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convenes the

THIRTY-SEVENTH MEETING

ADVISORY BOARD ON

RADIATION AND WORKER HEALTH

VOL. III

DAY THREE

ABRWH BOARD MEETING

The verbatim transcript of the Meeting of the Advisory Board on Radiation and Worker Health held at the Four Points by Sheraton, Denver, Colorado, on April 27, 2006.

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TRANSCRIPT LEGEND

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-- (sic) denotes an incorrect usage or pronunciation of a word which is transcribed in its original form as reported.

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-- "*" denotes a spelling based on phonetics, without reference available.

-- / signifies speaker failure, usually failure to use a microphone.

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PROCEEDINGS

(8:35 a.m.)

WELCOME AND OPENING COMMENTS DR. PAUL ZIEMER, CHAIR

1 DR. ZIEMER: Take your seats and we will get under 2 way. As we continue the 37th meeting of the 3 Advisory Board on Radiation and Worker Health I 4 start with my usual reminder for Board members, 5 federal staff people, observers and members of 6 the public, please register your attendance 7 with us. If you haven't already done so, you 8 can do so later this morning. In the entryway 9 are the registration booklets. 10 I also point out that there are copies of the 11 agenda and a lot of related materials on the 12 table in the back. Some of those are materials 13 from portions of the meeting that have already 14 been covered, and some that will be covered 15 today, so please avail yourselves of those as 16 you may feel necessary. 17 ROCKY FLATS SEC 18 We're going to concentrate a good part of our 19 session this morning on the Rocky Flats Special 20 Exposure Cohort petition. And before we have

1	our first formal presentation I want to take
2	this opportunity to see if any of the
3	Congressional delegates or any of the staffers
4	are here this morning from any of the Colorado
5	yes, okay. If you would, please come to the
6	mike and identify yourselves. And actually we
7	do want to give you an opportunity, if you have
8	any formal statements to make to the assembly,
9	you can do that or you can wait till later if
10	you prefer.
11	MS. MINKS: Sure. My name is Erin Minks. I'm
12	from Senator Salazar's office. My coworker
13	David Hiller will be here shortly. I would say
14	right now we'll wait until the conclusion and
15	then we'll
16	DR. ZIEMER: And Mr. Hiller did present a
17	formal made a formal statement to the
18	assembly yesterday and that is on the record
19	already.
20	MS. MINKS: And we would likely repeat that so
21	we can
22	DR. ZIEMER: Uh-huh.
23	MS. MINKS: Thank you.
24	DR. ZIEMER: You could if you wish. It's not
25	necessary from the Board's point of view, but

1	it's entirely your call there.
2	Yes.
3	MS. ALBERG: Good morning. My name is Jeanette
4	Alberg. I'm with U.S. Senator Wayne Allard's
5	office. We made a statement last night during
6	the
7	DR. ZIEMER: Right.
8	MS. ALBERG: public comment period which was
9	read into the record. I do have press releases
10	on that statement, as well as a couple of
11	copies of the statements, but the press release
12	is on the back table. If you'd actually like a
13	letter, please see me.
14	DR. ZIEMER: Do you have enough copies that the
15	Board members could have a copy?
16	MS. ALBERG: I think I gave them to you guys
17	last night.
18	DR. ZIEMER: Oh, that's the one you had last
19	night.
20	MS. ALBERG: Yeah.
21	DR. ZIEMER: Okay, very good. Okay, thank you
22	very much.
23	Then we will proceed and before the actual
24	presentation of the SEC evaluation we're going
25	to hear from Joe Fitzgerald, the representative

1	of SC&A. Joe, before you begin, I need to
2	catch my breath a minute.
3	I neglected to ask our distinguished Federal
4	Official, Dr. Wade
5	DR. WADE: Thank you.
6	DR. ZIEMER: to make his opening comments.
7	DR. WADE: More distinguished every day, as it
8	turns out.
9	DR. ZIEMER: Yes, aren't we all.
10	DR. WADE: Only that we do have a Board member
11	who's conflicted on Rocky Flats. That's Brad
12	Clawson. So Brad, while we will miss you, if
13	you would please take a seat in the audience
14	and then we will proceed. We'll welcome you
15	back when we finish our deliberations on Rocky
16	Flats.
17	DR. ZIEMER: Also we do need to double-check on
18	Mr. Presley, who's can't travel because of
19	health today, to see if he's on the line this
20	morning.
21	MR. PRESLEY: Good morning, Paul.
22	DR. ZIEMER: Have we had him call in?
23	MR. PRESLEY: Can y'all hear me?
24	DR. ZIEMER: Not that we're aware. And
25	MR. PRESLEY: Paul?

1 DR. ZIEMER: -- Dr. Lockey, also, who was ill 2 and couldn't travel but may be on the line. 3 Are either of you there this morning? 4 MR. PRESLEY: Hey, Paul, can you hear me? 5 DR. WADE: Supposed to be. MR. PRESLEY: 6 Hello? 7 DR. WADE: We're hearing --8 DR. ZIEMER: Okay, here's -- here's -- I hear a 9 distant echo. 10 DR. WADE: Get the volume up as... 11 DR. ZIEMER: Talk real loud and -- is that you, 12 Robert? 13 MR. PRESLEY: It's Robert. I'm yelling. 14 DR. ZIEMER: Well, it sounds like you're way 15 off in a cave there, up on a mountaintop in 16 Tennessee, but can you hear us? 17 MR. PRESLEY: I can hear you all wonderfully. 18 DR. ZIEMER: I couldn't hear your response. 19 MR. PRESLEY: I can hear you all wonderfully. DR. ZIEMER: Okay, very good. We can't hear 20 21 you very wonderfully, but we'll proceed. 22 MR. PRESLEY: Okay. 23 SC&A PRESENTATION 24 DR. ZIEMER: Okay, thank you. So Joe 25 Fitzgerald, representing SC&A, then will give

1 us the report from SC&A on their evaluation of 2 the Special Exposure Cohort review -- or their 3 review of the Special Cohort Evaluation. One 4 of those. It's too early, Joe. Thanks. 5 MR. FITZGERALD: Thank you, Dr. Ziemer. Good morning, members of the Board, Congressional 6 7 staff, NIOSH team and the -- certainly the 8 audience. What I want to do is just give you a 9 -- you're going to have a lot of different 10 talks this morning on Rocky, but to give you 11 our perspective on the -- a little higher? 12 DR. ZIEMER: Move it a little higher. MR. FITZGERALD: Okay, let's do this -- is that 13 14 better? Is that better? 15 MS. MUNN: Yeah. 16 MR. FITZGERALD: Okay, good. -- give you an 17 update on the evaluation -- independent 18 evaluation that we're doing as part of the SC&A 19 audit role on behalf of the Board. And I want 20 to -- take this down a little bit -- I want to 21 sort of give you a little background as far as 22 how we approach this. 23 (Pause) 24 Okay. First off, I think there's been much 25 said about the intensity of the process, but I

1 just want to give you a real quick look at the 2 number of meetings and interchanges that we've 3 had on Rocky Flats since the site profile was 4 issued in December and since we came up with 5 the issue resolution matrix, which was right after New Year's. So it's been a fast-paced 6 process over the last several months in order 7 8 to be able to I think evaluate what's been done 9 by the NIOSH team and to come up with some 10 recommendations and feedback to the -- to the 11 Advisory Board. 12 I think you heard much about Y-12 being sort of 13 a model for how we're doing the SEC reviews 14 from our standpoint. This was likewise a bit 15 of a prototype in the sense that it's a focused 16 review. We had a site profile. We did come up 17 with issues related to the site profile. But 18 we launched right into a SEC evaluation 19 process, and in that process we focused on the 20 issues that were critical to the SEC. And in 21 particular we wanted to highlight those issues 22 that were in fact raised by the petitioners 23 that focus on establishing what some of the 24 concerns would be from the standpoint of 25 technical data and corroboration, and to

attempt over the last several months to converge in a working group environment on an 3 understanding of what the issues seem to be and whether or not we agree with the NIOSH evaluation. I might add there was no evaluation during this 6 7 process. What we were looking at were the 8 documents, the records and the analyses as they 9 This was a real-time review. A were emerging. 10 lot of the guidelines, a lot of the Technical Information Bulletins, were being generated and 12 finalized during the same time frame that this exchange was going on. So a lot of the issues 13 14 that we had initially were issues that were 15 responded to by these documents as they were 16 generated by NIOSH, and so it gives you some 17 sense of the process and why we had so many 18 interchanges. As these documents were provided 19 us, we would then have comments and then we 20 would have the interchanges and provide guidance back to the workgroup. The workgroup 22 I think was a very effective mechanism, and I 23 think it moved and propelled the process

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forward.

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I'm going to go right into our key issues, and

1 you'll hear more about these issues from NIOSH 2 and from the working group. But from our 3 standpoint, we had four principal issues. The 4 first issue -- the first issue had to do with 5 the sensitivity of bioassay methods to detect highly insoluble super S -- or I think someone 6 7 was calling it super Y, it's also the high-8 fired issue, so it goes by many names. But 9 it's the question of whether or not you can 10 detect the highly insoluble form of plutonium, 11 and certainly at Rocky Flats that was -- that's 12 an issue, the petitioners have cited the issue. 13 And we're looking beyond the question of 14 detecting lung burdens in the lung, but also 15 looking at the relevancy of detectability in 16 the respiratory and GI and systemic organs. 17 We had two independent reviews of this. Now I heard Bob Bistline's name mentioned by some of 18 19 the petitioners. Bob Bistline is on our team. 20 He certainly is a site expert, as well as a 21 subject matter expert on the subject of high-22 fired plutonium. And certainly we are going to 23 rely on his expertise as a subject expert, but 24 we also have Joyce Lipsztein, who is right 25 here, who I'm going to ask to come up in a few

1 minutes, who has a wealth of information and 2 knowledge and has been involved heavily with a 3 number of ICRP task groups looking at this 4 subject and other subjects. So I think we 5 benefit from a considerable amount of 6 expertise, both on the NIOSH team as well as on our group, on this particular subject. So I 7 8 think the petitioners can be assured that for 9 the subject of high-fired plutonium, the super 10 S issue, we're certainly going to have a fairly 11 comprehensive and detailed analysis and 12 hopefully a answer on the questions by the next 13 Board meeting. 14 Now before I go beyond this, I do want to have 15 -- for the benefit of the Board, have Joyce 16 Lipsztein come up and give you a little bit 17 more of a flavor for what I think is a lot of 18 analysis and work that's been going on 19 independently within the SC&A team on this 20 question, and perhaps not giving you a final 21 answer, but giving you the process by which we 22 examined this issue and where we're going to go 23 with it. Joyce. DR. LIPSZTEIN: Good morning, members of the 24 25 Board. Good morning, members of the public and

1	fellow
2	We have reviewed the NIOSH proposed method to
3	evaluate the lung dose, systemic organ dose, ET
4	and GI tract organ doses due to the inhalation
5	of high-fired so-called high-fired plutonium
6	oxides, also called super S because of its long
7	retention in the lung.
8	The ICRP has not provided us at present with
9	absorption parameters from the lung that should
10	be used in case of inhalation of this very
11	insoluble plutonium oxides. There will be no
12	draft parameters from the ICRP before the end
13	of this years (sic), and probably before the
14	end of next year, so we recognize that NIOSH
15	cannot wait that long.
16	So NIOSH has provided us with two documents,
17	OTIB-0049 for lung adjustment factors, and a
18	draft "Approach to Dose Reconstruction for
19	Super Type S Material" that was dated March
20	2006. Those two documents give multiplication
21	factors that should be used to derive doses
22	from the so-called super type, SS or super S
23	from calculations done with type S compounds.
24	So the dosimetry for the type S compounds is
25	well-established, so the NIOSH approach was to

give us an adjustment factors that we should multiply the doses that were calculated for a type S.

