TARCOM HEARING

APPEAL FROM MERIT SYSTEM

PROTECTION BOARD

IN THE MATTER OF:

LEROY J. PLETTEN,

Appellant,

-vs-

DEPARTMENT OF THE ARMY,

Appellee.

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Transcript of the deposition of EDWIN F.

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BRAUN, a witness in the above-entitled cause, taken before

Norma J. Yeager, Notary Public in and for the County of Oakland,

State of Michigan; at 3000 Town Center, Suite 1150, Southfield,

Michigan 48075, on Monday, April 26, 1982, commencing at or about

the hour of 11:55 a.m.

APPEARANCES:

COOPER & COHEN, 3000 Town Center, Suite 1150, Southfield, Michigan 48075, Appearing on behalf of the Appellant. BY: STEVEN Z. COHEN, ESQ.

EMILY SEVALD BACON, ESQ., United States Army-Tank Automotive Command, Detroit Arsenal, Warren, Michigan 48093, Appearing on behalf of the Appellee.

ALSO PRESENT:

Leroy J. Pletten, Appellant.

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MI-138

Southfield, Michigan 2 Monday, April 26, 1982 3 Approximately 11:55 a.m. 4 BRAUN EDWIN F. 5 being first duly sworn, was examined and testified on his 6 oath as follows: 7 EXAMINATION 8 BY MS. BACON: 9 Would you give your name for the record, please? 10 Edwin F. Braun, B-r-a-u-n. 11 What is your position at TACOM? 12 Α Industrial Hygienist. What are your responsibilities? 13 Well, I help to identify, evaluate and recommend corrective 14 measures for hazards at TACOM and Detroit Arsenal area. 15 16 Q Health hazard? 17 Yes, ma'am. Α What is your educational background? 18 19 Master's degree in analytical chemistry. 20 Do you belong to any associations? American Industrial Hygiene Association. A 21 How long have you worked in the field of industrial hygiene? 22 Q About 29 years. A 23 How long have you worked at TACOM? 24

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Five years.

Yes, it was. He was moved to another area.

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correct?

A That is right.

- Q Did you make that particular test?
- A Yes, ma'am, I made those tests.
- Q What instrument did you use on that test?
- A Drægermeter. It is a squeeze-bulb detector for detecting small amounts used. The Kitawaga is made in Japan and measures calibrated amounts of air through a previously calibrated tube that detects these contaminants, or suspected contaminants.
- Q What standard were you using?
- A I was using the OSHA standards that are mandatory for these contaminants, and also the American Conference of Industrial Hygiene Standards, which are current on an annual basis.
- Q These standards contain threshold limits for these contaminants?
- A Yes. Both these standards contain threshold for nitrogen dioxide and carbon monoxide.
- Q What does this particular test indicate?
- A It indicates essentially less than detectable amounts. My results were at the lower level of the tubes that I used indicating that there were concentrations in quantity at the lower limits of this equipment that may or may not have been present down to zero concentrations.
- Q You brought your files with you? The file reflects a November 21, 1980 memorandum for the record entitled,

1		EXAMINATION
2	BY M	R. COHEN:
3	Ω	Mr. Braun, I am going to ask you a series of questions. If
4		you don't understand them, stop me so I don't waste either
5		of our times because it is a confusing topic to me.
6		Where did you get your Master's degree?
7	A	Wayne State University.
8	Q	What year?
9	A	1958.
10	Ω	Any subsequent courses, sir?
11	A	Yes. I have taken a series of courses all over the country,
12	:	ventilation courses.
13	Q	Any addition to your graduate degree in 1958? When did you
14		get your undergraduate degree?
15	A	Michigan State, East Lansing, Michigan.
16	Q	What year?
17	A	1950.
18	Q	Were you in the service during the gap, sir?
19	A	No, prior to my going to college; the Navy.
20	Q	How did your study of air flow, ventilation flow, differ
21		from the study performed by Mr. Lang?
22	A	They may have been slightly different in contents, but in
23		essential ingredients, they were identical.
24	Q	Are you familiar with the reading Mr. Lang received from his

test?

