U.S. DEPARTMENT OF LABOR

+ + + + +

ADVISORY BOARD ON TOXIC SUBSTANCES AND WORKER HEALTH

+ + + + +

THURSDAY MAY 9, 2024

+ + + + +

The Advisory Board met at the Comfort Inn Oak Ridge-Knoxville, 433 South Rutgers Avenue, Oak Ridge, Tennessee, at 8:30 a.m., Dr. Steven Markowitz, Chair, presiding.

SCIENTIFIC COMMUNITY

AARON BOWMAN MARK CATLIN GEORGE FRIEDMAN-JIMENEZ

MEDICAL COMMUNITY

MARIANNE CLOEREN* STEVEN MARKOWITZ, Chair MAREK MIKULSKI KEVIN VLAHOVICH

CLAIMANT COMMUNITY

JIM H. KEY GAIL SPLETT DIANNE WHITTEN KIRK DOMINA

DESIGNATED FEDERAL OFFICIAL

RYAN JANSEN

ALSO PRESENT KEVIN BIRD, SIDEM JOSH NOVACK, DOL CARRIE RHOADS, DOL JOHN VANCE, DOL

*Present via videoconference

C-O-N-T-E-N-T-S

Hearing Loss Hearing Loss Working Group 10
Follow-up of Day #1 Items Board Members
EEOICP Quality Assurance Board Members 120
Review of Public Comments 127
Follow-up Discussion of Day #1 Topics Board work plan

1 P-R-O-C-E-E-D-I-N-G-S 2 (8:3) 3 MR. JANSEN: All right, we'	name is Federal
	'll get name is Federal
3 MR. JANSEN: All right, we'	name is Federal
	Federal
4 started. Good morning, everyone. My r	
5 Ryan Jansen and I am the Designated I	duicoru
6 Officer for the Department of Labor's Ad	uvisory
7 Board on Toxic Substances and Worker Heal	th.
8 I would like to welcome you to	o Day 2
9 of this meeting of the Advisory Board h	here in
10 Oakridge, Tennessee. Today is Thursda	ay, May
11 9th, 2024 and we are scheduled to mee	et from
12 8:30 a.m. to 11:30 a.m. Eastern time.	
13 I am, again, joined by Carrie	Rhoads
14 from the Department of Labor and Kevin	n Bird,
15 our Logistics contractor. There will	be no
16 public comment period today.	
17 The Board's website which	can be
18 found	at
19 DOL.gov/owcp/energy/regs/compliance/advise	oryboa
20 rd.htm has a page dedicated to this me	eeting.
21 The page contains all materials submitted	d to us
22 in advance of the meeting.	

1	And will include any materials that
2	are provided by our presenters today. There
3	you can also find today's agenda as well as
4	instruction for participating remotely.
5	If any of the virtual participants
6	have technical difficulties during the meeting,
7	please email us at <u>energyadvisoryboard@dol.gov</u> .
8	If you are joining by Webex, this session is
9	for viewing only and the microphones will be
10	muted for non-Advisory Board members.
11	So the public may listen in, but not
12	participate in the Board's discussion during
13	the meeting. A transcript and minutes will be
14	prepared from today's meeting.
15	As the Designated Federal Officer, I
16	see that the minutes are prepared and ensure
17	that they are certified by the Chair. The
18	minutes of today's meeting will be available on
19	the Board's website no later than 90 calendar
20	days from today.
21	But if they are available sooner,
22	they'll be posted sooner. Although formal

(202) 234-4433

www.nealrgross.com

will prepared according 1 minutes be to the 2 regulations, also prepare verbatim we 3 transcripts and they should be available on the Board's website within 30 days. 4 5 During the discussions today, please speak clearly enough for the transcriber to 6 7 understand. When you begin speaking, especially at the start of the meeting, make 8 9 sure that you state your name so it's clear who 10 is saying what. Also, I would like to ask that our 11 you 12 transcriber please let us know if have 13 trouble hearing anyone of the or any information that is being provided. 14 I'd also like to mention that 15 the 16 terms of the 12 current Board members expire in 17 Julv, 2024. As such we have invited interested 18 parties to submit nominations for individuals 19 to serve on the Board. 20 Membership is balanced between the 21 scientific, medical and claimant communities 22 and current members may be renominated and

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

reappointed.

1

2

3

4

5

6

7

22

Nominations for individuals to serve on the Board must be submitted by May 17, 2024. information, including details For further submit nominations what about how to and materials are needed, please visit the Board's website.

As always, I would like to remind the 8 Board Members that there 9 Advisory are some 10 materials that have been provided to you in your capacity as Special Government Employees 11 and members of the Board which are not suitable 12 13 for public disclosure and cannot be shared or discussed publicly including during 14 this 15 meeting.

Please be aware of this throughout the discussions today. The materials can be discussed in a general way which does not include any personally identifiable information or PII such as names, addresses or a doctor's name if we are discussing a case.

With that, I convene this meeting of

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1 the Advisory Board on toxic substances and 2 worker health. I will now turn it over to Dr. 3 Markowitz for introductions. CHAIR morning. 4 MARKOWITZ: Good 5 Let's do a quick round of introductions and 6 then begin the meeting. Steven Markowitz, 7 Board Chair, a professor at City University of New York and Occupational Medicine physician. 8 9 Yes, Mr. Domina. 10 MEMBER DOMINA: Kirk Domina, I'm a retired Hanford worker of 38 years in reactor 11 12 operations, nuclear chemical operator and 14 13 employee health advocate for vears the as Hanford Atomic Metal Trades Council. 14 MEMBER WHITTEN: Dianne Whitten. 15 Т 16 current Hanford Atomic Metal Trades am the 17 Counsel Health Advocate. I am RADCON tech by 18 trade, 36 years the Hanford Nuclear at 19 Reservation. 20 MEMBER CATLIN: Hi, I'm Mark Catlin, 21 Industrial Hygienist retired. 22 MEMBER VLAHOVICH: Good morning. I'm

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 Kevin Vlahovich, I'm an Occupational Medicine 2 physician and Director of Employee Occupational 3 Health at University of New Mexico. Jim Key, 4 MEMBER KEY: Good morning. 5 49 year plus Cold War veteran employed 35 years Paducah Gaseous Diffusion Plant, the remaining 6 7 depleted uranium time at the hexafluoride facility, President of the United Steelworkers 8 9 International Union, Atomic Energy Workers 10 Council which encompasses eight DOE/EM the nation including 11 locations across Idaho; 12 Hanford; Carlsbad, New Mexico; Oak Ridge; 13 Kentucky; Portsmouth, Ohio; Paducah, Erwin, Tennessee and Bettis Labs in Pittsburgh. 14 MEMBER SPLETT: Gail Splett, retired 15 16 from the Department of Energy at Handford after 17 45 years. 18 MEMBER BOWMAN: is Aaron My name 19 I am a professor and interim Dean of Bowman. 20 the College of Health and Human Sciences at 21 Purdue University. I am a toxicologist. 22 MEMBER FRIEDMAN-JIMENEZ: Good

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	morning. I'm George Friedman-Jimenez. I'm an
2	Occupational Medicine physician and
3	epidemiologist. I've been running the
4	Bellevue/NYU Occupational Medicine Clinic for
5	33 years, seen a lot of patients, taught a lot
6	of medical students.
7	I lead the course for 20 years that
8	taught medical students the principles of
9	diagnosis so I've been always interested in
10	diagnostic theory and practice and applying it.
11	And this morning I'm going to talk
12	about part of that which is causation. But
13	I'll leave that for a minute when we start.
14	MEMBER MIKULSKI: Good morning, Marek
15	Mikulski, occupational epidemiologist,
16	University of Iowa, Occupational and
17	Environmental Health. I direct Iowa Former
18	Worker Program.
19	CHAIR MARKOWITZ: Thank you. So
20	today's agenda, we're going to start off with a
21	kind of a report from the hearing loss working
22	group and then launch into some proposed

recommendations.

1

2	And then we'll take it from there
3	picking up whatever threads, other threads from
4	yesterday and then kind of establishing what
5	the future work of the Board will be during the
6	remainder of this term and going into the next
7	term.
8	The hearing loss working group
9	didn't, hasn't quite completed a review, an
10	update of relevant scientific literature. But
11	instead we thought it would be a good thing to
12	actually talk about the different kind of
13	weight, talk about how we think about
14	causation.
15	And in relation to hearing loss which
16	in the program relates to two causes really,
17	noise and solvents. It's especially
18	interesting conversation so welcome Dr.
19	Friedman-Jimenez to discuss this.
20	MEMBER FRIEDMAN-JIMENEZ: Thank you,
21	Dr. Markowitz. Our working group consists of
22	Dr. Aaron Bowman, and Dr. Marianne Cloeren and

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

www.nealrgross.com

1	myself and we're focused on hearing loss which
2	in this program is largely related to solvents.
3	But is also related to other factors
4	including noise and that's what I'm going to
5	talk about today. We have started a literature
6	review.
7	Dr. Cloeren is leading that, but
8	there's a lot of literature out there and in my
9	own reviewing of some of the articles that
10	we've identified, there's some good and some
11	bad literature.
12	And it really requires sorting
13	through the studies carefully and reading them
14	carefully and so this is taking a fair bit of
15	time so we're not ready to give a report on all
16	of the literature review.
17	But there is a very important issue
18	involved in interpreting the information that
19	we find which is how do you interpret when
20	there two different causes of a disease and one
21	is occupational and one is not?
22	How do you interpret that? How do

(202) 234-4433

www.nealrgross.com

you deal with it? How do you apply it? So
that's what I'm going to talk about today. And
this is often called interaction.
And we'll go through that fairly
deeply what that means when you have causes
either competing causes or causes that combine
and both participate in the causation process.
Next slide please.
I have no conflict of interest. As I
said, I'm an occupational medicine physician
and an internist and for many years have been
interested in the diagnosis of medical disease.
And in occupational medicine, this
includes both the medical diagnosis and the
causal diagnosis which is something that most
doctors don't spend a lot of time studying or
thinking about.
But we do in occupational medicine so
I've been working on this as a theoretical
problem. Next slide please. So in today's
talk I'm going to go through an example in some
depth.

(202) 234-4433

www.nealrgross.com

1 The challenge of two interacting 2 I'm going to use lung cancer asbestos causes. 3 and smoking as the example. This is not hearing loss, obviously, but it's 4 the best 5 understood disease that has two known prominent 6 causes. 7 And with the best data that I could find which not by coincidence was published by 8 Steven Markowitz of a study of asbestos 9 Dr. 10 insulation workers and lung cancer and smoking. And then I'm going to illustrate how 11 12 we interpret these data for lung cancer and 13 asbestos and smoking and propose an analogous approach to the hearing loss cases. 14 And present some examples of studies 15 16 of hearing loss solvents and noise exposure and 17 then conclusions and next steps. So next slide 18 please. 19 We'll start off with a patient, an 20 80-year old man with an extensive smoking 21 history and a very intense asbestos exposure 22 history many years ago with plenty of latency

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

15

period.

1

2

3

4

5

13

14

15

16

17

18

And this case illustrates two potential causes of the lung cancer that he now has and multiple possible causal mechanisms. Next slide please.

What does work-related mean? 6 Well 7 this is sort of the crux of the issue. Is the disease work-related? Is it related to his 8 exposures in the work place? OSHA defines this 9 10 in the Standard 1904.5 which is actually an excellent standard I'll it 11 and just read 12 verbatim.

You must consider an injury or illness to be work related if an event or exposure in the work environment either caused or contributed to the resulting condition or significantly aggravated a pre-existing injury or illness.

19 So the three terms here that we focus 20 on are caused, contributed to and aggravated. 21 Next slide please. So cause, cause has been 22 studied for millennia.

1 And, you know, everyone understands 2 intuitively and by experience how to determine 3 whether something is causal or not. You know, you flip the light switch and the light goes 4 5 on. Was that just by magic or was there 6 7 some causal pathway and, you know, as babies we But it's never been really figure this out. 8 defined to perfection. 9 And there are always difficulties so 10 main concepts that 11 one of the for several 12 hundred years have been used as necessary and 13 sufficient causes. And I'm sure you've heard those terms 14 and not just in legal arena, but in everyday 15 16 A necessary cause is a condition under life. 17 which if it's absent, the disease cannot occur. It's also called sine qua non or "but 18 19 for" cause by the lawyers. A sufficient cause 20 is a condition which if it's present, the 21 outcome will inevitably occur. In other words, everything has been 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	met and the event happened. These are
2	deterministic definitions. They're not
3	probabilistic, they're not statistical.
4	But they're easier to think about
5	than the probabilistic definition and these
6	have been studied for hundreds of years, but in
7	the last say 30 years, there's been a huge
8	increase in the amount of publications.
9	Next slide please. This is a graph
10	of the number of publications on causal
11	inference in epidemiology over the last 30
12	years. You can see it's rising probably
13	exponentially.
14	It ended here in 2016 and there's
15	been even more since 2016. Next slide please.
16	So our concepts of causation are really stuck
17	back in the 20th century in terms of how it's
18	applied.
19	But the theory and now research
20	methods are really much more advanced than this
21	and I think there's some room for fine tuning
22	and bringing our conception into the 21st

(202) 234-4433

www.nealrgross.com

1	century.
2	And hopefully improving things and
3	making the determination of causation more
4	accurate. So necessary and sufficient causes
5	as a stand-alone concept don't work well.
6	And I'll show you some examples of
7	how they don't when you just use them alone.
8	Next slide please. But they can be useful in a
9	setting that I'll discuss in detail.
10	First example, asbestos exposure can
11	cause mesothelioma. But it's not a necessary
12	cause because in the absence of asbestos
13	exposure, people can get mesothelioma.
14	So it's not necessary for
15	mesothelioma causation. It's not sufficient
16	either because among all the individuals that
17	are exposed to asbestos, the great majority
18	don't get mesothelioma so asbestos is not
19	sufficient to cause mesothelioma by itself.
20	So next example is hepatitis B and
21	hepatitis B carrier state can cause
22	hepatocellular carcinoma, liver cancer. And in

www.nealrgross.com

absence of hepatitis B, people still 1 the get 2 liver cancer from other causes. 3 Many hepatitis B carriers don't get so it's not sufficient either. 4 liver cancer 5 The most common example is probably smoking and lung cancer. Smoking can cause lung cancer. 6 7 That's pretty well accepted. Ten to percent of people with lung cancer never 15 8 9 smoked. So it's not necessary. There are 10 other causes of lung cancer. Eighty to 90 percent of people who 11 12 don't get lung cancer who smoke so smoking is 13 not sufficient to cause lung cancer. So these slide please, 14 examples, next of how are necessary and sufficient on their own are not 15 16 adequate for our purposes. 17 1976, Kenneth Rothman, In an 18 epidemiologist now at Boston University was at 19 Harvard at proposed using the time these 20 necessary and sufficient concepts as sufficient 21 component causes in epidemiologies which is what he called them. 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

This was first described in 1965 by 1 2 Mackie and called INUS, I-N-U-S. A is the 3 cause of Β. Ιf А is an insufficient, but necessary part of a condition that is itself 4 5 unnecessary, but sufficient for B. 6 You got that? Too early in the 7 So 20 years later, a lawyer named morning. Wright, Richard Wright, simplified it somewhat 8 and called it NESS. 9 NESS is A is the cause of B if A is a 10 of sufficient 11 necessarv element а set of 12 component causes of B. It's a little bit 13 easier to think about. It still, it takes a few months of 14 working with it before it's intent and it's 15 16 second nature. The sufficient component cause 17 model fits really well with the OSHA definition of work relatedness. 18 I want to mention that and I think 19 20 it's really important that the definition of 21 work relatedness really matches the current scientific understanding of causation. 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

And it's a really good definition and 1 2 I think it's very useful for our purposes. Ιt 3 accommodates mutually exclusive causes, single causes aggravating 4 causes, contributing and 5 causes. Next slide please. So this is the Rothman model. 6 It's 7 often called the pie model for obvious reasons. And here, this is the simplest possible model 8 where you have four sufficient causes. I call 9 SC 1 Sufficient Cause 1, SC 2, SC 3 and SC 4. 10 And in this model, Mr. A.S. who is 11 12 our patient could have gotten lung cancer by 13 those four different mutually anv of and exclusive sufficient causes. 14 He either got it by SC 1 or SC 2 or 15 So each sufficient cause is a 16 SC 3 or SC 4. 17 sufficient set of component causes. So we call 18 these "U". One of the components is the 19 unmeasured factors that cause lung cancer. 20 Say U1 and I'll go through them in So each sufficient cause 21 the next few slides. 22 includes all of its necessary component causes.