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4 The first document, OTIB-009 (sic) gives the 5 adjustment factors for the lung content for the 6 super type S compounds. What -- the NIOSH 7 approach was to look at several cases that has 8 -- had this high retention in the lung. They 9 took the two cases with the highest retention 10 in the lung and derived an empirical model for 11 It's an empirical model -- I'm saying them. 12 it's an empirical model because the lung parameters were modified to fit mathematically 13 14 the data. This fitting is not biologically 15 realistic or it's not done in a way that would 16 be accepted, for example, by ICRP. But in 17 favor of the NIOSH approach, the only thing 18 that is important in this case is to be 19 claimant favorable. And in this document the 20 adjustment factors that are used for the lung -21 - they are claimant favorable. They were made 22 with the two highest cases of intake and they 23 are favorable -- claimant favorable for the 24 lung -- adjustment of lung. 25 Then after you adjust the lung content, you

1 also have to adjust for the intake if the data 2 comes from bioassay, from urinalysis. And the 3 way they did this was through the other 4 document, the one that was handed out in March 5 2006, and it's proposed that you should multiply the intake by 4 or 4.7, depending if 6 7 it is chronic or acute intake, and then adjust 8 for the intake, calculated using super type S. 9 We are still evaluating this approach because 10 you come from an empirical -- empirical lung 11 fitting, and it's okay for the lung because the 12 lung was adjusted like that. But then to go 13 down to the systemic and to the adjustment of 14 intake, I think it will require from us a 15 little bit more work in order to validate that. 16 NIOSH has compared the results they obtained 17 with this multiplication factor for the intake 18 with autopsy cases from Rocky Flats, seven 19 cases of autopsy from Rocky Flats, where they 20 have compared the lung content of these people 21 and the liver content. And they say it's 22 claimant favorable. Okay. So they -- if you 23 do this adjustment, you come out with a number 24 that is higher than the one that were found on 25 those autopsy cases. They did not give us the

1 data for bone also, just liver and lung. But 2 we have looked at the bone data from two cases 3 that were published from the U.S. Transuranium 4 Registry, and it also super-estimates the bone 5 content on those two cases. On the other hand, there were -- there is 6 7 another model that is proposed in the 8 literature that was done by Keith Eckerman and 9 some coworkers from Russia using Mayak exposed 10 workers also to insoluble plutonium. Eckerman 11 and coworkers, they examined 58 autopsy cases, 12 and 50 were smokers and eight were non-smokers, 13 so Eckerman examined the data model for smokers 14 and no smokers. The approach used by -- by 15 Eckerman was to modify the absorption 16 parameters to -- to the lung by introducing --17 by using a bounding compartment and -- to --18 with an infinite half-time in the lung. 19 The approach used by Eckerman is one that would 20 be, for example, accepted by the ICRP. I'm not 21 saying it is the one that ICRP is going to 22 take, but it's one that is accepted by ICRP. 23 And we have compared Eckerman's prediction in 24 organs from urinary bioassay data taken one 25 year after single acute intake and the approach

1	taken by NIOSH, and we have come to the
2	conclusion that NIOSH is more claimant
3	favorable than Eckerman's model for systemic
4	organs and GI tract and ET, also.
5	Also, in Eckerman's paper he also points out to
6	the problem that he adjusted the lung the
7	the model to fit the lung, and then his
8	should not really be used for systemic.
9	So so now what we have to do is to take
10	to take a further look on this approach to
11	calculate systemic organs from this model. But
12	we believe that NIOSH is going on the direction
13	of claimant favorability. Thank you.
14	DR. ZIEMER: I wonder if you would remain at
15	the mike just for a moment. I want while
16	you're there, Joyce, to see if any of the Board
17	members have any questions on what you've just
18	related to us. Well, since I have a question,
19	I will start.
20	Very quickly, did I understand you to say that
21	there were two cases in the Transuranic
22	Registry that actually involve super S
23	DR. LIPSZTEIN: Yeah.
24	DR. ZIEMER: category?
25	DR. LIPSZTEIN: Yeah, that were published in

1 2004 --2 DR. ZIEMER: Okay, so there --3 DR. LIPSZTEIN: -- on the record, yes. 4 DR. ZIEMER: Okay. And then I was trying to 5 understand what you said about the Eckerman 6 model and a -- a compartment that had an 7 infinite half-time -- basically you're saying 8 there -- a compartment with no biological 9 clearance, I believe. Is that --10 DR. LIPSZTEIN: Yes, right. What -- the ICRP 11 approach on the lung model, even from ICRP-66, 12 has this bound compartment. It was never used. 13 It's always -- like -- this is -- are all not, 14 you know, mathematical compartments --15 DR. ZIEMER: Yes. 16 DR. LIPSZTEIN: -- so the lu-- it's like as if 17 there were small lungs in all those 18 compartments, so there is a fast retention time 19 and there is a long retention time compartment, 20 so those two compartments were used until now. 21 But the bounding compartment was always there, it just was never used. I know for sure that 22 23 the ICRP is going now to start using for several nuclides this bound compartment to 24 25 explain a longer retention of some nuclides in

1	the lung. It has not yet come with the
2	parameters for this lung bound bound
3	compartment, and Eckerman has proposed a model
4	for these parameters, some numbers for those
5	parameters, based on the Mayak autopsy data.
6	DR. ZIEMER: So in principle, the third
7	compartment was there and I understand these
8	are model these aren't physical entities,
9	they are mathematical compartments, but in
10	in the other cases you could always describe
11	the clearance with the first two compartments,
12	the long and
13	DR. LIPSZTEIN: Exactly.
14	DR. ZIEMER: and the shorter half-time.
15	DR. LIPSZTEIN: Exactly, because when the lung
16	model was derived there was not so many data on
17	all the nuclides. Now the ICRP approach is
18	going to be that for many compounds they are
19	going to have specific parameters different
20	from just type S and and S, so each compound
21	will have a speci for each compound that we
22	have enough information to derive those data
23	DR. ZIEMER: And then
24	DR. LIPSZTEIN: and the plutonium oxide is
25	one of the

1 DR. ZIEMER: And then one final question, and 2 just asking for a sort of ball park answer, in 3 terms of what we know in a preliminary way on 4 the super S, and maybe based on the Transuranic Registry material, is it -- do we have some 5 6 feeling for what percent of an intake of super 7 S would remain in that longest-term compartment 8 during our lifetime? Is that a major portion 9 of the --10 DR. LIPSZTEIN: No, it's a small portion, but 11 it may -- because of the infinite half-time, 12 then it remains for a long time. That's --13 DR. ZIEMER: And delivers lung dose. 14 DR. LIPSZTEIN: And --15 DR. ZIEMER: A small percentage, okay. 16 **DR. LIPSZTEIN:** Is a small percentage, yes, but 17 it remains for a long time so it makes a --DR. ZIEMER: Right. 18 19 DR. LIPSZTEIN: -- a difference, and I have 20 also compared the NIOSH approach with some 21 draft things from ICRP, and NIOSH is always claimant favorable, so --22 23 DR. ZIEMER: Okay, and that was sort of my 24 final question, are there some drafts that you 25 know about -- 'cause I know you work with the

1 ICRP so even though they haven't published, you 2 sort of know where they're going on this. 3 Okay. Thank you. 4 I guess Dr. Roessler has a question. 5 DR. ROESSLER: I think you answered one of 6 I just wanted to verify what you said, them. 7 Joyce, about the -- your evaluation, knowing 8 what's happening with the ICRP models, that the 9 NIOSH models are claimant friendly -- or 10 favorable. 11 But I have one specific question. Just to 12 repeat, when you talked about the Transuranic 13 Registry, what I understood you to say is that 14 the one thing you got answered was the dose to 15 bone from that. And from those results, again, 16 you have concluded that the NIOSH approach is 17 claimant favorable. Is -- is that what you 18 said? 19 DR. LIPSZTEIN: The content in bone. There are 20 two cases that were published from Rocky Flats. 21 One of them, even if you used type S, you are okay with bone and --22 23 DR. ROESSLER: Okay. 24 DR. LIPSZTEIN: -- the other case, if you used 25 the multiplication by 4 for the intake, then

1 you are -- you are super-estimating what was 2 found in -- in bone. 3 DR. ROESSLER: So there actually were two cases 4 from Rocky Flats. DR. LIPSZTEIN: Yes, but --5 6 DR. ROESSLER: Okay. 7 DR. LIPSZTEIN: -- NIOSH -- in their document 8 they examined seven cases from Rocky Flat. I 9 don't have the data for those cases, and they 10 claim that they were all super-estimating, the 11 liver content and the lung content. 12 DR. ROESSLER: Okay, thank you. MR. GRIFFON: We have the data for those cases. 13 14 Right? We have the data for those cases. Jim 15 -- Jim -- he's going to ... 16 DR. NETON: Yeah, this is Jim Neton. Yeah, 17 those -- those data are on the O drive. 18 MR. GRIFFON: Right. 19 DR. NETON: They might be difficult to find, 20 but they are there. 21 DR. ZIEMER: Okay. Thank you very much for 22 that clarification. 23 Okay. Thank you very much for that 24 presentation. Now we return to Joe Fitzgerald. 25 MR. FITZGERALD: Okay, we have -- the next two

1 issues, one dealing with the measurement of 2 americium-241 and how it relates to the ability 3 to measure plutonium, and the next one on 4 neutron measurements, are two that we've spent 5 a great deal of time on and I think have 6 achieved a lot of convergence. There's been a 7 lot of give and take on it. 8 These are issues that came from the original 9 site profile that we've carried forward into 10 the SEC discussions. And on the americium-241 11 it's just a question of whether DOE, and then 12 secondarily NIOSH in its assessment, had a 13 handle on what the americium assay would be in 14 the plutonium handled at Rocky. And the 15 implication there is the ability to measure 16 plutonium because the americium, in terms of 17 its gamma radiation, is what you actually peg to in terms of your in vivo counting. 18 And I 19 think -- this was a question of our seeing 20 additional documentation than that which was 21 provided as part of the original site profile that NIOSH produced. And what I just detailed 22 23 there, for your information -- again, we can go 24 into more detail, but -- additional 25 documentation was given to us that -- that kind

1 of detailed the specifications which the 2 Department of Energy used at the site; 3 certainly indicated that there was blending 4 going on to maintain the americium 5 concentrations at a certain specification --6 that was important for the weapons program --7 and that there was a -- certainly a minimum 8 content of americium at 100 parts per million, 9 which in fact is the value that the TBD uses. 10 So I think this was a useful process by which 11 we were able to get additional information to 12 confirm a concern that we originally had in our 13 initial evaluation last year. So this is where 14 I think the working group certainly served a 15 good purpose, but I just wanted to report that 16 since that was a key issue that came out of the 17 site profile that we felt could have SEC 18 implications. But I think we've gone a long 19 ways -- we're not finished yet because we 20 certainly have some questions about how one 21 measures americium -- pure americium, 22 particularly in the sludges and the process 23 streams that existed at Rocky. So there's 24 still one lingering issue, which I think we're 25 pretty hopeful we'll get additional information

from NIOSH on.

2	The this next one here, this was a issue
3	that had so many facets, I think we spent a lot
4	of time just sort of getting the taxonomy right
5	in terms of the different elements and
6	different documentations that were being
7	produced. This was in fact a real-time or
8	just-in-time type evaluation where NIOSH was
9	completing some very critical guideline
10	documents. OTIB-50 is essentially how they
11	would apply the NDRP data and interpret neutron
12	dose estimates for Rocky. The NDRP database of
13	course is the database which was made available
14	for the first time and finalized sometime
15	middle of last year, and OTIB-58, which is up
16	there, is the in fact a NIOSH model for how
17	coworker doses are going to be handled for
18	external dosimetry. And again, that was the
19	last piece or the last foundation block that we
20	received, and we got that last week. So as
21	these pieces, these guidelines, have come
22	forward, we have reviewed them, have had I
23	think very fruitful evaluations with the NIOSH
24	team, and have come to a point where we do have
25	some remaining issues, but certainly not as

1 many as we had before. And what -- our major 2 thrust, as indicated in the last bullet, is --3 we're doing two things, really. One is to now 4 step back, now that we have all the essential I 5 think implementation guidelines -- the OTIB-50, the NDRP database and now the coworker model --6 7 and trying to figure out more holistically does 8 that work on the neutron dosimetry side, and 9 external dosimetry side, and make sure that --10 I guess from our own standpoint to be able to 11 inform the Board that, you know, nothing tends 12 to fall in the cracks; there's no issue 13 relative to the whole picture, because we have 14 looked at this in pieces, and certainly the 15 coworker model is one of particular concern 16 because it deals with I guess an issue we heard 17 last night, which is how do you deal with 18 unmonitored workers working in environments 19 where you do have neutron fields, which you 20 would have had in Building 771 and some of 21 these other facilities. So I think this is an 22 important question and we're certainly going to 23 have a detailed section in the review that 24 we're going to produce in the next few weeks 25 for the Board.