- A Well, I am not sure of the method that he used, but he may be taking general samples rather than individual working environment and I am not familiar where he took his reference point.
- Q Did you communicate between the two of you as to studies?
- A Oh, yes. I am working with Facilities at the time.
- Q Does he have specific training in air flow studies as well?
- Well, he is Facilities Engineer of the post. I am not familiar with all of his background, but I presume he does.
- You didn't talk shop then about ventilation studies, methodology?
- A He has several people on his staff that provide input into his report and some of which are experts in the field of ventilation, so I have talked shop with him on several instances about ventilation studies, and essentially his results and my results should be essentially the same.
- A Master's degree of analytical chemistry does not exactly prompt one to go into air studies. How did you happen to go into this work?
- A I have been in the field for 29 years and I started out by

- Q Where did you take such studies, sir?
- A North Carolina University, a ventilation course at East

 Lansing, Michigan, which is recognized as being one of the

 best courses in the country.
- 9 Q When was this taken, sir?
 - A About 1964, the one in North Carolina, and the one in East

 Lansing, Michigan, was taken prior to that time and I am not

 sure what date.
- 13 Q Before 1970 or after?
- 14 | A Before 1970.

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- 15 Q Any updating courses since then?
- 16 A Yes. I have taken general industrial hygiene courses at the
 17 Army level in Aberdeen, Maryland, and they cover ventilation
 18 as one of the topics. It is a general industrial hygiene
 19 course.
 - Q Have you taken any specific training with regard to cigarette smoking and the effects on the environment?
- 22 A No, but I have been involved in carbon monoxide exposures,
 23 which is one of the ingredients of cigarettes.
- $p_4 \mid Q$ Can you tell me all the ingredients of cigarettes?
 - A No, I cannot.

- Q Can you tell me the major contents?
- A By reference I would say nitrogen dioxide and carbon monoxide are the major contents.
- Q What are the other ones?

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- A I am not sure just what they are. There is many.
- Q Did you look at all of them before you --
- Oh, yes, and there is numerous possible contaminants that
 might come from cigarettes and I only have a limited amount
 of equipment available to me. I am not a specialist in
 cigarette smoking, I am general environmental control and I
 have a limited amount of sampling equipment to my disposal.
 That would be a more specialized study.
 - Q If there is something toxic in the air as cigarette derivatives, you would not have been able to pick that up with your instruments?
 - That is true. However, all the references that I have made, and we were in contact with our headquarters, indicating that the two major contents were carbon and nitrogen.
 - Those are the two most likely to be in concentrations? You relied on Headquarters to evaluate the circumstances, not your own?
- 22 A Yes.
- 23 Q You didn't do an independent study to find out what is involved in cigarette smoking?
 - A No, I did not.

- Q Did you refer to the Surgeon General of the United States?
- 2 A Yes, the Assistant Surgeon General, Dr. Kopechne.
 - Q Mr. Braun, I am referred by my client to a memorandum of February 20, 1980, that is written by you to Ms. Evelyn Bertram. Are you familiar with that?
 - A If my name is on it. I wrote several.
 - Q Let me see if it is in the record before I start referring you to it.

Let me show this to you. I am going to mark this proposed Appellant's 2, but I would like you to identify it. You name appears on the back of that document, sir?

- A Yes, sir.
- Q You wrote it in conjunction with Dr. Holt?
- 14 A Yes, sir.

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Now let me cite to you -- first of all, I move for admission for proposed Appellant's 2 as Appellant's 2.

MS. BACON: I have no objection.

- Q (By Mr. Cohen) Mr. Braun, I indicate for your knowledge at the top where there are slashes, that indicates who wrote it?
- 20 | A Yes, it does.
 - You just testified that Headquarters pointed out those two particular elements of cigarette smoke were the most apparent and most likely to be in concentration, yet in that statement, Paragraph 4, "Carbon monoxide and nitrogen dioxide gases were tested during this evaluation because these possible

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contaminants have been identified as extremely minute quantities during the secondary evaluation of tobacco smoke by the American Lung Association." Isn't that at variance with what you just told me that they are most likely to be in concentration?