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

Everything that's needed to cause lung cancer 1 2 is in the model under the Us except for the 3 exposure that we're talking about that's 4 separated out so that we can see what it's 5 doing. If any one of these component causes 6 7 absent, then that particular is sufficient cause mechanism cannot happen. So this follows 8 deterministic model and sufficient causes 9 а 10 compete two, three and four with each one, other. 11 Only one of them actually happens 12 13 first. And once that happens, then the person has cancer and the other causes may be part way 14 along the pathway, but haven't yet completed it 15 16 and caused the cancer by that mechanism. 17 So only one actually causes the lung 18 cancer before the others are completed. Next 19 So Uls, sufficient cause 1 slide please. 20 doesn't involve either asbestos or smoking. 21 And there are people who get lunq cancer who have never smoked and who were never 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 exposed to asbestos. And you can argue that, 2 you know, maybe they're, you know, exposed to 3 second hand smoke or second-hand asbestos, low 4 levels. 5 But the numbers are well beyond what those very low doses would cause so U1 is an 6 7 unmeasured set of genetic, epigenetic, temporal component causes that and environmental 8 are 9 sufficient to cause lung cancer in Mr. A.S. 10 pathway that So this is а could had not been exposed to either 11 happen if he 12 asbestos or had smoked. Next slide please. 13 Sufficient Cause 2 is a different sufficient Component for which both 14 cause the Cause 15 Asbestos, I abbreviate ASB and Component Causes 16 U2 are necessary. 17 And Cause 2, U2, unmeasured different from U1, but it also doesn't include 18 19 either smoking or asbestos. It's all the other 20 factors that are involved that combine with 21 asbestos to cause cancer. 22 So asbestos and U2 each are

> COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

(202) 234-4433

NEAL R. GROSS

www.nealrgross.com

is

а

necessary element of the sufficient set SC 1 2. 2 Next slide please. Sufficient Case 3 has the 3 necessary elements U3 and smoking. pathway 4 This is the smoking as 5 opposed to the asbestos pathway and UЗ can include just as an example and this is way over 6 7 simplified, factors like the RAS oncogene or other genetic factors and virtually all cancers 8 9 have some genetic component. 10 Down regulation of tumor suppressor, let-7 that targets the RAS oncogene or 11 mRNA, 12 other epigenetic factors which are more recent 13 branch of science that involves not the gene itself, but modifications to the gene that turn 14 it. off and allow block 15 on and or its 16 expression. 17 And adequate latency period for the manifestation 18 clinical of the lung cancer. 19 Latency period is also part of this U3, the 20 unmeasured causes. 21 It has to, you have to have plenty of time for the cancer to develop, but then once 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	it does, bang. On a certain day, nobody knows
2	when because it's only one cell that
3	transforms, you get a cancer and then that cell
4	grows out of control to become a tumor.
5	Next slide please. So Sufficient
6	Cause 4, SC 4 requires both asbestos and
7	smoking. And it has another set of unmeasured
8	causes U4. So for example, we know a little
9	bit about how this works.
10	The mechanism might involve the
11	asbestos in the lung damages the pulmonary
12	macrophages, the cells in the lung whose job it
13	is to clean out the lung.
14	And they grab up the tar particles
15	from the cigarette smoking and they move it up
16	and you cough it out and so that helps to
17	prevent the tar exposure inside your lung.
18	And that mechanism can be blocked if
19	the macrophages are damaged so the asbestos can
20	damage the macrophage and leave more tar in the
21	lungs so the cigarette smoking causes the
22	cancer more easily.

www.nealrgross.com

So this is a combined mechanism that 1 2 requires both the asbestos and smoking and this 3 is sometimes called synergism and sometimes it's called super additive mechanism. 4 Next 5 slide please. Mr. A.S.'s case, his 6 So in lunq 7 cancer could have been caused by any one of these four sufficient causes. And likewise, 8 9 his cancer could have been prevented by 10 preventing just one of a component cause. For example, if he got his cancer by 11 involves smoking and the 12 SC3 which other 13 factors, if he had guit smoking or had never gotten 14 smoked, he may not have that lung It could have been prevented. 15 cancer. 16 say prevented, When Ι it's not 17 It could be, you know, statistically absolute. a partial prevention reducing his risk of lung 18 19 Likewise, if he hadn't cancer. ever been 20 exposed to asbestos, SC2 and SC4 could not happen because they require asbestos. 21 So the problem is that we don't know 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

www.nealrgross.com

which of these mechanisms is going on in 1 any 2 individual. We can only see it in a group. So 3 it's not quite as simple as the model would identify it 4 have you think because we can't 5 yet. Maybe someday we'll have a biomarker 6 7 that can identify what mechanism occurred, but we don't yet. Next slide please. Okay, these 8 are the data from Dr. Markowitz's study. 9 10 And you obviously can't read them, but I'm going to pull them out for you. 11 Next 12 slide please. So taking the data here which 13 you can't read, I'll just blow it up. And next slide please, there are four 14 groups in these, in this cohort which was put 15 16 together by Dr. Markowitz as a group from the 17 American Cancer Society who were non-smokers 18 who did not, I'm sorry, who were smokers and 19 non-smokers. 20 But who had exposure never to 21 asbestos. So that's the non-asbestos cohort. 22 The asbestos cohort is a group of insulating

www.nealrgross.com

1	workers that Dr. Selikoff had collected.
2	Dr. Markowitz, please correct me if I
3	misrepresent anything. But so these are two
4	cohorts that are merged together and the
5	numbers here are the N so 18,843 people from
6	the Cancer Society cohort that did not smoke
7	and had no asbestos exposure.
8	The 468 from the insulators who had
9	only asbestos exposure, but did not smoke.
10	Thirty-five thousand four hundred who smoked,
11	but did not have asbestos exposure from the
12	cancer, American Cancer Society cohort and
13	1,909 who both smoked and had asbestos exposure
14	from the insulators.
15	So this is a combination of these two
16	cohorts. And among those numbers of people
17	that were followed for around 20 years on
18	average, there were 151 cases of lung cancer in
19	the non-smoking, non-asbestos group.
20	Eighteen in the asbestos only group,
21	2,540 in the smoking group and 321 in the both
22	asbestos and smoking exposed group. These are

(202) 234-4433

www.nealrgross.com

exposure groups that you can observe that you 1 2 can tabulate and analyze. 3 And so these numbers are all over the 4 place because there are thousands in one group 5 and hundreds in another group. So we have to adjust, we have to make the numbers so they're 6 7 comparable. So what we do is we divide the number 8 9 of cases by the number of person years, how 10 long the person was followed times the number of people that were followed that length. 11 So there were 377,000 person years in 12 13 the non-smoking, non-asbestos group. And those 18,000 people were followed for about 20 years 14 years times 18,000 people gives 15 20 SO you 16 something like 377,000. 17 So this is how do it in we 18 epidemiology so these are called, next slide please, incidents rates. 19 So the lung cancer 20 incidents rate in the first group, nonsmoking, no asbestos is four per 10,000, .0004 and to 21 22 simplify it I just pulled out the factor of

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1	10,000 so there are four.
2	So that's a rate and that is
3	comparable relatively so to the 21 per 10,000
4	that occurred in the asbestos group. Thirty-
5	nine in the smoking group and 107 in the both
6	asbestos and smoking groups. Next slide
7	please.
8	So we can actually deduce how many
9	occur by each mechanism in this group, not for
10	the individual, but for the groups. And these
11	are approximate numbers because these groups
12	were adjusted differently for age and gender.
13	And well I guess they were all men,
14	but for age and so they're not strictly
15	comparable, but they're approximately
16	comparable and I'll ignore that minor detail.
17	And it is a minor detail because the
18	numbers are pretty big. So four cases that
19	occurred in the non-smoking, non-asbestos
20	group, none of them could have involved either
21	asbestos or smoking because those people were
22	not exposed to asbestos or smoking so those are

1	all SC1 sufficient causes.
2	So we can deduce first that there are
3	four SCls. In the second group, asbestos only
4	in the insulators, there were 21 cases. But
5	out of those 21, some of the people might have
6	gotten the cancer, or did get the cancer
7	without the asbestos that they were exposed to.
8	The asbestos doesn't make you immune
9	to the other mechanism that you could have
10	gotten lung cancer. So you had those four,
11	there would be about four SC1s that would occur
12	in that group.
13	But in addition there were SC2s that
14	occur with asbestos that require asbestos for
15	the mechanism. So you can subtract off the
16	four from the 21 and get 17 and so this process
17	of deduction, you continue it the next group
18	out of the 39 cases among smokers, 35
19	subtracting off the four SC1s were by a
20	mechanism SC3.
21	And in the last group which is the
22	most interesting group for us, there are 107

www.nealrgross.com

1	cases, but four were SC1s, 17 were SC2s and 35
2	were SC3s. So there were 51 left that would
3	have required both asbestos and smoking.
4	So this is how we can get an idea how
5	important smoking and asbestos combined
6	mechanism is for this particular disease and
7	exposure. Next slide please. Next slide
8	please.
9	So if you eliminated asbestos
10	exposure, how many cases would you have
11	prevented? Well you couldn't prevent the
12	smoking cases. Right? Because they weren't
13	dependent on asbestos.
14	You couldn't prevent the cases that
15	didn't depend on either asbestos or smoking so
16	those four SC1s and 35 SC3s could not be
17	eliminated by eliminating asbestos.
18	On the other hand, all 17 of the SC2s
19	and all 51 of the SC4s would have been
20	eliminated if you prevented smoking. Next
21	slide please.
22	So applying this to compensation,

(202) 234-4433

www.nealrgross.com

pretty well-developed 1 this is а area of 2 compensation for lung cancer among people with asbestos exposure and many of whom are smokers. 3 4 So generally these cases are 5 compensable in both smokers and non-smokers. And the lung cancer relative risk for asbestos 6 7 among smokers or among non-smokers is what you use to make that causal judgment to support the 8 claim. 9 And for smokers, the relative risk is 10 2.75 for asbestos. Okay? 11 For nonsmokers, the relative risk for asbestos is five, 5.2. 12 So 13 you know, they're somewhat different relative risks, but they're both largely elevated, 2.75 14 means there's 2 almost three-fold increase 15 in 16 the risk of lung cancer due to asbestos among 17 smokers. the causation standard that 18 So we 19 use, it's more likely than not that the lung 20 was causally related to the asbestos cancer 21 what we apply and exposure is we use the 22 relative risk that's appropriate for that

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1	person whether a smoker or not, you use the
2	corresponding relative risk.
3	And so this is how people think about
4	it for the lung cancer in asbestos and smoking
5	patients, claimants, but you can apply the
6	similar logic to people with other risk factors
7	who didn't smoke who have a genetic risk
8	factor.
9	Virtually every lung cancer case
10	involves some genetic mechanisms as well which
11	we are starting to understand. There are other
12	epigenetic mechanisms most of which we don't
13	yet understand.
14	Age is a major factor, gender is a
15	major factor. All of these are non-
16	occupational contributing causes that combine
17	with the asbestos and, you know, they
18	essentially are ignored in the logic of
19	causation decision making and compensation.
20	Next slide please. So this
21	precedent, this experience that we have with
22	lung cancer and asbestos and smoking, I want to

www.nealrgross.com

1	apply this as an analogy to the hearing loss
2	case that we're in now that we're trying to
3	develop some better understanding.
4	The presumption of work-related
5	hearing loss is presented in the Procedure
6	Manual and there are two criteria that the
7	person has to meet.
8	First they have to have potential
9	exposure to one or more of a list of ten
10	qualifying toxic substances for at least ten
11	consecutive years of verified employment.
12	And there's a list of 20 or 30
13	qualifying jobs or equivalents as determined by
14	a contract IH opinion. And they have to have
15	the IH opinion that the claimant also had
16	concurrent daily exposure to noise above 85
17	decibels for those same ten years.
18	If one and two are not both met, then
19	that means the person doesn't meet the
20	presumption criteria and so they get then
21	relegated to the next category where they have
22	to be evaluated by the CMC by the contract IHs

(202) 234-4433

www.nealrgross.com

on a case-by-case basis to determine if their 1 2 cancer was related to -- I'm sorry, if their 3 hearing loss related to the toxic was 4 substance. And this is defined in the Procedure 5 Next slide please. 6 Manual. So the question should we 7 similar is, use а approach for could, that could hearing loss that 8 we be 9 caused by solvents or noise or both similar to 10 procedure, the way we think about the lung cancer and smoking and asbestos. 11 12 Next slide please. And so, first 13 question is, are there data to support this? did little quick 14 And Ι а and dirtv SO literature search and found a few articles that 15 16 publish the actual relative risks for hearing 17 loss by solvents broken down into noise exposed 18 group and a non-noise exposed group. 19 And not all the studies published 20 stratified it on noise exposure. But the few 21 that I found actually there were two others 22 found that were just terrible studies that Ι

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

and I couldn't even include them. I just threw 1 2 them out. And we find these. 3 We find studies that are well done studies that are not well done and you actually 4 5 have to read the study. And this is quite time consuming and this is a problem. 6 know, 7 ourselves And, you we are trying to find the time to read through all 8 9 these studies and evaluate their quality. 10 There have been many attempts to automate the quality determination of studies. 11 And none of them have really worked 12 in a way that save us a whole lot of time that 13 we don't have to read the whole study. 14 So I read a few studies here, but as I say later, 15 16 we'll have to do a proper literature search. 17 So pulling out the, I don't know if you can read it from here, but this is a study 18 by Sliwinska-Kowalska 2005 and she has 19 done 20 many studies of hearing loss and chemicals. And this was in JOEM, the Journal of 21 22 Occupational and Environmental Medicine quite a

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	well-done study. The first data point is non-
2	exposed, neither noise nor solvent exposure.
3	And she looked at styrene and she
4	looked at combined styrene and toluene so that
5	second odds ratio, these are odds ratios and
6	odds ratios are very similar to relative risks.
7	If it's one, that means the rate is
8	not elevated in the exposed group. If it's
9	above one, that means the rate is higher in the
10	exposed group.
11	If it's less than one, that means
12	it's lower or may be prevented by the exposure.
13	We didn't find that, but these are statistics
14	so they have statistical variation.
15	And so the error bars there are the
16	95 percent confidence interval for that odds
17	ratio. So the second column is only noise
18	exposure.
19	And the odds ratio is 3.3 so there's
20	a three-fold elevation among these workers in
21	hearing loss among those who were exposed to
22	noise.

(202) 234-4433

www.nealrgross.com

1	And they define noise as greater than
2	85 decibels and, you know, every day, every
3	second, the noise level in the work place
4	changes so they actually used very
5	sophisticated individual measurement of noise
6	for every single person in the study.
7	And they did individual measurements
8	of the solvent exposures as well. So the 3.3
9	fold elevation is for only noise. And then for
10	the styrene exposed, only styrene exposure, no
11	noise exposure.
12	In other words, the noise level was
13	below 85 decibels for everyone. The odds ratio
14	was 5.2. That's just for styrene and then the
15	fourth data point is styrene and noise exposure
16	and the odds ratio was 10.9.
17	But you can see the confidence
18	interval is quite wide. And you know, these
19	are quite labor intensive studies to do so the
20	numbers are not always very big. So the
21	confidence intervals can be wide.
22	So we have to review the literature

(202) 234-4433

www.nealrgross.com

and look at a number of studies and hopefully
find the best ones. The fifth data point is
styrene and toluene.
And so these are both solvents and no
noise exposure in the fifth and the odds ratio
was 13.1 and for styrene toluene and noise
exposure, the odds ratio was 21.5. Next slide
please.
And so it turns out you can calculate
the odds ratio for the noise exposed group, the
odds ratio for styrene in the noise-exposed
group and in the noise-unexposed group by
simply dividing out the odds ratios and I did
it here.
I won't go through the details, but
if you want to see the proof, I can easily show
that to you later. And it's in epidemiology
text books.
So the odds ratio for just styrene
among non-noise exposed, they've calculated it
was 5.2. The odds ratio for styrene plus
toluene exposure was 13.1 for the non-noise

(202) 234-4433

www.nealrgross.com

exposed. 1 2 And for the noise exposed, the odds 3 ratio for the styrene was 3.3. So even among those that have noise exposure, the styrene 4 increases the risk of hearing loss by about 5 threefold. 6 7 And for those exposed to styrene and toluene, it was 21.5 divided by 3.3, 6.5 SO 8 it's sixfold elevation due to the styrene and 9 10 toluene among the noise exposed people. Next slide please. So this shows 11 that there's a very substantial elevation in 12 13 the risk of hearing loss among people that are exposed to solvents. 14 And that's true in the noise exposed 15 16 group as well as in the noise non-exposed group 17 from that study. The second study here is by Kim, et al., 2005, yes. 18 19 And their odds ratios, I'll just cut to the chase here, mixed solvents was what they 20 studied. It was a long list of mixed solvents, 21 22 not just styrene or toluene.

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

And their odds ratio was 2.6 in the 1 2 non-noise exposed group and 1.9 in the noise-The next 3 exposed group. Next slide please. study was by Saraei among tire factory workers. 4 5 And they looked at organic solvents and among the non-noise exposure the odds ratio 6 7 1.86. statistically was Ιt not was All significant. the of them 8 rest were statistically significant. 9 10 I just didn't have time to make that In the noise exposed group, the odds 11 notation. 12 ratio was 2.6. So among people exposed to 13 noise, the styrene has the effect of increasing their risk of hearing loss twofold, threefold, 14 and more in these three studies. 15 16 As I said, there's a great deal of 17 variation. There's huge variation in а 18 workplace exposures by occupation, by industry, 19 over time with, you know, enforcement of OSHA 20 standards that come into effect more in the '90s and 2000s and then earlier. 21 these factors 22 So all have be to

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

considered when you put it together. 1 But there 2 is some good evidence and at least the first 3 study which I read in great detail is very well done and I would believe its conclusions. 4 5 You know, that doesn't mean that that's true for every workforce because of the 6 7 variation among workforces, but there is some good evidence that solvents alone can 8 cause 9 hearing loss. 10 solvents, in combination And that with noise can cause even more hearing loss. 11 12 So next slide please. So Ι think we can 13 conclude from this that at least these three in this preliminary literature review 14 studies suggests that solvents cause hearing loss, can 15 16 cause hearing loss among noise exposed and non-17 noise exposed workers. 18 And when there may be а non-19 occupational and second causal exposure that 20 interacts with the occupational exposure, there is a precedent for how we think about this. 21 And the lung cancer precedent is that 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

(202) 234-4433

you use the relative risk for the appropriate 1 2 group, the smoking group, you use the relative 3 risk for asbestos among smokers. In the non-smoking group, you use the 4 relative risk for asbestos in non-smokers. 5 So likewise, in the hearing loss, you can use the 6 7 relative risk for the occupational exposure with, due to solvents even in, if the noise is 8 9 occupational or non-occupation. 10 You know, the occupational aspect of it in by the solvents 11 is brought and not 12 necessarily by the noise. And a lot of people 13 have other noise exposures. this 14 You know, among group of 15 workers, many were in the military, you know, 16 firearm noises guite loud and impulse noise has 17 a particularly damaging effect on hearing. So many have been exposed to firearm 18 19 noise. People hunting, impulse qo people 20 listen to loud music, people mow their lawn and 21 muffler's not working very well, thev the listen to music with headphones which can be 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

www.nealrgross.com

louder than speakers because 1 even much you 2 have to worry about the neighbors don't and 3 turn it up and you can really harm your ears and hearing with that. 4 So there are a lot of noise exposures 5 that may or may not be occupational, but either 6 7 way, the hearing loss is exacerbated. You get that require both solvent and noise 8 cases 9 exposure that would be eliminated if you 10 eliminated the solvent exposure. So the OSHA standard Ι think 11 12 addresses this very well. And it does fit our 13 current understanding of these interactions. Next slide please. So I think where do we go 14 from here? 15 16 I think the first step is to do our 17 literature search and review and read the 18 articles which is quite a task. And the 19 question that I would focus on is among workers 20 exposed to loud noise, does solvent the 21 exposure cause hearing loss? And then other relevant questions to 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	investigate is there a threshold for duration
2	of exposure needed for causation? You know,
3	does it have to be ten years? Does it have to
4	be ten consecutive years?
5	And does the loud noise need to be
6	concurrent with the solvent exposure or could
7	it be, you know, another day or could it be
8	another year?
9	And I didn't find really anything on
10	that in the studies that I read. So I'd like
11	to, we'll do our literature review, but it
12	would be good if we could see the studies that
13	the Procedure Manual was based on if we don't
14	find them in our literature search.
15	Hopefully we will. And really, see,
16	this is something that is not easy to study and
17	it's rarely studied. The duration of exposure
18	and it varies a lot among people.
19	And it's not well characterized in
20	most articles so it may be difficult
21	information to get. But again, the presumption
22	approach doesn't, it's not the last

www.nealrgross.com

determination.