1 That's where we are right now on that 2 particular question, but there's been I think a 3 lot of progress in going through these 4 different implementation guides and coming to a 5 appreciation of the overall approach that NIOSH has taken on that issue. 6 7 I want to get to data reliability, and 8 certainly that was a fairly strong subject from 9 last night's public hearing. We share that 10 I mean I think in our original site concern. 11 profile review that we issued over the winter 12 we did indicate in a section that we were 13 concerned about the questions of -- of zero 14 entries, of allegations of false entries, this 15 -- this -- this terminology of no data 16 available. And we certainly took those issues 17 very seriously and we brought those forward into the SEC review. 18 I think our initial 19 impression was we had certain issues that, 20 independent of the petitioners, we felt, based 21 on our review, spoke to these questions of --22 of data reliability. And certainly the 23 petitioners have advanced, in their petition, 24 similar but maybe somewhat separate questions. 25 The Chairman asked us to go ahead and

1 consolidate the issues that came out of our 2 site -- our site profile review with some of 3 the issues that figured in the petition that 4 was submitted, and that's where we came up with 5 I think our starting point of 17 issues that 6 deal with some aspect of data reliability or 7 integrity that we felt needed to be pursued and 8 taken to ground. And as we worked through this 9 with the working group and with NIOSH, I think 10 it became very clear that, you know, part of 11 the problem is being able to corroborate in 12 some fashion what happened, why it happened and 13 to establish whether it was systemic. 14 Is this an isolated case? You know, maybe it 15 just affected one worker. Or was this 16 reflective of a pervasiveness or a systemic 17 nature of a problem that figured at Rocky? We 18 wanted to get to the root of that issue. Is 19 this something that -- really typi-- is really typical of the site? And that I think required 20 21 a degree of investigation that we didn't quite 22 foresee, but we're certainly in the midst of it 23 now. 24 I think some of you -- I'm talking to the 25 petitioners -- have met Katherine Robertson-

1	DeMers. She's working from our standpoint and
2	interviewing petitioners, and actually trying
3	to identify document sources that would help us
4	establish the veracity of some of these
5	allegations and corroborate some of the
6	concerns over the reliability of the data. I
7	just listed some of these, but certainly
8	there's in the back there's a report that we
9	issued on the 19th which is a status report on
10	the specific issues that we felt strongly about
11	in terms of pursuing to grounds as far as
12	documents and interviews.
13	So and together with NIOSH, we have
14	established a essentially a action list on
15	behalf of the workgroup to pursue each and
16	every of the 17 issues and establish a
17	resolution of those issues in terms of the
18	documents that we can find and what the
19	interviews can take us to. And we're in the
20	process of doing that right now. We are
21	obtaining log books. We are obtaining further
22	documents that would serve to corroborate the
23	affidavits, serve to corroborate some of the
24	concerns that have come out of this issue.
25	It's not an easy process. It's a time-

1 consuming process because, again, we have to go 2 to DOE, obtain the documents, bring them back, 3 examine them, compare them and what-not. And 4 what we have established is a process by which 5 I think NIOSH is going to proceed to obtain a 6 broad band of documentation and go through the analysis. We're going to do samplings of the 7 8 same analysis and try to bring this thing to a 9 point for the Board where we can establish 10 here's the best we can do in the time that we 11 have in terms of what the records and the 12 interviews tell us about these issues. But 13 again, I think that's pretty much where it 14 stands. 15 This is happening in real time. We're 16 collecting documents this week and we hope to 17 have some assessment that would be available by 18 the middle of -- certainly by early June and 19 have a report by the middle of June. 20 I think the Board's been pretty informed on 21 this thing as we've gone along. There's been a 22 high level of activity. A number of documents 23 have been submitted over this month, so I 24 won't, you know, take any more time with them 25 unless you have any questions on -- on the

1 process. I think all of us have been very 2 devoted to this particular question and trying 3 to figure out how to resolve it. 4 And again I'm not going to spend too much time 5 on it, these are the three specific actions that have -- had come out of the April 19th 6 7 review in terms of taking us forward for the 8 next several weeks, and the process is ongoing 9 as we speak in terms of obtaining documents and 10 also looking at these documents from the 11 standpoint of corroborating some of these 12 issues. And we're hopeful that we're going to 13 find some certainly information in these log 14 books and accounts that will give us some 15 indication of what really happened in these 16 particular situations and whether you can 17 establish whether the zeroes in fact were zeroes, or is there some evidence that perhaps, 18 19 as we heard last night, that these were being 20 driven by incentives or management decisions 21 that had something -- nothing to do with the 22 actual measurements. 23 This is a wrap-up. We are, as Joyce pointed 24 out, spending considerable time focusing on I 25 think bringing the super S analysis to a close.
1 We are going to have sort of a expert review 2 with Dr. Bistline, Joyce and some other folks 3 that we have to -- to really cross the T as far 4 as this issue's concerned. This issue is a 5 prototype issue. We're going to see this issue 6 again and again at other sites, so I think it's 7 well worth the time to get the science on the 8 table and to be able to come to a conclusion on 9 it because we're going to be using this 10 information at other sites as we go. And I 11 certainly can tell you for a fact -- I just got 12 back from Mound and Los Alamos -- we do have 13 this issue, and we have this issue for other 14 nuclides. The -- and we of course finished the series of 15 16 reviews on the neutron dose assessment. We are 17 doing the on-site interviews. Again, we're 18 working on the data integrity and reliability 19 question. 20 We just got the coworker models over the last 21 week or so, and I think that's probably the 22 last piece of information that we're now 23 focusing on. We're reviewing it as we speak 24 this week, both the external and internal 25 coworker models, and that's going to have a big

bearing on of course the unmonitored worker issue.

3	And I think the rest of this is pretty obvious.
4	Next step, we are in the process of working up
5	the review of the NIOSH SEC evaluation. It's
6	going to certainly have the same format and
7	details that you saw in the Y-12 review, and we
8	certainly are aiming toward having that in
9	advance of the of the next meeting of the
10	Advisory Board and hopefully with a couple of
11	weeks of lead time so there'll be enough time
12	for interchange and review.
13	That's that's pretty much it.
14	DR. ZIEMER: Okay, thank you, Joe. If you'd
15	stay put for a minute, let's
16	MR. FITZGERALD: Sure.
17	DR. ZIEMER: see if there are questions that
18	Board members have regarding your presentation,
19	the SC&A report so far. Any questions?
20	(No responses)
21	Okay. Thank you very much then.
~ ~	
22	MR. FITZGERALD: Uh-huh.
22 23	MR. FITZGERALD: Un-huh. DR. ZIEMER: I've been told that Libby White
22 23 24	MR. FITZGERALD: Un-hun. DR. ZIEMER: I've been told that Libby White from Department of Energy, who's had some
22 23 24 25	MR. FITZGERALD: Un-hun. DR. ZIEMER: I've been told that Libby White from Department of Energy, who's had some involvement I guess in obtaining the data or

1 the records, may be on the line. Libby, are --2 are you on the line? 3 MS. WHITE: Hi, yes, I am on the line. Can you 4 hear me? 5 DR. ZIEMER: Yes, we can hear you quite well. 6 Libby, I'm told that you may have some comments 7 relative to the Rocky Flats dose -- and other 8 information. Is that correct? 9 MS. WHITE: You know, we have nothing other 10 than a brief comment, which is just that DOE 11 will be as responsive as we -- as we can in 12 pulling the records and additional documents 13 that the team needs to look at in -- in working 14 through these issues. And -- and just as much 15 lead time I guess as they can give us in 16 advance, that will help us to have all the 17 records ready for their review when -- when 18 they get to the site. 19 Thank you very much, Libby, for DR. ZIEMER: 20 that expression of cooperation. Certainly the 21 issue of obtaining records in a timely fashion 22 has -- has been important to this Board and to 23 our contractor and to NIOSH, so we're pleased 24 that -- that there is that willingness to be 25 cooperative. I know you need more than a

1 minute or two of advance notice, and we're all 2 working in real time here and we're all 3 pressed, so we do thank you for that effort. 4 MS. WHITE: Certainly. Certainly. 5 DR. ZIEMER: And Libby, hang on just a minute. 6 MS. WHITE: Sure. 7 DR. ZIEMER: Dr. Wade has some --8 DR. WADE: Libby, could --9 DR. ZIEMER: -- comments. 10 DR. WADE: -- you just give us your name again 11 and your position, your title? 12 MS. WHITE: Sure, it's Libby White, and I'm the 13 director of the Office of Health Services with 14 the Department of Energy. 15 DR. WADE: Thank you. 16 DR. ZIEMER: Okay. Thank you very much, Libby. 17 MS. WHITE: Thank you. 18 DR. ZIEMER: And Mike Gibson has a comment 19 here. Mike? 20 MR. GIBSON: LIbby, this is Mike Gibson. Ι 21 just want to know, are all relevant -- are all 22 documents available or have any been disposed 23 of? With regard to Rocky Flats. 24 DR. ZIEMER: And Libby, are you still on the 25 line?

1 MS. WHITE: I am on the line. I'm not sure 2 that I'm capable of answering that question. Ι 3 think we'd need the records people with Legacy 4 Management to help -- to help with that. But 5 anything that we have -- that we currently have certainly we'd be more than happy to make 6 7 available, and we work with our records people 8 out in Colorado to do that in our Legacy 9 Management office. 10 MR. GIBSON: Could -- maybe we could get an 11 answer from the Legacy Management people? 12 DR. ZIEMER: Maybe we could, or maybe -- I 13 guess one part of this would be if NIOSH or if 14 SC&A identifies in fact records that they need 15 that they are not able to get, that would in 16 part answer that -- or at least tell us. Have 17 there been -- are we running into any records 18 issues now where we're -- we're identifying 19 records that are not being able to be located on this --20 21 MS. WHITE: Not to my knowledge. 22 DR. ZIEMER: Joe or Larry, do you know? Any --23 any Rocky Flats records so far that you've 24 requested that people don't know where they are 25 or have not been found?

1 MR. FITZGERALD: No, I -- I think certainly 2 given the pace that we're under, I think DOE's 3 been very responsive. What's happened of 4 course is, you know, there's a lead time to 5 identify and to generate the records, and you 6 know, we find ourselves moving in a time frame 7 of days and weeks and I think DOE's been very 8 responsive in terms of providing those 9 documents. So I appreciate that support, as 10 well. And no, I don't have anything to report 11 as being a problem. 12 PRESENTATION BY NIOSH, DR. BRANT ULSH 13 DR. ZIEMER: Okay. Next we'll hear the formal 14 presentation by NIOSH. Dr. Ulsh is going to do that presentation. This is the presentation on 15 16 the NIOSH -- basically the NIOSH 17 recommendation, their evaluation of the SEC 18 petition. 19 DR. ULSH: Thank you, Dr. Ziemer. I'd like to 20 thank the Board for giving me a chance to come 21 back to Colorado. I did some of my graduate 22 work right up the road in Fort Collins, so -- I 23 was also relieved to see the weather break 24 yesterday. I've been telling all my colleagues 25 about how great the mountains are in Colorado,

1	and of course when we landed you couldn't see
2	them. So as of yesterday when the clouds
3	lifted, in fact yes, there are mountains in
4	Colorado, so that was a relief.
5	I'd like to start by thanking a few people and
6	me just explaining my role in this process.
7	I'm a research health scientist with NIOSH.
8	I've been there for about three years. And I
9	am the I guess, for lack of a better word,
10	project manager for NIOSH's evaluation of the
11	Rocky Flats petition.
12	I'd also like to acknowledge a few other folks
13	explicitly. Bob Meyer and his team from the
14	TBD team. They've provided some very valuable
15	technical input I'd say invaluable technical
16	input to this process. And also Karin Jessen
17	and her team for putting together the
18	evaluation report. She had a huge part in
19	putting that together, and without the help of
20	those two people and their teams, I wouldn't be
21	here prepared to talk to you about our
22	evaluation today, so I just wanted to
23	acknowledge them.
24	There are a couple of other people who I think
25	deserve some thanks, and that is Tony DeMaiori

1 and Jennifer Thompson. I think the workers 2 already know the debt that they owe those two 3 people, and I would just like to take the 4 opportunity to speak for NIOSH and to thank 5 those two individuals in particular for putting 6 together a very thorough, very good petition, 7 and it really got us to take a good hard look 8 at how we're doing dose reconstructions at 9 Rocky Flats. It's been a grueling process, I 10 can say that. I think SC&A would agree and the 11 working group would certainly agree. But it's 12 been a productive process, and I think that as 13 a result of going through this process our efforts at Rocky Flats are stronger. 14 15 And finally and most importantly, I'd like to 16 thank the workers who came out last night and told us their concerns, and also expressed 17 18 those concerns through the petition. This is 19 the most valuable information that we can get. 20 And the more specifics we have -- it's kind of 21 like trying to put together a puzzle. The more 22 pieces that you start with, the easier it is 23 and the faster it is to get to the big picture. 24 So I can't over-emphasize how important your 25 input into this process is.

1 All right. So let's move right into the 2 presentation then. First of all, for those 3 members of the Board who may not be as familiar 4 with Rocky Flats as most of the people in the 5 audience probably are, let me just go through a 6 nickel tour of what happened at Rocky Flats. 7 The main mission of the Rocky Flats Plant was the production of plutonium triggers for 8 9 nuclear weapons. And another important mission 10 that was performed there is the processing of 11 retired weapons for plutonium recovery. 12 I hope y'all can hear me over the weed-eater. 13 If not, give me the high sign and -- I don't 14 know what I'll do; try to talk louder, I guess. 15 In terms of the site history, ground-breaking 16 actually began in 1951 and production 17 activities commenced in 1952, and those continued through 1989 when the focus of the 18 19 Rocky Flats Plant switched to decommissioning 20 and decontamination. And that effort is far 21 along now. If you go out to Rocky Flats, as 22 most of the people here know, you won't see a 23 whole lot. There's only a building or two 24 left, so that's what's been happening since 25 1989.

