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PETERS TOWNSHIP PUBLIC HEARING

MAY 2, 2011, 7:30 P.M.

COUNCIL MEMBERS:

- Chairman Robert Atkison - At Large
- Vice Chairman Monica R. Merrell - District B
- David M. Ball - District A
- James F. Berquist - District D
- Robert Lewis - At Large
- Gary J. Stiegel, Jr.-At Large

ALSO PRESENT

- Mr. Silvestri
- Mr. Zuk
- Mr. Johnson

Reported by William E. Weber, RDR, CRR
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1 Representing the Petitioners:

2 Tammy Ribar, Esquire
3 Houston Harbaugh
4 Three Gateway Center
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6 22nd Floor
7 Pittsburgh, PA 15222

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1 (Monday, May 2, 2011, 7:30 p.m.)

2 CHAIRMAN ATKISON: Good evening, ladies and
3 gentlemen. Welcome to continuation of the public
4 hearing held on March 21, 2011. Roll call,
5 Mr. Silvestri.

6 (All Council present)

7 (Pledge of Allegiance recited)

8 CHAIRMAN ATKISON: The purpose of this
9 hearing is to accept additional comments on the proposed
10 curative amendment challenging the validity of the
11 Peters Township Zoning Ordinance regulating funeral
12 homes and crematories filed by te Audia Invest Group,
13 LLC.

14 This hearing has been advertised in the
15 Observer Reporter on April 18th and 25th, on township
16 bulletin boards, the website cable television. A copy
17 of the proposed ordinance and prior transcript was
18 available on the website.

19 Council will not be taking action on the
20 proposed ordinance this evening. If the hearing is
21 closed this evening, action will be taken at the May
22 23rd regularly scheduled Council meeting.

23 I would like to note this is a continued
24 hearing and for purposes of efficiency, if you have

1 testified before, you do not -- we do have those
2 comments and they need not be repeated again.

3 We will be asking Mr. Johnson, our
4 solicitor, to coordinate the order of the testimony to
5 ensure efficiency and the proper order for compliance
6 with proper legal procedures.

7 Prior to Mr. Johnson taking on this role, I
8 will ask the township manager if he has any additional
9 things to be placed in record.

10 Once Mr. Johnson has completed coordination
11 of the necessary testimony, we will then open the
12 comments to the audience for additional testimony.
13 Mr. Silvestri.

14 MR. SILVESTRI: Thank you, Mr. Atkison, I do
15 have a few items to be placed into the record. First,
16 there is a report titled Evaluation of Funeral Home with
17 Crematory Variance Request, Part 2 dated April 2011 from
18 Dr. Stanley Penkala.

19 There is a letter from Jerry McDevitt,
20 attorney of resident plan dated April 26 requesting to
21 be a party to matter. There were a number of emails
22 received over the weekend and today that would be
23 included.

24 They are one from Cheryl Ferris dated May

1 2nd, these are all in essence opposed. One from Willard
2 and Karen Martin dated May 1st. Fedor R. Salva dated
3 May 1st. Susan and George Anderson dated May 1st.
4 David Miller dated May 1. Lynn Williams dated April 29.

5 We also received a packet from the applicant
6 which everybody has before them. Mr. Johnson.

7 MR. JOHNSON: Thank you, Mr. Silvestri. I
8 believe at the conclusion of the first hearing we left
9 the record open in order that Ms. Ribar could present
10 additional testimony or pursue whatever
11 cross-examination she sought at this time relative to
12 witnesses that had been presented. Do you have anything
13 else that you want to present at this time, Ms. Ribar?

14 MS. RIBAR: Not with respect to the
15 witnesses that testified at the last hearing. We are a
16 bit unclear whether this hearing was intended to just
17 remain open Dr. Penkala to have the opportunity to
18 review the revised report that CEC submitted the morning
19 of the hearing.

20 MR. JOHNSON: No, we are not limiting scope
21 of the hearing.

22 MR. LEWIS: In fact, I thought part of the
23 reason we were having the continuation was your
24 challenge to want an opportunity to cross-examine some

1 of the people that testified before.

2 MS. RIBAR: After reviewing the transcript,
3 we see no need to cross-examination.

4 MR. JOHNSON: Do you have anything else you
5 want to present at this time?

6 MR. RIBAR: We do.

7 MR. JOHNSON: Not barring you from
8 presenting stuff you know, as a response to whatever may
9 arise out of the hearing.

10 MS. RIBAR: We do, do you want that to occur
11 now?

12 MR. JOHNSON: Yes.

13 MS. RIBAR: First some housekeeping issues
14 that I did want to address with regard to the
15 transcripts from the March 21st hearing. I understand
16 that was adopted as the official transcript. But it
17 also includes attachments that pertain to the March 28
18 regular Council meeting which are not related to the
19 crematory with one exception, just merely one indication
20 on page 10 of a stack about this high of a continued
21 hearing.

22 So, we just wanted to make sure those were
23 not supposed to be attached as part of the official
24 transcript but that was perhaps an oversight or error of

1 some kind.

2 MR. SILVESTRI: Correct, what Council
3 received as the official transcript was purely the
4 transcript. That is what they acted on. What happened
5 was after the hearing you had asked for a copy of the
6 transcript as well as other additional information. I
7 think my staff put that all together in a document to
8 you.

9 MS. RIBAR: Okay. Also, some of our
10 exhibits were not listed on an April 4st posting on the
11 township website, as applicant exhibits, specifically
12 Exhibits 1, 2, 3 and 5 from the binder that we had
13 presented at the last meeting were not included. I
14 think maybe because the drawings were large and Exhibit
15 5 was something that was a township exhibit. But just
16 to be clear for the record, we wanted to make sure that
17 the binder that consisted of the 39 numbered and indexed
18 exhibits be part of the record as the official applicant
19 exhibits. And we did give a copy of that to the court
20 reporter.

21 As Mr. Silvestri noted, we also have
22 additional exhibits to present tonight numbered 40
23 through 47 which we will go through as we proceed.

24 As a question for you, Mr. Johnson, do you

1 intend to have Dr. Penkala speak as to his updated
2 report?

3 MR. JOHNSON: I believe that is easier for
4 that purpose.

5 MS. RIBAR: Would you like --

6 MR. JOHNSON: If you concluded your case in
7 chief.

8 MS. RIBAR: Well, part of the case in chief
9 is in response to Dr. Penkala's report. Mr. Macoskey
10 did some revised modeling at the suggestion of
11 Dr. Penkala.

12 MR. JOHNSON: We will have Dr. Penkala
13 testify now.

14 MS. RIBAR: If you mean just temporarily
15 until we can proceed after that?

16 MR. JOHNSON: Yes.

17 MS. RIBAR: Yes, thank you.

18 MR. JOHNSON: Dr. Penkala, you have an
19 updated report?

20 DR. PENKALA: Yes, I received the revisions
21 to the CEC report the morning of the last meeting and
22 had a chance to review that since and submitted a
23 summary of the observations I made on that.

24 And there is obviously room for them to come

1 back with addendums and additional work relative to what
2 they had done to this point.

3 I'm not going to go over a lot of the
4 technical details. In summary, my conclusions and
5 recommendations effectively say that the CEC-2 report
6 did a credible job of applying Screen 3 to the proposed
7 crematory facility. They considered Simple Terrain,
8 Building Cavity Downwash and Complex Terrain.

9 I indicated the need for better
10 documentation on the estimated exit gas flow rate. I
11 indicated that the PE -- the Pennsylvania DEP
12 requirements for particulate and SO2 emission rates
13 ought to be met by the proposed installation. Based on
14 the information that was, additional information that
15 was contained in the addendum.

16 And I indicated that the CEC revision report
17 demonstrated that all HAPS species passed the EPA risk
18 concentration screen with the exception of Chromium VI.
19 And I further indicated that the potential reasons that
20 that particular chemical did not need meet the standard
21 is possibly related to the lack of estimated emission,
22 estimates, or lack of credible emission estimates of
23 that particular species in the testing that was provided
24 such that additional data might document Chromium VI

1 emissions would pass those screening tests.

2 Implicit in that statement is that mercury
3 specifically met all of the criteria the EPA set forward
4 as far as screening. Even with the maximum estimates of
5 mercury emissions per case treated by a crematoria.

6 I did indicate that the screening should
7 compare the maximum hourly concentrations against the
8 EPA risk screening concentrations without recourse to
9 estimated hours of operation because there effectively
10 was no way of credibly limiting the source to an
11 operating schedule without significant additional
12 controls on the issuance of a permit.

13 The final recommendation or summary was that
14 the proposed installation, if it could not meet the risk
15 screening criteria using Screen 3 or another
16 EPA-approved screening model, demonstration of accepted
17 concentrations might require recourse to refine modeling
18 more closely represents the site meteorology and
19 dispersion conditions.

20 So, in my opinion it comes down to a
21 regrettable lack of good estimates of the emissions that
22 could take place during the crematory process. And that
23 is a function of essentially the literature presented to
24 date not having sufficient cases and estimates of those

1 species that were subjected to the EPA screening.

2 The modeling itself for the most part
3 demonstrates compliance, with the exception of as I
4 mentioned the Chromium VI. However, the data itself has
5 implicit indications that the emissions of some of these
6 species exhibit considerable variability. In the case
7 of cadmium, for instance, there is a factor of 100
8 difference between the highest and lowest estimates on
9 three tests that were presented that had cadmium
10 numbers.

11 So we have uncertainty in the input data,
12 therefore, we will have uncertainty in the output
13 modeling results.

14 That's pretty much the extent of the
15 evaluation I presented.

16 MR. JOHNSON: Thank you, Dr. Penkala. Your
17 report of April 21st has been put into the record. Ms.
18 Ribar, do you have any questions of Dr. Penkala?

19 MS. RIBAR: Yes.

20 EXAMINATION

21 BY MS. RIBAR:

22 Q. Dr. Penkala, with regard to Chromium VI, are you
23 aware of any better data that is available?

24 A. No.

1 Q. And you had stated that there is a regrettable
2 lack of good estimate of emissions as a function of the
3 literature presented to date and that would be
4 literature available to yourself and to your profession
5 in general, that is not just limited to data we
6 presented to you, correct?

7 A. That's correct. And I should comment that I did
8 not do a literature search to determine the existence or
9 lack thereof of any addition information.

10 Q. So you are not aware of any additional
11 information?

12 A. Correct.

13 Q. As far as the specific estimates for these
14 chemicals, would you agree that it is what Mr. Macoskey
15 did in his various reports is based on the best
16 available data that is out there?

17 A. Well, to the extent that the EPA source that he
18 used is supposedly the most credible source, that's
19 true. I don't know whether the crematory associations,
20 and so forth, have produced any additional numbers or
21 credible numbers to augment that information.

22 Q. We do have somebody here from Matthews that can
23 address that. But before we get to that issue, your
24 last conclusion in your part two report stated that

1 there may be more refined modeling that is necessary.

2 Would you find that helpful if the underlying

3 information was the same?

4 A. No.

5 Q. Again, I don't want to get overly technical, but

6 as far as the chromium numbers and the difference

7 between the EPA screening and the test results from the

8 modeling, can you summarize what that difference is?

9 A. I don't have the exact numbers in front of me,

10 but --

11 Q. Would you consider it to be significant, close?

12 A. It was close. It was so close that I believe it

13 is well within the variability I would assign to that

14 chromium emission factor in the first place.

15 Q. Given the variability and the limited information

16 that is available and how close the numbers were, would

17 you recommend to Council that they deny this application

18 on the basis of that one test for chromium?

19 A. I'm not going to put myself in the position of

20 making a decision for them.

21 Q. What is your opinion?

22 A. My opinion is that that should not disallow

23 passing or allowing the permit.

24 MS. RIBAR: Thank you.

1 MR. LEWIS: If I try to understand what you
2 said, my reasoning, it would not be grounds in itself to
3 reject the application?

4 Correct.

5 MR. LEWIS: Is that a good way of saying it?

6 A. Yes.

7 Q. And Dr. Penkala, just to be clear, other than
8 Chromium VI which is on the borderline there, all of the
9 other materials and chemicals that were tested exceed
10 the EPA testing thresholds, correct?

11 A. They do not exceed.

12 Q. I'm sorry, they are within the EPA?

13 A. They are within the thresholds. Of course, most
14 of them have the same problems with variability as the
15 Chromium VI with the exception of mercury. Mercury
16 appears to be the most documented and best estimated
17 emission factor so that the results that came out of the
18 screening for mercury are credible and indicate
19 compliance.

20 Q. And to be clear then, the DEP does not require
21 the specific testing in connection with its permit
22 application?

23 A. That's correct, they only require the particulate
24 and the SO2.

1 Q. And you noted that this would meet the
2 particulate and SO2 emission rates?

3 A. Yes.

4 Q. You also noted in your first report that as part
5 of the requirement for the permit, the crematory has to
6 be operated in a manner that does not cause air
7 pollution as defined by the PA DEP?

8 A. Yes.

9 Q. And if I can point Council to tab 44, I have
10 included the excerpt from the PA code section which
11 defines air pollution. And Dr. Penkala, would you agree
12 that air pollution there, do you have a copy of that?

13 A. No, I don't.

14 Q. Would you agree that that definition, I don't
15 want to read it into the record, but would you agree
16 that that discusses air pollution in terms of quantity
17 of chemicals in air concentration that are harmful?

18 A. Yes.

19 Q. And you had made the point to this Council on
20 prior, on a prior occasion that the presence of
21 chemicals alone is not enough, that it is the quantity
22 issue that actually governs whether something is toxic?

23 A. Yes.

24 MR. ARCURI: I have a question. Can

1 something constitute air pollution and not be toxic
2 under that definition?

3 A. Yes. Well, actually the definition says public
4 health, safety or welfare or is or may be injurious to
5 human, plant or animal life or to property and so forth.
6 So, potentially a release which could damage vegetation
7 could be air pollution or which could cause buildings to
8 corrode.

9 MR. ARCURI: What happens if it is just an
10 odor.

11 A. And includes odor as a function of welfare, human
12 welfare.

13 Q. And if the crematory was operated in violation
14 and caused air pollution to be emitted, then its permit
15 could be revoked, right?

16 A. As far as I know. That is a legal question I
17 would say.

18 Q. But you had noted as a condition of getting the
19 permit it be operated in a way that does not emit air
20 pollution?

21 A. Correct.

22 MS. MERRELL: Could I ask a question, Dr.
23 Penkala. Do you know of any circumstances when the EPA
24 has authorized or permitted a township to impose an

1 environmental bond on a company? From what I'm hearing
2 from your statement you are saying that the threshold of
3 chemicals meet the DEP standards at this point. But,
4 from the way you wrote your report it seems like there
5 could be potential for that not to be the case.

6 So would there be any situation which you
7 would, a township would require a bond to make sure that
8 the building stayed within those limits?

9 A. On air pollution, I'm not sure. I know on other
10 things such as mining and such, there are bonds that are
11 required. Restoration after strip mining, things of
12 that nature.

13 MR. BALL: If I may ask a question. The
14 data that is cited in your study and in your review, is
15 that from equipment that is similar or the same as the
16 proposed equipment?