1

2	It's just sort of taking the most
3	obvious cases off the top and compensating them
4	without really further evaluation based on easy
5	to get information. And then the rest need to
6	be evaluated case by case by a CMC, by an IH
7	and it's much more labor intensive.
8	So we're trying to make it a little
9	more efficient by taking these obvious cases
10	out of that and not making doctors and IHs go
11	through the obvious if it's just such a slam
12	dunk case.
13	But there needs to be a real effort
14	to find the answers to these questions. I'm
15	not convinced that it's out there, but let's
16	see what we can find. And then, depending on
17	what we find, I think we should consider a
18	Board recommendation to update the Procedure
19	Manual if it's warranted.
20	You know, and we're not there yet so
21	we have to find out what we see in the
22	literature and how we interpret it. So I

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

www.nealrgross.com

wanted to present this.

1

2	I know it was a little technical and,
3	but this is not how most doctors think about
4	causation and it's very well discussed in the
5	epidemiology literature and most clinicians who
6	make diagnoses don't even have a clue about how
7	all of this stuff works.
8	And so, you know, we have
9	toxicologists, we have industrial hygienists,
10	exposure measurement and clinical occupational
11	medicine here.
12	And I think that we can put this
13	together and if we find the evidence that we
14	need in the literature, we can probably update
15	the Procedure Manual in a way that meets
16	whatever Government constraints hereunder and
17	that would more accurately classify people.
18	I can, I could give another talk on
19	accuracy of determinations, but that's
20	something that we really are trying to improve
21	on and it's not easy.
22	And this is a problem that even most

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

www.nealrgross.com

1	epidemiologists have not accepted as something
2	that they want to work on. So there's not a
3	lot out there, but I think we, there's been a
4	lot of progress in the last 50 years and we can
5	apply some of that to our thinking on this.
6	So thank you and I'm looking forward
7	to discussion questions, criticisms, thank you.
8	CHAIR MARKOWITZ: Thank you, Dr.
9	Friedman-Jimenez.
10	MEMBER FRIEDMAN-JIMENEZ: Next slide
11	please.
12	CHAIR MARKOWITZ: I thought that was
13	terrific. Oh, good, you're done. Okay. I
14	thought that was terrific. And highly relevant
15	actually to the issue of hearing loss and
16	solvent exposure.
17	I have a couple of, well actually
18	just one very brief observation. You mentioned
19	the OSHA standard for causation. Sounds very
20	similar, cause, aggravate or contribute, to the
21	standard that's in the Energy Compensation
22	Program.

1	So I just want to make that
2	connection. Just a couple of questions for Mr.
3	Vance because I can't remember in the hearing
4	loss presumption, the Procedure Manual, it's
5	only the occupational noise that counts. Is
6	that right?
7	MR. VANCE: Yes, okay. So let me
8	back everybody up and just explain it. Because
9	if you can go back to that slide right before
10	the end here.
11	CHAIR MARKOWITZ: By the way, purple
12	is the color of NYU Langone Health so George
13	had to use purple for this slide, just saying.
14	MR. VANCE: What I want let me
15	just explain.
16	CHAIR MARKOWITZ: Yes.
17	MR. VANCE: So let's think of this as
18	a line. Okay? And what our current procedure
19	basically stipulates is we accept that hearing
20	loss right now has an association with noise
21	and toxic solvents. Okay?
22	The Board has looked at that in the

(202) 234-4433

www.nealrgross.com

past and has given us recommendations for added 1 2 solvents and we have included those into the 3 standard, but that line exists in our procedure line 4 that says, if you cross this and the 5 standard basically stipulates that if you worked in a job or had an exposure to a solvent 6 and ten consecutive years of that exposure or 7 that work. 8 And also works best to consistent 9 10 levels of noise above 85 decibels, you cross that line, we're going to pay you so that the 11 12 causality threshold has been satisfied. 13 We don't argue about aggravation or contribution. We just say you've crossed that 14 epidemiological threshold for causality for the 15 16 standard applied to our program which is very 17 similar to the OSHA standard. All right? So that first bullet point we are 18 19 accepting that the reality exists. What would 20 be particularly useful to the program and has 21 been a point of contention are your second two 22 bullet points.

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

www.nealrgross.com

1	Very similar to what we were talking
2	with Marek about on the Parkinsonism, the
3	standard that we have and we shared this with
4	the Board, but I will resend it, we have a
5	white paper that was done that explained the
6	literature and epidemiological research that
7	was the source of the ten-year consecutive
8	standard.
9	And so what our epidemiologist was
10	looking at was the series of science that she
11	thought was sufficiently probative,
12	sufficiently weighted to say, yes, this is an
13	established causal relationship.
14	But the studies were based on
15	different analysis of duration of exposure. So
16	you had some studies that would have looked at,
17	you know, eight years of exposure to noise and
18	solvent.
19	Other studies looking at ten years,
20	12 years, what have you and so she was looking
21	at all of the studies to come to a reason
22	interpretation of like what would be the best

(202) 234-4433

www.nealrgross.com

temporal duration of exposure to establish that 1 2 causal line? Ten years. 3 That's what it was so she said ten So on the second bullet, that's what we 4 years. is 5 really need to focus on that still representing a good standard of 6 epidemiology 7 that it requires for the confidence to meet that line, that threshold for compensability? 8 9 Τs it ten vears of consecutive 10 exposure to noise and solvents or should it be less because that would 11 something be more 12 advantageous to our client population if you 13 say, okay, we've looked at it. And there's now available science or 14 existing science that says it really should be 15 16 eight years, five years or what have you. But 17 as you know, I think and I've talked with our toxicologist about this, the science is pretty 18 19 clear that there is connection between а 20 solvent and noise exposure and hearing loss. 21 We know that. The debate for the 22 program would be where to shift that line to.

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

www.nealrgross.com

1	Is ten years of consecutive exposure
2	appropriate or should it be less? Right?
3	CHAIR MARKOWITZ: Right.
4	MR. VANCE: Then the second point is
5	very relevant as well because right now we're
6	saying concurrent exposure to solvents and
7	noises is the requirement and that's what our
8	examiners would be looking for and establishing
9	a viable hearing loss case.
10	So if you change that standard and
11	say well it doesn't need to be concurrent, it
12	can be five, eight years of solvent exposure
13	and it can just be some period of high level
14	decibel noise exposure.
15	So just keep in mind, you know, the
16	program accepts that the causal connection
17	exists. It's playing with the details that
18	allows that line for compensability to shift.
19	So the focus should really be on
20	that. I'll resend to Dr. Markowitz the
21	analysis that we did that is sort of the basis
22	for the ten-year standard that we applied, but

from my understanding and my discussions with a
toxicologist, it was.
She had identified different
epidemiological literature and science, purity
of science that basically was identifying
different cohorts of people that they had
studied for different periods of time.
And she felt that the ten year, you
know, threshold was the most reasonable one
based on the body of the epidemiology so if
that is something the Board would look at and
say well we think that's reasonable, but you
could have also gone with this and it's a lower
duration of exposure, I think the program would
benefit from that.
And it would be an advantage for our
claimants to take that from a ten year to
something less. And that's what a lot of
representatives and others are arguing that the
standard's too conservative and it should be,
should be lowered.
CHAIR MARKOWITZ: Thank you. So Ms.

(202) 234-4433

www.nealrgross.com

Rhoads, if you could just take note that either 1 2 if it's been provided already, to us the used 3 references that were to develop the 4 original idea. 5 So just а couple of comments or So one issue is according to 6 questions. the 7 way you're presenting it, Dr. Friedman-Jimenez, it wouldn't have to be occupational noise 8 9 exposure combined with occupational solvent 10 for it to be considered occupational exposure 11 because it would meet the aggravation or 12 contribution standard. Right? 13 So the current presumption I think addresses only occupational noise exposure, but 14 people had which 15 if is verv common, non-16 occupational noise exposure plus solvents then 17 that should be considered occupational. And that's, I'm sorry, that will be a 18 19 question for the working group to address. The 20 second question is there was some suggestion 21 that if person had exposure to multiple а solvents that would increase the risk further 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

www.nealrgross.com

1	above and beyond just a single solvent.
2	I'm talking about the solvents that
3	are currently on the list. And so the question
4	is whether the person had multiple solvent
5	exposures toluene plus I can't remember the
6	example that you had there.
7	Could that shorten the ten-year
8	period? Could that increase in dose reduce the
9	duration. And again, the question is, you
10	know, is that addressed in the literature at
11	all?
12	And then finally, I think you were
13	suggesting that in the absence of noise
14	exposure solvents alone could produce hearing
15	loss.
16	And that's not addressed in the
17	current program at least according to the
18	presumption. And that would be a really
19	interesting issue also for the working group to
20	look at. All highly relevant.
21	One last comment, the issue of
22	concurrent, you had to have the noise exposure

(202) 234-4433

www.nealrgross.com

1	at the same time as you had the solvent
2	exposure. I'm very skeptical that they're
3	going to be studies that shed light on that.
4	And so the concurrent becomes some
5	sort of default assumption, not that it's been
6	proven that it's necessary, but that in the
7	program has become the default assumption.
8	And actually bringing studies or data
9	to disprove that would be difficult, but at the
10	same time I'm doubtful that they are actually
11	studies that prove that you need that
12	concurrent exposure.
13	So other members of the Board have
14	comments or questions? I see the mic in the
15	back, but just speaking to the Board members
16	for the moment. Anybody else want to say
17	anything? Dr. Bowman?
18	MEMBER BOWMAN: Yes, George, thank
19	you for that presentation. I very much enjoyed
20	that. And you had mentioned applying the "at
21	least as likely as not" standard within this
22	presentation you have ratios of odds, ratios in

(202) 234-4433

www.nealrgross.com

1	that.
2	Can you just, for the Board, clarify
3	how that standard would be applied? Is it as
4	simple as an odds ratio less than two is not
5	"as least as likely as not" and the above is or
6	can you talk to that?
7	MEMBER FRIEDMAN-JIMENEZ: This is a
8	well-studied and still controversial topic
9	that's been battered around in the epidemiology
10	literature for half a century or more.
11	At least as likely or not is a legal
12	tool to help us deal with the uncertainty
13	that's inherent in we don't have the data.
14	These things haven't been studied.
15	I agree with Dr. Markowitz that it's
16	unlikely that we're going to find studies that
17	shed a lot of light on these questions of
18	duration of exposure, dose of exposure.
19	We don't have dose of exposure either
20	for solvents or noise for each individual even
21	at the level of the epidemiologic studies. I
22	mean they were getting urine hippuric acid for

(202) 234-4433

www.nealrgross.com

toluene on every worker before and after shift 1 2 for the epidemiology study. 3 They don't do that for your average 4 worker. They just go to work and they work and 5 they go home and so the exposures is not as well measured in real life as they are in the 6 7 epidemiologic studies. And the noise exposures, I mean they 8 9 had a grueling care measurement microphone at a 10 specified distance. This doesn't happen in real life in real work places. 11 So we're always going to have this 12 13 level of uncertainty so you need a statistical way of dealing with that. So the more likely 14 than not is the time tested legal approach to 15 16 this. 17 And it's been much better developed 18 program of the radiation exposure in the В 19 They actually calculate what program. thev 20 call probability of causation. 21 But that's been criticized for 22 mathematical reasons to the point that they

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 backed off and some people call it assigned 2 share because there's so many assumptions that you need to make and satisfy for the relative 3 than two 4 risk greater to translate into 5 probability of causation greater than 50 it just, you can't 6 percent that meet those 7 assumptions in real life studies and real life working populations. 8 So it comes down to and I think for 9 future, 10 the foreseeable even some of the Godparents of AI have predicted that we will 11 12 always need an element of human judgment in 13 making causation decisions that it cannot be done purely by the data. 14 That you have to assume things about 15 16 confounders being uncorrelated and all kinds of 17 mathematical assumptions. So bottom line is 18 this is something that we trained physicians 19 The CMCs have received training. in. 20 You know, whether they need to 21 receive more training, we can't speak to that now because we haven't evaluated that, but most 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

occupational physicians get 1 some training in 2 this. 3 Few are at a high statistical level that they really understand it. And, you know, 4 this is just something that we need to have an 5 evaluation and make some judgments. There's no 6 7 gold standard. It's not like a diagnostic test where 8 you do a, you know, a chest x-ray and compare 9 10 with a CT and autopsy and see if you're it 11 right or wrong. There's no objective right or wrong 12 13 here that you can say in an individual. You maybe you guys in toxicology can 14 know, find fingerprints of specific exposures, map out the 15 16 pathway and then we'll know did the solvent 17 this hearing loss it cause noise or was 18 induced? 19 You know, was it the hair cells or 20 some other cochlear location that's, that 21 happens from solvents and not from noise? So this is a fundamental question. 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

And it's one that is not going to be 1 2 answered in my lifetime, but that we have the 3 approach to and that approach, I think involves kind of understanding of causation 4 this and 5 then a judgment by a well-trained physician. industrial hygienist 6 And the are 7 great, better than physicians at evaluating the exposure, but ultimately it comes down to the 8 9 physician having to put together the exposure 10 information, the family history, the medical diagnostic 11 history, the other tests and 12 everything to make a judgment.

13 is the diagnosis and part What of that diagnosis is what was the cause of this 14 disease? And, you know, NIOSH has an approach, 15 16 steps to doing a causation analysis the six 17 lot of these concepts and, vou know, а are 18 fairly old and have been, there's been progress 19 on this in the last fifty years that we're 20 trying to put into the process.

21 So that's a long answer to your 22 question. I'm sorry I couldn't give you a

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

complete answer, but that's --1 2 CHAIR MARKOWITZ: Yes. 3 MR. VANCE: -- about where we are. 4 CHAIR MARKOWITZ: But we, 5 nonetheless, we are confident that the working group on hearing loss can find some answers. 6 7 But we need to wrap this up so first I want to see if any other Board -- Dr. Cloeren? I see 8 9 you there. MEMBER CLOEREN: 10 Yes, hi. Yes, I'm Good morning. I thought that was 11 here. а 12 great presentation, Dr. Friedman-Jimenez. Т 13 agree, Dr. Markowitz, with your comments about the solvents alone really needs to be explored. 14 There's not, it doesn't seem 15 like 16 a qood reason for a requirement of there's 17 whether occupational noise exposure or non-18 occupational. 19 So I think that's one of the things 20 that need to take а close look at. we 21 Regarding "at least as likely as not," I think 22 we could try to compare with other presumptions

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 that have been used. 2 And what the relative risk was for 3 the other presumptive standards just to get an idea of precedent within the program. 4 CHAIR MARKOWITZ: Okay, thanks. 5 I'm not going to comment on, I'm going to refrain 6 7 from commenting on levels of relative risk. But I think, Mr. Vance, you maybe wanted to 8 make a comment and then we need to close this 9 10 out and move on. MR. VANCE: Yes, let me be really 11 12 quick. So just for the Board, be aware noise 13 in and of itself is not considered an occupational 14 toxic substance under our legislation. 15 16 So what Dr. Cloeren was just talking 17 critically important. about is What vou're looking at is the existing standard and you're 18 19 trying to figure out if the science supports the liberalization of that standard. 20 21 So reducing the temporal duration of

consecutive exposure looking at separating

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

noise, the synergistic effect that's already established in this standard and saying as Dr. Cloeren suggests that could an occupational exposure to just the solvent have its own mechanistic effect on hearing loss?

So just keep in mind that what we're 6 7 looking for the focus on is the existing standard of what could be done, if anything, to 8 9 liberalize that standard and expand what the 10 claims examiner would looking be for to establish that causal threshold. 11

unlike And other presumptive standards, this one is unique in the fact that the standard or either you meet you don't. physician There is involvement in no establishing the causative threshold.

17 The standard that exists in procedure 18 is the standard for accepting that some 19 substance combined with occupational toxic 20 noise contributed aggravated caused the or 21 hearing loss.

We would not go to a CMC to ask that

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1

2

3

4

5

12

13

14

15

16

question. The standard is basically a standalone causative threshold so.

CHAIR MARKOWITZ: All right, yes. Steve Markowitz. So I take that to mean that either you meet the presumptive standard and get compensated or if you don't meet that alternative standard, there is no route for is analysis which Ι think what was being suggested. Anyway, Dr. Friedman-Jimenez --

10 MEMBER FRIEDMAN-JIMENEZ: There is an 11 alterative --

CHAIR MARKOWITZ: -- we normally give Mr. Vance the last word, but we'll yield it to you this time.