- It is secondary inhalation, not direct. I am still saying not direct, and carbons are still primary contaminants, but in minute quantities.
- They are most likely to be in concentration?
- Yes.
- Did they give you a list from the American Lung Association?
- Α Yes. I have read literature from Leroy Pletten, who provided literature from the American Lung Association concerning possible hazard material contained in cigarette smoke.
- Q In your testifying, you testified here in the record that on December 5, 1979, you did investigations of Building 230?
- Right. Α
 - At those times they did not have the new buildings up, is Q that correct?
- That is correct, sir. A
- Have you subsequently done studies in those new buildings as to ventilation, carbon monoxide, nitrogen dioxide testing? 22 No, I have not. 23
 - Have you been directed to, or suggested to do some by anybody?

- A I have been requested to make air studies of 229 and I did some air studies, two air studies in Building 229 to date, but they are brand new buildings. They have been there about a year. I subsequently will.
- Q You will?

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- A Oh, yes, eventually.
- 7 O How often do you do these studies?
 - A I do them as requested, not on a periodic basis.
- 9 O You don't --
- Only when we suspect concentrations in excess of those levels
 that are provided.
- 12 Q How would you suspect such a thing especially if it is an odorless and colorless gas?
 - A On the basis of complaints after previous results that have obtained.
 - Q Do you get a regular update from Mr. Lang with regard to his test results on a bi-yearly basis?
 - A I am in these buildings periodically and he brings in contractors for adjusting the ventilation in these two buildings and I am apprised of what they are doing.
 - Q Did he tell you about his flow studies?
- 22 A Yes.
- 23 Q How often does he do them?
- 24 A As required.
 - Q He does not do them on a regular schedule?
 - A No. If everything is working fine, he may not do them for

- Q Would it surprise you Mr. Lang testified he did them twice yearly because of regulations?
 - A Not at all.

- Q Mr. Braun, in your 5 December memo, Part 3, referring to your conclusion, if you didn't test other gases, other carbon monoxide and nitrogen oxide, how can you make conclusions as to all possible hazardous gases?
- Based on the fact Headquarters informed me these are the two most likely to be in significant concentrations, and there had been relative concentration of other gas, that would be in the same area of toxicity, the same general area of toxicity and it would be most likely we would get, if there was a preponderance of cigarette smoke in the area, we would get high carbon monoxide first and results of concentration could also be high.
- Q It would be, Mr. Braun, results of specific carbon monoxide and nitrogen dioxide gases were shown, and it is presumed all possible hazardous gases are ruled out?
- A I agree.
- Q If you had more sophisticated testing equipment, you could certainly have given a better review of those?
 - A Right.
- Have you investigated for Command the effects of some types of gases even though not in large quantities as to toxicity?

- A Not directly, no.
- Q Why not?

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- Because I rely on expertise in this area and I have many
 things to do besides just check for ventilation. I have
 noise, physical hazards as well as chemical hazards and if
 I investigated completely everything I came in contact with,
 I would be forever investigating and not doing any applicable
 work.
 - Q What time of day did you take your studies in Building 230 and Building 200 as referenced in Data Sheet 1?
- 11. A At the time it indicates.
- 12 Q It doesn't indicate.
- 13 A It doesn't indicate?
- Q No, sir. 5 December 79 report says you performed them during the day, but I don't know what time of day.
 - A My office is located at the extreme opposite end of the reservation compared to this office, so most likely it would be mid-morning or mid-afternoon. I am not sure which.
 - Q Mid-morning or mid-afternoon?
- 20 A Ten o'clock and 2:00, to 2:30
- 21 Q Is flex time in operation at TACOM?
- 22 A Yes, it is.
- 23 | Q Are most people gone at 2:30?
- A Most people are there at 2:30.
- 25 \ Q Concentrations. Now, it says you took your sample on the

- A It is hell sometimes, you may use that.
- Q Air does not circulate very well in 230 in the summer?
- A Depending on how the summer situation is set up, it may not.
- Q That is why they have some fans in Building 230?
- A We have more fans in 230 than most places; that is exactly why.
- And that being the case, the conclusion -- that is, Mr. Lang came to me this morning and said we have capacity of 90 percent circulation does not necessarily mean that is what is getting circulated?
- A __ That perhaps is true.
- Q In your experience and your knowledge of that area, do they get maximum capacity in that building?
- Yes, but on very, very warm days we find we are heating up the building, not cooling it down. As during the time I was doing my tests, it so happens some of the hot air intakes were shut down in order to prevent the ambients air from becoming excessively hot.
- Q What about these dampers? Are they adjusted periodically?
- A Dampers are adjusted periodically for winter and summer conditions.
- Q And are they basically kept at a constant though?
- A Yes. In fact, during most of the time we were attempting to put these dampers on a computer readout, so they would have

passive and active modes to them, and it was an initial effort during the period that we were involved in an initial effort by me. The computer did not exactly program it properly.