1	All right. In terms of the SEC petition
2	qualification, the first step, once we receive
3	a petition, is to evaluate that petition in
4	terms of getting it into shape so that we can
5	evaluate it. And we went through that process
6	and the petition was formally qualified on June
7	16th of 2005. And upon that qualification the
8	petitioners were notified and a notice was
9	published in the Federal Register in late June
10	of last year.
11	The original proposed class in the petition was
12	all United Steelworkers of America members
13	employed between April of 1952 and February of
14	2005. We fairly quickly determined that we
15	couldn't really just limit this this class
16	to just union members. It it wouldn't be
17	feasible for us to do that, and non-union
18	members, we determined, should also be
19	considered in this petition because they also
20	had potential for the kinds of exposure and the
21	kinds of concerns expressed in the petition.
22	So we expanded that class to include all
23	employees in that time frame.
24	Okay, I want to tell you about some of the
25	petition-related activities that have occurred.

1 Some of these started even before the petition 2 was submitted, and the first milestone I think 3 that we came to was the issuance of our 4 Technical Basis Documents. There are six 5 Technical Basis Documents that make up our Rocky Flats site profile, and those six TBDs, 6 7 Technical Basis Documents, were issued between 8 January and June of 2004. 9 NIOSH and SC&A held a series of conference 10 calls to discuss each TBD after SC&A was tasked 11 with a review of the Rocky Flats TBD, and those 12 conference calls occurred in early September of 13 2005. SC&A then issued their draft TBD review, 14 and as -- as Joe described earlier, we quickly 15 moved into a very focused review to support the 16 evaluation of the SEC petition. And their 17 draft report was issued December 8th, and I 18 think, Joe, you said it was shortly after New 19 Year that you issued the issue matrix. This is also the second Advisory -- the second meeting 20 21 of the full Advisory Board to consider Rocky 22 Flats TBD and SEC issues. 23 The real bulk of the evaluation -- the work 24 that went into this evaluation was conducted 25 during five working group meetings. And I can

1 only describe that process as grueling. I saw 2 Arjun out in the hall a couple of days ago and 3 we just kind of looked at each other we were so 4 tired. This has been a very exhausting process 5 but, as I said, it's been a very productive 6 process. And there's just been enormous 7 amounts of work put in by -- certainly by 8 NIOSH, also by the Board working group members 9 and by SC&A. 10 Okay, some of the communications that we've had 11 with the petitioner. The first submission was 12 received on February 15th of 2005, and we 13 received a supplemental submission on May 24th 14 of 2005. The first submission I think was 15 approximately 500, give or take, pages -- so 16 very extensive, very thorough. Then the second 17 -- the supplemental submission I think was 18 around 700 pages, so there's an enormous amount 19 of documentation that went into this on the 20 part of the petitioners and also on the part of 21 we who are evaluating the petition. 22 In addition, the petitioner submitted 13 23 questions to NIOSH. These -- this was a result 24 of the petitioners' participation in our 25 working group meetings, and that was very

1 helpful. So they -- after one of those 2 meetings, they had some questions that were 3 related to that and they submitted those to us, 4 and we responded to those questions in March of 5 2006. We also requested some -- some further 6 7 information specific to the data integrity 8 concerns raised in the petition. I sent a 9 letter to the petitioners on March 16th of this 10 year, and we received a response on March 28th. 11 And then I conducted a further -- a follow-up 12 telephone conversation with -- with Tony. And 13 what we were looking for here is some specific 14 examples of concerns that he had with -- with 15 data integrity that we could then go run down 16 and -- and see if we could figure out what was 17 going on. So those were very helpful. 18 And we also have now, especially after last 19 night -- we heard a number of concerns, some of 20 which were pretty specific, so our -- our 21 research in this area continues, and I'll get 22 more into that a little bit later. 23 Okay, the available information that we had to 24 inform this evaluation of our -- of this SEC 25 petition included dosimetry records. And these

1 are contained in a number of electronic 2 databases -- I've got them a little out of order here. I think the first electronic 3 4 database was the HSDS, which I believe stands 5 for Health Science Data System. That was 6 preceded of course by handwritten records since 7 this was prior to the computer era, and that 8 was up through about 1969. With the 9 implementation of the HSDS, those records were 10 migrated into that -- that database. And then 11 there were a number of subsequent databases 12 where the records were migrated to follow-up 13 databases. So we started with handwritten 14 records. We went to HSDS. Later was the RHRS, now let me see if I can remember that one --15 16 Radiological Health Research System, I believe. 17 Don't quote -- don't quote me on all these 18 acronyms. I can't be certain that I'm getting 19 all the acronyms correct. And then finally, 20 just very recently, HIS20. This is the most 21 recent of the electronic databases that contain 22 dosimetry records. 23 We also had access to CEDR database which 24 contained internal and external data. That was 25 useful to us in coming up -- especially with

1	the internal coworker model that we put
2	together.
3	We also accessed the ORAU Site Research
4	database, which is a compendium of documents
5	and information about not only Rocky Flats but
6	sites all across the complex. Of course we
7	focused on Rocky Flats for this particular
8	effort.
9	We also had documentation provided by the
10	petitioners in the petition, and by site
11	experts that we consulted with. And again, as
12	I said before, a really valuable source of
13	information was information from you, the
14	workers. Keep in mind, I didn't work at Rocky
15	Flats. I'm coming at this from the outside.
16	So you folks are my window into what happened
17	at the Rocky Flats site, so anything that you
18	can tell us, that that is absolutely
19	critical. It's very valuable to us.
20	So SC&A issued a report on April 19th that Joe
21	mentioned suggesting additional documents for
22	review. And at the time that the report came
23	out, we weren't sure whether we would be able
24	to locate these documents. We were going to
25	investigate the feasibility of it. We've

1 actually had some conversations with the DOE 2 records folks, and we're encouraged. They seem 3 optimistic that we can get -- I don't want to 4 say 100 percent, but certainly a large part of 5 the documents that SC&A has suggested, so we're very encouraged by that and our research on 6 7 those documents of course is going to continue. 8 Okay, in terms of the availability of 9 dosimetry, these are numbers that I pulled out 10 of our tracking system, NOCTS -- which is the 11 NIOSH/OCAS Claims Tracking System -- as of late 12 last week. If you go on there today, the 13 numbers might be a little bit different because 14 they're continually being updated, but this is an approximate picture. 15 The cases that meet the class definition -- now 16 17 remember, the class definition is all workers 18 at Rocky Flats, so this number tells you the 19 number of claims that have been referred to 20 NIOSH by the Department of Labor for dose 21 reconstruction. It's approximately 1,100. 22 In turn, we have completed dose reconstructions 23 for almost 700 people -- I think the number's 24 actually over 700 now, as of early this week --25 so that represents about two-thirds of the

cases that were referred to us we had actually completed the dose reconstructions for those cases.

1

2

3

4 Now I've actually got the -- these last two 5 numbers reversed. One of the people on my support team kindly pointed that out, but I 6 7 couldn't correct it in the write-up in time, so 8 those two numbers should be reversed. 9 In terms of cases with internal monitoring 10 records, there are approximately 1,000 -- about 11 1,015 -- so that's a great many of these cases 12 have internal monitoring records. 13 The same with external monitoring records, that 14 number's actually about 1,056, so we've got 15 pretty extensive dosimetry records here for 16 Rocky Flats. And that's in contrast to some of 17 the -- in particular the AWE sites, maybe some 18 of the other DOE sites. We've got a large body 19 of -- of dosimetry records here, and this is 20 the primary information that we use for dose 21 reconstruction. 22 Okay, now let's get to the petition. There 23 were seven bases -- seven main bases that 24 formed the basis of the SEC petition, and I'll 25 just walk through these briefly and then

1	consider some of them in detail.
2	The first was exposure to highly insoluble
3	plutonium oxides, and you heard SC&A Joyce
4	talk about some of the issues that we've looked
5	at related to this particular basis. Just to
6	avoid confusion, let me repeat that when we're
7	talking about highly insoluble plutonium, some
8	other terms that you might hear to refer to the
9	same thing are super S or super Y. That all
10	refers to this this issue, this form of
11	plutonium that's very insoluble.
12	The next basis for the petition was the
13	inability to link exposures to specific
14	incidents. That was a great concern in in
15	the petition.
16	And the next one was periods of inadequate
17	monitoring. Again, I'm going to go into some
18	of these in more detail.
19	Those first four petition bases were the ones
20	that qualified the petition. They they
21	directly speak to NIOSH's ability or inability
22	to conduct dose reconstructions with sufficient
23	accuracy, so we focused most of our efforts on
24	on those four.
25	The last three, the first of which is negative

1	effects of site closure, the the concern
2	here was that since the site is now in a
3	closure phase that the subject matter experts
4	that have insights into what happened at Rocky
5	Flats and and the details of the dosimetry
6	would not be available to us. We didn't find
7	that to be the case. The DOE Legacy Management
8	office maintains archives of the files that
9	were generated during the history of Rocky
10	Flats, and we've had very good success working
11	with those folks to get access to the records
12	that we need, and we've found them to be very
13	responsive and very timely. We also have had
14	access to subject matter experts to inform our
15	our evaluation. That that really hasn't
16	posed too much of a challenge for us.
17	The next issue was the cessation of worker
18	recall monitoring programs. And while this is
19	a very important concern, it it really
20	doesn't impact our ability to conduct dose
21	reconstructions because we rely on biodosimetry
22	I'm sorry, we rely on dosimetry that was
23	collected during a worker's time at when
24	they were actually employed.
25	Now don't get me wrong. If we have results

1 that are available after employment was 2 terminated, we will use them. They -- they can 3 be helpful. But the absence of -- of that kind 4 of information really doesn't prevent us from 5 doing dose reconstructions of sufficient accuracy. So while this is a very important 6 issue, maybe not in the -- in the framework and 7 8 the context of an SEC petition. 9 And the final basis of the petition was the 10 link between plutonium exposure and cancer. 11 It's well understood that there is a link 12 between ionizing radiation exposure and several 13 types of cancer. And plutonium, as a 14 radionuclide, emits ionizing radiation. So you 15 could, by analogy, link plutonium to cancer. 16 And in fact that's -- that's the whole reason 17 why we're here talking about this, because 18 ionizing radiation is a potential carcinogen 19 and that's why we do dose reconstructions. So 20 we didn't really see that that prevented us 21 from doing dose reconstructions of sufficient 22 accuracy. 23 So we -- again, we focused mainly on the first 24 four bases of the petition, so let me walk 25 through some of these.

1 The first is super S, and we are very 2 encouraged by the preliminary results of SC&A's 3 analysis and we look forward to discussing that 4 with them once that's finalized, but we're very 5 encouraged that it at least appears right now that we're being claimant favorable with the 6 7 way that we're going to approach this. 8 The particular concerns that were expressed in 9 the -- in the petition related to super S were 10 three, primarily, the first of which is self-11 shielding. The idea here is that super S 12 particles are ceramicized, and so the concern 13 expressed by the petitioner was that this would 14 prevent the ability to detect this type of 15 plutonium in the lungs through lung counting. 16 The second concern related to super S was 17 particle size. The petitioner was concerned 18 that we were using in -- in our bioassay models 19 that the particle size that we were using was 20 inappropriate. 21 And the final concern was the detection of --22 of super S through bioassay. And I think the 23 concern here is that since this form of 24 plutonium is so highly insoluble, that 25 urinalysis results are going to relative

1 insensitive to detecting this. So I'd like to 2 go through and tell you about our evaluation of 3 each of these concerns. 4 First -- the first thing that we determined was 5 that yes, in fact there is evidence of super S 6 material -- super S plutonium at Rocky Flats. 7 And Joyce mentioned a couple of the sources of 8 data that we used to make that determination, 9 primarily the results of autopsy cases that we 10 obtained from the U.S. Transuranium Registry. 11 And in fact they do show evidence of plutonium 12 that is more insoluble than type S. So that's 13 the first thing. It does appear that there is 14 super S at Rocky Flats. 15 Now in terms of the specific concerns that the 16 -- that were in the petition, the self-17 shielding -- this was kind of a head-scratcher for me because when we do lung counts to try to 18 19 detect plutonium, what we're using to measure 20 that is the gamma radiation that comes off of 21 the daughter of plutonium, americium-241. And I'm just not aware of any physical mechanism 22 23 that would shield that radiation inside the 24 particle. I went back to first principles and 25 looked at a particle of the appropriate size.

