases that we are talking about in this Variance? It  
23 might be helpful?

24 THE WITNESS: Surely. The emissions occur mostly in the

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1 beginning of the 16 hour drying cycle. You have the mixture that  
2 is wet with ethanol. As the warm air begins circulating through  
3 the trays, it evaporates very rapidly, and it is exhausted out  
4 the stack. As that surface material begins to reach dryness, and  
5 the evaporation has to take place from material below the surface  
6 on the layer of the tray, the evaporation rate slows down. And  
7 so you will continue to have some evaporation over probably most  
8 of the 16 hour cycle, but at an increasingly reduced rate until  
9 you reach the end.

10 Now, the proposal here does not change the way these  
11 batches will be dried, and it does not change the cycle time or  
12 the number of batches that will be dried at one time. It only  
13 allows -- would allow the use of the Lydon oven by allowing for  
14 more than 100 pounds per day to be emitted from a single oven.  
15 And it allows for more batches per year, because you are raising  
16 the annual threshold of applicability of the 90 percent control  
17 requirement. But it really does not result in any change in the  
18 amount of emissions that would occur in any given 16 hour period.

19 MS. DRIVER: Okay. Thank you.

20 HEARING OFFICER LANGHOFF: All right. Thank you, Mr.  
21 Goodwin.

22 Anything further, Ms. Driver?

23 MS. DRIVER: No. That's all we have. Thank you, Mr.  
24 Hearing Officer.

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1 HEARING OFFICER LANGHOFF: Thank you. Mr. Matoesian, do  
2 you have anything?

3 MR. MATOESIAN: No, Your Honor.

4 HEARING OFFICER LANGHOFF: Thank you.

5 MS. LIU: Mr. Hearing Officer, can I ask some questions of  
6 the Agency?

7 HEARING OFFICER LANGHOFF: Sure. Certainly.

8 MS. LIU: Thank you.

9 HEARING OFFICER LANGHOFF: I think you might need to speak  
10 up a little.

11 MS. LIU: If it would be all right, I would like to ask  
12 some questions of the Agency.

13 Would we need to swear in Mr. Uy?

14 HEARING OFFICER LANGHOFF: Yes. Would you swear the  
15 witness, please.

16 (Whereupon the witness was sworn by the Notary Public.)

17 HEARING OFFICER LANGHOFF: Thank you.

18 J O E C. U Y,

19 having been first duly sworn by the Notary Public, saith as  
20 follows:

21 DIRECT EXAMINATION

22 BY MS. LIU:

23 Q. Good morning, Mr. Uy.

24 A. Good morning.

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1 Q. Would the Illinois Environmental Protection Agency's  
2 Office of Pollution Prevention be able to provide some assistance  
3 to Wallace Pharmaceuticals in their research for a non VOM  
4 alternative?

5 A. I believe that they have the capability. Right now that  
6 I know of, because I don't work under that particular division, I  
7 work with the Air Quality Planning, they have been helping like  
8 hospitals in streamlining their operations to reduce the amount  
9 of pollution that those particular sources emit.

10 But in the case of Wallace Pharmaceuticals, I think the  
11 Office of Pollution Prevention would be able to have the  
12 resources and the expertise to help them out in seeking out ways  
13 to reduce pollution.

14 Q. Could you describe the type of assistance that the  
15 Office of Pollution Prevention provides in terms of Agency  
16 personnel, college students, laboratory services, kind of on site  
17 field work, are you familiar with how the Agency interacts with  
18 businesses like this to accomplish the pollution prevention goal?

19 A. Unfortunately, I am not very familiar with the  
20 operations of the Office of Pollution Prevention. But what I  
21 know is that they have the resources, and they have been working  
22 with outside sources, as well.

23 Q. Okay. Are you familiar with the pollution prevention  
24 assistance also offered through the University of Illinois and

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1 the Waste Management Research Center in Champaign?