FRIEDMAN-JIMENEZ: 15 MEMBER You 16 basically have to challenge the standard and 17 bring epidemiologic evidence. Each claimant that doesn't meet the presumption it says 18 in 19 the Procedure Manual has to bring a challenge 20 the procedure by bringing epidemiologic to 21 evidence supporting their case.

So it could be stated in a more user

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1

2

3

4

5

6

7

8

9

12

13

14

22

www.nealrgross.com

friendly way that they need to be evaluated by 1 2 their own physician and by a CMC in a case-by-3 case evaluation looking at all of the evidence. how much of tip of 4 But the the 5 iceberg the presumption cuts off isn't really important as long as you have a fall back that 6 each person can be evaluated if they don't make 7 the presumption in a way that it has a pretty 8 good chance of finding causation if it's there 9 10 and not finding if it's not there. So we can talk more in the future 11 12 about causation judgments made by physicians

13 and how that works and what is each claimant's access to that because it sounds to me like there's some obstacles in how people get 16 evaluated when they don't meet the presumption.

17 And that's really important because, 18 you know, how many angels are dancing on the 19 head of a pin? That's what we need to discuss if we don't have the data. 20

And we don't, we're not going to find the data I don't think that answered these key

> **NEAL R. GROSS** COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

14

15

21

22

www.nealrgross.com

questions on precisely enough so I think it all 1 2 will depend on the CMCs availability and 3 accessibility for people that don't meet the presumptions. 4 5 CHAIR MARKOWITZ: Okay. Thank you. And we're going to use the user friendly term 6 7 to seqway into Site Exposure Matrices. And there's Ι think а recommendation 8 a, or 9 information request draft that's been penned 10 overnight. If we could bring that up 11 the on 12 screen and present it and discuss it. Kevin, 13 you have that. Right? George, thank you very Okay, so you're going to have to make 14 much. that, I think, Kevin, you're going to have to 15 16 make it bigger.

We'll have to see only parts of it at a time is the best way and someone want --. Yes, that is that big enough for people to see? Okay. I think someone should verbally read it actually.

(Off-microphone comment.)

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1	CHAIR MARKOWITZ: We can alternate
2	sentences if you want.
3	MEMBER SPLETT: The first
4	recommendation is that the Board recommends
5	that the Department of Labor inform and submit
6	to the Board, in writing, a summary of any and
7	all changes sorry, getting ahead.
8	When they receive those changes from
9	the Department of Energy or any other source
10	prior to and with each change to the public
11	SEM, i.e., the internet-accessible SEM. Any
12	Board members want to discuss?
13	CHAIR MARKOWITZ: So this envisions,
14	this describes that, Steve Markowitz, that DOL
15	is receiving information. Right? From DOE.
16	And when DOL receives that information, that
17	the Board is requests I'm just paraphrasing
18	in order to understand it.
19	That the Board is requesting a
20	summary of any of that information that would
21	be used to alter the SEM.
22	MEMBER SPLETT: And it's not only

www.nealrgross.com

from the Department of Energy, but from PTS. 1 2 So any changes the Board would like to see it 3 before it goes into the public SEM. 4 CHAIR MARKOWITZ: Okay, so for any 5 other source, it would include PTS then? Right? 6 7 MEMBER SPLETT: Yes. CHAIR MARKOWITZ: So we know that the 8 PTS receives the data and developed and make 9 10 the changes in the private SEM, you know, the in-house SEM. Right? 11 12 MEMBER SPLETT: Right. 13 CHAIR MARKOWITZ: And then it goes to a classification review and goes to the public 14 So is this request asking it before it 15 SEM. 16 goes into the internal SEM or between the time 17 of the internal SEM and the public SEM? MEMBER SPLETT: Before the public SEM 18 19 because I think the Board wants to make sure it's been classification reviewed before it's 20 21 released to us. 22 CHAIR MARKOWITZ: Okay, so you know,

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

I mean in order for the Board to take a look at 1 2 it, we would have post --3 MEMBER SPLETT: Right. CHAIR MARKOWITZ: -- classification 4 Thanks. All right, 5 review. Okay, I get that. you know, we might just on the third line add 6 7 "after classification review" just to be specific about that. 8 MEMBER SPLETT: Kevin, could you do 9 10 that? MEMBER VLAHOVICH: Yes, where are you 11 looking at? 12 13 (Off-microphone comment.) CHAIR MARKOWITZ: Yes, before the 14 "prior" 15 say prior to, Ι mean after to 16 classification review before the word "prior." 17 MEMBER CLOEREN: I would do it by Board after 18 submit to the classification. 19 Maybe that would make it more clear. In the 20 very first line. 21 CHAIR MARKOWITZ: Yes. MEMBER CLOEREN: Maybe submit to the 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

www.nealrgross.com

 Board and maybe prefaces after classifica review. MEMBER SPLETT: Okay. MEMBER BOWMAN: Yes. MEMBER SPLETT: That's good. CHAIR MARKOWITZ: And so this is 	
 MEMBER SPLETT: Okay. MEMBER BOWMAN: Yes. MEMBER SPLETT: That's good. CHAIR MARKOWITZ: And so this is 	tion
4 MEMBER BOWMAN: Yes. 5 MEMBER SPLETT: That's good. 6 CHAIR MARKOWITZ: And so this 5	
5 MEMBER SPLETT: That's good. 6 CHAIR MARKOWITZ: And so this 5	
6 CHAIR MARKOWITZ: And so this	
	.s a
7 request of the summary of the changes o	r a
8 listing of the changes? That's a question	ı to
9 the, to the, to whoever will listen actual?	y I
10 guess.	
11 MEMBER KEY: Yes, Jim Key. No	t a
12 summary, but a complete listing, in order	for
13 us to understand what those changes are b	eing
14 made and not after the fact.	
15 CHAIR MARKOWITZ: Does that mean	you
16 want to change the word summary to listing?	Is
17 that what that means? I don't have a v	iew.
18 I'm just raising the question to clarify.	
19 (Off-microphone comment.)	
20 MEMBER WHITTEN: Yes, I agree.	We
21 should change that word to list.	
22 CHAIR MARKOWITZ: So you know whe	n we

(202) 234-4433

www.nealrgross.com

1	endorse, we vote on recommendations. We don't
2	really change the language of the
3	recommendations.
4	We then write up a rationale where we
5	can describe it so it's kind of important we
6	get the language that we want in the
7	recommendation that we vote upon.
8	MEMBER CLOEREN: So to make it read
9	better, I wonder if we should say something,
10	instead of when they receive a list of changes,
11	maybe when they receive such information from
12	the Department of Energy or other source.
13	Does that make sense? I wonder how
14	this can actually be done. Like I wonder if
15	this is too broad of and I don't know what all
16	may be coming in.
17	And I think what we're really asking
18	for here is if Paragon receives information
19	that's going to result in changes to the SEM
20	that, you know, that we take a look that, you
21	know, we'll be able to take a look at it before
22	it does public. That's the intent of this?

(202) 234-4433

www.nealrgross.com

1 MEMBER SPLETT: Yes, that is the 2 intent. 3 MEMBER CLOEREN: So as written, Ι don't know that this conveys that. 4 5 CHAIR MARKOWITZ: So, Steve Markowitz, just the request is not to access 6 7 the underlying documents that are, that underly the changes. Right? It's --8 MEMBER CLOEREN: Yes. I think that's 9 10 the --CHAIR MARKOWITZ: -- it's the result 11 12 and changes in the SEM. That's what the target 13 is here. Right? MEMBER BOWMAN: Correct. 14 MEMBER CLOEREN: So I think maybe 15 16 what we're really asking for is documentation 17 of changes that are made in the internal SEM so 18 that they could be reviewed, you know, along 19 with kind of the reason or those changes so 20 that those can be reviewed before they get 21 incorporated in the public zone. CHAIR MARKOWITZ: Steve Markowitz. 22 Ι

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	don't think they've undergone classification
2	review.
3	MEMBER CLOEREN: Well let's say
4	(Simultaneous speaking.)
5	CHAIR MARKOWITZ: For the internal
6	MEMBER CLOEREN: classification,
7	yes. Because I worry that the way this is
8	written, it might be that it looks like we're
9	asking for all these sort of documents of maps
10	and documents of this building to begin that
11	and, you know, that kind of thing.
12	I don't know that that's practical
13	for us, you know, a) to need it, and b) to
14	review it.
15	CHAIR MARKOWITZ: Question for Mr.
16	Vance. The classification review occurs after,
17	between the internal SEM and the public SEM in
18	terms of time.
19	MR. VANCE: Correct. So on May 16th,
20	what they're going to do is they're going to
21	freeze the internal Site Exposure Matrices.
22	That will go and they'll report that to the

(202) 234-4433

www.nealrgross.com

Department of Energy at which time they'll do 1 2 the classification review for the release of 3 that information that will encompass existing information or any changes that have occurred 4 5 since the last freeze. I think part of the 6 MEMBER SPLETT: 7 intent was that the Board would be looking at what has changed whether it's every six months 8 9 so that we can see the volume and the types of 10 things that are being changed because as of now, that is invisible to the Board. 11 Mr. Kev, 12 would you agree with that? 13 MEMBER KEY: Yes. On the wording too, 14 MEMBER BOWMAN: accomplish that goal. We say list of any and 15 16 all changes. I think we mean changes, of 17 course, to the SEM. Right? And --18 MEMBER KEY: Yes. 19 So it's any changes MEMBER BOWMAN: It doesn't matter the source in 20 to the SEM. 21 some sense so could we drop "when they receive information from the DOE or the other 22 such

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 source?" 2 Change it to the ten prior to and 3 with each change in the public SEM. MEMBER SPLETT: We just didn't want 4 5 to limit it just from things from the 6 Department of Energy. It was also the things 7 that Paragon was putting in as well as the things that they received --8 9 MEMBER BOWMAN: Right. 10 MEMBER SPLETT: -- from DOE or public sources or PTS. But I'm --11 12 CHAIR MARKOWITZ: So to the SEM, 13 maybe -- sorry, maybe then changes to the SEM -14 MEMBER SPLETT: 15 Yes, we could take that whole section out. 16 17 CHAIR MARKOWITZ: Yes, the "any other 18 source" includes Paragon includes the public 19 SEM mailbox. Right? So --20 MEMBER SPLETT: Correct. 21 MEMBER BOWMAN: It says all changes so that would be, if it's all changes it has to 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 be all sources. 2 MEMBER SPLETT: All sources, yes. 3 MEMBER BOWMAN: So I'd propose that the highlighted region that Kevin highlighted 4 be deleted, but before it gets delete, because 5 we lose it? That picture. 6 7 MEMBER SPLETT: I think as long as we all recognize that any changes are from DOE 8 9 outside and Paragon. I don't have any issue 10 with deleting that, make it less wordy. MEMBER BOWMAN: And that would go 11 12 into the justification anyway. 13 MEMBER WHITTEN: Do we want to say changes slash updates? 14 15 CHAIR MARKOWITZ: Changes would 16 encompass updates. 17 MEMBER WHITTEN: Okay. 18 CHAIR MARKOWITZ: So changes is 19 broader, so. 20 MEMBER BOWMAN: We might want to 21 describe what we mean by list. Do we want to a justified list? 22 we want a -- what is Do а

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

(202) 234-4433 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

www.nealrgross.com

1	list?
2	CHAIR MARKOWITZ: Steve Markowitz. I
3	mean, I would interpret that as a description,
4	you know, of it was this and we're changing it
5	to that.
6	MEMBER BOWMAN: And
7	CHAIR MARKOWITZ: Without a
8	rationale. Just description of what they're
9	doing.
10	MEMBER SPLETT: Right. And if
11	anybody on the Board had a specific question
12	that could be addressed to the Department of
13	Labor if there was a particular item that was
14	in question.
15	CHAIR MARKOWITZ: All right so do you
16	want to move on? Unless there are other
17	comments or suggestions here, should we move on
18	to the next paragraph?
19	MEMBER SPLETT: We can. I didn't
20	know if you wanted to vote on each one
21	separately, but we can do them all at the same
22	time if that's what you prefer.

(202) 234-4433

www.nealrgross.com

1	CHAIR MARKOWITZ: Well can't see the
2	bottom here. Are they, are all of them
3	recommendations? Are some of them information
4	requests?
5	MEMBER SPLETT: The second one is
6	another information request and the third one
7	is a request for the meetings between Paragon
8	and members of the Board to continue.
9	CHAIR MARKOWITZ: Yes, oh I guess
10	it's simpler if we just vote on each one
11	separately.
12	MEMBER SPLETT: Okay.
13	CHAIR MARKOWITZ: So that we feel
14	more accomplished.
15	MEMBER CLOEREN: Can we fix the typo?
16	CHAIR MARKOWITZ: Yes.
17	MEMBER CLOEREN: In the second
18	paragraph. Please.
19	PARTICIPANT: Yes.
20	CHAIR MARKOWITZ: So we're going to
21	just looking at the first one then we're going
22	to any additional comments or questions

www.nealrgross.com

1	about that before we take a vote on that?
2	Okay.
3	MR. JANSEN: I'll record the vote.
4	Dr. Bowman?
5	MEMBER BOWMAN: Yes.
6	MR. JANSEN: Mr. Catlin?
7	MEMBER CATLIN: Yes.
8	MR. JANSEN: Dr. Cloeren?
9	MEMBER CLOEREN: Yes.
10	MR. JANSEN: Dr. Friedman-Jimenez?
11	MEMBER FRIEDMAN-JIMENEZ: Yes.
12	MR. JANSEN: Dr. Markowitz?
13	CHAIR MARKOWITZ: Yes.
14	MR. JANSEN: Dr. Mikulski?
15	MEMBER MIKULSKI: Yes.
16	MR. JANSEN: Dr. Vlahovich?
17	MEMBER VLAHOVICH: Yes.
18	MR. JANSEN: Mr. Key?
19	MEMBER KEY: Yes.
20	MR. JANSEN: Ms. Splett?
21	MEMBER SPLETT: Yes.
22	MR. JANSEN: Ms. Whitten?

1	MEMBER WHITTEN: Yes.
2	MR. JANSEN: Mr. Domina?
3	MEMBER DOMINA: Yes.
4	MR. JANSEN: There are 11 yes votes
5	and zero no votes.
6	CHAIR MARKOWITZ: Okay, so the next
7	one, you know, the Board requests the
8	Department of Labor direct their contractor
9	currently PTS to prospectively.
10	And retrospectively restore
11	traceability of any chemicals and L-A-B labor -
12	- you could add O-R to that word, labor
13	categories that are slash were removed from the
14	SEM with documentation for the rationale for
15	their removal. The floor is open for comments,
16	questions.
17	MEMBER CLOEREN: Marianne Cloeren
18	here. I think what we mean with documentation
19	for rationale would be at the SEM that there be
20	some kind of statement and public SEM
21	explaining the rationale, not just providing
22	the rationale to the Board.

(202) 234-4433

www.nealrgross.com

1	CHAIR MARKOWITZ: I'm sorry could you
2	repeat that? You didn't come through entirely.
3	MEMBER CLOEREN: I think the very
4	last line with documentation for the rationale
5	for the removal. I think the intent there is
6	that the SEM would have a statement providing
7	such document, explaining the rationale.
8	It's not really clear what
9	documentation for the rationale is where that
10	documentation would go? Is that coming to the
11	Board? I think the intent is that the SEM
12	would include a statement explaining rationale.
13	MEMBER SPLETT: You are correct.
14	That is what the intent was that these
15	chemicals were removed because they were rolled
16	up into this other chemical or this labor
17	category was separated into these three other
18	labor categories that the traceability would be
19	in the SEM, easy for folks to claimants and
20	claims examiners and authorized representatives
21	to understand not for that to be provided to
22	the Board.

1	But for it to be clearly understood
2	and located in the SEM. You're absolutely
3	right.
4	MEMBER CLOEREN: So I think we need
5	to wordsmith that with documentation for the
6	rationale for the removal allowing a public
7	statement in this SEM or provided
8	MEMBER BOWMAN: The third word from
9	the end, what about with documentation for the
10	rationale of their removal in the SEM?
11	MEMBER SPLETT: And I think it's not
12	just the removal, it's sometimes it's their
13	segregation. And we go back to the example
14	that we used yesterday about the labor and the
15	groundskeeper.
16	There weren't removed. They were
17	separated, but it appeared that they were
18	removed from the labor, the toxics, but they
19	were actually separated. Which is that
20	documentation so there's
21	MEMBER BOWMAN: With rationale for
22	the documentation of the change?

(202) 234-4433

www.nealrgross.com

1 MEMBER SPLETT: Yes, that's probably 2 better. 3 MEMBER BOWMAN: Of the change in the SEM. 4 5 MEMBER SPLETT: That's good, Aaron. 6 MEMBER WHITTEN So do we want to 7 removed from the change the word SEM then because they weren't removed, they're still in 8 9 there. They're just --10 (Off-microphone comment.) MEMBER WHITTEN: -- modified. 11 Yes, 12 that's а qood word. Reclassified, re-13 segregated. I don't know, what do you think? MEMBER CLOEREN: Removed or moved? 14 Removed from or moved within? 15 16 MEMBER BOWMAN: Could we just say 17 altered? MEMBER WHITTEN: Yes, I like that. 18 19 MEMBER CLOEREN: And then it would be "in." 20 I'm going to have fun with some 21 prepositions. So I don't want to disagree with 22 I think the last line should say with you.