1 If you just consider a plutonium atom encased 2 in a particle made of lead, which is a very 3 effective gamma shield, the attenuation or the 4 shielding is just -- it's negligible. So we're 5 -- we're just not aware of any plausible mechanism of self-shielding. And in fact the 6 7 Transuranium data that we looked at supported the ability to detect plutonium, in whatever 8 9 form, through lung counting. 10 The next concern was the particle size, and 11 Joyce mentioned our approach that we have put 12 out to handle super S plutonium, and smaller 13 particle sizes that might result from fires at 14 the site are explicitly considered in that --15 in that approach. 16 We also took a look at what this means in terms 17 of bioassay results. And it is certainly true that if the plutonium is very insoluble and 18 19 sits in the lungs, then it doesn't get out into 20 the rest of the body as readily as some of the 21 more soluble forms and therefore it doesn't 22 The concentrations in show up in the urine. 23 the urine are less than you would expect to see 24 from more soluble forms of plutonium. 25 However, it's not infinite. The solubility of

1 -- of this type of plutonium leads to bioassay 2 detection limits that are high, but they are There is a number. And so what we 3 finite. 4 determined is that the intakes that we 5 calculate with our bounding approach for super S, those intakes, when you back them off from 6 7 bioassay results, result in claimant-favorable 8 estimates of intake. So while this is 9 certainly an important issue and it will affect 10 the way we do dose reconstructions, it doesn't 11 prevent us from doing dose reconstructions of 12 sufficient accuracy. The next basis in the petition was that there 13 14 are instances when it is not possible to link 15 intakes to specific incidents. And the concern 16 here -- if I can just present a hypothetical 17 situation to you. A worker's going along on a 18 routine biomonitor -- bioassay program, let's 19 say for plutonium. He gets a plutonium 20 bioassay; it's negative. Gets another one a 21 few months later; negative. Gets another one a 22 few months later; positive. Well, then the 23 question is where did that intake come from? 24 Without having special bioassay results -- if 25 an incident is recognized at the time that it

1 happens, for instance a glovebox fire, what 2 will typically occur is that special bioassay 3 would be requested. But in the absence of that 4 -- I mean there -- there are exposure scenarios where the worker wouldn't even know that he had 5 been exposed. That has certainly -- that 6 7 certainly occurred at Rocky Flats, and other 8 places throughout the complex. 9 And so in some situations we als-- we agree 10 with the petitioner that it's not always 11 possible to link intakes that you observe in 12 bioassay results back to specific incidents. 13 It's helpful when we can do it, that is true. 14 But this is an issue that is -- has been widely 15 recognized in the science of dose 16 reconstruction. In fact, the International 17 Commission on Radiological Protection has 18 weighed in on this issue, and I've listed the 19 citation there, and they've recommended methods 20 for obtaining unbiased estimates of intake when 21 you can't pin it to a specific incident. 22 And so Rocky -- Rocky Flats is certainly not 23 the first time that we have encountered this 24 issue. I mean we -- we -- it happens all the 25 time in -- in dose reconstruction, and we have

1	developed methods to arrive at claimant-
2	favorable estimates of organ doses when this
3	occurs, usually I don't want to get too much
4	into the details of those, but we assume a
5	chronic intake scenario that analyses have
6	shown is bounding. It gives a claimant-
7	favorable estimate.
8	So while it is certainly true that these
9	incidents occur and we can't always tie an
10	intake to an incident, again, that doesn't
11	prevent us from doing dose reconstructions of
12	sufficient accuracy.
13	Okay, the next basis was the periods of
14	inadequate monitoring, and the concern here
15	again, there were there were three sub-
16	concerns that fall under this umbrella. The
17	examples presented in the petition included no
18	routine lung counting until the late 1960s. In
19	fact the lung counter at Rocky Flats came on
20	line in 1964. Prior to that there was no lung
21	counting at Rocky Flats.
22	The next two deal with neutrons. In the
23	petition the concern was expressed that there
24	was no neutron monitoring prior to the late
25	1950s. The specific year is actually about

1	1957. That's when they came on line with
2	routine neutron monitoring.
3	And furthermore, there was a concern expressed
4	about erroneous neutron measurements prior to
5	1970. This is the neutron film badge area
6	film badge era, from about 1957 up through
7	1970. That's when neutron dosimetry
8	transitioned to thermoluminescent dosimeters.
9	The concern is for that film period.
10	So in our evaluation of these concerns we
11	concluded that, again, while lung counts are
12	helpful when they're present when we have
13	them, you know, we use them but the primary
14	data that we use to conduct internal dose
15	reconstructions is bioassay data, urinalysis.
16	And those types of data those types of
17	results are available for the entire time span
18	that the plant operated. That is our first and
19	our preferred data that we use. So we didn't
20	see that the existence of the period before the
21	lung counter came on line as preventing us from
22	doing sufficiently accurate dose
23	reconstructions.
24	Now the next two deal with neutrons. In terms
25	of the periods when Rocky Flats employees may

1 have been exposed to neutrons but were not 2 monitored for that, and also the concern that 3 once they were monitored that there were 4 problems, there were issues with the NTA film 5 that was used to do that monitoring, these problems were recognized. They were the 6 7 genesis of the Neutron Dose Reconstruction 8 Project, and that project was intended to 9 address these issues. We have access to the 10 Neutron Dose Reconstruction Project results. 11 We are using them in dose reconstructions. So 12 again, we don't see that this prevents us from 13 doing dose reconstruction with sufficient 14 accuracy. 15 Now I should mention that that Neutron Dose 16 Reconstruction Project also was overseen by an 17 advisory board similar to this one, which 18 contained -- which included individuals both 19 from the site and from outside the site, 20 experts in neutron dosimetry from outside of 21 Rocky Flats. So we are using -- we are 22 accessing that. We are using it in dose 23 reconstruction. 24 Okay, the next basis for the petition was 25 unmonitored exposures, and the examples that

1 were provided included super S plutonium. 2 We've already talked about that one. It also 3 included a concern that there were certain 4 areas where there was no monitoring, or there 5 was monitoring but dosimetry chips were lost or 6 destroyed, and this would have applied to the 7 era when they were using TLDs for dosimetry, so we're talking post-1970. And finally there was 8 9 a concern about lack of accurate work location 10 records, so let me walk through the evaluation 11 of these concerns. 12 First of all, in terms of unmonitored exposures -- we've talked about how to handle -- how we 13 14 propose to handle super S. But if we're 15 talking about other issues, other --16 unmonitored exposures that might have occurred 17 either from intake of radioactive material or to external sources, we have coworker data that 18 19 we can use for unmonitored workers. But I have 20 to tell you that the need for this at Rocky 21 Flats is pretty minimal, in contrast to other 22 sites. Of the approximately 700 cases that 23 we've completed, we're aware -- currently aware 24 of two cases that are on hold for coworker 25 data. So it's not zero, but it's pretty small

1	in comparison to what we see at other sites.
2	And I think I'd like to take the opportunity
3	just to explain a little bit about how we apply
4	coworker data when we do it. There seems to be
5	a pretty large misconception that we take if
6	if John has a gap in his dosimetry, we give
7	him Joe's dose when Joe stood beside him.
8	That's not the way that we do coworker data.
9	Instead, what we look at for an individual who
10	has a gap in their monitoring history, we look
11	at the entire population of monitored workers
12	at the particular site for the time period in
13	question, and we look at the distribution of
14	that data, the population of that data. And we
15	pick a percentile value, usually if if the
16	worker had a significant potential for
17	radiation exposure, that usually is the 95th
18	percentile that we pick and assign for that gap
19	in monitoring.
20	Now what that means is that for that time
21	period that worker is assigned a dose that
22	exceeds the dose that 95 percent of the people
23	on site received. We think that that's pretty
24	claimant-favorable and so that that's why we
25	have used this approach.

1 We also have other techniques to deal with gaps 2 in dosimetry. If a worker was going along, he 3 was monitored and there was a break in his 4 dosimetry, and he was working along again and 5 there's dosimetry results, we can use what's 6 called the nearby technique -- assuming of 7 course -- this technique would only be 8 applicable in situations where we're confident 9 that the worker was doing the same job through 10 the whole time period, there were no conditions 11 that could have led to differences in exposure, 12 so we can use his own dosimetry results to fill 13 in gaps in some situations. 14 Okay, the absence of work location information. 15 We do have actually quite a lot of work 16 location information, but I won't tell you that 17 it's 100 percent complete. I can't tell you 18 where every worker worked every minute of the 19 time he was employed at Rocky Flats. That is 20 true. But this is more of a concern when we're 21 doing dose reconstructions through a source 22 term approach, in situations where the workers 23 aren't wearing -- don't have dosimetry results 24 and we have to estimate doses based on the 25 material that we know was there that he was

1 working with. This has -- this has happened at 2 other sites. But at Rocky Flats, again, we 3 have extensive, actual personal dosimetry 4 information. So that information about work 5 location, while it is important and it is helpful to us in dose reconstruction, it's not 6 7 as critical as it might be at some other site 8 where we don't have the types of dosimetry 9 information that we have here. 10 Okay, the -- I think everyone would agree that 11 the primary issues that are still on the table 12 here for Rocky Flats, the outstanding remaining 13 issues, revolve around data integrity, questions about data integrity. And we heard a 14 15 lot about that last night. I'll get into that 16 a little bit more in just a minute, but the 17 Advisory Board established a working group to 18 deal with this issue, how do we demonstrate 19 data reliability. And one of the -- one of the 20 things that we -- the Board wanted us to 21 address was the internal consistency of the 22 data. So for instance, we've got -- for 23 external dosimetry, for instance, we've got 24 beta/gamma worksheets. These are the 25 handwritten records from the earlier period in

1 Rocky Flats. And then we've got a series of 2 electronic databases as those records were 3 migrated over the years. 4 So what -- what you want to do is look and see 5 if we've got internal consistency. Do we see agreement between the handwritten records from 6 7 the early period and the databases that they 8 were migrated into. And what we have found, 9 first starting with external dosimetry, is that 10 we do have pretty good agreement between these 11 two repositories, two sources of external 12 dosimetry data. 13 We did a comparison of approximately 120 worker 14 quarters, so 120 guarters of data for workers, 15 and we compared the results from the original 16 beta/gamma worksheets -- so this was prior to 17 1969, when they were doing handwritten records 18 -- compared those to the latest database, 19 HIS20. And what we found was that 73 percent 20 of all those quarterly data were found, and the 21 total annual dose was in complete agreement 22 with HIS20. So that was a pretty good number. 23 We also found in 17 percent of the cases there 24 was one quarter missing from our handwritten 25 data, but the annual total for that year agreed

1 with HIS20. So what that told us was that we 2 weren't successful in locating all of the 3 beta/gamma worksheets that would have applied 4 to that individual, but the annual totals were 5 in complete agreement. So that's where I got that 90 percent number, 6 7 the 73 plus 17 percent. And we felt that that 8 was -- that gives us some degree of confidence 9 that the external data is internally 10 consistent. 11 Now I also want to take this opportunity to 12 tell you that we don't rely on only HIS20 data, 13 and we don't rely on only the handwritten 14 records. We take all of the data that we have 15 available to look at for dose reconstruction so 16 that we have the most complete dataset to 17 inform that dose reconstruction. 18 Okay, next internal data integrity. We also 19 did some statistical comparisons to look at 20 this, and what we found was that we again had 21 pretty good agreement. We compared 22 approximately 306 worker samples -- so what 23 that means is an individual sample on an 24 individual worker -- and we looked for 25 agreement or disagreement between the

1 handwritten records, bioassay cards, when that 2 was the method of recording the data, and later 3 HSDS printouts -- we compared those to what we 4 saw in the latest database, HIS20. 5 And so we -- for workers for which both 6 bioassay cards and HIS20 data were available, 7 that was approximately 215 cases -- 208 of 215 8 cases of the records were in complete 9 agreement. And all 34 comparisons of the 10 printed data from HSDS were in complete 11 agreement with HIS20. So if you total those 12 two you get that 97.1 actually percent 13 agreement. 14 In only seven of those cases -- seven of the 15 215, that's about three percent, was there an 16 imperfect match between the data found on the 17 bioassay cards and HIS20 data. 18 So that -- that could raise a flag for you. 19 You could say well, do we see any evidence of 20 systematic censoring of high data. In other 21 words, when these data were migrated into the 22 electronic database, did they censor out high 23 data. That's what we took a look to see if 24 there was any evidence of that. And what we 25 found was that in the instances of the seven