Would it be safe to say, then, that the building's air circulation system needed some regulation and work?

A Yes, it would be.

And it was not always responsive to the needs of the working force because of its age?

I would say not always responsive to the working force because of its existence and not necessarily its age. Sometimes it didn't work; the possibility exists some of the fans were not in operation.

Q The statement that maximum was achieved on a regular basis would be kind of questionable?

A Well, I would say it was working more than it was not working so on a regular basis depends on how you want to interpret regular.

Q Will you accept 50 percent?

A Yes, I will accept 50 percent.

Q About 75 percent --

A That is very, very questionable.

Did you follow such general standards when you were ventilating air?

A I sure did.

- A Two buildings, 229 and 231, and quite a few repair been made to the 230 area.
- Q Would you say that Buildings 229 and 231 are reasonably free of contamination?
- A I would.

- And have regulations regarding cigarette smoke and smoking in those buildings been outlined?
- A Yes, they have.
- Q Have they been updated, sir? Are they more restrictive?
- No, they have not been restricted. They are just the same as they were initially, that we are providing adequate air changes per person.
- Q Has Command, to your knowledge, asked you to make a better environment for Mr. Pletten as opposed to finding one?
- A Not to my knowledge, simply because we don't have -- I don't have the necessary criteria to make a better environment for Mr. Pletten.
- Q What do you mean by that, sir?
- A Most of my results were essentially negative in the areas that Mr. Pletten worked in, indicating that they were probably as good, or better, than most -- many other areas of the Command, so I considered him working in the Personnel Office to be a good area to start with.
 - Q Isolating Mr. Pletten in the Personnel Office, and any similarly situated office in the new building, are those

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better than the new building Personnel Offices in terms of air?

- Most of the large military buildings that we have at Detroit Arsenal are built for area bullpen-type operations rather than an isolated office area. I consider ventilation better in an open area than isolated areas.
- Did you review the Surgeon General's standards versus OSHA Q standards?
- I am not completely familiar with the Surgeon General's Α They were published in the paper, I understand, and I received the HEW -- Health, Education and Welfare -standards and I am familiar with those. The latest ones I am not familiar with.
- Let's assume for argument's sake, hypothetically there are four parts per million that are contaminants. Is. that ballpark, generally, for the Command?
- Α No, it isn't ballpark and it isn't general. It could exist, yes.
- How difficult is it to go from any amount per million to zero? What is involved? Is it possible to do that?
- Α You have to have a gas Chromatograph analysis to start with, which is about a \$20,000.00 piece of equipment strictly in a specialized laboratory setup that we have at Aberdeen, and we need a , what we call a carbon strain type of absorption column. When you are going for that small amount, you have

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to absorb through several tubes because you were not sure of your efficiency at those low concentrations, and you have a single tube backed up by another tube, sometimes three or four tubes, which takes longer. It is carbon strained to obscure these carbon concentrations.

- If you have any parts per million at Tank Command, would gas chromatography show you how to find what it is to eliminate them entirely?
 - No, I would not have the necessary collecting equipment. They have the necessary analytical equipment to analyze them, but many of them involve cryogenic techniques to where we freeze out the small amounts. They use the cryogenic technique and it is a very expensive collecting media.
- But aside from the collection of information, let's assume I am in this room and it is closed off and I wanted to get the air free of contaminants. What would I do?
- You would have to have a 99 and 99 hundredths percent filter that all the air would be absorbed through and then you would be 99 and 99 hundredths percent sure that all of the contaminants were out of here.
- Are there some filters that are available?
- Are they expensive things?
- Very expensive, extremely expensive and difficult to operate.
- There are such things? Q

- And they are being used in the government?
- They are being used in the government, yes.
- I presume as precursors to that you would have banned smoking in the area?
- Definitely. Α
- But you can make some areas of the Command theater cleaner? ō
- A Right.