17 A. The information that is presented by CEC came
18 from equipment that is documented to be very similar to
19 the proposed, and in some cases, it came from
20 crematories for which there is no documentation as to
21 whether it was similar or not. Unfortunately, it is
22 hard to track down exactly what the conditions were in a
23 lot of these cases.

24 MR. BALL: You make a statement it says

1 that, this is on page four, the third to last paragraph,
2 it says this is very sketchy information on which to
3 evaluate any source.

4 A. The reasons for that were the lack of
5 documentation that was available from the original
6 sources. The information was provided by, in the CEC
7 report and it was apparently the best available. The
8 lack of documentation was not the problem with CEC. It
9 was a function of the people that put together those
10 original sources.

11 MR. BALL: Are you aware of any local or
12 similar facilities that have been monitored, actually
13 monitored for emissions in this area?

14 A. No. Monitoring is a very expensive operation
15 procedure. And for the low level of emissions from this
16 sort of a source, it would be even more expensive than
17 let's say monitoring emissions from a fast food place.

18 MR. BALL: We are making a lot of seems to
19 be extrapolations as to what potential output is. What
20 is the, how do you determine the species loading in your
21 assumptions? Or doesn't that make a difference, you
22 just are concerned with the output?

23 A. In the test data that was presented there were
24 estimates made of the species loading. I don't know who

1 made those estimates. And I don't know the, I will say
2 the accuracy of those estimates. In some cases it was
3 simply average case loading. In some cases it was more
4 tightly defined which would give you a better measure of
5 the quality of that data.

6 MR. BALL: And then you indicated in the
7 fourth paragraph on page four that some of the EPA test
8 data comes from 1999 when your its, use your words, it
9 is likely not to have computer control combustion
10 process of the newer equipment.

11 A. That was a speculation. I have no indication one
12 way or the other as to whether they had computer control
13 of the temperature, the secondary chamber at the time.
14 But --

15 MR. BALL: But would it --

16 A. It would affect the emissions.

17 MR. BALL: It would be a reasonable
18 assumption that with computer control combustion
19 equipment that you would probably expect better results
20 than non-controlled?

21 A. The emissions would be better controlled. The
22 potential for odor would be reduced considerably. The
23 potential for smoke would be reduced considerably.

24 MR. BALL: You discuss at some length

1 conversions between average cubic feet per day and
2 standard cubic feet. And I understand the difference
3 certainly between the two, but --

4 A. Correction, actual cubic feet.

5 MR. BALL: Actual. Is there anything in not
6 seeing all the data converted to CFM that would lead us
7 lead us to a false conclusion of some kind here?

8 A. As long as you know the temperature and the
9 volume at that temperature, you can make an evaluation
10 of what the standard cubic feet is.

11 MR. BALL: Okay.

12 MS. RIBAR: And I think you raise some good
13 points because in particular the Chromium VI numbers
14 came from a 1992 study. And I think that even
15 Mr. Penkala has recognized that the Power-Pak II unit
16 that the applicant is proposing here is the best
17 available technology that is on the market today.

18 Some of those test results may be
19 significant and different, but again, we are faced with
20 a lack of information and can only use what is out
21 there, and what the EPA test results are or others that
22 -- Mr. Macoskey can attest to. But the technology has
23 advanced. The units are better. And I think it is
24 really important to note there is no specific testing

1 requirement by either the EPA or the DEP. So a lot of
2 this technicality that we are getting into back and
3 forth here is speculation on some level because the EPA
4 has determined that no specific test is required. The
5 DEP does not require specific stack testing, nor does
6 the DEP require site specific evaluation for these units
7 because they already determined they are safe when
8 operated correctly. And they do have follow-up and
9 inspections to confirm that those are continually
10 operated correctly under the permit requirements.

11 MR. BALL: It would seem to me that the
12 manufacturer of this equipment has probably addressed
13 these same questions in the past. And it would seem
14 that it would probably have been to their advantage to
15 collect some data somewhere, and I'm kind of surprised
16 there is not a set of specific data related to this
17 equipment. Unless they intend to address that.

18 MS. RIBAR: We have Paul Matthews here from,
19 Paul Rahill from Matthews. And he is the president of
20 the Cremation Division of Matthews International which
21 is the manufacturer of the unit that is proposed here.

22 Mr. Rahill has authored several of the
23 articles that are in your binder with particularly
24 numbers 18, 19, 20, 21, 22, 23, 24 and 26. So he has a

1 lot of history and information with regard to these
2 units and the industry in general.

3 MS. MERRELL: Could I ask for clarification
4 from Mr. Penkala? You made a comment the EPA considers
5 this safe. Is safe the correct term or is it within
6 legal limits of toxicity?

7 A. In EPA evaluations safe means that you do not
8 have a risk to sensitive population groups from a
9 particular threat. It is not, effectively they are
10 setting the limits. Effectively they evaluate and
11 reevaluate the limits on a routine basis based on
12 additional health studies that have taken place since
13 the last evaluation.

14 As a result, for instance, particulates have
15 changed since the original Clean Air Acts were passed
16 and roughly every five years they have a more stringent
17 standard.

18 I volunteer my time with the Allegheny County
19 Health Department in the evaluation of their state
20 implementation plan. We are currently working on PM 2
21 and a half. I previously worked on PM 10 and total
22 suspended particulate state implementation plans. And
23 they are looking now at an even more stringent
24 particulate standard.

1 MS. RIBAR: Thank you.

2 MS. MERRELL: Thank you.

3 MR. JOHNSON: Before you speak, do you have
4 a report of April 21st that has been offered for the
5 record is a review of the March 18th report that was
6 commissioned by the applicant. And this is in response,
7 correct?

8 A. Yes, it is.

9 MR. JOHNSON: At the end of your report you
10 noted several conclusions and recommendations and I was
11 specifically, I would like to specifically refer you to
12 conclusion number 2 which says estimated exit gas flows
13 rate in CEC-2, the second report, needs better
14 documentation than, quote, per vendor, quote, perhaps by
15 reference to ACFM values from the four stack tests used
16 to estimate the exit gas temperature. Can you perhaps
17 elaborate on that?

18 A. Okay. In the first report that CEC presented,
19 they had a particular value for the exit gas flow rate,
20 the temperature of those gases, and came up with the
21 buoyancy of the stack gases and the exit gas velocity as
22 a result.

23 In the revision they had a revised exit gas
24 temperature based on these four stack tests that I, that

1 were presented, and used that temperature. However,
2 they referenced an exit gas volume of value that just
3 said okay per vendor, 2000 ACFM at such-and-such a
4 temperature per vendor, referencing the vendor.

5 And my comment was simply maybe you should just,
6 since you use the average of the temperatures from those
7 four stack tests, you should also use the average of the
8 exit gas flow rates from those four stack tests, or some
9 other estimate.

10 The unit is supposed to operate with the
11 residence time of one second in the secondary chamber
12 and 1800 degrees at that point given the volume from the
13 secondary chamber and one second radius you come up with
14 a volumetric flow rate at that point which would then
15 decrease down to an actual standard cubic foot, I'm
16 sorry, actual cubic foot per minute emission at the
17 temperature that was documented to be occurring. That
18 would have been one way to do it.

19 They used a particular number. I was just saying
20 it should be better documented. There was no attempt to
21 impugn the data, it was just I thought it ought to have
22 a little more documentation.

23 MR. JOHNSON: What about your conclusion
24 number four that the revised report does not, and I'm

1 paraphrasing, CEC-2 does not demonstrate that all the
2 HAPS species passed the EPA risk concentration screen,
3 specifically Chromium VI is the only species that does
4 not pass.

5 A. That is what I discussed in terms of, by the
6 numbers, Chromium VI had a concentration that was very
7 close to the screening level for Chromium VI. But I
8 also mentioned that because of the poor quality of the
9 input data from the stack test and the only stack test
10 that reported Chromium VI numbers, that I believe that
11 to be a technical difference that likely could be
12 eliminated if there was better data for Chromium VI.

13 All of the other species were below the EPA risk
14 standard, and specifically mercury was well below the
15 EPA limit and mercury is the best estimated emission
16 rate.

17 MR. JOHNSON: When you make reference to
18 screening tests, what are you referring to?

19 A. The EPA has essentially a list of all potential
20 hazardous air pollutants with concentrations that relate
21 to a particular threat of those species to cancer. And
22 by comparing against those numbers, the emissions lower
23 than those particular risk concentration numbers would
24 protect the population against a risk of cancer of one

1 in a million.

2 MS. MERRELL: Could I ask another clarifying
3 question?

4 A. Yes.

5 MS. MERRELL: You talk about comparing
6 maximum hourly concentrations, and then in the paragraph
7 that Mr. Johnson referenced about the plume buoyancy in
8 this version in talking about the shorter period of time
9 or quicker period of time in which the gas is exited.
10 Is there a concentration issue there as far as the
11 velocity that it comes out of the stack? Would that
12 factor into the comparison that you made over a
13 continued period of time? Would there be a different
14 concern about that?

15 A. I'm not sure if I understand your question.

16 MS. MERRELL: If I understood what you
17 talked about, the fact that the gas stays in the chamber
18 4/10ths of the second instead of the required one
19 second.

20 A. No, no, no. The required one second is a
21 standard. The unit is capable of putting air through at
22 a certain amount. If it were to put air through at that
23 high of a flow rate, then it would result in a residence
24 time on the order of 4/10ths of a second.

1 However, like anything else, if you try to mow
2 the lawn and your mower only goes at five feet a second
3 or something like that, then you can't go ahead and push
4 it at 10 feet a second and expect it to do as good a
5 job.

6 So that is where the residence time consumed.
7 You need the one second residence time to eliminate
8 smoke and odor.

9 MS. MERRELL: That was my analogy. I was
10 trying to get an understanding because when you talk
11 about a plume, I think it of something going out. So if
12 it comes out of the tube faster, the same difference of
13 a straw, either you put something in a straw and let it
14 drip out or put it up to your mouth blow it out, it
15 comes out at a higher velocity.

16 A. That's correct.

17 MS. MERRELL: So if it is going up faster,
18 is there a concern about the concentration.

19 A. Actually, if you are pushing more air through
20 than the concentration it will be further diluted.
21 However, if it doesn't have the proper residence time,
22 then you won't be combusting everything as fully as it
23 should be. So it is a balancing act and that is where
24 the computer control allows the unit to maintain the

1 1800 degrees at the one second residence time to
2 efficiently make it work right.

3 MS. MERRELL: Thank you.

4 MR. BALL: You indicated that the EPA's
5 screening numbers, threshold numbers all relate to
6 cancer risk. Is that what you said?

7 A. Pretty much, yes.

8 MR. BALL: Are any of the other, are any of
9 the pollutants or species listed in, on the list, do any
10 of them carry other dangers other than cancer?

11 A. There -- well, I'm not a toxicologist in the
12 sense that I don't know what all of those were related
13 to. I do know that you can have materials enter your
14 body in different ways. It could be that some of these
15 risks are related to damage to other organs other than
16 through cancer. It could be damage to liver, kidney,
17 whatever that would be more acute than a chronic injury
18 like cancer.

19 MR. BALL: We heard, I think we heard some
20 testimony at the last hearing that there were, there was
21 hazard from certain chemicals for renal failure, for
22 various other physiological problems. And I'm just
23 wondering if we are using one criteria which is cancer
24 risk when we ought to be also looking at some other

1 criteria.

2 A. The EPA list is supposed to be looking at the
3 critical risk for whatever that particular hazard, this
4 air pollutant is. So if the thing causes renal failure
5 and it also causes cancer, then the concentration that
6 would produce its effect at the lowest concentration,
7 the lower of the concentrations would be the one they
8 would use for screening.

9 MR. MACOSKEY: Excuse me, can I add
10 something to that? My name is Chris Macoskey. The CEC
11 author of the report. In response to your question, sir
12 several of the constituents are non-carcinogenic, and
13 several are carcinogenic. When one does health
14 evaluation, there are two criteria.

15 There is the generally speaking the
16 one-in-a-million cancer risk which we talked about,
17 there is also a hazard quotient which is generally one
18 for non-carcinogens.

19 So, when you are evaluating health risk with
20 something like hydrogen chloride which is not a
21 carcinogen but it can be an irritant. You would be
22 comparing it to a hazard quotient as opposed to the
23 one-in-a-million cancer risk.

24 MR. STIEGEL: Did you look at those.

1 MR. MACOSKEY: Oh, yes, that all part of
2 those.

3 MR. BALL: Thank you.

4 MR. JOHNSON: Anything else you want to put
5 in the record?

6 MS. RIBAR: Chris, can you elaborate on what
7 the results were, briefly?

8 MR. MACOSKEY: Well, yeah, all of the
9 evaluations of the non-carcinogen showed that there was
10 no, that they were below the hazard quotient of 1 --
11 wasn't any from the non-carcinogen. The only
12 constituent that was of concern as Dr. Penkala pointed
13 out was the accidental Chromium VI was marginally in
14 excess -- the health risk.

15 MS. RIBAR: What do you mean by marginally?

16 MR. MACOSKEY: Oh, slightly over, where the
17 acceptable risk is one in a million, it was 1.4 times 10
18 to the minus six, slightly over the one threshold.

19 MS. RIBAR: So, one in 1,400,000?

20 MR. MACOSKEY: One in a million, 1.4 in a
21 million as opposed to one in a million.

22 MS. RIBAR: Mr. Ball, I believe you had
23 asked about why there was no more recent testing. I
24 believe Mr. Rahill we would introduce can address that.

1 BY MS. RIBAR:

2 Q. Can you introduce yourself please and give the
3 Council a brief background on your experience at
4 Matthews?

5 A. My name is Paul Rahill, R-A-H-I-L-L. I am
6 president of Matthews International Cremation Division.

7 Matthews is a local Pittsburgh company since
8 1850. My experience has been in the design and
9 manufacturing and testing of cremation equipment. I
10 have been employed in this profession since 1975.

11 Q. And with regard to Mr. Ball's question about the
12 testing, why aren't there more specific, more recent
13 test results?

14 A. The, there is very accurate current test
15 information on the common emissions associated with
16 crematories which would be particulate emissions, SO2,
17 carbon monoxide, Inconel, other very common emissions.
18 Those that we don't have quantitative current data on
19 would be the type of items that are on that National
20 Commission's inventory database that they refer to for
21 the modeling that they do.

22 The reason we don't test for those is that nobody
23 has requirements for them. So, there is no need to test
24 for them. So, when it is required on the rare occasions

1 where modeling like this is done, we all use the EPA's
2 database for that information.

3 Q. And would you consider Chromium VI not to be a
4 common, is that an accurate to say it is not a common
5 emission from cremations?

6 A. I can't think of one instance in North America
7 where that is a regulated emission on a crematory.

8 MR. BALL: What is the source of that so
9 that --

10 A. It can be, we had this discussion, it is, there
11 are trace elements in almost everything organic. But in
12 that test that is referred to in 1992 I think is where
13 it came from, that was from source in California. It
14 could be from the wooden coffins that were used at the
15 time, the particleboard caskets. Other than that, I'm
16 not sure where it would come from.