1 where we didn't have -- where we had bioassay 2 data and we didn't find it in HIS20, six of 3 those were in fact non-de-- let me get this 4 right. In six of those we found that the value 5 in HIS20 database were larger than the card data, so it doesn't, in our mind, indicate that 6 7 there was systematic censoring of high data. 8 Now as expected with record systems this large, 9 there were some discrepancies. There were 10 about 41 individual records from three workers 11 for which there was bioassay card data, but we 12 couldn't locate them in HIS20. So again, you 13 would naturally ask the question, is there any 14 evidence of systematic sampling -- systematic 15 censoring of high values. And we continued to 16 investigate this, but what we have found is 17 that in 40 of these 41 cases, 41 individual 18 comparisons, they were non-detects. They were 19 below the detection limit. In only one was 20 there a positive value, and that was just 21 slightly above the detection limit. So this 22 doesn't really indicate a censoring of high 23 data, because this is the low data. 24 So in summary, there's pretty substantial 25 agreement on both the external and internal
1 site between these various repositories of 2 data, and that demonstrates that there is 3 pretty good internal consistency. 4 But this is not the end of the story on data 5 integrity. This is only one piece that was raised in the working group's report. 6 The 7 other concerns that were included in the 8 petition are, first of all, workers don't trust 9 the dosimetry results. And I'll go into this 10 in detail. 11 We also heard -- I don't know if this was 12 actually in the petition or if it was just 13 expressed during the working group meetings by 14 the petitioners. We heard that workers 15 sometimes manipulated their own badges, and I'm 16 going to talk about both of these concerns. So first of all let's talk about the issues 17 18 that lead workers to mistrust their dosimetry 19 There were several examples provided results. 20 in the petition and, to the extent that we 21 could locate specific information or the 22 specific information was provided, we have 23 investigated that as far as we could, and I'll 24 talk about some specific examples. 25 But the concerns that kept coming up repeatedly

1 included a concern that when the badge results 2 were too high they just assigned zero. That 3 was a concern that we heard expressed 4 repeatedly. And you have to separate out the 5 time periods here in terms of film badges and the TLD era. 6 7 For film badges, one of the concerns was that 8 when the film badges were blackened, they would 9 just assign a zero dose. So I -- what we have 10 here is a situation where some workers are 11 saying -- you know, the workers who were 12 wearing the dosimetry are saying that other 13 workers, those who worked in the dosimetry 14 department, falsified data. And so we're 15 coming at this from the outside and we have to evalu -- as best we can, we have to objectively 16 17 evaluate what the data tell us about these 18 situations. 19 And in terms of film badge blackening -- I want 20 to take an opportunity to communicate some of 21 the known limitations of film badge dosimetry, 22 and blackening is one of them. As with any 23 photographic film, if it's exposed to light, it 24 turns black. And these film badges were 25 contained in foil packs to prevent light from

1 reaching the film badges. But as with any 2 other human device, these are not perfect 3 devices. Sometimes that foil pack could be 4 damaged and it could lead to light 5 contamination. Now that's usually pretty 6 easily to dis-- easy to distinguish because it 7 doesn't -- typically it doesn't blacken the 8 whole badge, and you can go to another area on 9 the badge and read it. But that could lead to 10 film blackening. We also know that film badges 11 are subject to environmental conditions such as 12 high temperatures, humidity conditions, can 13 lead to film blackening. 14 Of course another thing that can lead to film 15 blackening is high exposure. That is certainly 16 the case. 17 So we looked at the specific examples that were 18 provided of film blackening, and we simply 19 didn't see any evidence that -- that this 20 constituted deliberate manipulation or 21 deliberate falsification of data. We just 22 don't have the evidence for that yet. We 23 continue to investigate. We continue to 24 accumulate your concerns, some of which were 25 expressed last night, and we're going to

1 continue to look. But to date, we haven't 2 located a particular example that makes us 3 think that these results were -- were 4 falsified. 5 Now the TLD era. The concern here is that when 6 a TLD chip read high they would just assign a zero dose. Well, similarly to the film badges, 7 we know that TLDs have certain limitations. 8 9 Contaminants on the badge -- for instance, hair 10 or body oil or detergent -- can lead to 11 anomalously high film ba-- TLD results. It's 12 also a limitation of TLDs that the crystals can 13 sometimes be dropped. They can sometimes be 14 missing. If the badge is damaged the crystal 15 can be lost. That -- that is one of the 16 limitations of TLDs. 17 At Rocky Flats the design of the TLD badge 18 contained multiple crystals, and so when one or 19 more crystals were lost, most often they could 20 recon-- they could estimate the dose from the 21 remaining crystals in the badge. So again, we 22 -- we arrived at the same -- in the same place. 23 We don't yet have an example that demonstrates, 24 in our mind, conditions that are outside of 25 what you would expect in a dosimetry program

1 like -- like was in existence at Rocky Flats 2 and at other DOE sites. But we continue to 3 look. I mean this is obviously still a concern 4 to the workers and we are going to continue to 5 look. We took notes last night. We're going to try to track down some of the specific 6 7 examples that were presented then. 8 Okay, the -- in a situation where we have a 9 suspect badge result, we do have the same 10 techniques that I described for dealing with 11 gaps, those same techniques can be applied here 12 to deal with suspect badge results. So it's not -- it's not like we're out in the cold if 13 14 we don't have, you know, 100 percent complete 15 dosimetry record, or a period where we have a 16 suspect dosimetry record. We do have methods 17 to handle those types of situations. 18 Okay, now the next concern, that workers 19 manipulated their own badges, this is -- this 20 is a sticky one. I mean there are some ethical 21 implications here that I'm going to leave to 22 the Board to consider in their deliberations. 23 I'm only going to speak to the scientific, 24 quantitative aspects of -- of this particular 25 concern.

1 Okay. The situation here -- first of all, let 2 me describe the system -- the radiation control 3 system at Rocky Flats. It is certainly a fact 4 that there was a radiation control system at 5 Rocky Flats, and workers were encouraged to 6 keep their doses as low as reasonably 7 achievable. That's -- that's a standard 8 feature of radiation control programs and it's 9 a standard feature at Rocky Flats. 10 It is also true that workers could be 11 restricted from certain jobs if their radiation 12 -- recorded radiation doses approached limits. 13 That's -- that is true. The goal there is to 14 make sure that the workers are not getting doses that exceed the regulatory limits. 15 16 So the motivation that was expressed by the 17 petitioner during the working group meetings 18 for this kind of situation where workers would 19 be motivated to manipulate their own badges 20 were so that they could remain eligible for 21 premium work, for overtime work, and not be 22 restricted from -- from that kind of work. Now 23 this going to be a tough issue to deal with 24 quantitatively, because as you can imagine, 25 workers may have some reluctance to discuss

doing this. I mean that -- that's certainly the case.

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3 So what I'd like to do is talk more 4 qualitatively to you about how pervasive a 5 problem this could be. Let's try to establish 6 some perspective on how big an issue that we're 7 talking about here. And it occurs to me that a 8 chain of events has to occur for this to 9 present a problem in our dose reconstruction 10 program. 'Cause as a first link in this chain 11 is that a worker has to be motivated to do 12 this, and we've talked about the motivations 13 that were advanced for this. And presumably 14 the motivation to do this would be strongest 15 when a worker actually approached a limit, an 16 administrative limit or a regulatory limit. 17 Now that may not be the only time, but that --18 that is when the motivation might be strongest. 19 Again, I'm going to walk through a series of steps here, and none of these steps 20 21 individually is impossible, none of them. They 22 are all possible to some degree or other. Ι 23 think that some of them are fairly unlikely, 24 but absolutely not impossible. 25 And the motivation in terms of a worker

1 approaching a limit certainly existed. There 2 were some workers at Rocky Flats who approached 3 regulatory limits, but not -- a great majority 4 of the population at Rocky Flats did not approach the limits, but there were some. 5 So again, not impossible that a worker could be 6 7 motivated to engage in -- in this. 8 Secondly, that same worker would have to be 9 willing to do it. And I spent some time at a 10 nuclear facility and -- just qualitatively 11 speaking now, I think most workers would not be 12 willing to engage in this, but some would. 13 And if they were motivated and they were 14 willing, then they would have to leave their 15 badges in their locker or stick them in their 16 back pocket, and they would have to not get 17 caught while doing it. Again, not impossible. 18 The petitioner described some situations and 19 the statement that really stuck with me is 20 these people were not stupid. If they wanted 21 to do this, they could come up with a way to do 22 it. And I can per-- I can easily accept that. 23 But I don't want to also represent this as 24 being an easy thing to do, especially during 25 the period when the badge was combined. The

1 site access -- the security badge was combined 2 with the dosimetry results from 1964 up into 3 the 1990s. So a worker would have to be not 4 wearing a security badge or a dosimetry badge. 5 Again, not impossible, but maybe not as easy as -- as -- as you would think. 6 7 So if a worker was motivated and willing to do 8 this, and was able to do it without getting 9 caught, that same worker -- in order to prevent 10 a problem in our program, that same worker 11 would have to get cancer and file a claim in 12 our program. Now I don't know the total figures of the number of workers that worked at 13 the Rocky Flats Plant over the entire operating 14 15 history, but I know that it's at least in the tens of thousands, if not more. We have 1,000 16 17 claims from Rocky Flats. Is it impossible that 18 one of those workers who was motivated and 19 willing to do this and able to do it without getting caught could get cancer and file a 20 21 claim in our program? Absolutely not, it is 22 possible. But look at the odds here. There's 23 not going to be a pervasive number of people 24 doing this. 25 Next, that same worker who filed a claim in our

1 program would have to have a probability of 2 causation less than 50 percent. Again, that 3 can happen. If it's over 50 percent, it's not 4 going to be as big an issue in that dose 5 reconstruction because that individual's most 6 likely going to be compensated. But if the 7 probability of causation is less than 50 8 percent, we may have an issue. 9 So let's consider that situation a little 10 closer. It's not all cases that are less than 11 50 percent, it's those cases that have a 12 probability of causation close enough to 50 where the dose that would be missed or would 13 not be recorded on this badge could have an 14 15 impact on the compensation decision. 16 Now I don't have a quantitative number for 17 this, but I think it's going to be probably our 18 best-estimate cases, those where the PCs are in 19 the 40s, maybe. So again, that's a pretty 20 small number. In fact, at Rocky Flats -- now 21 since we're talking about external dosimetry, I 22 took a look at our claim population at Rocky 23 Flats of the 700 or so that we have completed. 24 Our best estimates are where we did a full-25 blown external dose reconstruction. Out of the

1 700 that we've completed, nine were best 2 estimates for external dose. Nine. 3 Is it possible that one of these workers is in 4 that nine? Yes, it is. Absolutely it is. But 5 is it likely? I don't know. I'll let you draw your own conclusions there. 6 7 And finally, the last step in the chain is that 8 we would have to not know about this instance. 9 Now I think that -- that is probably more 10 likely than the other steps, because as I said, 11 workers are understandably reluctant to talk 12 about doing this, and in some cases we're 13 dealing with survivors so they may not even know that the employees might have -- might 14 15 have done this. So it's certainly not inconceivable that we wouldn't know about it. 16 17 Now in some cases we have methods for detecting 18 this kind of thing. If we're looking at a 19 best-estimate case and we see a tail-off, which 20 could indicate that the worker was pulled out 21 of the area, restricted from work, or it could 22 indicate that his badge was pulled out of the 23 area, left in his locker. But I don't want to 24 represent to you that that is a foolproof 25 method. It's certainly conceivable that we

1 would not know about this if it happened, and 2 that's just -- that's just a limitation that we 3 have to deal with and the Board has to 4 deliberate about. 5 So what we have here is a string of events, none of which are impossible. Not one of them 6 7 is impossible. But I think, to varying 8 degrees, they're unlikely. And when you string 9 those unlikely events together you arrive at a 10 pretty unlikely scenario that would present a 11 problem for our dose reconstruction prog-- a 12 widespread problem for our dose reconstruction 13 program. 14 Okay, let's talk about our evaluation report. 15 I've given the regulatory citation here that 16 governs -- governs our evaluation report. And 17 that report was issued -- it was completed and 18 issued on April 7th, and the Board has access 19 to that. 20 And the evaluation process that that report 21 covers -- the Board members have seen this. This is familiar to them, but for the members 22 23 of the audience it may not be as familiar. Our 24 regulations established a two-pronged test for 25 evaluation of an SEC petition, and I've again

1	given the regulatory citation there.
2	The first prong of that test is this question:
3	Is it feasible to estimate the level of
4	radiation doses to individual members of the
5	class with sufficient accuracy? If the answer
6	to that first question, that first prong of the
7	test, is no, then we are obligated to go to the
8	second prong of the test. And that question
9	says, given that you can't reconstruct doses
10	with sufficient accuracy, is there a reasonable
11	likelihood that radiation doses experienced by
12	this class could have endangered the health of
13	of the members of the class. But you only
14	go to that second step if the answer to the
15	first one is no, it's not feasible.
16	So our conclusion from this report, based on
17	the evidence that we have so far and I want
18	to emphasize that we are continuing to
19	investigate. We are working with our
20	colleagues at SC&A. We are working with the
21	working group and the full Board to continue to
22	investigate the concerns. Our conclusion is
23	that the monitoring records, process
24	descriptions, source term data that we have are
25	sufficient to estimate radiation doses with

sufficient accuracy for this class of employees.