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- Command requested a study through your office for such a --
- Most of the criteria for a clean room are based on partial count and they be their filter efficiency on the number of particles, dust particles coming through. However, it has very little, or nothing to do with any contaminants from cigarette smoke.
- But Command could establish such a room and have done so?
- 16 Yes.
- 17 Where have they done so?
- 18 Α At 16 Mile Road; it was in the missle business. And we have 19 also done it in the -- some of it at TACOM.
 - May I suggest Data Processing?
- 21 It's a possibility. At Data Processing they have made an 22 attempt at providing more or less humidity control, which is 23 something entirely different rather than contaminant control. 24
 - But there are places where they have got it?
 - Α Yes.

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I worked with a man down at Cape Canaveral, Florida, who is

Assistant Surgeon General to Dr. Martin Brewster (sic) and

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It dilutes it 10 times each time the air is recirculated.

assuming that he is breathing less than one CFM per person.

Truthfully, Mr. Braun, in 230, were people getting 10 cubic Q feet at all times? 3 For the record I would say not at all times, but generally Α speaking they were getting it. 5 You feel they were, but you say generally speaking? 0 6 It varies, sir, with time. A 7 I am sure, but I presume, then, you mean they are getting it Q 8 more than they are not getting it? 9 They are getting it more than they are not getting it. Α 10 If you had to give me a percent, how much percent of the time Q 11 were they getting the 10 cubic feet in 230? 12 I would have to restrict myself to a certain time period. 13 The last time Mr. Pletten was there. 14 The last time Mr. Pletten was there, I would say it was in Α the area of 70 to 90 percent. 16 Q That is a wide range, sir. 17 No, it is just that way. It varies in 230. 18 Q How would it vary in the new building? 19 Α It would be far more constant, close to 100 percent. 20 Did you consider the synergistic aspect of smoke during your 0 21 study, that substance in relation to each other? 22 Α Yes, we did. 23 What was the result of that study?

That they were not fully under.

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How so?

A That the possibility of synergistic effect exists recommended further study particularly regarding the secondary effects of cigarette smoking.

Has that been followed up?

- A I am not aware of whether it is being followed up or not, but in evidence from the newspaper, reading from the Surgeon General, I would say it is being followed up.
- Q Based on that, have you made recommendations to higher command as to re-evaluation of their smoking policy?
- A No. I still consider Army Regulation 1-8 to be sufficiently a guidance document to provide for the new findings from secondary, whenever they are made available to me.
- Q Let's talk 1-8 because that is a topic close to my heart.

 I just happen to have a copy sitting here, Agency Exhibit 18.

 What is your understanding of the rules regarding smoking in occupied buildings?
- A My understanding is that we are to consider smoking in an occupied building as a valid complaint.
- In other words, let me see if I can categorize this by a brief reading of the regulation. It is the right of an individual to an environment free of contamination, granted?
- A Yes.

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23 And I point to Section 2a on the first page, which says,
24 "DA recognizes the rights of individuals to smoke in such
25 buildings, provided such action does not endanger life or

- A I'm sorry, I didn't. USACARA report?
- Those were the grievance reports from prior actions involving

 Mr. Button.
 - A That is what those are. I read them over, yes.
 - Q Where the recommendations to Command as to what actions they should take were made?
 - A Yes.

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- Q You are familiar with them?
- A I am familiar with several. I am not sure of all of them,

 but several. I would say the majority I have read.
 - Q Are you familiar with USACARA's seeming insistence that Mr. Pletten is the only one who can decide he is being annoyed or discomforted?
 - A I am familiar with that allegation, yes.
 - Q Is that guidance you now have from the Command as to how you interpret 1-8?
 - A No, I have had several people that complained and I answered complaints -- I have 5,000 people at the Tank Arsenal besides Mr. Pletten and anybody in the whole Command has ability to complain.
 - I understand, but if the complaint is made and it is supported by medical evidence to any degree, which Mr. Pletten's seem to be, isn't it the duty of the Command and hygienist to direct smoking be stopped around them?
 - A Yes, sir. And it is the duty of the Command to identify the

amounts of air movement in the area, which regulations provide, as an alternate to non-smoking in the area.