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

documentation of the rationale for the change. 1 2 So I would switch those prepositions. 3 MEMBER BOWMAN: I concur. This 4 CHAIR MARKOWITZ: is Steve 5 Markowitz. To me this sounds like an enormous task that we're asking because if you apply 6 7 retrospectively, we're talking about this Ι think this SEM went operational in 2006. 8 So you're talking about, I'm sorry 9 10 when was -- you want to correct me? Sure. Well the public SEM, 11 MEMBER DOMINA: we didn't get that until what, '12, '13? 12 You 13 know, it was way later. We didn't even know it existed. 14 Okay. 15 CHAIR MARKOWITZ: The, SO 16 mavbe, Ι don't know when the original, you 17 know, internal SEM was so even if it's back to 18 2012, it still strikes me as an enormous task 19 to go back 12 or more years. And describe for individual toxins 20 21 and for labor categories, what changes were 22 made and the basis for those changes. I mean,

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	if it exists, and you know, if it was routinely
2	done and it merely needs to be compiled, you
3	know, and shared with us, then that doesn't
4	sound like such a big deal.
5	But if it hasn't been done, then I'm
6	skeptical that it could be done, but you know,
7	it I guess there's no harm in asking. I do
8	wonder whether, you know, the PTS is a
9	contractor, the contract says certain things.
10	You know, it sets out the tasks
11	thinking that this might not be a task in the
12	contract is whether, you know, we're just going
13	to get a response from DOL that well, you know,
14	it's not in the contract, we can't do that.
15	MEMBER SPLETT: One of the things we
16	looked at as the ownership of records clause
17	and the requirement to fall all national
18	archives and records administration
19	requirements which includes documenting any
20	changes to the SEM.
21	So they should have it somewhere. If
22	they don't that would be very disturbing that

(202) 234-4433

www.nealrgross.com

they're making changes without documenting as 1 2 required by federal law. 3 CHAIR MARKOWITZ: Okay. So let's just focus for a moment on the term restore 4 5 traceability. What exactly are we asking them to do, restore into the public SEM? 6 7 MEMBER SPLETT: I think that was our 8 intent. CHAIR MARKOWITZ: Okay, then I think 9 10 we might need to be more explicit. MEMBER SPLETT: And I do think this 11 12 is one of the reasons that there is a lot of 13 unfortunately distrust SEM in the to the claimant community because 14 they things see 15 moving. 16 And changing the numbers changing, 17 job titles changing with no documentation the even if it's just a footnote. And I do think 18 that's one of the root causes. 19 20 I'm looking at the other members, Mr. 21 Key and Mr. Whitten, Ms. Whitten, excuse me. 22 If that is not, do you not agree that that's

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

one of the issues with the perception?
MEMBER WHITTEN: Yes, definitely.
MEMBER KEY: Yes, so it is one of the
issues and also when we became aware of the
information being moved from the SEM, no Board
Member was apprised of prior and we questioned
that.
The subcontractor says well we have
that information, it's in another database, but
you don't have access to it. So that's the
reason why this needs to be performed.
MEMBER CLOEREN: I recommend we
consider dissecting this into two requests
because I agree with Dr. Markowitz that the
first one may not be, may not be feasible.
But the second part is really
important and I think that, you know, providing
not just documentation of the rationale for the
change, but kind of instructions on how to find
what the heck you're looking for.
You know, if this changed, if you're
looking for this, this is where it is now and

(202) 234-4433

www.nealrgross.com

You know, some kind 1 this is the reason or it. 2 of simple instructions and explanation in the 3 SEM. MEMBER SPLETT: 4 So are you suggesting labor 5 separating the chemicals from the 6 categories or just --7 MEMBER CLOEREN: No, I'm suggesting 8 separating the perspective and retrospective 9 traceability restoration request from the 10 provide instructions request to some and documentation of changes 11 so that people can 12 find what they're looking for. 13 MEMBER SPLETT: So one looking ahead 14 and one looking --MEMBER CLOEREN: 15 Yes. 16 MEMBER SPLETT: -- retrospectively at 17 I got you. 18 MEMBER CLOEREN: I don't know if I 19 disagree, but I think that it should be easv 20 enough to provide some instructions and 21 documentation like you may see some changes and 22 this is where to go look for it.

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

These are reasons for it and this is 1 2 how to look for what you'll conform. I'm not 3 sure, maybe that isn't easy. You know, maybe there's so many changes that I think --4 MEMBER CLOEREN: 5 Ι do think Dr. Markowitz's point is well 6 taken that qoinq 7 backwards, it may be much more difficult than it is saying as it is as of, you know, October 8 9 1st to whatever, we're going to follow this 10 So maybe those should be separated process. for a DOL --11 MEMBER SPLETT: So the point --12 13 MEMBER CLOEREN: for DOL ___ to 14 provide two separate answers. One is, vou know, looking forward, we'll do 15 this or if 16 they're qoinq whatever to say, but 17 retroactively that's much more difficult. 18 CHAIR MARKOWITZ: Yes. Dr. Bowman? 19 MEMBER BOWMAN: If we within the same 20 paragraph, you could add a second sentence to 21 address the retrospective part so we could see 22 a two respectively enable traceability of in

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

any chemical blah, blah, blah that are altered 1 2 in the SEM. 3 And then the Board could also request an analysis of the feasibility of taking this 4 5 action to past changes. And we can get a report on that feasibility and make a decision. 6 7 We might want to, if there's a -- if it is in fact an onerous task, the Board may 8 decide that certain types of changes would take 9 10 priority would maybe and recommend those changes get priority. 11 12 But until we have a feasibility, a 13 sense of that feasibility, we might not know could 14 the scope to which we reasonably 15 recommend. 16 CHAIR MARKOWITZ: That, Steve 17 Markowitz, that could go in the rationale if Well, 18 need be. I'm, or it could be the 19 language could be altered here. I'm not taking 20 a position. But I'm still stuck on the restore 21 22 traceability. I'm not sure what -- I think

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

www.nealrgross.com

there needs to be more specificity in what's 1 2 know, requested here or advised. being, you Because I'm not sure it was traceable. 3 4 MEMBER SPLETT: You know, and --I'm not sure what's 5 CHAIR MARKOWITZ: being restored, but --6 7 MEMBER SPLETT: I think one of the things that we had talked is if one and again, 8 9 going back to the labor and grounds keeper, if 10 labor category there was asterisk in the an said grounds keeper with this 43 11 that toxins 12 were moved to a standalone category, that's 13 enough. I mean, that's enough for somebody 14 15 looking at that labor category to know that 16 something has changed. 17 CHAIR MARKOWITZ: So do vou mean 18 instead of traceability, identify restore 19 changes? If you would substitute identify 20 changes. 21 MEMBER BOWMAN: Yes, I think that 22 could work, but the phrasing of traceability is

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

intended refer the that. 1 to back to sense 2 someone knows and remembers this was there, now 3 it's gone. 4 So provide some trace to what 5 happened. 6 CHAIR MARKOWITZ: I see. 7 That's the intent of MEMBER BOWMAN: that word choice, but for clarity, I think for 8 this statement, we could say that we could use 9 10 traceability perhaps the word in the justification to talk about the intent and the 11 12 purpose of this. 13 So would think potentially Ι the suggestion, Steven, that you just made would be 14 15 okay. 16 I agree. PARTICIPANT: 17 And maybe take restore PARTICIPANT: 18 and just put provide traceability so make it 19 more proactive instead of just --20 MEMBER BOWMAN: Yes. 21 MEMBER SPLETT: Because there never 22 was traceability for what members of the public

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

want the Board could see. 1 Clearly within 2 Paragon and I assume the Department of Labor, 3 they had some of that traceability. But for those of us on the IAS side 4 5 that wasn't there. Ms. Whitten, do you --MEMBER WHITTEN: 6 Correct. Meeting 7 with them in person when they -- this is Dianne When they explained that a lot of the Whitten. 8 9 chemicals that we noticed were missing were 10 missing because of that report, Institute of Medicine Report that came out. 11 So if that's the reason why most of 12 the chemicals have been moved, I think it would 13 be easy enough for them to denote that on the 14 SEM somewhere. But that's the reason. 15 16 CHAIR MARKOWITZ: Steve Markowitz, 17 what we don't really know whether, you know, that conversion from constituents to mixtures 18 19 occurred 2013, 2014, whether that was, you 20 know, the only time or even the major time when 21 what's being described here occurred so. 22 I'm sorry, there was a suggestion

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

substitute something for 1 with to the word 2 restore. 3 MEMBER BOWMAN: Yes, the suggestion 4 was --Identify changes, is 5 MEMBER WHITTEN: that what you said? 6 7 MEMBER BOWMAN: To prove --To provide instead of PARTICIPANT: 8 9 restore, to provide. 10 CHAIR MARKOWITZ: Oh, provide. Okav, so is that friendly amendment accepted by the -11 - okay, so Kevin if you could just change the 12 13 word "restore" to "provide." BOWMAN: Instead of 14 MEMBER traceability, Steven, would to provide notation 15 16 of any chemical or labor categories because I 17 mean what you're asking for is a note. 18 MEMBER SPLETT: I mean clearly that's 19 the intent is that somebody looking at the IAS 20 could find out why something changed without 21 having to, there's no other way for them to know it if it's not noted. 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	I go back to labor or grounds keeper.
2	All it would take is a note, groundskeeper
3	moved to a separate labor category with 43
4	toxic materials going with it.
5	MEMBER BOWMAN: So then I'm to, so
6	provide notation of any chemical labor category
7	would, in fact, encompass what's
8	MEMBER SPLETT: Yes. Explanation?
9	MEMBER BOWMAN: Explanation works
10	too.
11	CHAIR MARKOWITZ: I don't know,
12	explanation is the rationale. I think what
13	your, the traceability issue is the
14	description. This was there, now it's no
15	longer there. Something else appears.
16	This was moved, that kind of
17	information. So provide notation of any
18	changes. Right? That's what is being
19	requested.
20	MEMBER WHITTEN: Correct.
21	CHAIR MARKOWITZ: So after "notation"
22	I would then add "of any changes" in. Yes.

Actually it should be, I think it should say 1 2 toxic substances not chemicals. But that's the 3 term that's used. Should 4 MEMBER WHITTEN: Yes, true. 5 it say the Board recommends Department of Labor direct or are we good with the word request? 6 Ι 7 think we should put recommend there. You guys 8 CHAIR MARKOWITZ: You 9 know we're 10 purely advisory so --11 MEMBER BOWMAN: Yes. 12 CHAIR MARKOWITZ: -- everything we do 13 is a recommendation. MEMBER WHITTEN: Right. 14 15 (Off-microphone comment.) 16 CHAIR MARKOWITZ: So you probably 17 should change the request to recommend so it's 18 19 PARTICIPANT: Yes. 20 MEMBER CATLIN: Okay. And are we 21 asking for only the changes to toxic substances 22 and labor categories or are we actually looking

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 for the --2 MEMBER BOWMAN: In the discussion of 3 the --MEMBER CATLIN: -- at all to --4 -- in discussion of 5 MEMBER BOWMAN: 6 the working group, those two examples, the 7 toxic substances and labor categories were the 8 most important. 9 MEMBER CATLIN: Okay. That came out and so 10 MEMBER BOWMAN: this is already a very scoping request. 11 12 MEMBER CATLIN: Okay. 13 MEMBER BOWMAN: Right. Yes. Well, yes. 14 MEMBER CATLIN: I'm not sure 15 MEMBER BOWMAN: the 16 second any is needed of any changes to, you can 17 drop that any of the toxic because it's already 18 any changes. 19 CHAIR MARKOWITZ: Okay, last comments 20 or suggested changes. Well, that was a 21 MEMBER WHITTEN: 22 good --

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

www.nealrgross.com

1	MEMBER VLAHOVICH: Should Board be
2	capitalized?
3	MEMBER WHITTEN: Oh, sorry. That was
4	a good point about the other filters to really
5	take that into consideration when we were
6	looking at this.
7	But the facilities, work processes,
8	those have been issues too.
9	CHAIR MARKOWITZ: So the creators of
10	this recommendation that the suggestion is that
11	you add to the toxic which is labor category's
12	work processes. So do you want to do that?
13	MEMBER SPLETT: I agree. These were
14	the two big ones where the toxic substance and
15	labor categories, but while we're getting
16	recommendations, we might as well add all the
17	things that we were concerned about.
18	CHAIR MARKOWITZ: Mr. Domina?
19	MEMBER DOMINA: Kirk Domina. When we
20	met with Paragon, they bought up work processes
21	and so they're the ones that brought it up. I
22	think it should be put in there.

(202) 234-4433

www.nealrgross.com

1	CHAIR MARKOWITZ: Okay.
2	MEMBER SPLETT: Yes, I agree.
3	MEMBER BOWMAN: So you put a comma
4	after substances and put work product.
5	MEMBER WHITTEN: So do we want to add
6	facilities too?
7	MEMBER KEY: Yes. Do it all.
8	MEMBER WHITTEN: I mean, that's the
9	majority of the filters that we use, claims
10	examiners use I believe.
11	CHAIR MARKOWITZ: Yes. Okay,
12	additional comments, suggestions? Okay, then
13	let's take a vote. I'm going to quickly read
14	this just so in case anybody's on the phone and
15	can't see it.
16	The Board recommends that Department
17	of Labor direct their contractor currently PTS
18	to prospectively and retrospectively provide
19	notation of any changes to toxic substances
20	labor categories, facilities and work processes
21	that are slash were altered in the SEM with
22	documentation of the rationale for the change

1	in the SEM. Okay? All right. Take a vote.
2	MR. JANSEN: I'll record the vote.
3	Dr. Bowman?
4	MEMBER BOWMAN: Yes.
5	MR. JANSEN: Mr. Catlin?
6	MEMBER CATLIN: Yes.
7	MR. JANSEN: Dr. Cloeren?
8	MEMBER CLOEREN: Yes.
9	MR. JANSEN: Dr. Friedman-Jimenez?
10	MEMBER FRIEDMAN-JIMENEZ: Yes.
11	MR. JANSEN: Dr. Markowitz?
12	CHAIR MARKOWITZ: Yes.
13	MR. JANSEN: Dr. Mikulski?
14	MEMBER MIKULSKI: Yes.
15	MR. JANSEN: Dr. Vlahovich?
16	MEMBER VLAHOVICH: Yes.
17	MR. JANSEN: Mr. Key?
18	MEMBER KEY: Yes.
19	MR. JANSEN: Ms. Splett?
20	MEMBER SPLETT: Yes.
21	MR. JANSEN: Ms. Whitten?
22	MEMBER WHITTEN: Yes.

1	MR. JANSEN: Mr. Domina?
2	MEMBER DOMINA: Yes.
3	MR. JANSEN: There are 11 yes votes
4	and zero no votes.
5	CHAIR MARKOWITZ: Okay, we're going
6	to take a seven-minute break because we're a
7	half hour late for our break. So well, it's
8	10:15 a.m. Let's come back here a little bit
9	after 10:20 a.m.
10	(Whereupon, the above-entitled matter
11	went off the record at 10:15 a.m. and resumed
12	at 10:24 a.m.)
13	CHAIR MARKOWITZ: Okay, so let's go
14	back to where we were looking at. We're
15	missing Mr. Key. He knows we're and who else?
16	I think that's it. And Dr. Cloeren, you're
17	there?
18	MEMBER CLOEREN: I am.
19	CHAIR MARKOWITZ: Okay, great. Okay.
20	So let's go back because I think there was a
21	third recommendation in that set and by the
22	way, by way of warning, we'll move on to the

www.nealrgross.com

industrial hygiene recommendation is next. 1 2 Okay, so the third, let me read it. 3 The Board requests that DOL continue the inmeetings with the 4 person PTS or current contractor for the SEM with members 5 of the Board's SEM subcommittee on our routine basis 6 7 person up to three and in times а year to discuss ongoing improvements of the SEM. 8 The floor is open for discussion. 9 10 WHITTEN: This is Dianne MEMBER Can we change it from 11 Whitten. request to 12 recommend please, Kevin? Thank you. 13 (Off-microphone comment.) CHAIR MARKOWITZ: Oh, I'm sorry. 14 MEMBER DOMINA: Kirk Domina. 15 When we 16 met with Paragon at the end of March there in 17 Columbus, it was very, it was а verv aood 18 meeting. 19 It was very helpful for both sides 20 and I think that we can quicker take care of claimant 21 of these problems that the some 22 community sees because this is the, one of

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1 about the major tool that they have to work 2 with when they get something back requesting 3 more information or whatever. But some of these problems have been 4 5 fundamentally wrong for a long time, and you know, like some of the two prior ones, part of 6 the reason is, I mean, and if you go back and 7 look at some of the meeting minutes from '17 8 9 and '18, when I talked about Ms. Whitten's job 10 category, not even being listed where anybody knows that Radcon is first in, last out for 75 11 12 plus years at that point in time. 13 And then all of a sudden the job in 14 category shows up there with over 2,100 mean there's 15 chemicals. Т some fundamental stuff that 16 and then the reactor stuff for 17 Hanford is not the experimental ones. It was all the production reactors 18 19 and anybody knows anything about history and so 20 that stuff not getting changed until late in 21 the ballgame for lack of a better term, is the 22 reason that we want to meet with them up to

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 three times a year because it's helpful for 2 both sides. 3 They see issues that they want us to 4 help them with and we see issues that we need their help with. 5 Yes, Ms. Splett? 6 CHAIR MARKOWITZ: 7 First, kudos MEMBER SPLETT: to Paragon and DOL. It was very positive 8 а 9 meeting. A lot of things that we had issues 10 with at least we then understood the basis of 11 those. I think it was a really meaningful 12 13 exchange and hopefully can be continued. CHAIR MARKOWITZ: Steve Markowitz. 14 You know, I having been on the Board for eight 15 16 years, this -- my view is this has been the 17 most productive period of discussion about the SEM that we've ever had. 18 19 And I think in part is the, the visit 20 you all made to PTS in Ohio and I'd point out 21 that, you know, in the charter or the described tasks set out for the Board, the number one is 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 the SEM. 2 It is looking at helping in the SEM 3 because that's always been a focus of interest by the public and a source of questions and 4 even dissatisfaction 5 sometimes SO Ι think there's momentum here. 6 7 And I think it's good and we should 8 continue it. Now three times a year visiting Hilliard, Ohio --9 10 MEMBER SPLETT: And I do think the mix of the people who went was I think Dr. 11 12 Cloeren's input was really, really valuable. I 13 think having a mix of members of the Board was really valuable as well. 14 Are you suggesting 15 CHAIR MARKOWITZ: 16 amend the language to that we include a 17 requirement that Cloeren all Dr. attend 18 meetings? 19 MEMBER SPLETT: I am totally there. 20 CHAIR MARKOWITZ: Only kidding, only 21 kidding, Dr. Cloeren. Okay. MEMBER CLOEREN: I vote no. 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

www.nealrgross.com

1	CHAIR MARKOWITZ: Any further
2	discussion, comments specifically on the
3	language here? Which is pretty clear I would
4	say. Okay, then I think we're ready for a
5	vote.
6	MR. JANSEN: I'll record the vote.
7	Dr. Bowman?
8	MEMBER BOWMAN: Yes.
9	MR. JANSEN: Mr. Catlin?
10	MEMBER CATLIN: Yes.
11	MR. JANSEN: Dr. Cloeren?
12	MEMBER CLOEREN: Yes.
13	MR. JANSEN: Dr. Friedman-Jimenez?
14	MEMBER FRIEDMAN-JIMENEZ: Yes.
15	MR. JANSEN: Dr. Markowitz?
16	CHAIR MARKOWITZ: Yes.
17	MR. JANSEN: Dr. Mikulski?
18	MEMBER MIKULSKI: Yes.
19	MR. JANSEN: Dr. Vlahovich?
20	MEMBER VLAHOVICH: Yes.
21	MR. JANSEN: Mr. Key?
22	MEMBER KEY: Yes.