17 MR. BALL: I have seen it associated with
18 coal fire electric plants, and I don't see any coal in
19 this place.

20 A. No, no. But if you look at the trace elements
21 contained in the human body, very minute traces.

22 BY MS. RIBAR:

23 Q. Do you know what substance was used in that 1992
24 cremation that has been an issue here?

1 A. The type of equipment?

2 Q. The equipment and what else was cremated with the
3 body?

4 A. I don't know what was cremated with the body. It
5 might be documented in the original test documents, but
6 the equipment was an All Furnace crematory unit which is
7 a very old model at the time it was tested. We actually
8 acquired that company back in the 90s. We don't even
9 manufacture that style of cremation equipment, it is all
10 been replaced with newer technology.

11 Q. There was some question at the last hearing about
12 what types of chemicals, substances and items are placed
13 in the units for cremation. Can you give some detail on
14 that?

15 A. Well, typically according to the Cremation
16 Association of North America and their data, typically
17 cremations are conducted in cardboard containers. 82
18 percent of all cremations are in some type of cardboard
19 container.

20 About ten percent use wood caskets. And five
21 percent use some sort of particleboard. And the
22 remaining three percent are probably some sort of a body
23 bag from a hospital or some type of unit like that.

24 The industry has made some changes over the

1 years, especially as regard to the 1990 Clean Air Act.
2 They voluntarily eliminated chlorinated plastics from
3 the manufacture of caskets, for instance. So there were
4 questions back in the 1990s about HCI emissions and that
5 was an easy fix for the industry just to eliminate using
6 chlorinated plastics. They also stopped using soft
7 metals for orientation a lot of caskets were being
8 cremated. So the industry has taken proactive steps
9 towards eliminating emissions.

10 BY MS. RIBAR:

11 Q. Dr. Penkala, one additional question for you.
12 You had stated that the screening should compare maximum
13 hourly concentrations against the EPA risk screen. I
14 want the Council to be clear on what that means. Can
15 you explain the maximum hourly concentrations?

16 A. Maximum hourly concentration effectively would be
17 the number that would apply were the operation of this
18 particular unit to take place essentially 8,760 hours
19 per year, effectively assuming that the maximum that
20 under all conditions would be covered by that particular
21 number.

22 It is simply a measure of let's say safety to do
23 that rather than to make estimates on what the actual
24 operating conditions and times would be since

1 effectively you can say well, concentration is 100, but
2 if I only operate 10 percent of the year I have it down
3 to 10 and effectively by adjusting your hours of
4 operations you can meet any standard you wish.

5 Q. And the 8,000 plus hours, would that be a 24/7
6 operation?

7 A. Yes.

8 Q. So that would not account for the warmup period
9 cool down period and removal of remains, if you are
10 operating 24/7 --

11 A. If that is outside the two hour circle for actual
12 cremation, that is correct.

13 Q. So that is assuming a two hour cycle 24 days, 24
14 hours a day, 7 days a week, 365 days a year?

15 A. Yes.

16 Q. Do you know if it is possible for a unit to be
17 operated that much?

18 A. I would say it is impossible for a unit to be
19 operated that much.

20 MS. RIBAR: If I can have a minute? If I
21 could have a minute to make sure that Chris doesn't want
22 to address anything else Dr. Penkala raised. Can we
23 take a break, two minutes?

24 CHAIRMAN ATKISON: Two minutes. Then we

1 will take testimony from the audience.

2 MR. JOHNSON: Mr. Atkison, we've received a
3 written request from Mr. Jerry McDevitt to intervene in
4 this matter. He is a resident in the nearby vicinity.
5 I know that Alice Mitinger and John Kamin are also here
6 on behalf of clients who, although we have not received
7 a written request, they have notified me they intend,
8 are requesting to intervene as a party to this
9 proceeding. So I would suggest that when Ms. Ribar is
10 finished with her presentation that they be given an
11 opportunity to --

12 CHAIRMAN ATKISON: Short break.

13 MS. RIBAR: Thank you.

14 (Recess held)

15 MS. RIBAR: Before we close our case in
16 chief, there was a lot of testimony at the last hearing
17 regarding concerns with devaluation of property
18 surrounding the funeral home and crematory. I would
19 like to present an additional witness to you, Brian
20 Kelly of Kelly, Reilly, Nell & Barna Associates, Inc. to
21 address that in particular.

22 BY MS. RIBAR:

23 Q. State your name.

24 A. Good evening, my name is Brian Kelly, I am a real

1 estate appraiser with the firm Kelly, Reilly, Nell &
2 Barna & Associates located in 3535 Boulevard of the
3 Allies, Oakland.

4 Q. Can you just give a brief educational background
5 and work experience, please.

6 A. I have been appraiser for 20 years. I am a
7 general certified appraiser. I also am a member of the
8 Appraisal Institute and I hold the MAI and SRA
9 designations with the Appraisal Institute.

10 Q. Mr. Kelly's resume is attached as tab 40 on the
11 supplemental documents that we have given to you this
12 evening.

13 Mr. Kelly, are you familiar with this specific
14 location at 3287 Washington Road?

15 A. I am.

16 Q. Did you visit the site prior to this evening?

17 A. I did. Very, very well.

18 Q. Explain what experience you have with this area?

19 A. I have appraised numerous buildings up and down
20 Route 19 directly surrounding the subject property as
21 well as I have been involved in residential appraisals
22 all throughout Peters Township.

23 Q. So you are very familiar with Peters in general
24 and you are very familiar with this specific location?

1 A. I am.

2 Q. When did you visit the site?

3 A. Well, I have been there appraising properties
4 there for the past 20 years, so, but I did actually go
5 and look at the property from all angles one day this
6 week.

7 Q. And if you were to give an opinion as to a
8 neighboring property owner as to the value of their
9 property after this funeral home would be installed,
10 what would that opinion be?

11 A. Well, the funeral home itself would not have any
12 impact on the market value of the surrounding
13 properties.

14 Q. Are you talking commercial and residential?

15 A. I was talking residential. There is other
16 commercial properties surrounding both sides,
17 residential would have no impact on value.

18 Q. And the residential properties that were there,
19 just to clarify, were those there before or after the
20 commercial properties on Route 19?

21 A. The residential properties were built, I believe
22 slightly after the property in question. I believe that
23 building was probably constructed in early 1990s. The
24 houses in question maybe in the late 1990s, or early

1 2000s.

2 Q. Any chance that building could be there prior to
3 1990?

4 A. Yes.

5 Q. Okay. Like you said it was there since the
6 1990s?

7 A. No, I don't know when it was constructed, I
8 didn't have history on the property.

9 Q. So it is your opinion then, what about the
10 crematory, does installation of the crematory into the
11 funeral home change your opinion?

12 A. No, I appraised a number of funeral homes with
13 crematoriums in them as well. I have appraised houses
14 surrounding funeral homes as well as crematoriums and
15 there has never been any discussion on the impact of a
16 crematorium to the property.

17 Q. Have those all been in the Pittsburgh area?

18 A. Yes, Western Pennsylvania.

19 Q. Any questions?

20 MR. ARCURI: How would you know if there was
21 a crematorium in the neighborhood?

22 A. Well, it is a funeral home and there are very few
23 crematoriums, so really as a property owner you don't
24 know if it is there unless you are specifically --

1 CHAIRMAN ATKISON: Folks come on. That is
2 grade school stuff. Okay? I'm serious. Be respectful.

3 MR. ARCURI: I forgot my train of thought.

4 CHAIRMAN ATKISON: Sorry, not my fault.

5 MR. ARCURI: I know.

6 CHAIRMAN ATKISON: You were saying how would
7 you know there is a crematorium.

8 MR. ARCURI: Right, when you would value
9 residential property, how would you know that there was
10 a crematorium within so many feet of it, so many miles
11 of it, how would you ascertain that?

12 A. I don't, it is not required to. I'm looking at
13 the house residential dwelling and I look at things
14 surrounding that property that would impact the value of
15 the property. Therefore, you know, in this particular
16 instance if there is residential housing, commercial,
17 front and on the backside of it, then you are looking at
18 retail uses that surrounds that property. So, that is
19 what you are looking at.

20 MR. STIEGEL: So you are looking at this
21 property with the assumption that if somebody going into
22 the home would have no idea there is a crematorium
23 there?

24 A. Not unless they are looking for it. You are

1 buying the.

2 Home you are looking to see what surrounds it.

3 MR. STIEGEL: If there was a sign on the
4 building saying crematory, would that change your
5 opinion on the value of it?

6 A. No.

7 MR. ARCURI: When were you retained to
8 provide your opinion here tonight?

9 A. I'm not sure the exact date, maybe two, three
10 weeks ago.

11 MR. ARCURI: How much are you being paid for
12 your opinion?

13 A. I'm being paid on an hourly basis based on my
14 time.

15 MR. ARCURI: And how much is that an hour?

16 A. Is that relevant to the case?

17 MR. ARCURI: I'm asking a question, I think
18 you have to answer.

19 MR. JOHNSON: It is relevant.

20 A. I'm being paid \$175 and hour. As I said, I have
21 been a professional for 20 years. I hold the MAI and
22 SRA designations which are covered by the Appraisal
23 Institution.

24 MR. ARCURI: What other pieces of commercial

1 property can you specifically state that you have
2 appraised in Peters Township in the last five years?

3 A. I can't specifically state them because of
4 confidentiality with my clients. But I will tell you
5 within direct view of that property there is probably
6 three or four, maybe more. Actually, one directly
7 across the street.

8 MR. ARCURI: Car dealership?

9 A. I can't tell you which one, I have, it. If you
10 owned the property, you wouldn't want me to disclose
11 what I have done for you as well.

12 MR. BALL: How many properties have you, how
13 many residential properties have you appraised where you
14 specifically knew that there were crematories in the
15 area?

16 A. I can't recall, as an appraiser I really never
17 looked for a crematorium before. I discussed it with
18 funeral home owners, owners of crematories before this
19 case. And that is the extent of what I have known about
20 crematories in funeral homes.

21 MR. BALL: But you did make the statement
22 that a crematory being located there would not impact
23 property value.

24 A. No, because you have to, you are looking to see

1 what the impact on that retail corridor will have on my
2 house, if I would buy that property. Is that going to
3 impact the value of my house having those retail
4 properties surrounding me.

5 MR. ARCURI: What about a fast food
6 restaurant, let's say you had a house and it was right
7 behind a fast food restaurant, would the fact that the
8 fast food restaurant there affect the value of that
9 residential home?

10 A. Again, I haven't done a specific study on a fast
11 food restaurant, therefore, I cannot tell you what the
12 fast food would have opposed to an office building.

13 MR. ARCURI: Well, let me ask you a
14 question, if you had two houses and they were both
15 identical and one was smack next to Burger King and one
16 was 20 miles away, in a purely traditional residential,
17 wouldn't there be an impact on the value?

18 A. There is negative impact on value, that is called
19 external obsolescence, that is your property being
20 affected by surrounding properties.

21 MR. ARCURI: Right.

22 A. And that would have direct impact on the house
23 that is immediately beside it as opposed to one that is
24 20 miles away.

1 MR. ARCURI: Thank you.

2 MS. MERRELL: The way you have just
3 described the situation, that would exist with the
4 residences located directly above that opposed to the
5 crematorium.

6 MS. RIBAR: I think it is important to note
7 that there is commercial there regardless of what it is.
8 Correct me if I'm wrong, I think your testimony is the
9 impact of the commercial district is not affected by the
10 different types of commercial uses that go in there,
11 commercial, whatever is allowed, the commercial is
12 allowed?

13 A. Correct.

14 MR. STIEGEL: I think there is a negative
15 stigma that goes along with burning bodies as opposed to
16 selling Halloween masks.

17 MS. RIBAR: That is why we are here.

18 MS. MERRELL: I think the other concern I
19 have is similar to the concern raised about the other
20 data, that there is a limited amount of data that you
21 are looking at. You haven't actually evaluated or
22 appraised houses next to crematoriums or not that you
23 knew of. So, I'm trying to understand, I understand
24 your comment about the commercial corridor.

1 I'm just trying to understand the relevance
2 of your testimony. I believe you are well qualified,
3 but you haven't convinced me that you actually looked at
4 the data, specific type of data.

5 A. I understand. In fact, I did interview several
6 funeral home owners and the specific case was a property
7 crematorium down in Lawrenceville where I interviewed
8 the owner of the D'alessandro Funeral Home in
9 Lawrenceville and I asked him if there has ever been any
10 opposition to his property being adjacent to residential
11 housing. And the comment he gave me was, the gentleman
12 that lives behind that facility said to him, you know,
13 which is 25 feet behind his property, that it is closer
14 for me to go when I die. So he had no negative.

15 MS. RIBAR: You make a good point, I think
16 to clarify the issue, you can certainly ask Mr. Kelly
17 his opinion if he were to appraise the homes behind the
18 property right now, would that change once the funeral
19 home is installed, and I think he already said in his
20 opinion is no.

21 MS. MERRELL: Once the funeral home is
22 installed isn't exactly the question. Once the funeral
23 home and crematorium.

24 MS. RIBAR: I asked that as well.

1 MS. MERRELL: The funeral home is not the
2 issue.

3 A. All right, the opinion would be if it were toxic
4 or an issue with the environmental hazards to the
5 surrounding houses then there would probably be a
6 negative impact on value. But as has been discussed and
7 what I have learned throughout the case there is no
8 negative, there is no impact, environmental impact.

9 MS. MERRELL: When you do your appraisals,
10 I'm sorry to interrupt, when do you appraisal, you do an
11 evaluation based on comparables.

12 A. Yes.

13 MS. MERRELL: And various factors. Do you,
14 what validity or what percentage of the assessment is
15 emotional, what people perceive, perception perhaps,
16 perception is the correct term?

17 A. You are saying what is the as Mr. Arcuri said,
18 what would the impact be of a house that is situated ed
19 adjacent to a retail center as opposed to a house three
20 blocks over in the subject plan, there would be an
21 impact. Because nighttime you see retail lights, you
22 see cars. So, I don't know if you call it emotional,
23 but you, it would be based on surrounding uses.

24 MS. MERRELL: Thank you.

1 MR. SILVESTRI: You interviewed some funeral
2 home directors and their opinion is that the funeral
3 home has no affect on the value of adjoining property,
4 is that the essence of your testimony?

5 A. No, the question was, was it, the crematorium has
6 had impact on the surrounding uses as well.

7 MR. JOHNSON: You ever appraised a
8 residential property that is adjoined to a crematory.

9 A. Probably. I appraised thousands of properties in
10 my life.

11 MR. JOHNSON: You don't know you have done
12 that?

13 A. Absolutely, I have. I know a specific instance
14 where I have.

15 MR. JOHNSON: Did you take the crematory
16 into consideration in making the appraisal?

17 A. No.

18 MR. JOHNSON: Why not.

19 A. Because it didn't, it wasn't an issue nobody had
20 brought up, the buyer of the property, the seller, the
21 broker, nobody had made it part of the analysis.