- Q So your interpretation of 1-8 is, if somebody screams and yells about smoking, as long as you are giving them 10 cubic feet, you don't care how much they yell?
- A Within reason with identifiable contaminants, yes.
- Q That is the way Command instructed you to interpret it?
- A That is the way I, as an industrial hygienist, interpreted this use of regulations as a guide.
- Q If the Surgeon General has recently decided, or published an opinion as to the synergistic relationship with cigarette smoke as being a hazard to individuals, and so identified, have you directed the Command to implement new regulations with regard to smoking so as to avoid that harm?

MS. BACON: I object to the question as phrased. Are you making a hypothet, or do you report on the Surgeon General for Mr. Braun?

- Q (By Mr. Cohen) He said he had read over the Surgeon
 General's report and was generally familiar with its contents.
- A I would not be the visiting officer involved. We would refer the problem over to the health and -- HEW Department as more specific to their mission.
- Q Has it been done in that fashion, to your knowledge?
- A To my knowledge, it has been referred to Headquarters and they look into it.

A Sure would.

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- Q It's still pending?
- A It's still pending.
- If we got a decision from higher headquarters in the next couple of weeks, we may not have had to come here at all?
- A That is correct.
- 9 Q Actions of Command may have been repetitious in view of what
 10 may happen from higher command?
 - A There is no information I have week from week what higher command will make at any instance, so I could not know.
 - Q We have testimony here that they try and do everything before they fire a man because of medical disqualification.

 Is that the case?
- 16 | A Yes.
- Obviously we don't know if they had to do that in this action now in view of your statement what higher headquarters is considering.
 - A It is possible. They can always -- local arsenal can always be overruled by Command, yes.
- Q What is the number one health hazard around the plant in your opinion as Hygienist?
- 24 A Noise.
 - Q What is number two?

- A Number two, I am not sure.
- Q Could be any number of things?
- A Could be any number of things.
- Q Did you investigate a complaint regarding drafts and air with regard to Mary Ellen Duke?
- A Yes, I did.

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- O Did you investigate a complaint about smoke and air with regard to Evelyn Bertram at one time?
 - A I can't remember.
 - Q If I were -- I will tell you this: Mrs. Bertram testified she filed a Worker's Comp claim at one time because her co-worker was smoking cigars and caused her conjunctivitis.

 Were you involved in that investigation?
 - A I was not apprised of Evelyn Bertram's specific complaint.
- 15 Q You investigated?
 - A Must have been handled by local supervision.
- 17 Q And you know of May Lonnie Sweeney?
- 18 | A Yes.
 - Q I will tell you for the record I represent the estate of
 May Lonnie Sweeney. Mrs. Sweeney is deceased. She was a
 mytro -- she had Lou Gehrig's disease. She has recently
 passed on. What was the nature of the complaints at the
 time for Mrs. Sweeney?
 - A I am really not -- I know I investigated some of the environment that May Sweeney worked in, but I am not totally

familiar -- I have a letter here I wrote and signed on

11 June 80 regarding a complaint of poor ventilation and

stagnant air, Building 230. Her location is one floor above
the Personnel Office where Leroy worked.

- Will they ever be able to make the building where
 Mr. Pletten worked, into a top-notch air ventilation area,
 so it complies with the regulations? Is it physically
 possible to get that building to work properly?
- A Internally possible. Just add a few air conditioning coils; it would all be over. There would be no need for any further cases of this type if we had air conditioning in 230.
- Q How much would that cost?
- A Today's market? Far more than what it originally would have cost. I don't know if that is an answer or not.
- Q Is it prohibitive economically?
- A It is not prohibitive economically.
- Q Has it been discussed by Command?
- A Over and over again.
- Q And you keep on recommending it, I'm sure.
- A I'm sure I do.
- When you stated in your 24 June memo that you visited

 Room 207W and no health hazard existed at that location and
 that this area would be satisfactory for Mr. Pletten to work
 in, did you have knowledge of the medical information at that
 time?

- A Yes, I had an air study; without identifying the data sheet to determine that 207W had air cooling fans in the area and they had sufficient air movement.
- Q Then you went on to say ventilation in all office areas in Building 230 is identical?
- A Yes.