2 A. Those are the outside sources that I am referring to  
3 that the Office of Pollution Prevention works with.

4 Q. Okay. If Wallace Pharmaceuticals were receptive to the  
5 idea of utilizing State resources, do you think it might be  
6 beneficial to introduce them to either your office of Pollution  
7 Prevention or the Waste Management and Research Center to team  
8 them up to see if maybe they could utilize each other's  
9 resources?

10 A. I believe so.

11 Q. Okay.

12 A. If Wallace Pharmaceuticals permits me, I could introduce  
13 them to the right persons in the Agency.

14 Q. Okay. Do you think that would be something that we  
15 could definitely do if this Variance were granted?

16 A. Yes.

17 MS. LIU: Okay. Thank you very much, Mr. Uy.

18 HEARING OFFICER LANGHOFF: While we have Mr. Uy on the  
19 stand, Ms. Driver, do you have any questions?

20 MS. DRIVER: Yes.

21 CROSS EXAMINATION

22 BY MS. DRIVER:

23 Q. I just have one question, Mr. Uy. Do you know if the  
24 Office of Pollution Prevention or the Waste Management Research

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1 Information Center, I think is what it is called, have they ever  
2 had any projects involved with FDA requirements?

3 A. I am not familiar with the Office of Pollution  
4 Prevention, and I don't know if I could answer that question.

5 Q. Okay. You don't know if they would have the expertise  
6 to deal with that?

7 A. Yes.

8 MS. DRIVER: Okay. That's all I have. Thank you.

9 HEARING OFFICER LANGHOFF: Mr. Matoesian?

10 MR. MATOESIAN: Nothing.

11 HEARING OFFICER LANGHOFF: Okay. Thank you.

12 Is there anything further, anybody?

13 Okay. At this time I will call for any statements from  
14 members of the public. Statements from the participants are made  
15 pursuant to Section 101.628 of the Board's Procedural Rules.

16 Did you want to make a statement today, ma'am?

17 MS. BARBARA RIDDLE: Yes.

18 HEARING OFFICER LANGHOFF: All right. Will you be sworn,  
19 please?

20 MS. BARBARA RIDDLE: Yes.

21 (Whereupon the witness was sworn by the Notary Public.)

22 HEARING OFFICER LANGHOFF: Thank you. What is your name,  
23 ma'am?

24 MS. BARBARA RIDDLE: Barbara Riddle.

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1 HEARING OFFICER LANGHOFF: Could you spell your last name  
2 for the court reporter.

3 MS. BARBARA RIDDLE: R-I-D-D-L-E.

4 HEARING OFFICER LANGHOFF: Where do you reside or live?

5 MS. BARBARA RIDDLE: 1835 North Woodford, Decatur,  
6 Illinois.

7 HEARING OFFICER LANGHOFF: Okay. Thank you. Would you  
8 like to go ahead and give your statement.

9 MS. BARBARA RIDDLE: Well, I have allergies to ethanol. I  
10 have had these allergies for quite some years, until a year ago  
11 when they finally found out. I have to go to Wisconsin to be  
12 tested, because the doctors in Decatur or in Springfield or  
13 Champaign do not test for that many chemicals.

14 HEARING OFFICER LANGHOFF: Anything else? I mean, I take  
15 it that you would be against the grant of a Variance to Wallace  
16 Pharmaceuticals?

17 MS. BARBARA RIDDLE: I would be if they are going to put  
18 out more ethanol into the air.

19 HEARING OFFICER LANGHOFF: Would you like to elaborate at  
20 all, or have you said everything you need to say this morning?

21 MS. BARBARA RIDDLE: Well, if you need to ask me any  
22 questions, I can give you my doctor's name and address and they  
23 can sure send you a statement.

24 HEARING OFFICER LANGHOFF: I don't have any further

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1 questions for you.