22 MR. JOHNSON: For purposes of the appraisal,
23 isn't perception important to you?

24 A. Absolutely. But again --

1 MR. JOHNSON: You don't think there is a
2 negative perception that goes along with the crematory?

3 A. I didn't find that it did. In my opinion there
4 is no negative impact on value.

5 CHAIRMAN ATKISON: Okay.

6 MS. RIBAR: We rest.

7 MR. JOHNSON: I previously identified that
8 Mr. McDevitt and Ms. Mitinger and Mr. Kamin is here on
9 behalf of either themselves or clients. Do you have any
10 understanding how you should proceed and what order you
11 want to precede?

12 MR. McDEVITT: I don't have any
13 understanding but I will certainly be glad to go first.
14 I don't know what your format is.

15 My name is Jerry McDevitt, I am a resident
16 of Peters Township since 1987. I live on 110 Sherborne
17 Drive, and I am a lawyer. And I'm here to represent my
18 personal interests. I have a presentation I wish to
19 give you later, but I do have some questions that I
20 would like to ask the last witness and perhaps
21 Dr. Penkala.

22 The cross-examination will be by definition
23 not complete because the data that you need to
24 understand what is going on is not before the Council

1 which I will develop for you later.

2 But if I may, I would like to ask Mr. Kelly,
3 the last witness a few questions. Just a few questions
4 for Mr. Kelly.

5 BY MR. McDEVITT:

6 Q. You indicated you work by the hour?

7 A. Yes, sir.

8 Q. How many hours did you spend on this appraisal?

9 A. It has been 20 years of experience as well as
10 reading the documents.

11 Q. Sir, that is not my question.

12 A. I don't have the document here with me.

13 Q. My question is since you were retained for
14 purpose for which you came here today --

15 A. I do not --

16 Q. Let me finish my question. How many hours did
17 you spend studying that?

18 A. I do not have it documented here with me.

19 Q. Ten?

20 A. I do not have it here.

21 Q. 20?

22 A. I don't have the number.

23 Q. What have you charged here today?

24 A. Zero.

1 Q. Zero. I take it you disagree with the last
2 person they brought in here who tried to tell everybody
3 residential values would actually increase if a
4 crematorium is put in?

5 A. I --

6 MS. RIBAR: I object. There was no such
7 testimony from an expert witness. That was a comment
8 that I made based on the Penn State study presented to
9 you where that comment was specifically noted there was
10 a specific notation in that study that some property
11 values surrounding that crematory did increase.

12 Q. I'm referring to witness they brought in for
13 Audia Group that came in here and testified in one of
14 the more laughable segments the property values would
15 actually increase if the crematorium was present. I
16 will rely on Council's memory for that.

17 Now you said, sir, that you don't consider this
18 fact the crematorium is next to houses would have a
19 negative impact because I think you said there is no
20 environmental impact, right?

21 A. From what these gentlemen have said.

22 Q. You are relying solely on that?

23 A. Yes, I am not an engineer, I don't study these
24 things, it is not my profession, I'm a registered real

1 state appraiser.

2 Q. If there is a negative impact on the property
3 value, then I think your view would change, correct?

4 Let me rephrase that. If, in fact, the science is wrong
5 here and there is a negative impact, then your opinion
6 would change, I take it?

7 A. I would have to do the analysis. Could be.

8 Q. And are you familiar with Fannie Mae?

9 A. I am.

10 Q. I dug out, sir, an official appraisal that I got
11 when I bought my home in 1999. Would you care to guess
12 what one of the questions is that they ask you on the
13 official appraisal?

14 A. If there is any environmental impact?

15 Q. Let me be specific and read it for you, sir.
16 Page 1, adverse environmental conditions such as but not
17 limited to hazardous waste, toxic substances, present in
18 the improvements, on the site, or in the immediate
19 vicinity of the subject property. How would you answer
20 that question?

21 A. If it has been proven that there are no
22 environmental problems with the surrounding properties,
23 I would answer no.

24 Q. Is the reason that question is asked is because

1 the answer to that if there are environmental conditions
2 present that affects the appraisal in a negative way?

3 A. I think that has specifically to do with that
4 property. Do you have 55 gallon drums on your property,
5 do you have propane tanks? That is what that question
6 is pertaining to.

7 Q. That is what you read that to mean?

8 A. Yes, sir.

9 Q. It says, present in the improvements, on the site
10 or in the immediate vicinity of the subject property.

11 A. Right.

12 Q. What do you consider to be the immediate vicinity
13 of the crematorium?

14 A. If it is environmentally hazardous to that
15 property, then.

16 Q. How about the house right behind it?

17 A. Has it been proven to be an environmental hazard
18 to the property?

19 Q. Within 150 feet, do you consider that to be
20 within the immediate vicinity of the crematorium?

21 A. Sure.

22 Q. If that crematorium is spewing out methyl
23 mercury, would you want your children to breathe that?

24 A. I don't know anything about methyl mercury, sir.

1 Q. Do you have any idea of what the value of the
2 properties are?

3 A. I have a range.

4 Q. What would you guess they are?

5 A. Ranging from 350 to a million.

6 Q. To a million. Do you think somebody who is going
7 to put down a million dollars for a home has no choices
8 but to buy a place next to a crematorium?

9 A. They are looking at the surroundings and they are
10 not going, they are going look at retail corridor this
11 that this property surrounds.

12 Q. If you spend a million bucks, sir, on your dream
13 house --

14 A. You are not going to build it into a retail area.

15 Q. Let me finish the question then I will give you
16 the privilege of answering.

17 A. Yes, sir.

18 Q. If you are going to spend a million dollars on
19 your dream house, sir, are you going to go look around
20 and see if you find one located next to crematorium?

21 A. I am going to look in an area that doesn't back
22 up to a retail corridor.

23 Q. But you would --

24 A. To build a million dollar house.

1 Q. You wouldn't look for a house that had a
2 crematorium present, would you? And if you had
3 children, you knew there were risks associated with
4 that, would you put your children in that environment?
5 You sir?

6 A. I'm not familiar with what the environmental
7 hazards are, so I can't answer the question.

8 Q. Well, if you knew that mercury was coming out of
9 there and mercury is a powerful neurotoxin and any
10 exposure creates a risk to that child, would you buy
11 that house?

12 A. No, if it were proven to be detrimental to their
13 health, I would not.

14 Q. I'm sort of curious now, if you are marketing
15 these houses, with all this, somebody comes to you now
16 says I'm interested in a property on Sussex, are you
17 going to tell them about this? Are you going to tell
18 them there say crematorium down there, just so you know,
19 or are you not going tell them?

20 A. If it has no impact on value, there is no reason
21 to tell them about it.

22 Q. So you wouldn't tell them?

23 A. No.

24 Q. You would not tell a prospective buyer that there

1 is a crematorium?

2 A. There is no reason to tell them.

3 Q. And have you ever walked down Sussex?

4 A. Yes.

5 Q. Do you know which way the wind blows?

6 A. Every way.

7 Q. Have you ever turned the corner at Sherborne and
8 walked down Sussex?

9 A. Probably.

10 Q. Blow your hair back? Seriously?

11 A. I didn't recognize, I have no idea.

12 Q. Do you know which way the prevailing winds are
13 from the crematorium stacks?

14 A. From various different directions, I bet.

15 Q. Did you bother to look?

16 A. No.

17 Q. Did you bother to ask?

18 A. There was no reason to.

19 Q. Have you ever worked for Houston Harbaugh before?

20 A. Yes.

21 Q. How many times?

22 A. Various times.

23 Q. Did you ever work for Ms. Ribar before?

24 A. I have.

1 Q. How much money have you made working for her?

2 MS. RIBAR: I'm sorry, this is really --

3 Q. Goes to bias. Bias is always material.

4 A. It is because I'm a qualified professional.

5 Q. That begs the question. Bias is always material.

6 How much money have you made working for Ms. Ribar doing
7 this sort of things.

8 MS. RIBAR: I can answer that --

9 Q. I didn't ask you, I asked him.

10 A. I can't recall. It has been many years.

11 Q. How many times?

12 A. 20.

13 Q. 20. This is the 20th time you have testified in
14 matters involving --

15 A. I have not testified, I have done different
16 properties for different reasons.

17 Q. No further questions at this time.

18 MR. JOHNSON: I have been requested by other
19 counsel if they could also participate and cross-examine
20 these witnesses. I think that is appropriate way to
21 proceed. So with that in mind, Alice Mitinger is here
22 and John Kamin is here on behalf of their clients.

23 I would suggest that they be permitted to
24 participate at this point.

1 Mr. Kamin, can you identify your client and
2 are you asking to be intervene as parties to this
3 matter?

4 MR. KAMIN: My name is Jonathan Kamin,
5 K-A-M-I-N. I'm with the law firm of Goldberg Kamin and
6 Garvin, our address is 1806 Frick Building, Pittsburgh,
7 PA 15219. I'm here on behalf of the residents of Sussex
8 Drive.

9 Specifically, I can list all nine of them
10 for you but they are basically run the 200 block of
11 Sussex Drive and they are within, the closest is within
12 less than 500 feet to the property. I think the further
13 is right around 800 feet from the subject. I will
14 provide, I have spoken with Mr. Johnson. It is our
15 request to intervene as a party. We believe we have
16 standing under, because we have a material property
17 interest that is within the vicinity of the property.

18 So specifically the Bellicini's are the
19 closest to the property. They are probably within
20 probably 400 feet.

21 MR. JOHNSON: On that basis I would
22 recommend Mr. Kamin be recognized on behalf of the
23 client parties to the matter.

24 MR. ARCURI: He will supply us a list.

1 Q. I will supply all nine for you.

2 MR. ARCURI: Okay.

3 MR. JOHNSON: All right.

4 BY MR. KAMIN:

5 Q. Mr. Kelly, you are an MAI, is that correct?

6 A. I am.

7 Q. Can you briefly explain to Council what that
8 means?

9 A. I'm a member of the Appraisal Institute. I have
10 been through peer review. I have taken a two-day
11 comprehensive. I went through, I created a
12 demonstration report which was provided to the Institute
13 and was provided a passing grade.

14 I have thousands of hours of experience which is
15 required in order to become MAI. I completed all those
16 in 19 -- mid 2000s. I can't remember what year I had my
17 MAI, since 2000, mid 2000.

18 Q. As far as your work on this specific property,
19 can you describe briefly again because I don't think it
20 was clear, what was the work you did to go ahead and
21 analyze the property.

22 A. I have read some of the documentation that was
23 provided to me from some of the professionals. I have
24 also interviewed several funeral home directors both

1 with crematoriums and without. And I reviewed some of
2 the past appraisals that I have done in areas that had
3 crematoriums.

4 Q. So you haven't done any specific study that would
5 tell what the value or the impact of the value was of
6 the crematorium on a particular piece of property, you
7 merely reviewed your database, correct?

8 A. I have. I have not done a specific study.

9 Q. Now to do eye specific study, I want to outline
10 the scope and I want you to tell me if this is what
11 would be required do a professional appraisal report on
12 the value. You would first have to go ahead and
13 identify properties that were surrounded by
14 crematoriums, correct?

15 A. Correct.

16 Q. And after you had identified those properties,
17 you would have to go ahead and make an analysis as to
18 whether that crematorium operated at this same level or
19 the same type of equipment as the one that is proposed,
20 correct?

21 A. Correct.

22 Q. Then after making that analysis, the next thing
23 you have to do is you have to look for sales of property
24 that occurred surrounding the crematorium, correct?

1 A. Correct.

2 Q. And then to determine if there was an impact on
3 the value of those specific properties, you would have
4 to look and see whether they have resold after a
5 crematorium had been put into the neighborhood, correct?

6 A. Correct.

7 Q. So you would have to look at the property before
8 a crematorium coming in and then you have to look at the
9 value of the property after the crematorium came in?

10 A. Yes.

11 Q. And then in order to establish that value you
12 also have to go ahead and do, so you need two sales of
13 the same property, is that correct?

14 A. Of similar properties.

15 Q. Okay, so two sales of similar properties within a
16 reasonable time period that would be both before and
17 after, is that correct?

18 A. Correct.

19 Q. And then in order to go ahead and determine
20 whether or not the crematorium had any value, you would
21 then have to go ahead and look at the local municipality
22 to see if there were any building permits that had been
23 pulled, if there had been any changes in assessments or
24 alterations to the property, correct?

1 A. Correct.

2 Q. And only after determining that there were no
3 alterations to the property you would then compare the
4 first sale with the second sale to see if there was a
5 change in value?

6 A. Correct.

7 Q. So, so far I have accurately described what
8 appraisal methodology would be to determine whether or
9 not a new land use had an impact on value, is that
10 correct?

11 A. Depending on the scope you asked me to provide,
12 that would be what you could do to that extent.

13 Q. And as part of that analysis, you would need more
14 than one sale, you need multiple sales to test as to
15 whether or not that impact was related to the
16 crematorium, is that correct?

17 A. You could, yes. Multiple sales, two sales.

18 Q. Right, you can't do it on one sale?

19 A. No.

20 Q. Now, have you done, have you followed any of
21 those steps with regard to the testimony that you
22 offered this evening?

23 A. No, the scope was not to provide a detailed
24 analysis of it. It was if I had done properties, if it

1 had ever impacted values the properties I have appraised
2 in the past.

3 Q. And as far as impacting values of properties you
4 appraised in the past, as part of your scope of work or
5 analysis of problem analysis, did you review whether or
6 not crematoriums had been placed around or near those
7 properties prior to conducting, or performing your
8 appraisal?

9 A. No, I haven't, because they were never proven to
10 be an environmental detriment to properties surrounding
11 it, so it was not required.

12 Q. So, as far as it not being required, you are
13 saying it wasn't required for the scope of the
14 appraisals that you perform previously?

15 A. Correct.

16 Q. But do you know of any of those properties you
17 appraised if any of them came before or after a
18 crematorium, and if any of them sold before or after a
19 crematorium?

20 A. I didn't perform that analysis.

21 Q. And don't you think that analysis would be
22 necessary to accurately determine if there is going to
23 be a detriment on property values by the addition of a
24 crematorium?

1 A. No.

2 Q. Why wouldn't that be necessary to tell if an
3 addition of crematorium would hurt that?

4 A. In my profession, in my experience crematoriums
5 have never been proven to be an external problem on
6 surrounding properties, therefore, we have never needed
7 to look at it that closely.

8 Q. And if you knew that it was, that there was an
9 external problem in crematoriums on surrounding
10 properties, would that go ahead and change your analysis
11 that you just did?

12 A. It would.

13 Q. Now, with respect to the homes on Sussex, do you
14 know the difference in elevations between the street
15 that the homes are situated on and Route 19?

16 A. I don't know the exact elevation, probably 50 to
17 60 feet above?

18 Q. And do you know if the proposed crematorium would
19 have a smoke stack?

20 A. From what I understand it will.

21 Q. And do you know the height of those smoke stacks?

22 A. Not the exact height.

23 Q. Do you know if a crematorium smoke stack would go
24 ahead and have emissions that would come out of it?

1 A. From what I understand it has heat but no
2 emissions.

3 Q. Let's just assume that you are correct it has
4 heat that is coming out of it. If there is a smoke
5 stack of a heat source that is 10 feet below somebody's
6 residential backyard, do you think that will have a
7 negative impact on the value of the property?