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3 Again, we are continuing to investigate your 4 concerns. And to the extent that you can help 5 us, give us examples -- as specific as you can 6 -- that will help us. Now I'm not saying that 7 the burden is on you to reach back 40 years and 8 tell me the specifics of where you were on a 9 given day. But as complete a picture as you 10 can give us, that will help us to zero in, help 11 us to go get the records and -- and determine 12 what -- what happened in these situations. 13 So in summary, the class was 1952 to present. 14 We determined the first prong of the test, that 15 it is feasible, based on the evidence that we 16 have on hand now, that we can feasibly 17 reconstruct doses. So we didn't go on to the 18 second prong of that test. If we had, I think 19 the answer would certainly have been yes. Ι 20 mean there were condition -- potentially 21 hazardous conditions at Rocky Flats that could have endangered the health of the workers. 22 But 23 again, that -- we only satisfied the first 24 prong of the test which asked if it was 25 feasible.

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Okay, that concludes my slides.

DR. ZIEMER: Thank you very much. Let's open this up now for questions or discussion. Mark? MR. GRIFFON: I think a couple things that you mentioned, especially on the coworkers, the -the coworker models and how limited that would be to -- I think you said two cases that remain for coworker type dose reconstruction.

9 DR. ULSH: Right.

10 MR. GRIFFON: I'm trying to understand, and 11 we've talked about this a little bit and 12 started to bring it up in the workgroup, but 13 I'm trying to understand if any of the -- does 14 that mean they -- they -- when you said certain 15 number of workers had -- one of your early 16 slides said how many records -- how many --17 DR. ULSH: Right, about 1,000. 18 MR. GRIFFON: -- claimants had internal 19 records, how many claimants had external. Does 20 that mean they had a full set, enough to do 21 dose reconstruction --22 DR. ULSH: No, that doesn't imply that there 23 aren't gaps in some of those 1,000. What it 24 says is that for -- of the 1,100 cases there is 25 at least some external data and there is at

1 least some internal data. 2 MR. GRIFFON: I just wanted to be clear with 3 that on the record, yeah. 4 **DR. ULSH:** I appreciate that clarification. As 5 I -- all I can say is that of the 700 cases that we've done so far, we only have identified 6 7 two. I know, Mark, you'd expressed a concern 8 about neutrons -- neutron and does that 9 constitute coworker data, so let me ju-- shall 10 I answer that question or --11 **MR. GRIFFON:** (inaudible) 12 DR. ULSH: Okay. And I talked about the early time period when we -- when there was no 13 14 neutron monitoring and we apply a neutron to 15 gamma ratio. And it is true that that neutron 16 to gamma ratio is a measured value, and in some 17 cases it could be based on other workers. So 18 in the strictest sense, that could constitute 19 coworker data. But I'm referring to it in the 20 sense that we normally refer to it at other 21 sites where we have no dosimetry for this 22 person and we assign doses from coworkers. In 23 this case that we're talking about here, 24 applying a neutron to gamma ratio, we start 25 with that individual's gamma reading. So we

1 have gamma dosimetry for that person. And then 2 we apply the neutron to gamma ratio to 3 calculate the neutron dose. So in the 4 strictest sense, that might constitute coworker 5 data, but I was referring to it in the more limited context. 6 7 MR. GRIFFON: And -- and the -- the only other 8 question was, you mentioned a -- a nearby 9 technique --10 DR. ULSH: Yes. 11 MR. GRIFFON: -- which we understand how that 12 works. Has that been applied to any of the 13 cases, to your knowledge, that you've done? 14 DR. ULSH: Oh, gee, Mark --MR. GRIFFON: 'Cause I don't know that you --15 you normally -- or -- or often use that. 16 17 DR. ULSH: We don't often use it. 18 MR. GRIFFON: Right. 19 DR. ULSH: I can't say whether there are any 20 cases at Rocky Flats where we have used it. 21 It's pretty uncommon. 22 MR. GRIFFON: I guess some concern that we've 23 heard expressed from the petitioners and from 24 some people last night is that, you know, if 25 there was -- if they have records for a couple

1 of quarters, then missing records, then records 2 for a couple more quarters, the records that 3 were missing might in fact have been because 4 they were in those high exposed areas. So --5 DR. ULSH: Yeah --MR. GRIFFON: -- I think caution would --6 7 should be applied to that --8 DR. ULSH: I completely agree. 9 MR. GRIFFON: -- nearby technique. 10 DR. ULSH: The appropriateness of the nearby 11 technique is predicated on the fact that 12 exposure conditions are constant. If we can't 13 demonstra -- if we can't validate that that is 14 the situation, then the nearby technique would 15 not be appropriate. 16 DR. ZIEMER: Further comments, questions? 17 (No responses) 18 Okay, thank you very much. 19 DR. ULSH: Thank you. 20 I think it would be appropriate if DR. ZIEMER: 21 we had a comfort break for the assembly for 22 about 15 minutes, and then we'll resume and 23 hear from the petitioners. 24 MR. PRESLEY: Paul? 25 (Whereupon, a recess was taken from 10:15 a.m.

1 to 10:40 a.m.) 2 PRESENTATION BY PETITIONERS 3 DR. ZIEMER: We're ready to reconvene the 4 assembly. Next in connection with the Rocky 5 Flats SEC we will hear directly from the 6 petitioners, and Tony DeMaiori -- am I 7 pronouncing it correctly? 8 MR. DEMAIORI: Absolutely. 9 DR. ZIEMER: Close enough. I'm good on the 10 Tony part. Tony, welcome back to the -- the 11 podium, and please -- and others who may be 12 with you, we're pleased to hear from you at 13 this time. 14 MR. DEMAIORI: Good morning, Dr. Ziemer, 15 members of the Board. As -- My name's Tony 16 DeMaiori. I'm the former president of the 17 United Steelworkers Local 8031. We represented 18 the Rocky Flats facility. During the height of 19 the D and D we had 1,600 members active that we 20 petitioned on behalf of. As -- we'd like to 21 open up our presentation with a video to give everybody an idea of the type of work that we 22 23 did at Rocky Flats, and the people that were there, as we think we need a little bit of the 24 25 human aspect here. So as -- if it would please

1 the Board as -- we'd like to show this video. 2 DR. ZIEMER: Thank you. Please proceed. The 3 court reporter is trying to figure out how to 4 record this now, just --5 **UNIDENTIFIED:** Well, we can give you a copy 'cause I --6 7 DR. ZIEMER: No, we understand. We like to kid 8 him now and then. 9 (Whereupon, a videotape was played for the 10 Board and the public.) 11 UNIDENTIFIED: Excuse me, ladies and 12 gentlemen, this is why I'm here, because ten years down the road, the gestation period for 13 14 radiation inhalation, a lot of these people are 15 going to be sick. This is why I'm here. I 16 care about these people 'cause these people are 17 my people and I can't let them go through what This -- this can't -- this can't 18 we did. 19 happen. We've got to figure out what to do 20 because it's not going to go away. It's here. 21 And a lot of this stuff these people worked 22 with are (inaudible). That means 24,000 years 23 to that (inaudible) so we've got to remember 24 this. Ten years down the road we're going to 25 be buried with people getting sick, wondering

1	why. This is reality. Thank you.
2	DR. ZIEMER: Thank you. Go ahead, please.
3	MR. DEMAIORI: Thank you. And I'd like to
4	thank everybody for giving us the opportunity
5	to recognize the workers and to get get an
6	idea of the type of work that we did at Rocky
7	Flats all those years as this video was
8	dedicated to all the people who had dedicated
9	their lives to the production and the
10	protection of special nuclear weapons, and the
11	ultimately the cleanup of the Rocky Flats
12	facility. As make no mistake, members of the
13	Board, as Chairman Ziemer, that in fact the
14	workers at Rocky Flats were true patriots as we
15	worked a lot of hours, we worked a lot of
16	hardships. Rocky Flats was a 7-day shift.
17	That is, it never closed. We worked 24 hours a
18	day, seven days a week.
19	Our working conditions were abnormal, to say
20	the least. There are several incidents that I
21	can cite that weren't day-to-day operations,
22	you know, with myself personally as I laid in a
23	supplied breathing air suit for nine hours
24	below tanks that contained resins. We were
25	trying to separate the plutonium, but we just

1 started the facility, 371, and we had to flush 2 the facility with water, H2O, because the 3 piping was so massive during construction, it 4 filled up with dirt, dust. So we did, we flushed it with water, and then we couldn't get 5 6 the DOWEX resins to extract the plutonium, to 7 grab it -- that's in the ion exchange. So I 8 laid there for nine hours with my dosimeter in 9 my front pocket, taped, shielded by my torso, 10 with my head at the bottom of the ion tanks. 11 And every 15 minutes my boss would say hey, 12 Tone, take another sample, and I'd take another 13 sample. Every two hours he'd say give me the 14 bag of samples. We'd slide it back under the 15 door. But these are the types of things. 16 Now when we go into dose reconstruction they're 17 going to say well, Tone, during 1982 you were caustic treatment. You were treating caustic 18 19 from the SOE operation, and that's a low-dose 20 job. Absolutely the truth. But I also did the 21 job up on the ion exchange, the sampling. I 22 was a young man. The money was really good, 23 time and a half. That's -- it helped feed my 24 family, buy houses, clothing, that's -- I have 25 to tell you, no regrets. It was a wonderful

1 job that I had out at Rocky Flats, and I think 2 most people would tell you that. But we're 3 here today to discuss the adverse effects, the health effects due to ionizing radiation and 4 5 the -- the exposures, the chemical cocktails. Let us not forget the chemical cocktails, the 6 7 plutonium nitrates that we worked with at Rocky 8 Flats. That's... 9 So anyway, at this point in time I'm gong to 10 refer to Jennifer Thompson and she's going to 11 start the presentation. Thank you. 12 MS. THOMPSON: Good morning. Can you hear me? 13 I wanted to thank you for giving us the opportunity to present to the Board. 14 We 15 greatly appreciate the role that you play in 16 bringing a pure scientific, objective and fair 17 treatment to our petition for Special Exposure 18 Cohort. 19 My role in this process has been as a former 20 Rocky Flats employee, worker and a volunteer. 21 I've worked long hours, evenings and weekends, 22 to help the steelworkers prepare their 23 petition. I do this as an individual and 24 former worker. 25 I also want to appreciate all of the workers

1 who have contributed to the petition, all of 2 the hourly workers, and thank Kaiser Hill* and 3 the Department of Energy at Rocky Flats for 4 being supportive of our efforts back in the --5 December of 2004 and January of 2005 time frame 6 when we were actually preparing this petition. 7 At this point I wanted to make a couple of 8 clarifications based on the earlier 9 presentation by NIOSH. As you could see by the 10 video, Rocky Flats is gone. There are not a 11 few facilities left standing. The project is 12 completely over. In October of 2005 they hung 13 the lock on the gate out at Rocky Flats, 14 signifying completion. 15 I also wanted to clarify that the class of the 16 petition that we submitted -- that the 17 Steelworkers submitted on behalf of its 18 membership was a much smaller class than what 19 you see today. And the class that was 20 submitted was submitted based on the legal 21 right of representation of the Steelworkers for 22 its membership, and that was the limitation. 23 In addition to that, we limited our class as --24 as we thought was instructed through the 25 legislation to clearly define a class of people

1 that had -- either wore dosimetry or worked in 2 areas that had been sense proven to require 3 dosimetry, rather than addressing a broad 4 population of -- of 10,000 people, which is 5 what the case is now. I also wanted to clarify the issue with 6 7 closure. I'm sure -- and I'm grateful for DOE 8 that NIOSH has had great access now in 9 obtaining records, but what about five years 10 from now? And in addition, the workers who are involved in their own individual dose 11 12 reconstructions are required to remember back 13 that many years, so closure is a factor. When 14 the facilities are not there, it is a factor. 15 Another clarification is that plutonium 16 actually emits alpha. It's not ionizing. The 17 daughter product of plutonium is where the 18 ionizing radiation comes from. 19 The other clarification is that it was listed 20 that the preferred data analysis to be used is 21 urinalysis, and I understand that. But that does not account for, as -- as recognized, that 22 23 does not account accurately for high-fired 24 oxides, so the preferred method of analysis 25 that NIOSH employs does not account for high-

1	fired oxides.
2	Another clarification or or point from that
3	presentation is it showed a 73 percent
4	correlation of data, and that may be acceptable
5	to some people, but I don't think if you have
6	cancer that 73 percent is acceptable to you.
7	Another issue I'd like to clarify is an issue
8	on limits. The presentation earlier said that
9	not very many Rocky Flats people approached the
10	legal regulatory limit. Well, that may be
11	true. What the presenter failed to recognize
12	is that at Rocky Flats we had an
13	administrative control level of 500 millirem,
14	so people actually were were relocated from
15	job positions when they approached a 500
16	millirem level, not the regulatory legal limit,
17	so that is a is a is a big difference
18	there.
19	Okay. I've never used one of these before so
20	I'll probably mess up, but one other thing I
21	wanted to say is is that the gentleman early
22	talked about a picture and a puzzle. And if
23	you don't know what the picture is that you're
24	trying to build, how do you know you have
25	missing pieces from the puzzle? You don't know