2 Ms. Driver, do you have any questions for Ms. Riddle?

3 MS. DRIVER: Yes. Thank you.

4 CROSS EXAMINATION

5 BY MS. DRIVER:

6 Q. Just briefly, Ms. Riddle. I am sorry to hear about your  
7 allergies.

8 Have you and your doctors in Wisconsin ever looked at what  
9 the sources of the ethanol might be that are causing your  
10 problem?

11 A. I took the letter from Springfield to them and that's  
12 how we found out that ethanol was being released. That's how we  
13 found out that I was allergic to it.

14 Q. Okay. Do you know what the sources are of ethanol in  
15 Decatur that are causing your problem?

16 A. No, she didn't tell me all those.

17 Q. Okay. Do you think it would be helpful, given your  
18 problems with ethanol, if the company, Wallace, had time to  
19 investigate finding a way to eliminate ethanol from its processes  
20 so that it wouldn't be emitted any more?

21 A. Oh, that would be wonderful.

22 MS. DRIVER: Okay. I think that's all I have. Thank you.

23 HEARING OFFICER LANGHOFF: All right. Thank you, Ms.  
24 Driver.

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1 Mr. Matoesian, any questions?

2 MR. MATOESIAN: I have no questions.

3 HEARING OFFICER LANGHOFF: Ms. Liu?

4 MS. LIU: Yes.

5 CROSS EXAMINATION

6 BY MS. LIU:

7 Q. Good morning, Ms. Riddle. If I might ask, are you  
8 experiencing problems now?

9 A. Well, I take the medicine daily and have for a year, and  
10 I will have to remain to take it the rest of my life.

11 Q. How close do you live to this facility?

12 A. About six miles away, five to six miles away from it.  
13 And I didn't even know they were putting it out. I just thought  
14 ADM and Staley's was putting it out.

15 Q. Are those facilities also located in the Decatur area,  
16 as well?

17 A. (Nodded head up and down.)

18 Q. Okay. Just out of curiosity, what kind of reaction does  
19 ethanol elicit in allergy form?

20 A. My nose would get irritated. Sometimes it would be raw.  
21 And the doctor -- I was at one allergy doctor, Velek, here in  
22 Decatur. He used to give me sauve for it. But he couldn't  
23 figure out why. Because, see, we didn't know about the ethanol.  
24 When I went to Wisconsin and we got that letter and took it up

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1 there, she tested me. When I take the drops -- within three to  
2 six months after I took the drops it all cleared up.

3 Q. So the medication is working for you now?

4 A. Yes, yes.

5 MS. LIU: Okay. Thank you very much.

6 HEARING OFFICER LANGHOFF: I have a couple of other  
7 questions for you, Ms. Riddle. You testified that you live  
8 approximately six miles from Wallace Pharmaceuticals; is that  
9 right?

10 MS. BARBARA RIDDLE: Uh-huh.

11 HEARING OFFICER LANGHOFF: I am not familiar with your  
12 address. I am sure the Board is not either. How close are you  
13 to Staley?

14 MS. BARBARA RIDDLE: You take a ten mile radius in a  
15 circle. Wallace is here. Staley's and ADM is here, and I am  
16 right here. It is about a ten mile radius.

17 HEARING OFFICER LANGHOFF: You are about five miles away  
18 from Staley?

19 MS. BARBARA RIDDLE: I am not even that far away from  
20 Staley's.

21 HEARING OFFICER LANGHOFF: Closer than that? Three miles  
22 away?

23 MS. BARBARA RIDDLE: Yes.

24 HEARING OFFICER LANGHOFF: Okay. Do you live here in

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1 Decatur?

2 MS. BARBARA RIDDLE: Yes.

3 HEARING OFFICER LANGHOFF: We have your address. The Board  
4 could take judicial notice of where she lives and how close all  
5 of those things are. Okay. Thank you.