8 A. Depending on the distance if it is going to
9 protrude into the adjacent property.

10 Q. So, when you say it, you are talking about the
11 emission?

12 A. Emissions or heat.

13 Q. Do you know if there is any plan by the applicant
14 to go ahead and to control those emissions so that they
15 do not protrude onto the adjacent residential
16 properties?

17 A. I don't.

18 Q. Do you know if hot air generally rises or sinks.

19 A. It rises.

20 Q. So, would it be safe to assume that it would rise
21 10 feet up to the adjacent residential property?

22 A. Again, I'm not an environmental, I don't know how
23 far it rises.

24 Q. In any of the appraisals that you looked at to

1 make this determination as to impact to value, did you
2 look at any properties that were above the elevation of
3 the facilities?

4 A. I see the one specific case it was at the same
5 level as the facility.

6 Q. So, no --

7 A. To answer your question, no.

8 Q. You previously appraised residential properties
9 that are adjacent to commercial uses, correct?

10 A. Yes.

11 Q. Have you previously appraised residential
12 properties that are adjacent to industrial uses?

13 A. Yes.

14 Q. And as far as a residential property adjacent to
15 an industrial use, are there different factors that go
16 into valuing that versus commercial use?

17 A. Appraising the residential versus the commercial?

18 Q. Appraising a residence situated next to
19 commercial versus a residence situated next to
20 industrial?

21 A. Yes, depending on the neighborhood you will try
22 to find comparable houses in that neighborhood.

23 Q. And from a part of your analysis is doing what we
24 call a residential characteristics analysis, you look at

1 surrounding land uses, correct?

2 A. You do.

3 Q. And would commercial be generally more or less
4 desirable than industrial as surrounding land use?

5 A. I haven't done the specific analysis, but I would
6 say that industrial depending on your proximity to the
7 plant may be in what it is throwing off may have higher
8 negative.

9 Q. Nothing further for this witness.

10 CHAIRMAN ATKISON: Thank you, sir.

11 MR. JOHNSON: Ms. Mitinger.

12 MS. MITINGER: My name is Alice Mitinger
13 with the law firm of Cohen & Grigsby, 625 Liberty
14 Avenue, Pittsburgh 15219. M-I-T-I-N-G-E-R.

15 And I have no additional cross-examination
16 at this time but I would like to note that I'm entering
17 my appearance on behalf of Thomas Homes, Inc., which
18 owns property immediately above the proposed facility
19 and that's the subject property as well as Mr. Jeff
20 Thomas who owns a house on Sussex Way which is about 75
21 feet from the proposed property.

22 But I don't have any questions at this time
23 and can provide the board with a formal notice of
24 intervention.

1 MR. JOHNSON: Do you have any redirect of
2 your witness?

3 MS. RIBAR: No.

4 MR. JOHNSON: Thank you. Mr. McDevitt, are
5 you still here? Do you have anything that you want to
6 present at this point?

7 MR. McDEVITT: You mean of Dr. Penkala?

8 MR. JOHNSON: No, on behalf of yourself as a
9 party in this matter.

10 MR. KAMIN: Excuse me, Council, for
11 interrupting, I have a number of questions for Dr.
12 Penkala and also a number of questions for CEC, I don't
13 know from an order standpoint.

14 MR. JOHNSON: You are absolutely correct.

15 BY MR. KAMIN:

16 Q. Good evening. Dr. Penkala, I had an opportunity
17 to review the transcript of the prior testimony in both
18 of your reports. I would like to ask you a number of
19 questions about some of those items as well as your
20 testimony this evening.

21 A. Okay.

22 Q. The first item which I would like to ask about is
23 the scope of your engagement. You were engaged by
24 Peters Township, is that correct?

1 A. Yes.

2 Q. And as part of being engaged by Peters Township,
3 your specific scope was to review the information that
4 was supplied to you by the Township including the CEC
5 report, let's call it the CEC-1, correct?

6 A. Yes.

7 Q. And as part of reviewing that report, the
8 Township relied on you in terms of your expertise and
9 issues of air science and meteorology, is that correct?

10 A. Correct.

11 Q. Did you do any studies whatsoever on the language
12 and definitional issues within the Township zoning
13 ordinance?

14 A. No.

15 Q. So, you were not asked to opine on the
16 appropriateness of the curative amendment proposal, is
17 that correct?

18 A. That is correct.

19 Q. You were not asked to opine whether or not the
20 ordinance of the Township was exclusionary?

21 A. That is correct.

22 Q. Your specific scope of work was to address sort
23 of the science of the crematoria and information
24 provided to you?

1 A. Yes.

2 Q. So, when Ms. Ribar asked you earlier this evening
3 whether or not you thought that the application should
4 be voted on favorably or should be approved, your
5 response was limited to the question of the science
6 based on the information that you had been provided, is
7 that correct?

8 A. Yes.

9 Q. Do you have any land use background whatsoever?

10 A. No.

11 Q. You weren't, so you weren't testifying as a land
12 use expert, you weren't testifying as a zoning expert?

13 A. Right.

14 Q. Now, with regard to the information that has been
15 provided to you, I think you testified earlier that you
16 did not go ahead and seek out any original source
17 information because there is a lack of original source
18 information?

19 A. I did not seek out any original source
20 information because that wasn't part of my task as I saw
21 it.

22 Q. So, is part of your task as you saw it was merely
23 to review the information that had been supplied?

24 A. Correct.

1 Q. If the information that had been supplied to you
2 was not complete information, then your opinion is only
3 as good as what you got?

4 A. Where I saw a potential incompleteness of
5 information, I indicated the potential need for such
6 documentation.

7 Q. Did you attempt to go ahead and seek out the
8 original reports of the information that CEC relied on
9 in making its conclusions?

10 A. No.

11 Q. Did you attempt to go on the internet to see
12 those individual sources of those reports?

13 A. No.

14 Q. And as part of your analysis, did you go ahead
15 and interview any of the authors or drafters of those
16 reports or any of the studies such as the Penn State
17 study?

18 A. No.

19 Q. Now --

20 A. Correct my assumption, the Penn State study had
21 nothing whatsoever to do with the air dispersion of that
22 source.

23 Q. But you didn't?

24 A. Is that correct?

1 Q. I'm asking you the questions, I just want to
2 understand what you looked into to understand. Now, as
3 far as the analysis of the information that CEC provided
4 to you, did you ask them to go ahead and get any
5 manufacturer specific information?

6 A. I didn't ask them to do anything. I indicated
7 that that might be useful to their case in the sense of
8 not having completeness. I don't believe potentially it
9 is a -- go ahead, ask the question again because I'm not
10 sure I understood your question.

11 Q. Well, as part of your analysis, did you ask them
12 for any backup information from the manufacturers to
13 operations?

14 A. In my summary and conclusions part 2 I indicated
15 in number 2 that CEC needs better documentation than per
16 vendor. That wasn't asking them to provide it, it was
17 an indication that I saw a potential need. I didn't
18 tell them to do anything.

19 Q. Right, but you identified it as sort of a
20 deficiency in the data that was supplied to you,
21 correct?

22 A. I thought it would add credibility to their
23 report. I thought that they had potential for a better
24 source of information than simply quoting per vendor.

1 Q. As part of your review function you would want
2 the best available information, correct?

3 A. Every scientist wants the best available
4 information. Sometimes it isn't available.

5 Q. Now, I would like to read to you a statement, and
6 I would like you to tell me if you think this describes
7 what a crematorium does. Is there a process associated
8 with cremating bodies?

9 A. Yes.

10 Q. And as far as that process, is smoke created?

11 A. Not necessarily.

12 Q. How about noise?

13 A. If you would define smoke, we would be able to
14 have a better idea as to what whether smoke is created.

15 Q. How about noise, what about noise, is there any
16 noise spill-off?

17 A. How quietly can you talk? Noises are another
18 relative measure.

19 Q. How about soot?

20 A. Again, soot is a relative measure. In this air
21 right now, we have soot, we have particulates, we have
22 various chemicals.

23 The fact of the matter is that unless and until
24 you measure them with sufficiently accurate and precise

1 instrument, you don't know what it is.

2 Q. How about dirt?

3 A. Same answer.

4 Q. Odor?

5 A. Same answer.

6 Q. Now --

7 A. I mean, walking in you can smell after shave, you
8 can smell perfume, powder, so forth, so on. If you
9 consider them to be objectionable, as some people have
10 sensitivities to various materials, for them it could be
11 a problem. For most people it would not.

12 Q. Now, but, the crematory, the information supplied
13 by CEC and the information that you reviewed that was
14 supplied by them stated that they were capable of
15 operating their business controlling all these items,
16 correct?

17 A. They indicated they could operate their business
18 in compliance with the regulations of the Pennsylvania
19 DEP, and to the extent that they would not create and
20 air pollution problem.

21 Q. So, they were able to control these external
22 effects, is that a fair statement?

23 A. What is external?

24 Q. It means outside of the business.

1 A. Outside the business itself, yes.

2 Q. Now, are you familiar with Pennsylvania
3 Department of Protection's regulations on various what
4 we would call hazardous pollutants, volatile organic
5 compounds, all of the items that would be on what we
6 would consider to be DEP's list?

7 A. Specific levels on specific things, I would have
8 to refer to their reports, but they do exist.

9 Q. Did you look at any of those reports as part of
10 your review analysis of the CEC supplied information?

11 A. The criteria for conditions for crematories which
12 refers to SO2 and particulates.

13 Q. Did you, are you familiar with something called
14 DEP's state-wide health standard?

15 A. Which particular chemicals are you referring to?

16 Q. Well, right now I'm just asking about the
17 standard, I will get to the chemicals?

18 A. It is fairly extensive.

19 Q. And are you familiar that there are different
20 standards within DEP standards for different
21 classifications of uses so there is a state-wide
22 residential standard and a state-wide commercial
23 standard?

24 A. Okay, in this case we are talking about standards

1 for emissions as opposed to standards for ambient air,
2 correct?

3 Q. The answer is yes, but I believe there is a
4 difference. So, I want to focus on this state-wide
5 health standard promulgated by the DEP. There are air
6 quality standards and then there are also what we would
7 consider to be volatile or organic compound standards
8 and other specific pollutant standards, that is correct.
9 Is that correct?

10 A. There are air pollutant standards, correct.
11 There are standards for hazardous chemicals.

12 Q. Are you familiar with whether there are standards
13 for soil concentrations of hazardous chemicals?

14 A. I'm not a soil chemist. There may be.

15 Q. Are you familiar whether there are soil vapor
16 standards that is promulgated by the DEP?

17 A. Same answer.

18 Q. As far as, are you familiar with there are
19 different standards for indoor air quality and outdoor
20 air quality, correct?

21 A. I don't believe that the state regulates indoor
22 air quality.

23 Q. So there aren't different standards or there are
24 different standards?

1 A. I don't believe that the state regulates indoor
2 air quality where they can go ahead and say your indoor
3 air violates our standards.

4 Q. Now, as far as the materials that are emitted
5 from what we will just call the smoke stack, do you know
6 as part of your study and your experience, do you know
7 where those materials go once they are emitted?

8 A. Everywhere.

9 Q. It is based on factors of wind direction,
10 correct?

11 A. Yes.

12 Q. Based on weather?

13 A. Yes.

14 Q. Based on perhaps sunlight or ambient light have
15 some effect on them?

16 A. Yes.

17 Q. And once the materials get blown, do they have
18 certain characteristics of dispersion based on how far
19 they are away from the given pollutant source off point
20 discharge?

21 A. There are various measures of dispersion, it is
22 not necessarily a matter of how far away they are.

23 Q. Some of the different measures that you are
24 talking about would depend on the weight of the

1 chemical, correct?

2 A. Very few air contaminants have a problem with
3 weight. Most -- well -- if you are talking about an
4 atom that has a particular molecular weight and you want
5 to talk about whether that is an effect on its rate of
6 which it falls, that is usually not a material factor.

7 Q. Let me ask the question this way. If I'm putting
8 out 199 pounds of mercury a year out of that smoke
9 stack?

10 A. Yes.

11 Q. Where does it go?

12 A. Potentially everywhere.

13 Q. Does part of your engagement with the Township,
14 did they ask you to go ahead and review the original
15 source material or to go ahead and collect any of your
16 own data?

17 A. They asked me to review the original source
18 material supplied by CEC. At some point I discussed the
19 idea of providing some background information on the
20 specific case of mercury.

21 Q. Do you have, do you know whether the specific
22 oven that the applicant has proposed, whether that
23 specific oven associated emission control devices if
24 that contains scrubbers or any other sort of pollution

1 prevention device?

2 A. To my knowledge it does not contain a scrubber.

3 It operates by complete combustion of materials charged

4 to the crematory.

5 Q. Can you just explain a little bit for the record

6 what complete combustion means?

7 A. Complete combustion would be providing sufficient

8 oxygen at a temperature and pressure such that the

9 materials that can oxidize will oxidize, or the

10 materials that can vaporize will vaporize.

11 Q. So, it burns really hot?

12 A. Yes.

13 Q. The basic of it?

14 A. Basic.

15 Q. Now, do you know if any studies or tests that you

16 reviewed, if any of those studies or tests went ahead

17 and were used on the same type of materials, or same

18 time of equipment that Matthews put in?

19 A. Certain of the reports that I saw did reference

20 exactly the same types of equipment that Matthews

21 provides.

22 Q. Do you know if any of those equipment had

23 scrubbers on them?

24 A. I do not.

1 Q. Would you feel that your report would be enhanced
2 if you had had an opportunity or if you had reviewed the
3 original source material?

4 A. What do you mean by enhanced?

5 Q. Well, if I'm basing my opinion on the fruit that
6 comes out of the tree, would I want to know what
7 happened at the trunk?

8 A. The truck that took it to market, the truck that
9 took it from the tree to the processing facility that
10 cleaned it, which truck?

11 Q. I'm saying trunk.

12 A. Trunk?

13 Q. So, in other words, if I'm going ahead and making
14 conclusions and analysis based on interpretations that
15 others have made of reports, wouldn't the best practice
16 be to go look at the original source material?

17 A. If I were tasked with doing an entirely
18 independent evaluation of the crematory, your assumption
19 would be correct. If I was tasked with evaluating the
20 materials provided and supplied by CEC, and their
21 submissions, I did what I was asked to do. That did not
22 require going to the original source materials. It did
23 not require reading those materials and potentially
24 having to critique those reports as well.

1 Q. So, your testimony is that that was beyond the
2 scope what is asked of you?

3 A. That was well beyond the scope of what I was
4 asked to do.

5 Q. Thank you.

6 MR. JOHNSON: Do you have questions for
7 other witnesses?

8 Q. I think Jerry has questions for him.

9 EXAMINATION

10 BY MR. McDEVITT:

11 Q. Hello, Dr. Penkala.

12 A. Hello.

13 Q. Just thought it might be useful to sort of back
14 up and make sure everybody understands, I think the
15 limited nature of your engagement. Tell me if I have
16 this wrong. CEC originally came out with a report where
17 they characterized the estimated emissions based on data
18 that was supplied to them by Matthews, correct?

19 A. Yes.

20 Q. All the information, all the tests, everything
21 that they base their estimated, estimates of emissions
22 was based on information given to them by Matthews,
23 correct?