1	MR. JANSEN: Ms. Splett?
2	MEMBER SPLETT: Yes.
3	MR. JANSEN: Ms. Whitten?
4	MEMBER WHITTEN: Yes.
5	MR. JANSEN: Mr. Domina?
6	MEMBER DOMINA: Yes.
7	MR. JANSEN: There are 11 yes votes
8	and zero no votes.
9	CHAIR MARKOWITZ: You know, it's
10	shocking how little conflict there is among the
11	Board members. And I think actually when we
12	resolve the differences in discussion sometimes
13	offline, but in any case, let's move on to the
14	industrial hygiene subcommittee.
15	I think there's some, oh, yes, so no,
16	we don't review the rationale here. That takes
17	way too long. That rationale is drafted
18	usually by the people who write up the
19	recommendation and it could be sent, it's sent
20	around to Board members to amend.
21	But we do that after the meeting.
22	Okay, so Kevin, you have that, you have those.

(202) 234-4433

www.nealrgross.com

1	MEMBER VLAHOVICH: Right.
2	CHAIR MARKOWITZ: Right? Yes.
3	MEMBER CLOEREN: Do you want me to
4	take this?
5	CHAIR MARKOWITZ: I'm sorry, what's
6	that Dr. Cloeren?
7	MEMBER CLOEREN: Do you want me to
8	take this?
9	CHAIR MARKOWITZ: Sure.
10	MEMBER CLOEREN: So our first
11	recommendation is in reference to previous ones
12	directly related to the April 5th response to
13	the Board.
14	We request that the program
15	facilitate a conversation between a subset of
16	the next Board and program industrial
17	hygienists to gain more insight into IH
18	processes.
19	And the Board would come to an
20	agreement on the framework for this
21	conversation ahead of time. The framework
22	would include follow up on the responses in

www.nealrgross.com

between, you know, from the Department of Labor 1 2 on April 5th and March 21st. 3 And then SO basically the 4 recommendation is that we meet with the 5 Department of Industrial Hygienists to help subsequent conversation that 6 frame а would 7 include at least two of the contract IHs. So the proposal is for collaborative 8 9 conversation to map out the framework for a 10 subsequent conversation with the contract industrial hygienist. 11 12 I'm not sure that we need to qo 13 through the rationale or the details right now do we Dr. Markowitz or --14 15 CHATR MARKOWITZ: No, Steve 16 Markowitz, no we don't need to. A question for 17 Mr. this something that Jansen. Is а recommendation that the Board has to vote on or 18 19 is this, because this is in follow up of a 20 prior recommendation. Right? And does this kind of fall into the 21 22 information request or is it, would it be

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

actually consider 1 better that we it as а 2 recommendation? It seems it might work 3 MR. JANSEN: 4 best as а follow-up recommendation to the response to the original recommendation if that 5 6 makes sense. 7 CHAIR MARKOWITZ: Okay. Sure, sure, 8 Thanks. Okay, the floor is open for okay. discussion. 9 10 The only comment I MEMBER SPLETT: have is on the first line. Instead of 11 we 12 request again, we recommend. 13 CHAIR MARKOWITZ: I'm wondering, Markowitz, in the third line what 14 Steve it 15 means the Board would come to agreement on our 16 framework. It's the agreeing Board with 17 itself? Is that what --I'm not sure that 18 MEMBER CLOEREN: 19 line belongs in there. I mean, the point of 20 the first meeting is to collaborate on 21 developing the framework for the subsequent conversation. 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

So I think that maybe we could say 1 2 that at this meeting the, yes, I don't think 3 that we need to come to the Board. I think it should be the subset of the Board along with 4 5 the Department Industrial Hygienist would come 6 to an agreement on the framework. 7 I think this one doesn't make So It's really the framework, the first 8 sense. 9 meeting is to develop а framework. The 10 subsequent conversation that would include the 11 contract IHs. 12 MEMBER BOWMAN: Sorry, just to 13 clarify, in the memo the Board received dated April 5th, 2024, the Department said that the 14 15 program would facilitate a conversation between 16 the Board and Department IH's, program IHs to 17 seek information regarding certain aspects of 18 the work. 19 And that the Department is willing to 20 consider such a request if implying only if a clear framework for such assessment could be 21 22 agreed upon ahead of time.

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

My reading of that from the memo was 1 2 that they wanted a framework even for the 3 initial meeting --4 MEMBER CLOEREN: That's a good point. 5 MEMBER BOWMAN: -- program IHs. On 6 top of that, we would like to meet right with 7 contract IHs which was not part of the initial statement that we got from the memo. 8 9 Nonetheless, we thought if after we 10 had that conversation with the Department IHs, that perhaps we could arrange for an actual 11 12 meeting with some contract IHs. 13 Right. PARTICIPANT: 14 MEMBER BOWMAN: And so Ι thought potentially that it is --15 16 PARTICIPANT: Yes, that is --17 BOWMAN: MEMBER ___ Ι thought, Ι 18 understood that the Department would like us to 19 have a framework even for that conversation 20 with the Department IHs. 21 MEMBER CLOEREN: Do we need to have 22 that -- okay. So what would be the mechanism

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

actually for developing a framework for 1 the 2 request for meeting to develop a framework for 3 a request. So I guess the Board 4 MEMBER BOWMAN: 5 would come to agreement with DOL on a framework for this conversation ahead of time is the 6 7 implied --MEMBER CLOEREN: 8 The whole court, like us now? 9 10 MEMBER BOWMAN: I don't know. Because the next 11 MEMBER CLOEREN: 12 meeting of the Board is not until November and 13 we want this to happen before then. Right? MEMBER BOWMAN: I don't know if it 14 15 needs the whole Board. The May, sorry, the 16 April 5th memo --17 CHAIR MARKOWITZ: Steve No, Ι ___ It can't be that the entire Board 18 Markowitz. 19 would need to agree on the framework. 20 MEMBER BOWMAN: Right. 21 CHAIR MARKOWITZ: Because this is 22 really a --

> (202) 234-4433 COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

NEAL R. GROSS

1 MEMBER BOWMAN: A subcommittee.	
2 CHAIR MARKOWITZ: wor	rk in
3 progress. Information exchange so	
4 MEMBER BOWMAN: Members of the	Board.
5 CHAIR MARKOWITZ: Yes, the ar	nd the
6 third line where it says the Board we	could
7 say, you know, prior to this conversation	ion, a
8 subset of the Board would develop and sub	bmit a
9 framework for this conversation. Does tha	t
10 MEMBER BOWMAN: Yes.	
11 CHAIR MARKOWITZ: does that	at get
12 the sequence right?	
13 MEMBER BOWMAN: I think so. I	wrote
14 down what you were saying.	
15 CHAIR MARKOWITZ: So where the	cursor
16 prior to this conversation, a subset	
17 MEMBER BOWMAN: Subset of the B	oard.
18 CHAIR MARKOWITZ: of the	Board
19 would develop.	
20 MEMBER BOWMAN: Yes.	
21 CHAIR MARKOWITZ: And submit to	DOL a
22 framework for this conversation.	

NEAL R. GROSS

1	MEMBER BOWMAN: Yes.
2	(Off-microphone comment.)
3	(Simultaneous speaking.)
4	MEMBER CLOEREN: Correct, that works.
5	CHAIR MARKOWITZ: Right. I don't
6	think in this recommendation, you have to state
7	the next thing that the framework would include
8	follow up on the responses. That's
9	MEMBER BOWMAN: Yes, I agree. I
10	think that could be taken out, be included in
11	the justification.
12	CHAIR MARKOWITZ: Yes.
13	MEMBER CLOEREN: Since this is a
14	formal recommendation, is the next line a
15	second one, a second recommendation or is it
16	part of this?
17	CHAIR MARKOWITZ: No, I think
18	Steve Markowitz. You can take out what you
19	just restored, the framework sentence, but and
20	there, Dr. Cloeren, you're recommending that
21	instead of saying we anticipate, we recommend
22	that the next step is that what you

(202) 234-4433

www.nealrgross.com

1 MEMBER CLOEREN: I'm wondering if, 2 let's do this one. I'm wondering if we can 3 wrap it into the sentence before and say, you 4 know, part of this conversation is a subset 5 would develop and submit and a framework for conversation 6 this to include granting а 7 subsequent meeting that includes at least two contract IHs. 8 9 Would that work? I mean, that way 10 we're kind of making clear we really want to talk with the contract IHs. But you know, we 11 12 would not with the Department. 13 CHAIR MARKOWITZ: Okay other comments, suggestions on that language? 14 MEMBER CLOEREN: That work? 15 16 CHAIR MARKOWITZ: Ι would add 17 planning and conducting a subsequent meeting 18 because --19 MEMBER CLOEREN: Okay. 20 CHAIR MARKOWITZ: Okay. 21 MEMBER CLOEREN: In the line above 22 where it says framework for this conversation,

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

www.nealrgross.com

1	could you just put a comma after
2	"conversation?"
3	CHAIR MARKOWITZ: Okay, additional
4	comments, questions? Okay, someone want to
5	read this since we've changed it so much?
6	MEMBER BOWMAN: I can read it.
7	CHAIR MARKOWITZ: Great.
8	MEMBER BOWMAN: I've made notations
9	here which would allow Kevin to confirm and
10	then I can send this to the Board after.
11	Directly related to the April 5, 2024 DOL
12	response to ABTSWH we recommend that the
13	program facilitate a conversation between a
14	subset of the next Board and DEEOIC industrial
15	hygienists, IH, to gain insight into IH
16	processes.
17	Prior to this conversation, a subset
18	of the Board would develop and submit to DOL a
19	framework for this conversation to include
20	planning and conducting a subsequent meeting
21	that includes at least two contract IHs.
22	CHAIR MARKOWITZ: Okay, a vote?

(202) 234-4433

www.nealrgross.com

1	MR. JANSEN: I'll record the vote.
2	Dr. Bowman?
3	MEMBER BOWMAN: Yes.
4	MR. JANSEN: Mr. Catlin?
5	MEMBER CATLIN: Yes.
6	MR. JANSEN: Dr. Cloeren?
7	MEMBER CLOEREN: Yes.
8	MR. JANSEN: Was that a yes, Dr.
9	Cloeren?
10	MEMBER CLOEREN: Yes, it was. Yes,
11	it was a yes.
12	MR. JANSEN: Dr. Friedman-Jimenez?
13	MEMBER FRIEDMAN-JIMENEZ: Yes.
14	MR. JANSEN: Dr. Markowitz?
15	CHAIR MARKOWITZ: Yes.
16	MR. JANSEN: Dr. Mikulski?
17	MEMBER MIKULSKI: Yes.
18	MR. JANSEN: Dr. Vlahovich?
19	MEMBER VLAHOVICH: Yes.
20	MR. JANSEN: Mr. Key?
21	MEMBER KEY: Yes.
22	MR. JANSEN: Ms. Splett?

1	MEMBER SPLETT: Yes.
2	MR. JANSEN: Ms. Whitten?
3	MEMBER WHITTEN: Yes.
4	MR. JANSEN: Mr. Domina?
5	MEMBER DOMINA: Yes.
6	MR. JANSEN: There are 11 yes votes
7	and zero no votes.
8	CHAIR MARKOWITZ: Just for my
9	information, how many recommendations do we,
10	how many more recommendations do we have from
11	IH? Just
12	(Off-microphone comment.)
13	CHAIR MARKOWITZ: Five?
14	MEMBER BOWMAN: This is, there are
15	five total, we've just voted on the first.
16	CHAIR MARKOWITZ: Okay, good. Okay,
17	let's go to the next.
18	MEMBER CLOEREN: So this second one
19	is in follow up to the March 21st, '24 response
20	memo about agreeing with modifying the IH
21	reports to really communicate what was found in
22	the different sources of case disclosure data.

(202) 234-4433

www.nealrgross.com

So the request is that the program 1 2 provide an update on the status and timeline of 3 their efforts to work with the contractor to has basically 4 develop feasible changes that 5 reported from the response memo. This is 6 pretty straight forward. 7 CHAIR MARKOWITZ: Steve Markowitz. Is, does this constitute an information request 8 9 or do we, is it better that we consider this as 10 a recommendation? I'm reading it. 11 MR. JANSEN: This 12 seems more like an information request to me, 13 Dr. Markowitz. CHAIR MARKOWITZ: Yes. So that means 14 15 that if it's coming from the working group that 16 we can, you know, write it up and pass it on. 17 mean, are there any comments or objections Ι 18 from the Board? 19 Okav. Okay, so let's move on to 20 Recommendation No. 3. The third is that 21 MEMBER CLOEREN: 22 the Board seeks reconsideration of its previous

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

www.nealrgross.com

recommendation 1 to provide the Occupational 2 History Questionnaire along with ΙH report 3 commentary related to the content of the OHQ to 4 any physician asked to address causation in a 5 case along with the accompanying IH reports that would address the validity. 6 7 Actually, we probably don't need that parenthetical up above since state 8 we that 9 along with accompanying IH report that would address the validity of the information thereby 10 11 mitigating the concerns noted by the, actually 12 the program for providing OHQ expressed in the 13 March 21st response memo. Ι 14 think you remove that can 15 parenthesis because we've had pause about that 16 later. 17 I would agree. MEMBER BOWMAN: 18 CHAIR MARKOWITZ: Steve Markowitz. 19 Could you just very briefly, you say mitigating 20 the concerns noted by the program. Just 21 recount what those concerns are very briefly. 22 MEMBER BOWMAN: Yes, in the Board's

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	memo, sorry, in the Department's memo they
2	I'll pull it up right here. There was concerns
3	about providing unvalidated OHQ information to
4	a physician would invite the physician to rely
5	on unproven or inaccurate exposure data to
6	inform their opinion.
7	We discussed this as a Board
8	yesterday. This recommendation reflects that
9	discussion.
10	CHAIR MARKOWITZ: I see. Okay.
11	Comments, questions, recommended changes in
12	language here?
13	Okay, so let's take a vote. Can we
14	have one last reading out loud of the
15	recommendation?
16	MEMBER BOWMAN: I could do that.
17	This is what I have. The ABTSWH seeks
18	reconsideration of its previous recommendation
19	to provide the Occupational History
20	Questionnaire, OHQ, to any physician asked to
21	address causation in a case along with the
22	accompanying IH reports that would address the

1	validity of OHQ information thereby mitigating
2	the concerns noted by program for providing the
3	OHQ expressed in the March 21, 2024 response
4	memo.
5	MEMBER CLOEREN: Could we add the
6	word "the" before "program" in the fourth line?
7	Thank you.
8	CHAIR MARKOWITZ: Okay. Then let's
9	take a vote.
10	MR. JANSEN: I'll record the vote.
11	Dr. Bowman?
12	MEMBER BOWMAN: Yes.
13	MR. JANSEN: Mr. Catlin?
14	MEMBER CATLIN: Yes.
15	MR. JANSEN: Dr. Cloeren?
16	MEMBER CLOEREN: Yes.
17	MR. JANSEN: Dr. Friedman-Jimenez?
18	MEMBER FRIEDMAN-JIMENEZ: Yes.
19	MR. JANSEN: Dr. Markowitz?
20	CHAIR MARKOWITZ: Yes.
21	MR. JANSEN: Dr. Mikulski?
22	MEMBER MIKULSKI: Yes.