- Q Is that the case?
- A It is designed to be identical, but does not always work identical.
- A more proper statement would be designed to be identical and anywhere, 70 to 90 percent of the time you comply with the regulation, that statement from the health and regulation point of view, the building would not have been acceptable for Mr. Pletten to work in?
- A I am not in a position to determine exactly the building's ability to accommodate Mr. Pletten at any one time because they have as many as six or seven different environmental conditions existing at one time, so I had to resurvey the building each day.
 - Interestingly enough, I looked at your 2 October letter and it indicates the computer room is the only section that is a no-smoking area section from a fire prevention and classified protection viewpoint only, and that is why you didn't make studies there?
- 25 A No.

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- First of all, I think it would be interesting if you took studies there and found it was the same as everywhere else.

 The question is: Why did they ban smoking in those areas and did you have anything to do with the ban?
- I had nothing to do with it and they banned smoking in the area simply because of the fact it was an environmentally-controlled area as to the cooling effect and it was a recirculation fan that existed in that small room. We looked to maintain 50 percent humidity. If you allowed any outside air to come in, we would enhance the dilution factors and then it would not be environmentally controlled anymore, so that is why we banned smoking in the Keypunch Room, which was separate, and it was an administrative decision not made from the Department of Health necessarily.
- Q How long have you worked for the Command, 29 years?
- A No, no. Five years. Twenty-nine years in the business.
- Now -- all right. Mr. Braun, from your personal standpoint, based on your expertise, would it then seem that Command has made a decision to control smoking for the benefit of a machine where they will not ban smoking for the benefit of an individual?
- A Very definitely.
- Why would that be, why would they value a computer, if you have any ideas, more than the health of one individual and his ability to work?

A	It has nothing to do with health; it is humidity control.
	We are trying to control that area for 50 percent humidity,
	we don't get rusting on the computer contacts, so we treat
	the machine, in a sense, probably, a little better than our
	humans. That is probably very true.

- Q You find that puzzling?
- A I do.
- Q If it was your ship to run, sir, and I know it is not, would you run it in that fashion?
- A No, sir, I would put my personnel in a higher priority than machines.

MR. COHEN: I have no further questions.

RE-EXAMINATION

BY MS. BACON:

- You stated in your testimony during cross-examination that you have appealed to higher headquarters. Who have you appealed to?
- A Surgeon General. We forwarded our material. I don't know whether it is appealed. I don't think I used that word. We forwarded our information to get some direction from the Surgeon General.
- Q How long ago did you do that?
- A It was right at the initial time that we were dealing with this particular case.
- Q Would it be 1979?

ן ו	A	Yes.
2	Q	And you have not received anything back from the Surgeon
3		General?
f	A	I have seen Dr. Kopechne. He made a visit to this reserva-
5		tion. It was a publicly-stated decision he was to come here
6		with an expert from TACOM Headquarters and was to investigat
7		the smoking problems at TACOM.
8	Q	After they were here and investigated, did they issue any
		directive to you to ban smoking?
10	A	None whatsoever. We received no further directives from
۱,۱		- Headq uarters.
12		MS. BACON: I have no further questions.
13		MR. COHEN: Nothing further.
14		Let me ask the last question.
15		Then he did not give you any further directiv
16		after he investigated here?
17		THE WITNESS: I never got any further direc-
18		tions from him specifically.
19	}	RE-EXAMINATION
20	BY M	R. COHEN:
21	Q	He didn't tell you to ban smoking?
22	A	No.
23	Q	The only thing you next heard he came out with this report
24		that talked about synergistic problems that said you may be
25		in danger if you sit in the same room?

STATE OF MICHIGAN)

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COUNTY OF OAKLAND)

I, Norma J. Yeager, Notary Public in and for the above county and state, do hereby certify that the foregoing deposition was taken before me at the time and place hereinbefore set forth; that the witness was duly sworn by me to testify to the truth, the whole truth and nothing but the truth; that the foregoing questions and answers were duly recorded by me in stenotype and later reduced to typewritten form under my supervision; and that the foregoing is a full, true and correct transcription of my stenotype notes.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal at Southfield, Michigan this 1944 day of 1982.

Norma J. Yeager (CSR0015)

Notary Public

Oakland County, Michigan

My Commission Expires: 7-19-83