24 A. No, I don't believe so.

1 Q. Did you read their report?

2 A. I did read their reports. But I'm sure that
3 Mr. Macoskey has background information that he drew
4 upon in forming the analysis he performed, and verified
5 the information that Matthews provided and established
6 the EPA risk analysis information on an independent
7 basis.

8 Q. In Section 2.21 of the first report, do you have
9 that handy, sir?

10 A. Okay. Yes.

11 Q. And am I correct that is the emissions literature
12 review section of their original report, correct?

13 A. It reads vendor literature.

14 Q. It says the literature reviewed for this
15 evaluation consisted of obtaining information from the
16 equipment vendors, the US EPA and other regulatory
17 authorities about the atmospheric emissions produced by
18 operation of cremation systems for humans or animal
19 remains, correct?

20 A. Correct.

21 Q. Then below that it lists the vendor literature
22 obtained, correct?

23 A. Yes.

24 Q. And it says contacted Matthews by phone to obtain

1 performance data and were provided five reports,
2 correct?

3 A. Yes.

4 Q. And I think you mentioned in your direct
5 testimony that you regarded the EPA test set forth in
6 there as the most credible test?

7 A. I don't know -- of those five, I don't believe
8 so.

9 Q. Do you regard the US EPA test of 1999 as a
10 credible test characterizing emissions in this
11 particular instance?

12 A. The EPA test of 1999 was deficient in a number of
13 ways which I pointed out in my original evaluation.

14 Q. All right. What do you know about the history of
15 that 1999 EPA test, sir?

16 A. Effectively what was in the CEC report. I did
17 not go to the original EPA 1999 report.

18 Q. So you haven't read the actual report?

19 A. That is correct.

20 Q. Do you know where that test was done?

21 A. No.

22 Q. Have you ever researched the history of that
23 test?

24 A. No.

1 Q. Do you know Matthews involvement in the test?

2 A. No.

3 Q. Did you remember the period when CEC came back
4 with a supplement to its original report on the mercury
5 matter and cited one additional source, specifically
6 this Rendell report? Do you recall that, sir?

7 A. I'm looking for that report.

8 Q. It is dated February 24th, 2001.

9 A. Do you have a copy of that?

10 Q. I do. I will show you exactly what the reference
11 is, sir.

12 MR. ARCURI: You can have my copy.

13 Q. I appreciate that.

14 MR. ARCURI: I don't know it is mine, it is
15 in here what you are referring to.

16 Q. Do you recall reading this document when you
17 received it?

18 A. Yes. I can't come up with it.

19 Q. That's all right, we have it here. Do you recall
20 in general terms what they did to supplement their
21 report about mercury?

22 A. Yes.

23 Q. And they did so on the basis of an additional
24 study that they had obtained, correct?

1 A. Yes.

2 Q. And, in fact, it was only one study that they had
3 obtained, correct? They cited in footnote three of that
4 document?

5 A. Can I have the whole document, please?

6 Q. Sure, absolutely.

7 MR. JOHNSON: Given the nature, do you want
8 to make you're point then perhaps ask Dr. Penkala to
9 respond to it, it may expedite matters.

10 Q. I would love to but he wanted to read the whole
11 report and I wanted --

12 MR. JOHNSON: We are giving you the
13 latitude.

14 A. Let me read it, refresh my memory.

15 Q. Did you actually read the Rendell report that
16 they cited?

17 A. No, I didn't.

18 Q. Never?

19 A. If I would read every reference that was made in
20 every report, it would, this report referred to 15
21 references across the United States, United Kingdom,
22 Norway, Sweden, Switzerland and Germany. We are talking
23 about referencing a tremendous amount of information
24 that was not readily available to me. What is your

1 specific question relative to the soil deposition of
2 mercury?

3 Q. It is not a question about that, sir, it is a
4 question did you bother to read the report they cited?

5 A. I read their reference and the use of that
6 report.

7 Q. Do you know what that report discloses about this
8 1999 EPA study, sir?

9 A. The Rendell report of 2008?

10 Q. Yes, the one --

11 A. No, I don't. What does the Rendell report of
12 2008 talk about on the EPA 1999 report?

13 Q. Do you know where the tests were done, sir?

14 A. No, I don't.

15 Q. Do you know what cremation units were present at
16 that cemetery?

17 A. What cemetery?

18 Q. The one that they studied in the 1999 report?

19 A. No, I don't.

20 Q. Do you know how many tests they did there?

21 A. I have no idea.

22 Q. Do you have any idea what Matthews' involvement
23 was in selecting that site for the test?

24 A. How did Matthews get involved in doing that

1 report?

2 Q. Do you know, sir?

3 A. No, I don't.

4 Q. Do you know why that test was even done in 1999?

5 A. Apparently, they were trying to evaluate not only
6 emissions from crematories of mercury releases, but also
7 soil levels of mercury in the vicinity of crematories.

8 Q. Do you know if that test was done for the purpose
9 of determining whether the EPA was going to regulate
10 emissions from crematories?

11 A. No, I don't.

12 Q. Do you know, sir, how many crematoriums in
13 America have scrubbers?

14 A. No, I don't.

15 Q. Would it surprise you to learn that the test that
16 was done in 1999 was done in a situation where there was
17 four crematories a common flue and a scrubber?

18 A. I didn't know that.

19 Q. You didn't know that. That would matter,
20 wouldn't it?

21 A. Depends on what the scrubber was designed to do.

22 Q. Well, scrubbers are all designed to remove
23 emissions, aren't they?

24 A. They are designed to remove specific types of

1 emissions, yes.

2 Q. And according to what Mr. Rendell says, and I can
3 supply a copy of this, actual document if Council
4 doesn't have it. Page nine of the actual report says
5 however the actual study US EPA 1999 shows somewhat
6 different data. It is talking about nine cremations.
7 For background the crematorium has four cremation units
8 that feed into a common chimney which includes a wet
9 scrubber. According to Rahill, the man sitting right
10 there, this is the only crematorium in the US that is
11 known to have a wet scrubber and was specifically
12 selected for this test to determine the effectiveness of
13 the scrubber to remove materials from the exhaust gas.
14 Did you know that?

15 A. Very interesting. What did it show?

16 Q. Well, if you read the report you would know that.
17 You also know, sir, whether there were any -- let me
18 back up a minute. When you read the original report of
19 CEC, am I correct that what they said they were going to
20 do was characterize the emissions, that is what they
21 said they would do, right, they were going to
22 characterize them?

23 A. Yes.

24 Q. They are going to take these tests from other

1 sources and they are going to characterize them for us,
2 right?

3 A. Yes.

4 Q. Do you know that in the Woodlawn study, the
5 actual document, do you know there is a disclaimer in
6 there about doing that?

7 A. I haven't read the report. How could I possibly
8 know if there was a disclaimer?

9 Q. Would it surprise you to learn that according to
10 the Rendell report that they cite in their own documents
11 and rely on in their own documents the Rendell report
12 says the authors of the Woodlawn study, however, caution
13 against use of their data. All three volumes of the EPA
14 study contain a disclaimer that, quote, this report
15 presents the results of a single test program at a
16 single cremation facility. It should not be assumed
17 that these results would characterize emissions at other
18 cremation facilities without further study. Did you
19 know that, sir?

20 A. I didn't know that as I have not read the report.
21 However, I would point out that the Rendell study is not
22 solely limited to the 1999 EPA report. And the
23 emissions of mercury which you appear to be focusing
24 on --

1 Q. I'm not focusing on anything?

2 A. You are not?

3 Q. I'm focusing on what you have read and what you
4 have done in emissions.

5 A. Okay.

6 Q. Do you understand, can you tell me why, sir,
7 Matthews who was involved this study and presumably
8 knows this disclaimer is in this document would ever
9 supply it to an expert to use in characterizing
10 emissions when it has a disclaimer right in the document
11 not to do so? Do you think that is kind of misleading?

12 A. Gee, then why did they provide the other data?

13 Q. Do you think that is misleading?

14 A. I think it is misleading to characterize any one
15 study which is why they provided four, apparently.

16 Q. And one other criticism that you also made in
17 your recent report, correct me if I have this wrong,
18 sir, is that of all the studies they produced only one,
19 only one purports they even gauge hazardous air
20 pollutants. Did you not criticize of the test that they
21 provided in your most recent report, did you not point
22 out, sir, that only one of the tests that they provided
23 on page four of your report you say to produce
24 meaningful estimates of ambient concentrations the

1 modeling must start with credible estimates of emission
2 rates of the process under evaluation. In both reports
3 the stack emission rates come from five reports provided
4 to CEC by Matthews International and EPA web fire HAP,
5 that stands for hazardous air pollutants, right?

6 A. Correct.

7 Q. Emission fact report performed in 1992. The test
8 varied widely on operating conditions. Secondary
9 chamber temperatures are only known for one case.
10 Charge weights are missing in two of the cases. Fuel
11 heat input rates are unknown in one test. And are
12 assumed to be 3 million BTU for the most recent four
13 cases. And only one criteria pollutant particulate
14 matter was reported for all cases. Most of the HAPs are
15 only available from a single test.

16 Is that what you said?

17 A. Not the same single test.

18 Q. Which test is that, sir?

19 A. The situation is that some of the tests provided
20 valuations of some of the HAPs. And other tests
21 provided valuations of other HAPs such that there were a
22 number that only had one represented value. However, it
23 could have been any one of the four tests that were
24 provided by Matthews.

1 As Mr. -- I'm sorry, I forget your name --
2 pointed out, HAPs were not considered by either the EPA
3 or by Matthews to be a considerable pollution problem
4 which is the reason why we do not have significant
5 emission measurements of those particular HAPs --

6 Q. Do you know --

7 A. -- processed.

8 Q. Do you know whether that is because the 1999 test
9 done by EPA on a system that had a scrubber convinced
10 them it wasn't worth regulating the business?

11 A. I don't know that. However, I doubt that that
12 would be the sole reason why EPA would make such a
13 determination.

14 Q. Can you tell me any time that the EPA has ever
15 come in and done systematic testing to determine the
16 emissions from the crematory since 1999?

17 A. No.

18 Q. Can you name me one time?

19 A. No.

20 Q. By the way, sir, I think you indicated in
21 fairness to you, you are not a toxicologist, correct?

22 A. That is correct.

23 Q. Correct me if I have this part wrong, in terms of
24 the health risk that they were supposedly screening,

1 they only screened for inhalation exposure, didn't they?

2 A. That's correct.

3 Q. And there are other ways that these toxins can
4 affect people other than inhalation, correct?

5 A. There are multiple ways by any toxin can affect
6 people, yes.

7 Q. Did you by any chance consult with the Center for
8 Disease Control or data that they put on their website
9 in determining the risk to human health from what is
10 going to come out of the chimney at this crematorium?

11 A. In general.

12 Q. I didn't ask in general, did you do that or not?

13 A. Did I consult? No, I did not consult.

14 Q. Are you aware that the Center for Disease Control
15 has an agency that lists on a toxic portal all the
16 hazardous chemicals and what the effects of them are?

17 A. Yes.

18 Q. Did you consult with that at all?

19 A. I did to verify that the risk standards that the
20 CEC report had were credible for atmospheric inhalation
21 standards.

22 Q. Which substances did you check on the toxic
23 portal?

24 A. The ones that were in the list.

1 Q. Name them for me.

2 A. Excuse me, but can we get to the point here?

3 Q. Yes, I'm asking you which ones you checked.

4 A. Well, a laundry list of chemicals is not
5 something that is necessarily important to this
6 discussion.

7 Q. A laundry list of chemicals is not important to
8 the discussion?

9 A. Right. Mainly because --

10 Q. Do you know what bis (chloromethyl)ether, do you
11 know what that is, sir?

12 A. Organic chemical.

13 Q. Do you know if that can form during the cremation
14 process?

15 A. Can it be, can it be formed during the cremation
16 process?

17 Q. Yes, sir.

18 A. Probably because it is an organic chemical it has
19 a combustion process you can get all sorts of things
20 being formed, yes.

21 Q. Do you know how it formed during the cremation
22 process?

23 A. And if the temperature in the oxidation process
24 is sufficiently operated, it should oxidize to mostly

1 carbon dioxide, water and nitrogen oxides.

2 Q. Did you do any specific analysis of bis
3 (chloromethyl) ether?

4 A. Of course not.

5 Q. Do you, when you say in your report here, sir,
6 after you summarize all this data, this is very sketchy
7 information on which to evaluate any source. Is it fair
8 to say, sir, that it would be much better to have actual
9 test data on this particular oven in order to make
10 meaningful determinations about the hazards associated
11 with it?

12 A. I would say that it is not necessary.

13 Q. Not necessary?

14 A. Because of the levels, extremely low levels of
15 the concentrations we are talking about to the point
16 where it would be a research project that potentially
17 EPA would want to perform except that they have already
18 decided that it is apparently not necessary to perform
19 because they haven't done it since 1999 despite their
20 continuing evaluation of all sorts of emission sources
21 over the years.

22 If they were that concerned about hazardous air
23 pollutants from well controlled, well designed crematory
24 processes, they would have done such a study.

1 Q. Do you know if Matthews does any testing?

2 A. I assume that they test their operations to make
3 sure the airflows, the temperatures --

4 Q. I'm not asking you to assume, sir, I'm asking you
5 what you know.

6 A. I don't know.

7 Q. One minute. Did you by any chance, sir, have an
8 opportunity to review the Matthews' sales literature
9 that they submitted here?

10 A. Yes.

11 Q. Did you happen to come across anything that
12 talked about claims that they do all kinds of actual
13 testing?

14 A. The sales literature I saw didn't have, it had
15 operational data.

16 Q. Did you --

17 A. I did not see claims of actual testing.

18 Q. You didn't?

19 MR. JOHNSON: Mr. McDevitt, perhaps to
20 expedite the proceeding if there are particular points
21 you want to make, why don't you go ahead and make those
22 and Council will review any materials you want to submit
23 without necessarily asking Dr. Penkala those questions.

24 Q. Fair enough, let me just add, did you ever see

1 this document, Dr. Penkala, called Cremation Systems
2 Testing by Matthews?

3 A. No.

4 Q. Then were you aware that was submitted in
5 connection with this proceeding?

6 A. No.

7 Q. Have you ever seen this document, sir?

8 A. This was part of the CEC presentation.

9 Q. Am I correct this is a CEC, sorry, a Matthews
10 drawing for stack details, clearances and installation
11 instructions for its stack?

12 A. Yes.

13 Q. Submitted in this proceeding?

14 A. Yes.

15 Q. What does it show as part of the design of the
16 stack right where I'm pointing, sir? Test port?

17 A. Test ports to be accessible above roof line if
18 equipped.

19 Q. So Matthews designs into the stack test ports?

20 A. I believe that is for opacity measurement.

21 Q. You believe or do you know?

22 A. I don't know. But that --

23 Q. If you don't know, sir, it would be helpful for
24 you to say I don't know, all right?

1 A. Thank you very much.

2 Q. You are welcome. I think I concluded this, I
3 will make the other points in my presentation if I
4 could. But I think you were asked about Professor
5 Agee's report?