1	MR. JANSEN: Dr. Vlahovich?
2	MEMBER VLAHOVICH: Yes.
3	MR. JANSEN: Mr. Key?
4	MEMBER KEY: Yes.
5	MR. JANSEN: Ms. Splett?
6	MEMBER SPLETT: Yes.
7	MR. JANSEN: Ms. Whitten?
8	MEMBER WHITTEN: Yes.
9	MR. JANSEN: Mr. Domina?
10	MEMBER DOMINA: Yes.
11	MR. JANSEN: There are 11 yes votes
12	and zero no votes.
13	CHAIR MARKOWITZ: Okay, next
14	recommendation.
15	MEMBER CLOEREN: The next one is more
16	of an information requested I think. I don't
17	know if we need to vote on this one. What do
18	you think?
19	CHAIR MARKOWITZ: Well let's clarify
20	what it is first and then we'll ask that
21	question.
22	MEMBER CLOEREN: Okay.

www.nealrgross.com

1	CHAIR MARKOWITZ: So what does it
2	mean to ask for the Board, the Advisory Board
3	on Toxic Substances and Worker's Health
4	requests a report detailing claims decisions
5	accepted or denied in the last two years in
6	cases that were sent for referee opinion. So I
7	just want to know what the
8	MEMBER CLOEREN: What the
9	CHAIR MARKOWITZ: What that report
10	might consist of.
11	MEMBER CLOEREN: I think it would be
12	I don't know how many, a couple of hundred
13	cases and that might have been more than, that
14	might have been over more than two years so it
15	might 130 cases or something along those lines.
16	Of the cases that were sent to the
17	internal QTC referee doctor when there was a
18	difference in opinion, there was enough of a
19	difference of opinion between the treating
20	doctor, or the personal doctor, and the CMC,
21	that the claims examiner needed a tiebreaker.
22	And then they send it to the referee

NEAL R. GROSS

www.nealrgross.com

(202) 234-4433

and had 1 that's also а OTC doctor Т some 2 concerns that there might be bias toward other docs within your own organization because this 3 is a different way to do referees than other 4 5 OWCP approaches. So I thought it was worth looking at 6 7 how often the referee doctor, you know, what I think that the claims one way or the other. 8 9 decision, we're making an assumption here. 10 making an assumption that I'm the claims decision was, would have been based on 11 the referee recommendations. So if we see that 12 13 near 95 percent of them are agreeing with the CMC, then it might be worth actually looking at 14 some of those cases that were referred. 15 16 Because I wouldn't expect 95 percent 17 agreement, you know, when the claims examiner 18 was having a hard time deciding which one had 19 the, you know, the best rationale. 20 CHAIR MARKOWITZ: Steve Markowitz. 21 You mentioned some numbers about a number of 22 referee cases in the last couple of years.

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1 What were those numbers? 2 MEMBER CLOEREN: There was a slide 3 showing that yesterday and I think it was maybe a four- or five-year period. 4 And I thought, there was just recall, but I thought it was 5 about 200 and some went for a referee during 6 7 the time period that we were looking at in the 8 report yesterday. Yes, I have it here. 9 MEMBER BOWMAN: That table was 268 file for referee, review 10 referee of causation. 11 12 MEMBER CLOEREN: And that was in what 13 time period? I think that the years were more 14 _ _ MEMBER BOWMAN: 2020 to 2023 it. 15 16 appears. 17 CHAIR MARKOWITZ: So yes, a four-year 18 time period. So is the request here for a 19 sample of cases? I mean, how many? 20 (Simultaneous speaking.) 21 MEMBER CLOEREN: I have to look --22 CHAIR MARKOWITZ: I mean, it seems

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

like a lot of work that's being, that would be 1 2 involved so. 3 MEMBER CLOEREN: I don't think it would be. I mean I think that, if they could 4 5 produce the table showing how many cases went for referee, I imagine it's easy enough to show 6 7 from those cases that went to referee what was the eventual decision accept or deny? 8 9 CHAIR MARKOWITZ: But I quess it, 10 Markowitz, it depends on what kind of Steve detail that we want them to look at. 11 12 MEMBER CLEOREN: I'm just looking for 13 the eventual decision. I just, could I just get a sense of whether there's a concern for 14 15 the program, you know, organizational bias. 16 CHAIR MARKOWITZ: Oh, I see. So you, 17 the request is simply for what percentage SO 18 were accepted and what percentage were denied? 19 MEMBER CLOEREN: After referee. 20 Correct. 21 CHAIR MARKOWITZ: Ι see. Okav, 22 thanks. Mr. Vance?

1MR. VANCE: And just a point of2clarification for consideration by the Board,3remember the referee opinions as Dr. Bowman4indicated.5You can have referee opinions on6disputes on medical diagnoses, causation,7impairment and medical need for care so just8keep in mind you're going to capture referees9on a lot of different subjects.10MEMBER CLOEREN: Okay. I think11MEMBER BOWMAN: Thank you. That's12important.13MEMBER CLOEREN: for that14clarification I think that's fine because15they're all, all referees reflect a difference16in opinion between the, you know, the personal17doctor and the CMC that the claims examiner18needed some help resolving.19CHAIR MARKOWITZ: But should we amend20the statement though to have these broken down21by the type?22MEMBER CLOEREN: That might be		
3 remember the referee opinions as Dr. Bowman indicated. 5 You can have referee opinions on disputes on medical diagnoses, causation, impairment and medical need for care so just keep in mind you're going to capture referees on a lot of different subjects. 10 MEMBER CLOEREN: Okay. I think 11 MEMBER BOWMAN: Thank you. That's important. 13 MEMBER CLOEREN: for that clarification I think that's fine because they're all, all referees reflect a difference in opinion between the, you know, the personal doctor and the CMC that the claims examiner needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend the statement though to have these broken down by the type?	1	MR. VANCE: And just a point of
 indicated. You can have referee opinions on disputes on medical diagnoses, causation, impairment and medical need for care so just keep in mind you're going to capture referees on a lot of different subjects. MEMBER CLOEREN: Okay. I think MEMBER BOWMAN: Thank you. That's important. MEMBER CLOEREN: for that clarification I think that's fine because they're all, all referees reflect a difference in opinion between the, you know, the personal doctor and the CMC that the claims examiner needed some help resolving. CHAIR MARKOWITZ: But should we amend the statement though to have these broken down by the type? 	2	clarification for consideration by the Board,
5You can have referee opinions on6disputes on medical diagnoses, causation,7impairment and medical need for care so just8keep in mind you're going to capture referees9on a lot of different subjects.10MEMBER CLOEREN: Okay. I think11MEMBER BOWMAN: Thank you. That's12important.13MEMBER CLOEREN: for that14clarification I think that's fine because15they're all, all referees reflect a difference16in opinion between the, you know, the personal17doctor and the CMC that the claims examiner18needed some help resolving.19CHAIR MARKOWITZ: But should we amend20the statement though to have these broken down21by the type?	3	remember the referee opinions as Dr. Bowman
 disputes on medical diagnoses, causation, impairment and medical need for care so just keep in mind you're going to capture referees on a lot of different subjects. MEMBER CLOEREN: Okay. I think MEMBER BOWMAN: Thank you. That's important. MEMBER CLOEREN: for that clarification I think that's fine because they're all, all referees reflect a difference in opinion between the, you know, the personal doctor and the CMC that the claims examiner needed some help resolving. CHAIR MARKOWITZ: But should we amend the statement though to have these broken down by the type? 	4	indicated.
impairment and medical need for care so just keep in mind you're going to capture referees on a lot of different subjects. MEMBER CLOEREN: Okay. I think MEMBER BOWMAN: Thank you. That's important. MEMBER CLOEREN: for that clarification I think that's fine because they're all, all referees reflect a difference in opinion between the, you know, the personal doctor and the CMC that the claims examiner needed some help resolving. CHAIR MARKOWITZ: But should we amend the statement though to have these broken down by the type?	5	You can have referee opinions on
 keep in mind you're going to capture referees on a lot of different subjects. MEMBER CLOEREN: Okay. I think MEMBER BOWMAN: Thank you. That's important. MEMBER CLOEREN: for that clarification I think that's fine because they're all, all referees reflect a difference in opinion between the, you know, the personal doctor and the CMC that the claims examiner needed some help resolving. CHAIR MARKOWITZ: But should we amend the statement though to have these broken down by the type? 	6	disputes on medical diagnoses, causation,
9 on a lot of different subjects. 10 MEMBER CLOEREN: Okay. I think 11 MEMBER BOWMAN: Thank you. That's 12 important. 13 MEMBER CLOEREN: for that 14 clarification I think that's fine because 15 they're all, all referees reflect a difference 16 in opinion between the, you know, the personal 17 doctor and the CMC that the claims examiner 18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	7	impairment and medical need for care so just
10 MEMBER CLOEREN: Okay. I think 11 MEMBER BOWMAN: Thank you. That's 12 important. 13 MEMBER CLOEREN: for that 14 clarification I think that's fine because 15 they're all, all referees reflect a difference 16 in opinion between the, you know, the personal 17 doctor and the CMC that the claims examiner 18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	8	keep in mind you're going to capture referees
11 MEMBER BOWMAN: Thank you. That's 12 important. 13 MEMBER CLOEREN: for that 14 clarification I think that's fine because 15 they're all, all referees reflect a difference 16 in opinion between the, you know, the personal 17 doctor and the CMC that the claims examiner 18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	9	on a lot of different subjects.
12 important. 13 MEMBER CLOEREN: for that 14 clarification I think that's fine because 15 they're all, all referees reflect a difference 16 in opinion between the, you know, the personal 17 doctor and the CMC that the claims examiner 18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	10	MEMBER CLOEREN: Okay. I think
13 MEMBER CLOEREN: for that 14 clarification I think that's fine because 15 they're all, all referees reflect a difference 16 in opinion between the, you know, the personal 17 doctor and the CMC that the claims examiner 18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	11	MEMBER BOWMAN: Thank you. That's
14 clarification I think that's fine because 15 they're all, all referees reflect a difference 16 in opinion between the, you know, the personal 17 doctor and the CMC that the claims examiner 18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	12	important.
15 they're all, all referees reflect a difference 16 in opinion between the, you know, the personal 17 doctor and the CMC that the claims examiner 18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	13	MEMBER CLOEREN: for that
16 in opinion between the, you know, the personal 17 doctor and the CMC that the claims examiner 18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	14	clarification I think that's fine because
17 doctor and the CMC that the claims examiner 18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	15	they're all, all referees reflect a difference
18 needed some help resolving. 19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	16	in opinion between the, you know, the personal
19 CHAIR MARKOWITZ: But should we amend 20 the statement though to have these broken down 21 by the type?	17	doctor and the CMC that the claims examiner
20 the statement though to have these broken down 21 by the type?	18	needed some help resolving.
21 by the type?	19	CHAIR MARKOWITZ: But should we amend
	20	the statement though to have these broken down
22 MEMBER CLOEREN: That might be	21	by the type?
	22	MEMBER CLOEREN: That might be

www.nealrgross.com

helpful. 1 2 (Simultaneous speaking.) MEMBER BOWMAN: For the review. 3 MEMBER CLOEREN: Yes, that might be 4 helpful to --5 6 MEMBER BOWMAN: Yes. 7 MEMBER CLOEREN: -- yes, to include the reason for the --8 So maybe after, at 9 MEMBER BOWMAN: 10 the end of the sentence say broken down by type of --11 MEMBER CLOEREN: Or categorized. 12 13 Categorized by type. MEMBER BOWMAN: Or categorized, thank 14 15 you. Yes. 16 MEMBER CLOEREN: What type of case. 17 Categorized. MEMBER BOWMAN: 18 MEMBER CLOEREN: What type of 19 questions --20 MEMBER BOWMAN: Categorized by type 21 of review. MEMBER CLOEREN: Yes. 22

(202) 234-4433

1	CHAIR MARKOWITZ: So this getting
2	back to, Steve Markowitz, getting back to your
3	original question, this strikes me as more of
4	an information request than a recommendation.
5	Does that conform with
6	MEMBER CLOEREN: I agree. I agree.
7	MR. JANSEN: Yes, I agree. This is
8	an information request.
9	CHAIR MARKOWITZ: Okay. So, you
10	know, so we do need some rationale to go along
11	with it. You know, there's a form, it's easy
12	enough whoever ends up writing this up, but you
13	know, you and I we can communicate about that
14	so.
15	MEMBER CLOEREN: I can do that.
16	CHAIR MARKOWITZ: Yes. Okay, thanks.
17	Okay, let's move on. The Advisory Board talks
18	exceptions to the workers' health requests
19	documentation in support of the assertion that
20	Environmental Health and Safety programs
21	implemented in the mid-1990s greatly reduced
22	the potential for workers to have had

1 significant exposures to toxic substances at 2 DOE facilities.

And that any such work processes events or circumstances leading to significant exposure would likely have been identified and documented in employment records. So the floor is open for discussion.

MEMBER CLOEREN: I would like to 8 include contractors somehow in this because 9 10 programs that were aimed at employees may not have reached contractors and it might be worth 11 sort of looking separately at documentation. 12

13 It may be captured in the idea of workers, you know, both the DOE employees and I don't know whether it's worth contractors.

17 MEMBER BOWMAN: We could, we could 18 add a parenthetical after workers to say either 19 DOE or contractors.

20 MEMBER CLOEREN: I think that would 21 be helpful.

> Steve Markowitz. CHAIR MARKOWITZ:

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

3

4

5

6

7

14

15

16

1 Is your, Dr. Cloeren, was your concern about 2 subcontractors? Or was it --3 MEMBER CLOEREN: Well I quess my, my stance is with construction workers. 4 Right? 5 CHAIR MARKOWITZ: Right. 6 MEMBER CLOEREN: And so they're for 7 the most part contractors. Some of them are 8 subcontractors 9 CHAIR MARKOWITZ: Right. Okay. 10 MEMBER CLOEREN: In any event, a lot think safety plans 11 of times Ι that in are Government institutions and this is based 12 on 13 past work for federal agencies doesn't really reach to contractors on site. 14 Right. 15 CHAIR MARKOWITZ: So we're that contractors include 16 qoinq to assume 17 subcontractors. 18 MEMBER CLOEREN: I would, yes. 19 CHAIR MARKOWITZ: Yes. Okay. 20 MEMBER BOWMAN: Dr Markowitz, are you 21 suggesting that it would be better to 22 explicitly state subcontractors?

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

www.nealrgross.com

1	CHAIR MARKOWITZ: No, no. I think
2	well I mean if there's any confusion, we could
3	include them, yes, that's good. We might as
4	well include them. Comments, questions? Yes,
5	Ms. Splett?
6	MEMBER SPLETT: When I'm reading the
7	bottom that word process events or
8	circumstances leading to exposures would be
9	identified in employment records.
10	Not an expert here, but I've seen a
11	lot of Hanford employment records and there's
12	none of that stuff in the employment records.
13	If you're using the word employment records as
14	in an HR type record.
15	If you're talking about a health and
16	safety record, that's totally different. But
17	using the term employment records causes me
18	some discomfort. Mr. Domina, I see you nodding
19	your head. Do you agree?
20	CHAIR MARKOWITZ: Yes, so what's the
21	broader term that we was appropriate?
22	MEMBER CLOEREN: I think facility

(202) 234-4433

www.nealrgross.com

Would that work? 1 records. 2 MEMBER SPLETT: What was the term? 3 MEMBER CATLIN: Facility. I don't think that would work either. 4 MEMBER SPLETT: 5 No. I think if we just 6 MEMBER CATLIN: 7 remove that last three words and just, we're just looking to that this has been documented 8 9 and we're looking for that information. 10 really was MEMBER SPLETT: Ιt the term "employment" it was kind of like we don't, 11 none of those things would be in an employment 12 13 record at the Hanford site. MEMBER CATLIN: So we don't really 14 15 care where it's at. We just want to see the 16 documentation? 17 MEMBER SPLETT: Got it. 18 MEMBER WHITTEN: This is Dianne 19 What exactly are you looking for Whitten. 20 because I can just see them sending you back a 21 851, 850, saying this is COPV of our 22 documentation that we improved safety and

NEAL R. GROSS

www.nealrgross.com

1	health by issuing this document.
2	Are you looking for sampling data?
3	Monitoring data? Work plans that significantly
4	changed the safety and health itself? Is that
5	what you're looking for?
6	CHAIR MARKOWITZ: I think it's an
7	open question for the Board.
8	MEMBER BOWMAN: I think there
9	(Simultaneous speaking.)
10	MEMBER CLOEREN: I think this is like
11	evidence that there was documentation showing
12	compliance with the policy. Right?
13	MEMBER WHITTEN: Right. I like that
14	wording a lot better.
15	MEMBER SPLETT: I guess my question
16	is if the Board is asking the Department of
17	Labor to show the Department of Energy is
18	compliant, does that make sense?
19	Or maybe it does. I don't know, Mr.
20	Vance. Is Department of Labor monitoring
21	Department of Energy's compliance in health and
22	safety overall?
1	·

www.nealrgross.com

1	MR. VANCE: I'm looking at Steve
2	because I'm going to say, you know, this is a
3	question that the Board needs to resolve.
4	You're making a request for the Department of
5	Labor to provide rationale in support of
6	findings that are industrial hygienists are
7	making in industrial hygiene reports.
8	That would be your question. But,
9	you know, in developing a response the
10	Department of Labor is going to go to whatever
11	sources or information that they think is going
12	to be best suited to answer the question which
13	could be the Department of Energy.
14	CHAIR MARKOWITZ: Steve Markowitz.
15	So I think in the rationale, there could be
16	some further description of what the
17	documentation, what documentation is of
18	interest or what documentation is not of
19	interest.
20	I don't think, for instance, the
21	Board would want reams of industrial hygiene
22	monitoring reports demonstrating that the toxic

1	substance X was well controlled in 2002.
2	So that could be dealt with in the
3	rationale. But it should be, there should be
4	some attempt I think to, if possible, to
5	delineate what kind of documentation this is
6	about.
7	MEMBER BOWMAN: Do we need to specify
8	whose assertion we're talking about or is this
9	talking about DOL assertion or DOE assertion?
10	CHAIR MARKOWITZ: No, my own view,
11	Steve Markowitz, is that no, we don't, I don't
12	think we need to document who owns that
13	assertion.
14	So other comments, questions,
15	recommended word changes? Too many the's,
16	and's or but's.
17	MEMBER WHITTEN: This is Dianne
18	Whitten again. I understand what you're
19	looking for because this term ends up in the IH
20	reports all the time.
21	After the mid-'90s everything was,
22	you know, hunky-dory out there, but you know,
•	·

www.nealrgross.com

1	we know as a fact working at the Tank Farms,
2	that we were still having people exposed up
3	until 2017 until we, you know, called a stop
4	work and put people in SCBAs and had a lawsuit.
5	So I just don't know how to go about
6	asking for the right information.
7	CHAIR MARKOWITZ: So is this an
8	information request or a recommendation?
9	MR. JANSEN: I believe this is also
10	an information request.
11	CHAIR MARKOWITZ: Okay. Okay, yes.
12	Meaning it doesn't require a vote.
13	MR. JANSEN: Yes.
14	CHAIR MARKOWITZ: But someone is
15	going to complete this information request
16	along with the rationale.
17	MR. JANSEN: Yes.
18	CHAIR MARKOWITZ: And who is that?
19	MEMBER CATLIN: Yes, I mean, we're
20	really asking for the praise that's often in
21	the IH report that discusses this timeframe as
22	a shift in safety and health.