6 MS. BARBARA RIDDLE: Okay.

7 HEARING OFFICER LANGHOFF: Is there anyone else that would  
8 like to testify today as a participant?

9 MS. RUTH RIDDLE: Well --

10 HEARING OFFICER LANGHOFF: Ma'am, you just need to give me  
11 a yes or a no, and if it is a yes then I will have you sworn. If  
12 not, then --

13 MS. RUTH RIDDLE: I can.

14 HEARING OFFICER LANGHOFF: Would you like to then?

15 MS. RUTH RIDDLE: Yes.

16 HEARING OFFICER LANGHOFF: Would you please swear the  
17 witness.

18 (Whereupon the witness was sworn by the Notary Public.)

19 HEARING OFFICER LANGHOFF: Okay. What is your name, ma'am?

20 MS. RUTH RIDDLE: My name is Ruth Riddle.

21 HEARING OFFICER LANGHOFF: Okay. What is your address,  
22 ma'am?

23 MS. RUTH RIDDLE: 1155 North Nickey, N-I-C-K-E-Y.

24 HEARING OFFICER LANGHOFF: Would you like to go ahead and

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1 give the Board your comment.

2 MS. RUTH RIDDLE: Well, I was the one that sent for the  
3 information from the Environmental Protection Agency and asked  
4 about the pollutants that came out from Staley's and ADM. And I  
5 didn't realize that there were so many other companies that put  
6 out things.

7 And when I took it up and gave it to the doctor, she went  
8 like (indicating). You know, her mouth dropped open. She said  
9 she didn't -- she couldn't believe that all this pollution was in  
10 the air. And I have asthma. I am not allergic to ethanol. I  
11 was tested for it, too.

12 But, you know, whatever goes out in the air, we are all  
13 going to breathe it. And I live close to Staley's and ADM. I  
14 live right between the two of them.

15 HEARING OFFICER LANGHOFF: How close do you live to Wallace  
16 Pharmaceuticals? About the same, about five miles?

17 MS. RUTH RIDDLE: Well, what do you think?

18 MS. BARBARA RIDDLE: I would say between five and seven  
19 miles.

20 MS. RUTH RIDDLE: Okay. It is between five and seven  
21 miles.

22 HEARING OFFICER LANGHOFF: Okay. Thank you.

23 Ms. Driver, do you have some questions?

24 MS. DRIVER: Yes, just briefly.

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CROSS EXAMINATION

BY MS. DRIVER:

Q. You said that you sent for some information from the EPA?

A. Uh-huh.

Q. Is that right?

A. Yes.

Q. Were you looking for information on pollution in general in the Decatur area?

A. Well, if you lived -- yes. If you lived in my neighborhood, you can wash your car and the next morning you can go out and it needs washed again. That's just how bad it is.

Q. So you were just trying --

A. And I had a lot of allergies, too. So I wanted to know what it was.

Q. What did the EPA then give you when you asked for information from them?

A. I don't know. Just several sheets of, you know, the different emissions that came from Staley's and ADM.

Q. Okay.

A. I gave it to the doctor.

Q. Okay.

A. I don't have it now.

MS. BARBARA RIDDLE: She has it.

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1 MS. RUTH RIDDLE: Yes, she has it.

2 MS. DRIVER: Okay. That's all I have.

3 MS. RUTH RIDDLE: And also we do both go to the same  
4 doctor.

5 MS. DRIVER: Thank you very much.

6 HEARING OFFICER LANGHOFF: All right. Any questions, Mr.  
7 Matoesian?

8 MR. MATOESIAN: No.

9 HEARING OFFICER LANGHOFF: Ms. Liu?

10 MS. LIU: Yes.

11 CROSS EXAMINATION

12 BY MS. LIU:

13 Q. Ruth, how long have you and Barbara lived here?

14 A. I think she lived here all her live.

15 MS. BARBARA RIDDLE: Yes, I have lived here all my life.

16 MS. RUTH RIDDLE: And I have lived here since I was, oh,  
17 about 18.

18 MS. LIU: Okay. Thank you.

19 HEARING OFFICER LANGHOFF: All right. Thank you, Ms.  
20 Riddle.

21 All right. Are there any other members of the public that  
22 would wish to participate today?

23 Okay. There are none.

24 Prior to the hearing today we had a discussion regarding

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1 the availability of the record and the submission of briefs. I  
2 have set a briefing schedule. Before we get to any closing  
3 arguments, if any, I will go ahead and read that schedule into  
4 the record.