6 A. Refresh my memory.

7 Q. The Penn State professor that wrote a study about
8 the diminution in value. I think you indicated it
9 didn't have any emissions information in it, in your
10 prior testimony?

11 A. I indicated I didn't evaluate that in response to
12 anything I did for Peters Township.

13 Q. Do you remember, sir, what the Agee report found
14 in terms of the history when testing began on that
15 crematory?

16 A. No.

17 Q. Is that a report you read?

18 A. No.

19 Q. So, insofar as the Agee report might provide
20 information of value to you on what the emissions are
21 from these things, dangers, that is not something that
22 is part of your task to consider that?

23 A. Correct.

24 Q. And so you don't know then that the history of

1 that one was that state didn't come in, all in the Agee
2 report, you can read it yourself, didn't come in until
3 nine months after the crematory started operating and
4 they actually did actual testing, do you know what they
5 found at the boundary crematory property boundary as far
6 as hazardous substances were concerned?

7 A. Since I didn't read the report, how would I know
8 that?

9 Q. Well, would it surprise you I guess then to learn
10 that the state, National State Air Quality Standards
11 where dioxins and cadmium exceeded permissible limits by
12 205 and 2200 percent at the boundary?

13 A. In the Penn State research has proved this was
14 due to the crematory exactly how?

15 Q. Did you ever call and ask?

16 A. That was my question to you.

17 Q. Well, it is part of the science, sir, we are
18 talking about what the science is here.

19 A. Right.

20 MR. JOHNSON: Anything else?

21 Q. No, that's all. Thank you, Dr. Penkala.

22 MR. JOHNSON: Anything? Any follow-up?

23 MS. RIBAR: No.

24 MR. JOHNSON: Thank you. Mr. Kamin, do you

1 want to put anything in the nature of a case in chief?

2 MR. KAMIN: I have a couple more questions
3 for the CEC.

4 (Recess held)

5 CHAIRMAN ATKISON: I'm told we have a couple
6 presentations that will be quite lengthy tonight. Which
7 means we will not be able to complete this tonight by
8 any measure.

9 So we will just set a deadline right now, we
10 will go until 10:30 then we will stop and continue
11 another date. We cannot continue because we have people
12 that say they want to talk for an hour or three. Sam, I
13 only know what I'm told.

14 The fact of the matter is we will not be
15 able to proceed to be able to continue with that kind of
16 a schedule. We will go as far as we can we and will
17 knock it off at 10:30. All right? Next.

18 MR. KAMIN: I have a couple questions for
19 the CEC witness, please.

20 EXAMINATION

21 BY MR. KAMIN:

22 Q. Will you just state your name for the
23 stenographer?

24 A. Kris Macoskey.

1 Q. Kris, I took a look at your CV, and I see you
2 just briefly describe the designations that you have?

3 A. I'm a qualified environmental professional.

4 Q. To be qualified environmental professional, you
5 take a course at Duquesne University, is that correct?

6 A. That is not correct.

7 Q. Where did you take your qualified environmental
8 professional course?

9 A. There is an exam given through the Institute for
10 Professional Environmental Practice, I took it in
11 Pittsburgh.

12 Q. And as part of that exam do you have to take any
13 special studies or any special courses of study?

14 A. Yes. There are qualifying criteria to be
15 eligible to test for QEP.

16 Q. And how many courses did you have to take?

17 A. It is not based on specific course work.

18 Q. What is it based on?

19 A. Experience.

20 Q. So, as far as experience, how many years of
21 experience do you have to have to be QEP?

22 A. I think the requirement is when they started
23 testing for QEPs, you could take an oral exam if you had
24 I think ten years of experience. Right now the

1 requirement is that you can test I believe after five
2 years of experience.

3 Q. You pay a fee and to the Institute or whoever
4 runs this, correct?

5 A. That is right, I'm a regional coordinator for the
6 Institute for Professional Environmental Practice. I
7 proctor exams for other students who wish to become
8 QEPs, and a member of the Institute and had multiple
9 years of experience that would qualify me for an oral
10 exam but I chose to take the written exam.

11 Q. Now, I have had an opportunity to review your
12 testimony from March 21st and to review the two reports
13 which we call CEC-1 and CEC-2, you were the principal
14 author of the reports?

15 A. That's correct.

16 Q. You were also the same person who previously
17 testified, correct?

18 A. That's correct.

19 Q. Now, is it, I'm going to summarize your testimony
20 because we don't have all night. But would it be a fair
21 statement to say that your testimony was that this
22 particular crematorium could cooperate in such a manner
23 as to control the external effects of smoke, noise,
24 soot, dirt, vibration, etc.?

1 A. None of those criteria really were specific
2 elements of my evaluation. It was based solely on human
3 health risk associated with exposure to specific
4 environmental contaminants.

5 Q. You are familiar with the crematoria, correct?

6 A. Of course.

7 Q. You wrote a couple reports?

8 A. Is that a question?

9 Q. It is.

10 A. I authored a report in September of 2010 on the
11 topic, CEC-1. I authored an amendment on the topic of
12 mercury. I responded to Dr. Penkala's comments which I
13 believe refer to CEC-2.

14 Q. And as part of your response and as part of your
15 study, you believe this crematoria could operate in such
16 a way as to control those effects, is that correct?

17 A. I believe that this crematoria could operate in a
18 manner that would not cause excess health risks to the
19 surrounding population.

20 Q. So there would be no odors to the surrounding
21 population, correct?

22 A. Well, again odors were not specific elements of
23 our evaluation. We did a field visit to an operating
24 crematorium, I observed no odor given the very high

1 temperature of the secondary combustion chamber, the
2 after burner which is essentially the control device, I
3 would not expect there to be odors associated with the
4 device.

5 Q. This observation, I'm curious, were you at the
6 ground level or were you above the smoke stack?

7 A. We were at every angle possible, from the ground,
8 360 degrees around and from a window that gave us a
9 vantage point of the roof and the roof stack.

10 Q. So, how much higher was the stack than that
11 particular window that you were sitting at?

12 A. We were at a vantage point above the elevation of
13 the stack. The stack was about, I believe, three to
14 four feet above the roof.

15 Q. And did you go ahead and make an analysis above
16 that so you would be --

17 A. Yes, well, sure. The plume from an operating
18 crematorium is very hot. The plume was visible as a
19 rising heat plume, so it was visible from any particular
20 angle.

21 Q. But, so visible you observed it but you weren't
22 standing above it?

23 A. Visible as a sheen, as a shimmer as you might
24 see --

1 Q. Through the light?

2 A. -- heat rising. So, depending on your angle, it
3 was more visible depending on the angle of the sun, that
4 kind of thing.

5 Q. So but from your testimony and your observations,
6 what you are saying is that this particular operation
7 wouldn't go ahead and endanger or disturb the
8 neighboring --

9 A. That is what we concluded, that is correct.

10 Q. When you observed that crematorium, was it
11 operating?

12 A. Yes.

13 Q. Do you know when the most recent body had been
14 put in it?

15 A. I don't recall how far apart through the cycle
16 they were. I think we have that information, and the
17 planning Council staff were there submitted a report on
18 the topic if you have seen that.

19 Q. Yes, I read it. Now, do you know the body that
20 was put through, that was in a coffin, box or bag?

21 A. No, I don't. It was in, they had a number of
22 different types of receptacles, cardboard units there.
23 I believe that is what their standard practice was. I
24 didn't see it go in, I wouldn't know for sure.

1 Q. As part of your investigation of the operation,
2 this is the D'alessandro property, is that the one you
3 visited?

4 A. That is not correct, it's the Gilbert facility.

5 Q. That's the Boston, PA one you previously
6 testified to?

7 A. Correct.

8 Q. Did you, as part of your process, did you
9 interview any of the surrounding neighbors?

10 A. Personally, no, I did not speak to any neighbors.

11 Q. Do you know if any of those neighbors had kids?

12 A. I would suspect so, but I don't know for sure.

13 Q. As part of being a qualified environmental
14 professional, did you study items other than air
15 pollution, did you look to say soil samples, soil vapor
16 samples, water quality issues?

17 A. In general?

18 Q. No --

19 A. This evaluation.

20 Q. As part of this evaluation?

21 A. No.

22 Q. Are you familiar with DEP state-wide health
23 standards for various compounds found in soils?

24 A. I'm familiar that there are such things, and that

1 is about the extent of my knowledge.

2 Q. Do you know if there is a different standard
3 between commercial and residential?

4 A. Well, I can speak to a procedure that is used to
5 evaluate the appropriateness of land uses when hazardous
6 sites have been remediated, for instance. There is a
7 program called the Act 2 program which provides for a
8 risk based evaluation, cleanups. So, once a property is
9 remediated and our company does quite a bit of this
10 work, not me personally, but then the site would be
11 cleaned up to a level that is acceptable from a risk
12 perspective for whatever the land use happens to be,
13 whether it is industrial, commercial, residential, that
14 sort of thing.

15 Q. So, I don't want to talk specifically about the
16 Act 2 program. But, you do understand as part of the
17 Act 2 program there are specific standards, there are
18 specific residential standards for compounds and there
19 are specific commercial standards for compounds,
20 correct? If you don't know, it is okay to say you don't
21 know.

22 A. Well, what I can tell you is that at a facility
23 or site that has been cleaned up and remediated, if the
24 future land use is intended to be residential, then the

1 cleanup criteria would be more strict than if the future
2 land use is intended to be industrial.

3 Q. All right, I understand what you are talking
4 about in terms of site specific standard which is the
5 Act 2 process, what I'm trying to focus on is your
6 knowledge as to whether or not there is a specific
7 residential standard for chemicals and a specific
8 commercial standard for chemicals on a state-wide basis,
9 I'm not talking about the site specific area.

10 A. The only such criteria I'm familiar with is the
11 Act 2 cleanup criteria.

12 Q. In performing your analysis did you not review
13 the state-wide standard for commercial, for commercial
14 compounds or for residential compounds, right?

15 A. Well, our analysis didn't evaluate any other
16 potential risk pathways other than the inhalation
17 pathway. So, we wouldn't be trying to characterize the
18 deposition of constituents onto the soil and then the
19 future ingestion or dermal contact of a resident or
20 child with that kind of material.

21 Q. Right, but the state-wide standard doesn't
22 require you to go ahead and to review pathways. It is a
23 standard for parts per million, parts per billion within
24 the soil, is that correct?

1 A. Again, I'm not familiar with that.

2 Q. Okay. That is all I have.

3 CHAIRMAN ATKISON: Thank you.

4 EXAMINATION

5 BY MR. McDEVITT:

6

7 Q. Mr. Macoskey, I just have a few questions for you
8 at this time. I think you indicated at the end of your
9 testimony there that in terms of doing your analysis,
10 you only analyzed one exposure route of these toxins,
11 correct?

12 A. That's correct.

13 Q. That is breathing?

14 A. Inhalation pathway, right.

15 Q. Not dermal?

16 A. Correct.

17 Q. Not whether it irritates your eyes?

18 A. Right, an inhalation pathway, not any kind of
19 exterior irritants.

20 Q. And your report estimated I believe if I'm
21 correct that 196 pounds of hydrochloric acid is going to
22 be emitted from this crematory when operating at 13
23 percent of its production capacity, is that correct?

24 A. I would have to check. 196 pounds, you say, over

1 the course of a year. That would have been most likely.
2 If that was, I don't recall if that was stated in the
3 text. I have the numbers, in the record, so,
4 regardless, 200 pounds or maybe to clarify what your
5 concern is about hydrochloric acid we could go on from
6 there.

7 Q. I just want the first make sure I'm not
8 misreading what you say here.

9 A. Okay.

10 Q. And --

11 A. We are looking at the September 2nd report.

12 Q. The original report, yes.

13 A. I have emission rates in terms of tons per hour.

14 Q. On page five of your report where you have your
15 crematory emissions if I could let me back up. You are
16 projecting these on the assumption this crematory is
17 going to operate at 13 percent of its production
18 capacity and sit idly 87 percent of the time, correct?

19 A. That's correct, yes.

20 Q. All right, so --

21 A. 196 pounds per year hydrogen chloride, yes.

22 Q. That is your prediction for what will come out of
23 this crematory at 13 percent capacity?

24 A. That was our estimate, yes, what we reported in

1 CEC-1.

2 Q. And sir, are you familiar with agency for Toxic
3 Substances and Disease Registry maintained by the CDC?

4 A. Sure.

5 Q. Did you consult that reference for determination
6 of whether there were any exposure routes that could
7 cause harm by that hydrogen chloride coming out of that
8 stack?

9 A. Our risk evaluation is based on EPA screening
10 level criteria for all the different constituents. I
11 didn't cross-reference to see if EPA was consulting with
12 the agency.

13 Q. Is that a no, did you read --

14 A. The point is --

15 Q. My point is, sir, did you read the CDC statements
16 about the impact of hydrogen chloride exposure?

17 A. I believe I have, I believe I have read those at
18 some point.

19 Q. What did they say about hydrochloric acid?

20 A. Well --

21 Q. The toxic substance CDC, what did it tell you
22 about hydrochloric acid?

23 A. I'm speaking just from recollection and
24 professional judgment on hydrochloric acid.

1 Q. I'm not asking that, sir, what did the Toxic
2 Center of CDC tell you?

3 A. I couldn't quote that for you.

4 Q. Would you like me to read it to you?

5 A. If you choose to.

6 Q. Hydrochloric acid is corrosive to the eyes, skin
7 and mucous membranes. Acute short-term inhalation
8 exposure may cause eye, nose and respiratory tract
9 irritation and inflammation and pulmonary edema in
10 humans. Chronic long-term occupational exposure to
11 hydrochloric acid has been reported to cause gastritis.
12 Acute oral exposure may cause corrosion of the mucous
13 membranes, esophagus, stomach. And dermal contact may
14 produce severe burns, ulceration and scarring in humans?

15 A. Sure. Hydrochloric acid, hydrogen chloride
16 hydrochloric acid, everybody used that in chemistry lab.
17 And it is also constituent, can be contributing to acid
18 rain. And the health risk evaluation that we did would
19 have considered hydrogen chloride as a non-carcinogen
20 and its associated health risks using EPA's criteria.

21 Q. You didn't even consider dermal exposure, did
22 you? You said that here in your report?

23 A. Right, we didn't look at it from a dermal
24 perspective.

1 Q. Are you aware that Center for Disease Control
2 places on its official website various questions in the
3 form of fact sheets and toxic frequently asked
4 questions.

5 A. Yes.

6 Q. Do you know what the answer is to the question
7 that they give is how can hydrogen chloride affect my
8 health? Would you like me to read that?

9 A. No. I'm familiar with hydrogen chloride, sir.

10 Q. It is very corrosive?

11 A. Unless you want to read it for the audience.

12 Q. It is very corrosive?

13 A. That's what I said, it is an acid.

14 Q. It is not just corrosive to people, it is
15 corrosive to property, too, isn't it?

16 A. I think that is what Mr. Penkala's point about
17 welfare.

18 Q. Is my statement correct, sir, hydrochloric acid
19 is corrosive to property, paint all that kind of stuff?

20 A. In sufficient concentrations.

21 Q. Sure. Just for the record, what the CDC says I
22 would urge Council if you really want reliable
23 information it is a great site to ask any questions you
24 need about all these substances coming out of here, how

1 can hydrogen chloride affect health? Answer, by the
2 Center for Disease Control.