(202) 234-4433

www.nealrgross.com

1	So we really want to know what is the
2	Industrial Hygienist relying on when they make
3	that statement in a rationale?
4	CHAIR MARKOWITZ: Right.
5	MEMBER CATLIN: So we don't really
6	need to, we don't really need probably all the
7	detail here about it. We need, we want to
8	understand the rationale for that statement.
9	Are they referring to some, you know,
10	Departmental summary that was provided or just
11	something else or are they simply referring to
12	the fact that, you know, there was a change in
13	policy at that point?
14	And we're assuming that everything
15	happens so.
16	CHAIR MARKOWITZ: All right. Or
17	there, you know, at some point, the Idaho
18	National Lab could have had an evaluation.
19	Right? Of their health and safety program and
20	their record, their performance and what, you
21	know, the actual conditions of their health and
22	safety in 2010.

(202) 234-4433

www.nealrgross.com

1	If that exists and as part of the
2	thinking and finally that would be nice to look
3	at. Okay.
4	MEMBER BOWMAN: In terms of who
5	writes it, I think the IH subcommittee makes
6	sense. I think it would be really helpful to
7	have the initial come from someone who isn't
8	IH.
9	So I would nominate Mark if he was so
10	willing. And I'd be happy to take a look.
11	But, you know,
12	MEMBER CATLIN: Yes, certainly
13	willing to do that and it might be this might
14	be as an information request maybe it follows
15	up after we have the conversation about the
16	industrial hygiene staff.
17	So that might, it might be more clear
18	after that conversation what this should look
19	like.
20	MEMBER BOWMAN: Absolutely.
21	CHAIR MARKOWITZ: Mr. Vance?
22	MR. VANCE: And, Mark, if you're
-	

www.nealrgross.com

the folks leading that 1 going to be one of 2 effort, what I would encourage you to also do 3 is revisit our prior Board meetings where we had discussions about this topic. 4 5 Because there's been а lot of interaction 6 between the Board and 7 recommendations that have been made by the Board that the Department 8 had accepted 9 regarding this entire discussion. So 10 history there is а of this discussion in prior Board meeting notes 11 and 12 transcripts and all that sort of thing. 13 MEMBER CATLIN: That would have been prior to 2020? 14 Yes, I'm not sure exactly 15 MR. VANCE: 16 Ι do know that when, but there was 17 recommendations about this issue and I know 18 that there was a lot of dialogue going back and 19 forth between the Department and the Board in 20 the past so just for information sake. 21 MEMBER CATLIN: Thank you. MEMBER MARKOWITZ: Mr. Domina? 22

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

MEMBER DOMINA: Just to clarify I guess a little bit with what Mr. Vance said too because before that 1995, they were saying 1980s because they were trying to late 1980s use the Tiger Team Reports.

And we show that year after year when they came out to visit the site, nothing was done to validate that so it moved to '90s and then they used 851 which came out in '95 which doesn't arbitrarily get implemented on that day and date.

And one of the issues that we had at Hanford, we had contract changes going on then so the one leaving isn't going to implement anything and the one coming in, excuse me, takes a couple of years to come up to speed.

17 And they also look back at the SEC 18 for Savannah River which also shows that they 19 were fined in the late '90s by DOE for not 20 implementing certain safety requirements and 21 stuff so I mean there's a lot of history there. 22 CHAIR MARKOWITZ: Okay. Ι think

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

1	we're done on that. Is that right? Okay, so
2	we have
3	PARTICIPANT: About 25 minutes or so.
4	CHAIR MARKOWITZ: I'm sorry, 25
5	minutes or so left. I think we need to, you
6	know, plan the future work over the next couple
7	of months and transition to a new Board term.
8	We have three working groups by way
9	of structure and I think we don't need to do
10	this right now, but I think we need to do this
11	soon is re-identify who's in what working
12	group. So that there's some clarity there.
13	Those three groups are the SEM
14	working group, the IH and we're going to
15	combine for the moment a CMC with the IH
16	working group so that CMC issues can be not
17	forgotten about or at least part there even if
18	there's nothing pending.
19	And then we're going to have a, for
20	the lack of a better term, a science working
21	group although we could entertain new titles
22	for that working group, but that's where the

(202) 234-4433

www.nealrgross.com

1	hearing loss analysis would come out of.
2	That's where any future reviews of
3	IARC 2A carcinogens would be handled. And then
4	follow up on the Parkinson's disease/disorders
5	discussion.
6	So are there any other working groups
7	that we've had that we need to just include in
8	the structure? I don't think so at the moment.
9	Okay. You know, we're going to
10	submit these information requests and
11	recommendations, some of this information, some
12	of the decision by the Department of Labor may
13	be available during this Board term and will,
14	you know, just continue that work during this
15	term as we receive them.
16	I would, I want to propose an idea
17	for the beginning of the next term, next Board
18	term, which is that the Board request, consider
19	requesting a number of claims to review.
20	I think that, I can't remember, has
21	this Board term the last two years, have we
22	reviewed claims?

www.nealrgross.com

1	Yes. So it's extremely useful to
2	review claims, a limited number because it
3	really acquaints us with the process. We just
4	relearn what the process is.
5	You know, one of those public
6	comments focused on the performance of I think
7	claims examiners, the performance of the
8	industrial hygienists, there were various
9	observations made.
10	And, you know, frankly, it's hard for
11	us to kind of understand those observations
12	unless we at least look at a limited number of
13	claims and see what those observations might be
14	about.
15	So I would propose that we request a
16	limited number because it's laborious
17	preferably at next, but you know, whatever.
18	Claims, it takes a while to prepare those
19	claims for our department.
20	And that they be ready for the new
21	Board when the new Board becomes official. We
22	should, first let me open the floor to that

(202) 234-4433

1	idea, but then I don't know whether you have
2	time today to discuss what kind of claims we
3	want to look at because we either, a lot of
4	possible claims, but Mr. Domina?
5	MEMBER DOMINA: I guess I'd ask for
6	Mr. Vance. And the reason behind on what type
7	of claims because talking to the folks here at
8	Oak Ridge on what they're seeing going forward
9	is kind of the same thing we see at Hanford.
10	I was and over the last two meetings
11	that Mr. Vance has commented on the claim
12	number going up I was just wondering if you
13	knew what type of claims they were.
14	And then if so, pursue that as asking
15	for those type of claims because we see some in
16	a couple of different categories as the uptick
17	in the claimant population.
18	MR. VANCE: Yes, this is John. What
19	I would say is your, the sky is the limit when
20	it comes to what the Board might want to ask
21	about.
22	We do know that we have seen an

(202) 234-4433

uptick in the number of consequential illness claims being associated with previously

4 We continue to see a pretty strong 5 amount of cases coming from the south, you involving pulmonary disease. 6 know, southwest 7 We're seeing an increased clip of what I would characterize as novel arguments involving 8 9 generally not non-occupational illnesses, 10 conditions like diabetes, arthritis, spinal degenerative disc 11 disease, stenosis, 12 Alzheimer's disease that are being associated 13 with other types of things.

So I mean, really it's a matter of 14 specificity and what it is that you're looking 15 16 you looking for cases that for. Are are 17 limited to treating physician opinions that are 18 driving an approval or cases that are denied 19 based on a CMC referee assessment or other 20 types of characteristics?

So I mean it really is a matter of the Board agreeing to what it is that they

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

(202) 234-4433

21

22

1

2

3

accepted cases.

1	might be interested in seeing and being very
2	specific in the request about what it is that
3	you want to look at.
4	I know that the Board has looked at,
5	if I recall correctly, a lot of pulmonary
6	disease claims. I think that we've facilitated
7	those types of claims in the past.
8	So I just want to be thinking about
9	other types of categorizations of disease that
10	might be out there. It really is a matter of
11	just what does the Board agree that they want
12	to look at really more than anything else.
13	MEMBER BOWMAN: In terms of types of
14	cases, I thought it was
15	CHAIR MARKOWITZ: This is Dr. Bowman
16	speaking.
17	MEMBER BOWMAN: Sorry, this is Dr.
18	Bowman. I thought cases that are now utilizing
19	the new IH template would be helpful to include
20	and then the conversation with the IHs and when
21	we hear back on the information request about
22	the updates on the communication, but that

(202) 234-4433

www.nealrgross.com

would take some time. I think the new template
has been in force for, what maybe nine months
or something now?
CHAIR MARKOWITZ: Steve Markowitz. I
think it would be most profitable to see cases
that included IH and CMC reports, although
there could be some cases that just have IH
reports without the CMC, but one or both would
be most interesting.
I think denials, cases that are
denied kind of are of most interest to us. I'm
not all that keen about impairment cases I have
to say. It's a very specialized Dr.
Cloeren, you're agreeing?
MEMBER CLOEREN: Yeah, and I think
there's sort of standard protocol that you
follow for impairment ratings and I think a lot
of time difference of opinion is just based on
how you do the exam. I don't really get much
out of that.
CHAIR MARKOWITZ: Yeah.

1	MEMBER CLOEREN: I was wondering
2	though, what do you think about looking at
3	hearing loss denials, where they fell outside
4	the really strict statute? Would that be
5	worthwhile to see what sort of claims people
6	are, you know, what kind of exposure claims
7	people are presenting when they submit claims
8	for hearing loss?
9	CHAIR MARKOWITZ: I'm sorry, I was
10	writing something. Were you asking a question
11	or making a comment?
12	MEMBER CLOEREN: I was changing the
13	topic
14	(Laughter.)
15	MEMBER CLOEREN: to a suggestion.
16	I don't know if it would make sense to look at
17	denied claims for hearing loss to see what the
18	exposure circumstances are that are being
19	described. Right now, the criteria for
20	accepting it are very, very narrow and very
21	strict. Would it be worthwhile to see a range
22	of cases where people are making claims for

(202) 234-4433

www.nealrgross.com

hearing loss and what they're reporting for exposure.

1

2

3 CHAIR MARKOWITZ: So, we're not SO interested in impairment cases. 4 The diagnosis 5 clarification CMC reports, Ι think, are probably of less interest to the Board. 6 How 7 consequential condition about cases? Ιt of different 8 involves а ton Т ___ mean presumably the underlying condition has already 9 10 been accepted and so the question is, are the symptoms or condition, do they relate 11 new to 12 the prior accepted condition? Do we want to 13 look at those cases? There's a silent negative on the left. 14 15 (Laughter.) 16 CHAIR MARKOWITZ: Dr. Bowman?

MEMBER BOWMAN: I think the last time we had a set of cases to review, I think there were some of those in there and I don't think -I'm not sure that anything came out from that, anything informative that changed the direction of the Board.

NEAL R. GROSS

COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

(202) 234-4433

1	I would, since we're getting data,
2	very simple data, on the review referees, maybe
3	some cases that are the review referee on
4	causation
5	MEMBER CLOEREN: That's a good idea.
6	MEMBER BOWMAN: Could be helpful.
7	There's 268 from the prior four years. There
8	might be some going forward if they could also
9	be the ones using the new IH template that
10	could sort of be two birds, one stone
11	situation.
12	CHAIR MARKOWITZ: Steve Markowitz.
13	I'll write up some of these things and send it
14	around to the Board and people can weigh in,
15	try to narrow it down as much as possible. We
16	would need, we're talking relatively recent
17	cases for which there have been decisions,
18	denied cases. Causation including referee
19	causation cases. Ones have used the new IH
20	template which is synonymous with recent cases
21	and including hearing loss, so far. Any other
22	aspect of interest to people? How many cases

1	do you want to look at? How many claims do you
2	want to look at, board members, individually,
3	because that helps. We usually have claims
4	looked at by two people in our discussion.
5	While you're thinking about that, let me ask,
6	Mr. Vance, is it possible these days to receive
7	claims in which there's some sort of index in
8	which we can find the FAB report, it's on page
9	76 or something comparable to that?
10	MR. VANCE: Yeah, unfortunately, the
11	way that we have processed those in the past
12	would be the way that we would process them in
13	the future, so there's no indexing for the
14	material. The way we have to go through the
15	process is basically I have administrative
16	staff who will go into the electronic imaging
17	system and download the material. It'll come
18	out in whatever order it's presented in that
19	system and it does not reflect any kind of
20	indexing. As part of the specificity of your
21	request, you would want to be thinking about
22	more recent cases or cases that don't have a

(202) 234-4433

www.nealrgross.com

20-year history or whatever. I mean the more
specificity and flags or identifiers that you
want us to apply, those are all things that
you'll need to consider.
CHAIR MARKOWITZ: Dr. Friedman-
Jimenez.
MEMBER FRIEDMAN-JIMENEZ: Yeah, I've
reviewed a number of claims that have been over
1,000 pages and most of those pages are typed.
Some of them are handwritten, but most of them
are typed. I've made this proposal before and
I'll make it again, could the typed pages be
run through an optical character recognition
program, so that it makes into a character-
based text that can then be searched so that
the reviewer can search for specific terms and
find what they're looking for instead of having
to browse through 100 or 200 pages to find

It's very time consuming, not only

I think that would work and it was

exactly there's

why

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

for us, but for the CMCs and everyone else.

me

(202) 234-4433

never

something.

clear

to

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

www.nealrgross.com

а

using optical 1 resistance to character 2 recognition for these medical records. 3 CHAIR MARKOWITZ: Any other comments on claims review? 4 Okay. You'll be hearing from me soon with a draft of what we would 5 request. I'm sorry, I actually never got an 6 7 answer to how many claims you want to look at. There's one proposal, anonymous proposal, 8 for 9 five claims. That's per person, per board 10 There some anonymous quiet discussion member? going on among the Board. Dr. Cloeren. 11 MEMBER CLOEREN: I think that's a 12 reasonable number. 13 CHAIR MARKOWITZ: Whatever we did 14 15 last time, yeah. 16 MEMBER CATLIN: I second that. 17 CHAIR MARKOWITZ: What's that? You 18 second that? (Laughter.) 19 20 CHAIR MARKOWITZ: Okay. I probably have that somewhere. 21

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1	MEMBER CATLIN: You've destroyed the
2	CDs, so you'll have to look at the
3	(Simultaneous speaking.)
4	CHAIR MARKOWITZ: No, no, but I have
5	a tracking system for assigning the cases.
6	Thinking through the time table, the next board
7	meeting would be in the fall, usually late
8	October/early November, so those claims would
9	be needed by early September. If we get the
10	request in soon, does that seem reasonable, Ms.
11	Rhoads, Mr. Vance? Okay. Great, thank you.
12	We're approaching the end of the
13	meeting. Any other issues that we haven't
14	picked up on? Ms. Splett.
15	MEMBER SPLETT: Just a quick one, I
16	think it would be beneficial for the next board
17	meeting, depending on where it is, if the DOE
18	folks who are preparing that tour understand
19	more that this is a Part E board and not a Part
20	B board, and find out the number of claims
21	under Part E and what facilities and what kind
22	of illnesses. It doesn't have to be absolutely

(202) 234-4433

www.nealrgross.com

accurate, but we know that X, Y, Z Building is 1 2 where the majority of the Part E claims are 3 coming from. Maybe even, I think it would have meeting, 4 been useful before this before the 5 tour, some explanation of the Oak Ridge 6 structure, which was something Ι didn't 7 understand at all, how each one were stand alone facilities from the Department of Energy. 8 9 I just think make the tour a little bit more 10 meaningful. 11 CHAIR MARKOWITZ: Yeah, SO if we 12 could put that on the to-do list. Just by way 13 of history, Greq Lewis usually arranges these requests them and then he 14 tours or he loses 15 control over what the site actually provides. 16 probably communicates Т think he what the 17 Board's about and then the site does whatever 18 the site is going to do, but I think we can 19 remind and emphasize this. 20 MEMBER SPLETT: I was asked to put 21 the tour for this Board for Hanford and I did

so without any knowledge of what you all were

NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200

WASHINGTON, D.C. 20009-4309

22

(202) 234-4433

www.nealrgross.com

looking for, we just showed you all the really 1 2 cool stuff. 3 CHAIR MARKOWITZ: Yeah, well that was So, thank you. 4 a great tour. 5 MEMBER SPLETT: Thank you. 6 CHAIR MARKOWITZ: Okay, no other 7 Let me reiterate thank yous to Kevin comments. and his crew for supporting this meeting; Mr. 8 9 Vance, Mr. Novack for appearing and being on 10 the hot seat to give us answers and to clarify Jerison, for hanging 11 certain things; Ms. in there as our faithful public; Dr. Cloeren, for 12 13 attending remotely; and, also I want to thank the Board members for this work over the last 14 15 couple of years and for some board members 16 before that. 17 This is excellent program, an 18 EEOICPA, the program related to EEOICPA, and it 19 helps a lot of people in many, many ways. It's 20 the most comprehensive worker compensation 21

program that exists in the US. Any set of workers across an industry and our mission and

> NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1716 14TH ST., N.W., STE 200 WASHINGTON, D.C. 20009-4309

1	our goal in the Advisory Board is to help
2	improve that system. We've provided advise,
3	which hopefully targets that, whether our
4	recommendations are always accepted or not, we
5	do our best to improve that system. I want to
6	express my gratitude in working with the Board
7	members over the last couple of years. Thank
8	you. I think I can close the meeting.
9	MEMBER CATLIN: Steven?
10	CHAIR MARKOWITZ: Yes.
11	MEMBER CATLIN: I think on behalf of
12	our Board, I think we want to thank you for
13	your work as Chair in the past two years and
14	before that, so I think you've done just an
15	excellent job and thank you.
16	CHAIR MARKOWITZ: Thanks. I think
17	we're done.
18	(Whereupon, the above-entitled matter
19	went off the record at 11:22 a.m.)
20	
21	
22	