5 The transcript of these proceedings will be available from  
6 the court reporter by July 26th of 2002. I will establish a  
7 public comment period of 14 days.

8 Wallace Pharmaceuticals' brief will be due by August 16th  
9 of 2002. The mailbox rule will apply.

10 The Agency's brief will be due by August 23rd of 2002 and,  
11 again, the mailbox rule will apply.

12 The transcript of the proceedings is usually put on the  
13 Board's web site within a few days of its availability. I would  
14 just like to note that our web site address is [www.ipcb -- that](http://www.ipcb--.State.il.us)  
15 stands for Illinois Pollution Control Board -- [.State.il.us](http://.State.il.us).

16 All posthearing public comments are due by July 30th of  
17 2002, and must be filed in accordance with Section 101.628 of the  
18 Board's Procedural Rules.

19 The mailbox rule set forth at 35 Illinois Administrative  
20 Code 101.102(d) and 101.144(c) will apply to any posthearing  
21 filings. That means that any posthearing public comments must be  
22 put in the mail and postmarked by July 30th of 2002.

23 Is there anything further from the parties before we  
24 conclude?

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1 MS. DRIVER: No, Mr. Hearing Officer.

2 MR. MATOESIAN: No, Mr. Hearing Officer.

3 HEARING OFFICER LANGHOFF: Okay. Thank you. At this time,  
4 I would like to note for the record there are no other members of  
5 the public present that want to make statements on the record.

6 I am required to make a statement as to the credibility of  
7 witnesses testifying today during the hearing. This statement is  
8 to be based upon my legal judgment and experience. Accordingly,  
9 I state that I found all the witnesses testifying today to be  
10 credible. Credibility is not an issue for the Board to consider  
11 in rendering its decision in this case.

12 At this time I will go ahead and conclude the proceedings.  
13 It is still Tuesday, July the 16th of 2002, at approximately  
14 11:56 in the morning. We stand adjourned.

15 I thank you all for your participation, and wish everyone  
16 to have a good day and a safe drive home.

17 MS. DRIVER: Thank you.

18 MR. MATOESIAN: Thank you.

19 HEARING OFFICER LANGHOFF: Thank you.

20 (Petitioner's Exhibit A was retained by  
21 Hearing Officer Langhoff.)

22 (The hearing concluded at approximately  
23 11:56 a.m.)

24

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1 STATE OF ILLINOIS )  
 ) SS  
2 COUNTY OF MONTGOMERY)

3 C E R T I F I C A T E  
4

5 I, DARLENE M. NIEMEYER, a Notary Public in and for the  
6 County of Montgomery, State of Illinois, DO HEREBY CERTIFY that  
7 the foregoing 74 pages comprise a true, complete and correct  
8 transcript of the proceedings held on the 16th of July A.D.,  
9 2002, at the Macon County Courthouse, 253 East Wood Street,  
10 Decatur, Illinois, in the case of Wallace Pharmaceuticals, Inc.,  
11 v. Illinois Environmental Protection Agency, in proceedings held  
12 before Hearing Officer Steven C. Langhoff, and recorded in  
13 machine shorthand by me.

14 IN WITNESS WHEREOF I have hereunto set my hand and affixed  
15 my Notarial Seal this 24th day of July A.D., 2002.  
16  
17  
18

19 Notary Public and  
20 Certified Shorthand Reporter and  
21 Registered Professional Reporter

22 CSR License No. 084-003677  
23 My Commission Expires: 03-02-2003  
24

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