3 Hydrogen chloride is irritating and corrosive to
4 any tissue it contacts. Brief exposure to long, brief
5 exposure to low levels causes throat irritation.
6 Exposure to higher levels can result in rapid breathing,
7 narrowing of the bronchi, blue coloring of the skin,
8 accumulation of fluid in lungs, and even death.
9 Exposure to even higher levels can cause swelling and
10 spasm of the throat and suffocation.

11 Some people may develop an inflammatory reaction
12 to hydrogen chloride. This condition is called reactive
13 airway dysfunction syndrome, RAD, a type of asthma
14 caused by some irritating or corrosive substances. If
15 that happened to you, would you consider that a
16 substantial health impact, sir?

17 A. I think the pertinent point is relative to this
18 particular analysis --

19 Q. My question, if that happened to you, would you
20 consider that a significant impact?

21 A. I think that is an irrelevant question. I will
22 not answer it. The point is the concentration we are
23 predicting would not cause such dire impacts.

24 Q. You are predicting?

1 A. Absolutely, that is part of this very
2 conservative worst-case evaluation, concentrations we
3 are predicting through our modeling and the very
4 conservative worst-case concentration emission rates and
5 continuous emission blowing in a single wind direction
6 over 8,760 hours per year would not cause those effects.

7 Q. Cause them to you, would you consider those
8 significant?

9 A. If I spilled hydrochloric acid on myself I would
10 feel that I would certainly want to go to the emergency
11 room, yes.

12 Q. And if you were exposed constantly to hydrogen
13 chloride coming out of that stack, breathing it every
14 day of your life --

15 A. Again, it gets to Dr. Penkala point about
16 concentration.

17 Q. You didn't hear my question, sir, or does that
18 not matter?

19 MR. LEWIS: Can we proceed here?

20 Q. I'm trying to ask a question, he is interrupting
21 before I can get it out.

22 A. No you are not.

23 MR. LEWIS: You are consuming this Council's
24 time as well as the public. I don't know that you are

1 doing yourself service or your client a service.

2 MR. McDEVITT: Well, I am my client and I'm
3 trying to do a service to you because I think these are
4 important facts.

5 MR. LEWIS: You are losing your target here.

6 MR. McDEVITT: So be it. I certainly don't
7 mean to offend, I'm trying to put forward to you fact
8 that I think are important to your analysis. I will
9 reserve any further questions.

10 MR. LEWIS: Thank you.

11 MR. JOHNSON: Ms. Ribar, any redirect for
12 Mr. Macoskey?

13 MS. RIBAR: Sorry, I didn't hear you.

14 MR. JOHNSON: Any redirect?

15 MS. RIBAR: Of Mr. Macoskey, no. We want to
16 know, Mr. Rahill is here from out of town. If this is
17 going to be continued, if anybody has any questions of
18 him we can do that before the 10:30 cutoff. That would
19 be most appreciated.

20 MR. KAMIN: I'm happy to defer my questions
21 to Mr. McDevitt.

22 MR. JOHNSON: All right. Do you have a
23 position on that? Mr. McDevitt, any questions.

24 MR. McDEVITT: Just a few.

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EXAMINATION

BY MR. McDEVITT:

Q. Mr. Rahill, just as a general proposition, I think you indicated you have been working in this business for quite some time?

A. I have.

Q. And by way of background so Council can understand the regulatory scheme of the federal level, in 1990 Congress passed the Clean Air Act, right?

A. Yes.

Q. Am I correct that for a period of time after that Congress was trying to determine, I should say the EPA was trying to determine what sources would be regulated?

A. That's correct.

Q. Eventually it got around to the question of whether or not they were going to regulate emissions from crematoriums?

A. That's correct.

Q. Am I also correct you, sir, were personally involved on behalf of Matthews in working with the EPA to devise the test that would determine that?

A. I was asked by EPA to participate with other industrial groups --

Q. All right.

1 A. -- in determining not just crematories but other
2 sources as well. Eventually we got around to
3 crematoriums.

4 Q. In that crematorium test that was determinative
5 of what EPA's future position would be was the Woodlawn
6 test, right?

7 A. That was one of many they considered.

8 Q. The '99 test?

9 A. That's correct.

10 Q. Woodlawn?

11 A. Woodlawn Bronx.

12 Q. Am I correct, sir, that that test on which EPA
13 based all future decisions was done on a unit that was
14 fed through a scrubber?

15 A. They considered many stack sources. That was one
16 of the ones they chose.

17 Q. The four units at Woodlawn fed to a common flue,
18 didn't they?

19 A. Feed through a common flue, correct.

20 Q. The common flew there was a scrubber then to
21 remove stuff before it came out of the stack?

22 A. Incorrect.

23 Q. Incorrect. What did the scrubber do?

24 A. Each of the four units had an individual water

1 scrubber on them then they fit into a common flue.

2 Q. And the unit we are talking about here has no
3 scrubber, right?

4 A. No.

5 Q. Am I also correct, sir, just for reference, you
6 have massive sales literature, you have sales literature
7 here that describes actual testing done by Matthews?

8 A. We do not conduct any testing.

9 Q. Is that what your sales literature claim?

10 A. I'm happy to listen.

11 Q. Are you familiar with the document that has been
12 submitted called Cremation Testing by Matthews?

13 A. I'm sure I probably read it.

14 Q. More specifically, I think I mentioned this to
15 Council, this document Cremation System Testing?

16 A. I have to read it.

17 Q. I would give you a copy but it is the only one I
18 have.

19 A. Yes, I'm familiar with that.

20 Q. And doesn't this document claim extensive testing
21 done by Matthews?

22 A. Matthews does not conduct any environmental
23 testing. We engage contractors, professionals, to do
24 it, we don't do it ourselves.

1 Q. It describes various levels of testing done by
2 Matthews, or its independent contractors?

3 A. Matthews does not do any environmental testing,
4 we do other types of testing. We do combustion
5 analysis, no environmental testing.

6 Q. It says here in the sales document, environmental
7 testing is accomplished using independent test
8 laboratories?

9 A. Correct.

10 Q. Right? Then it says there are different types of
11 environmental testing?

12 A. Correct.

13 Q. It talks about the lowest form being somebody
14 sits there looks to see if there is smoke or whatnot
15 coming out of the stack?

16 A. Actually, that is called visible emissions test
17 and it is prescribed, probably the most common type of
18 testing done.

19 Q. Just for the record, some of the substances that
20 come out of this stack are odorless and colorless,
21 correct?

22 A. Yes.

23 Q. What is methyl mercury?

24 A. I would have to defer to the experts on that.

1 Q. Do you know if methyl mercury is odorless and
2 colorless?

3 A. I have to defer to the experts on that.

4 Q. If it is, you can't see or smell that danger, can
5 you?

6 A. I would have to defer to experts on that.

7 Q. If it is odorless and is colorless, then you
8 couldn't see it or smell any danger associated with the
9 substance, could you?

10 A. I would have to defer to experts on that.

11 Q. Do you have experts within your company on this
12 subject?

13 A. We do.

14 Q. Who would know the answer to that question
15 whether the methyl mercury that comes out of that stack
16 is odorless and colorless?

17 A. There are two experts right here who will be
18 happy to answer the question for you.

19 Q. And then am I correct that in describing the
20 testing in this Matthews' sales literature, it says the
21 next level up of stack testing is called instack
22 emissions testing. With this type of test the mobile
23 laboratory and usually three technicians travel to the
24 site with testing equipment and portable laboratory.

1 Each test will last 60 minutes and will be performed at
2 three different cremations. That is what Matthews
3 claims, correct?

4 A. Again, we don't do environmental testing, this is
5 a paper describing the testing process cremation
6 equipment. It was just a white paper, not a sales,
7 piece of sales literature.

8 Q. Is that testing done on Matthews equipment or
9 not?

10 A. There is all types of testing done on Matthews
11 and other types of cremation equipment.

12 Q. Are those test reports in Matthews' possession?

13 A. We get copies of them often from clients, but not
14 always.

15 Q. Then it goes on to describe the rest of the
16 testing and it says during this testing lab technicians
17 monitor temperature flow rates as well as the oxygen
18 levels, carbon dioxide levels, carbon dioxide levels,
19 carbon monoxide, particulate emissions and nitrogen
20 oxide emissions. It goes on to talk about how it is
21 detailed report and even goes on to describe the next
22 level of more advanced testing as requiring that more
23 emissions are treated, tested, I'm sorry, during this
24 process.

1 Usually there are a variety of metals such as
2 mercury, lead, cadmium that are measured during the
3 cremation process to determine their levels and to allow
4 the local environmental authorities to determine what,
5 if any, impact it has on the surrounding community.
6 That is what Matthews claims in this document?

7 A. We are describing different testing procedures
8 here, and yes, that is a level of testing.

9 Q. Well, are any of these tests, the actual tests of
10 your equipment in Matthews' possession?

11 A. Yes.

12 Q. And have any of those actual tests that you have
13 in your possession been produced here?

14 A. Yes.

15 Q. How many of them?

16 A. I don't know. How many copies of tests, four or
17 five, I think.

18 MR. MACOSKEY: Five.

19 Q. Five tests, that is it. Is that the totality of
20 what is your possession?

21 A. No.

22 Q. There are more?

23 A. Many more.

24 Q. And you do have test ports in the system, right?

1 A. When they are required by state authorities we
2 put them in.

3 Q. So you can do testing of your equipment?

4 A. We cannot do the testing, it has to be done by a
5 licensed contractor.

6 Q. Well, you say that, sir, let me ask as a company
7 you are capable of testing your equipment?

8 A. No, we are not.

9 Q. You are not capable of doing that?

10 A. We do not do environmental testing.

11 Q. It is not a question of whether you do
12 environmental testing, I'm asking a simple question.
13 Sir, as a manufacturer of the equipment you are capable
14 of testing your own equipment for what it emits from the
15 stack?

16 A. No, we are not.

17 Q. You are not?

18 A. No.

19 Q. Why is that, sir?

20 A. We are not a licensed contractor to do that,
21 don't own the sampling equipment. It is done by an
22 independent laboratory. We engage private contractors
23 to do that.

24 Q. You don't have anybody on the payroll of Matthews

1 that is, can design tests to show what comes out of
2 those stacks?

3 A. The test protocols are designed by US EPA and
4 everyone follows the same protocol. So we would not
5 spend our time designing a test when US EPA has already
6 designed one.

7 Q. Well, the test protocols you are talking about
8 for the EPA, does the EPA regulate testing of crematory?

9 A. They set up test protocols that everyone uses to
10 test crematories.

11 Q. But they don't have any regulations per se on
12 testing of crematories, do they?

13 A. They have specific, for different constituents
14 particulate matter, carbon monoxide, CO2, oxygen, for
15 all these elements they have specific procedures you
16 have to follow.

17 Q. And who keeps the records of these tests that are
18 in Matthews' possession in your company?

19 A. I'm not sure I understand.

20 Q. Well, who is custodian of the test records in
21 your possession?

22 A. Well, most of the tests belong to the clients the
23 that they were engaged for.

24 Q. I understand. I think you indicated some of the

1 test reports you get copies of?

2 A. We have filing cabinets.

3 Q. Who keeps custody of the actual test reports that
4 Matthews has in its possession?

5 A. Probably in our Engineering Department.

6 Q. Do you know the name of man?

7 A. I could provide that.

8 Q. Nothing further.

9 CHAIRMAN ATKISON: Okay, then it is close
10 enough to 10:30. Anything else you need to say right
11 now.

12 MR. JOHNSON: No.

13 CHAIRMAN ATKISON: Prediction on a
14 continuation date?

15 MS. RIBAR: Two minutes, Mr. Rahill is here,
16 he has to leave.

17 CHAIRMAN ATKISON: You got it.

18 MS. RIBAR: Thank you so much.

19 EXAMINATION

20 BY MS. RIBAR:

21 Q. There were some suggestion maybe not so, maybe
22 more than suggestion, there was some I think testimony
23 that Mr. McDevitt offered regarding the Woodlawn study
24 in 1999. I think it is important to understand what

1 Matthews' role was in the study. And Mr. Rahill, if you
2 could address that, please.

3 A. When US EPA was trying to determine whether or
4 not they would federally regulate human and animal
5 crematories, they contacted the Cremation Association of
6 North America which is the largest association of
7 cremation operators in the world to determine what data
8 existed in the industry to determine whether or not they
9 wanted to regulate.

10 Once they reviewed all the data, they then asked
11 about the inventory cremation equipment across the
12 country. Who owned them, what type of equipment, how
13 old were they and so that was done. The association
14 came together. I am the environmental liaison to the
15 committee.

16 And so, I was, I participated the process. Once
17 we gave the spectrum of different types of cremation
18 equipment out there, some are one year old, some are 40
19 years old. EPA, US EPA selected the one they wanted to
20 test.

21 They considered it a worst-case representative
22 sample. It was a poor design, it was about 20 years old
23 at the time. It was the only one in the country that
24 had wet scrubbers on them. So, they chose that site to

1 test. They asked us to be involved.

2 If you read the 1300 page test report you see I
3 was on site. But they asked our company to be involved
4 because that was our client at the time, still is. And
5 we acted as a contractor on site as far as helping to
6 install test ports other things.

7 But they then used their own contractors, Midwest
8 Research to do all the tests. But they tested the
9 emissions before the scrubber and after the scrubber to
10 see what effect the scrubber had, if anything, on
11 emissions.

12 They determined after the data was collected that
13 they would not take a role in federally regulating human
14 or animal crematories, they would leave that to the
15 states.

16 However, the data they collected at that site is
17 used today still on the National Emission Inventory
18 Database as the standard so when states go to look at
19 emission standards for crematories, if they don't have
20 real data, that is the data they use. US EPA uses it to
21 this day.

22 Our role was simply as a contractor on site. We
23 did not do testing the extent of involvement. That is
24 why they selected that site, it was not something we

1 selected.

2 CHAIRMAN ATKISON: Thank you.

3 MS. RIBAR: It is also important to note the
4 CEC report did not rely on that study on what we are
5 calling the Woodlawn study. That is listed for
6 reference only, if I'm correct.

7 MR. MACOSKEY: Right, if you take a careful
8 look at the summary of emissions you will see that while
9 that was recognized as a potential source, the other
10 sources of emission factors most notably web fire, EPA
11 web fire had higher emission rates for most all
12 constituents so we used that instead of the old, the
13 other 1999 report.

14 And I do believe also that we had
15 information through that actual report, 1990 report that
16 indicated the preemissions, the emission rates prior to
17 the scrubber and after. We would have used the
18 prescriber ones because we recognize there isn't a
19 scrubber associated with the Power-Pak II.

20 MS. RIBAR: Thank you very much.

21 CHAIRMAN ATKISON: This hearing is recessed
22 until a date to be announced.

23 (Hearing adjourned at 10:30 p.m.)

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I hereby certify that the foregoing is a correct transcript from the record of proceedings in the above entitled matter.

William E. Weber, RDR
Court Reporter