1 the pieces even exist. 2 Okay. The basis for our petition has already 3 been presented by others at this point so I'm 4 going to skip -- skip that. 5 What I'd like to talk about first is the petition time line. The law requires NIOSH to 6 7 make a recommendation to you folks, the 8 Advisory Board, 180 days from receipt. Health 9 and Human Services has decided in its own rules 10 that 180 days from receipt actually meant 180 11 days from the point that NIOSH certified the 12 petition. Today if 440 days later, and now it 13 appears that NIOSH is pressuring the Board for 14 a quick decision. This delay has cost the 15 petitioner a lot, a lot in terms of the fact 16 that all of our workers are now laid off; a lot 17 in terms of the fact that Rocky Flats is now 18 gone; a lot in terms of the fact the Rocky 19 Flats Union is gone; a lot in terms of the fact 20 that site experts are gone. We have lost our 21 ability as petitioners to access records 22 because now Privacy Act limitations prevent us. 23 We have no official capacity. We have been 24 crippled by this delay in terms of our ability 25 to respond --

1 (Pause) 2 There we go. I know this is hard to read. Ι 3 apologize for the small type, but basically this is a detail of the time line. In 2000 the 4 5 EEOICPA was passed by Congress. It took NIOSH four years to publish the rules, and then in 6 7 October of 2004 it was amended, and it was 8 amended to put in the requirement for 180-day 9 turnaround after receipt. Congress noted the 10 importance of a timely review and a timely 11 response. 12 On February 15th of 2005 the Steelworkers 13 submitted their petition. That's day zero. 14 That's when the clock started ticking. On day 15 61 Health and Human Services issued a letter to 16 the petitioner asking for additional 17 information and gave us a 30-day turnaround, 18 which we met, 26 days later submitting 500 19 additional pages of documentation in 28 days. 20 On day 113 our petition was certified, June 21 16th, 2005. On September 13th of 2005, many 22 months after our petition was submitted, Health 23 and Human Service amended its rules to 24 accommodate the 180-day requirement and 25 determined that what Congress really meant was

certification and not receipt, as the law states.

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3 In December of 2008 (sic) S. Cohen & Associates 4 submitted a site profile review, and we believe 5 that that review, which was done with great 6 detail and high quality, supported the premises 7 of our petition in very, very many ways, and 8 we're grateful for the work of S. Cohen & 9 Associates in putting that together. 10 On day 303, 179 days after the petition was 11 certified -- and there's no coincidence there -- Health and Human Services Director Larry 12 13 Elliott issued a letter saying that their recommendation was to delay the recommendation 14 15 of the petition. 16 Day 440 after receipt of petition, 315 days 17 after certification, we believe that today was 18 the formal recommendation but I'm not certain. 19 This other issue is a sensitive one, and I have to preface it with -- with that sensitivity. 20 21 The Steelworkers would love for everybody at 22 Rocky Flats who gets cancer to be covered under 23 this legislation and under this -- this cohort 24 status. However, the law was quite clear when 25 we submitted the petition. That was that we

1	had to submit only on behalf of those folks
2	that were legally represented by the union. In
3	fact, we had to provide copies of all the union
4	agreements, proving that we had legal right of
5	representation for those people. So by law we
6	could not have petitioned on behalf of other
7	folks. As such we did not gather affidavits
8	from salaried workers. We did not ask for
9	their input into this petition. They have dose
10	reconstruction challenges and examples of
11	failures systematic failures that were not
12	included in our petition because this petition
13	was never intended to represent the total
14	universe of people at Rocky Flats.
15	Now NIOSH has decided to expand the class
16	covered class under this SEC petition. This
17	dilutes the class, creates too large of a group
18	to ever get funded. You all know the politics
19	involved in Special Exposure Cohort. It's a
20	sad thing, but it is reality. It took our
21	group's size from less than 1,500 people to
22	nearly 10,000 people. If Congress has a
23	problem funding Special Exposure Cohorts, do
24	you really think that a 10,000-person class is
25	a realistic way to go about doing a Special

1 Exposure Cohort petition or class of people? 2 The most sad part of this is that this denies 3 people who are not involved in preparing the 4 petition, and who are not represented by the 5 petition, but yet denies them Special Exposure 6 Cohort status. We -- we take issue with that, 7 obviously. 8 Uh-oh... 9 (Pause) 10 DR. ZIEMER: This one's still working. That 11 one must have gone into a sleep mode or ... 12 MS. THOMPSON: Okay. Can the AV person maybe -13 - I'll continue, but can somebody try to get 14 the other screen up? 15 DR. ZIEMER: Go ahead. 16 MS. THOMPSON: Okay. My next premise is -- is 17 best described using a visual description, and 18 -- and we feel like that the Rocky Flats 19 petition and the situation of dose 20 reconstruction at Rocky Flats is like a dam 21 that's failing. And a hole breaks in one point 22 and NIOSH just puts its hand over that hole, 23 and that's a new Technical Information Basis 24 Document (sic). And then a hole comes over 25 here and they put their foot over that one, and

1 that's another Technical Information Basis 2 Document (sic). And then there's another hole, 3 and we've got an assumption for that. And then 4 there's another issue, and we've got an excuse 5 for that. But all the while they're putting their hands over the holes and blocking the 6 7 water, they're failing to see that the dam is 8 failing. They fail to look at the systematic, 9 systemic failures of dose reconstruction. 10 Yes, you can come up with an assumption, an 11 excuse, to explain nearly every thing. And I'm sure if we brought 100 more issues, there would 12 13 be 100 more assumptions and 100 more excuses. 14 These are band-aids. They're not fixing the 15 problem. 16 The new -- the new TIB for high-fired oxides, 17 great, should have been put in place years ago, 18 it's not even final yet, but that's one of the 19 band-aids. The changes for co-located worker, 20 the new TIB -- another one, great. Adjustments 21 for lead aprons, you have factors you can use, 22 you have assumptions you can make. The zero 23 versus missing data assumptions. What we have 24 here is degrees of separation. Each time you 25 make an assumption, each time you use

1	reconstructed dose from another source, you're
2	getting further and further away from reality,
3	further and further away from your ability to
4	accurately construct dose.
5	The question is not can someday we accurately
6	reconstruct doses. The question is as of
7	February 15th, 2005 when this position (sic)
8	was submitted, could dose be accurately
9	reconstructed. And we believe the answer is
10	no. Dose reconstruction is flawed, no matter
11	how many band-aids NIOSH is willing to put in
12	place.
13	The site profile does not even still
14	acknowledge the D and D operations at the site.
15	Post-1995, none of the incidents, none of the
16	operations, none of that is taken into account
17	by the site profile. And I believe there's no
18	intentions to modify that. You saw the video.
19	That's the type of work these people were
20	involved in the last ten years, not production
21	operations.
22	The band-aids put in place are not not going
23	to heal the problem with dose reconstruction.
24	High-fired oxides and their effect on the human
25	body and how the body processes them is not

1 sufficiently studied to produce an accurate 2 TIB. Okay? And the TIB is not even approved 3 yet. This is a new phenomena (sic). In 2003 4 people said wow, we've got this new thing and 5 we're not really even sure what it is. It's 6 only three years later, and now we're going to 7 say we can accurately put together something 8 that's going to allow us to reconstruct dose? 9 The lead apron adjustment only works if the 10 worker knows that they had that issue and 11 reports it during their dose reconstruction. 12 Many people might not even think to mention it. 13 And also, this assumption that -- that lead 14 apron use was not very prevalent at Rocky Flats 15 is not true. During the clean-up operations 16 lead aprons were used in D and D residue 17 operations, thermostabilization and plutonium 18 packaging. But again, the site profile does 19 not account for any of those. 20 This issue of the zeroes on your dose records, 21 and I'm going to speak to this personally in a 22 little bit, are inconsistently used. And you 23 can cite that there's a procedure in place at 24 the site that says you're supposed to do it 25 this way, but practice and procedure are not

1 always the same thing. There's too many varied 2 situations in which a zero is entered onto a 3 person's dose record. 4 And -- and finally, the six cases that are 5 cited in the NIOSH evaluation report -- they used six cases and then applied it to 9,537 6 7 people. I'm not a statistics person, but that 8 doesn't seem like a very good population to be 9 basing assumptions from. 10 Okay. So now the other is that -- is that --11 as I mentioned, it's every time an issue comes 12 up, there's an answer. But there's lots of other issues that haven't even come up yet. 13 14 Our -- our NDA folks carried cans of plutonium 15 16 (Pause) 17 The NDA folks carried cans of plutonium under 18 The dosimeter's their arms, under the armpit. 19 on the front of their body. Okay? They're 20 getting exposure under their arm that's not 21 being measured by their dosimeter. 22 Workers working in lead-shielded gloveboxes, 23 their dosimeter is against the lead shielding. 24 Their face is against the plexiglass. The 25 plutonium is in front of their face.

1	And there's many others that haven't been
2	brought up. And the incentives for workers to
3	mask dose in order to remain in the areas of
4	job preference or higher earning potential,
5	NIOSH spent a lot of time on that, and this is
6	not an issue that we we want to say is an
7	issue of credibility for our work force. It's
8	a it's a reality when you have work that
9	requires you to wear a dosimeter and you're
10	approaching your level and you might get
11	relocated, that could become a factor in the
12	decisions you make on a day to day basis.
13	The third thing we want to bring up is the bias
14	of the data credibility of information
15	presented to the Board. There's a letter by
16	Congressman Hostettler regarding a a I
17	don't even know what it is. At Rocky Flats, he
18	says, a manager of health physics programs
19	prepared NIOSH's site profiles, TIBs, is
20	actively involved in the evaluation of an SEC
21	petition and that's our petition which
22	includes validation of the results used in his
23	previous work. We believe that that is a
24	conflict of interest. Individuals who have
25	testified against workers in Worker
1	Compensation hearings are serving key roles in
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2	the NIOSH process, and we believe that is a
3	conflict of interest. This results in
4	information that skewed the in has skewed the
5	interpretation of reality.
6	The government's own General Accounting Office
7	has identified conflict of interest as an
8	issue.
9	This gets to to my individual case, and I
10	want to clarify something. I, in my job at
11	Rocky Flats, probably did not have the
12	potential to get enough exposure that I would
13	ever file a claim, so this is not driven by my
14	personal desire to get compensated. This is
15	just to give an example, and the reason this
16	example is so good is because my dosimetry file
17	is probably like that thick. I only maybe have
18	three in there, incidents over time. I brought
19	up an issue where a dose reconstruction had to
20	be done because my dosimeter showed an
21	abnormally high reading, and the dosimetry
22	department did an investigation, asked me to
23	remember all the places I'd been for the
24	previous six months and who I'd been with.
25	But because of the nature of my job, I had been

1 into nearly every plutonium facility at Rocky 2 Flats during that six-month time period. Ιt 3 was impossible to ascertain the cause of that 4 exposure. And at the time I understood that. 5 And at the end of the -- of the evaluation and the investigation and construction, they 6 7 entered a zero on my dose record. And when I 8 got my report in the mail it showed zero. 9 Instead of recording the dose that my dosimeter 10 said, because we couldn't find the source of it 11 and they didn't believe the credibility of the 12 -- of the dosimetry reading, I got a zero. 13 This incident was brought to the attention on 14 one of the working group meetings and NIOSH 15 went off and pulled my records, and then later 16 reported to the Board on one of the only other 17 of the three incidents that I had in my history, about the time that I left my 18 19 dosimeter on my coveralls when I exited the 20 area and it ended up in the laundry basket. 21 Okay? That -- that is not the incident I was 22 talking about. And then they said that the 23 dose reconstruction was done based on that 24 incident, which I find very hard to believe 25 because I was never spoken to regarding that.

1 The dosimeter was left in the laundry basket on 2 my way out of a radiation area. My dosimeter 3 was with me the whole time I was in the 4 radiation area, so I fail to see the need for 5 the dose reconstruction in that incident. 6 And I just give that as an example. Ιt 7 highlights a bigger issue than that. 8 And the effects of closure, I kind of touched 9 on this earlier that it's interesting to me at 10 one hand that -- that we're hearing that all of 11 the records are readily available and that 12 there's no problem with the closure in terms of 13 the ability to do dose reconstruction, but in 14 the evaluation report NIOSH recommended that --15 that -- against the Special Exposure Cohort status, but then stated that it would take two 16 17 to four months to get the dose investigation 18 report that the petitioner suggested might be 19 helpful for this -- this petition. So on the 20 one hand they say they can get everything, and 21 on the other hand they say it will take too 22 long. 23 As -- I alluded earlier to the politics that 24 come into play, and I'm sure the Board is 25 feeling some of the pressures of -- of the

1 political situation. An OMB past back member 2 to the -- memo to the Department of Labor 3 outlines a plan to contain growth in benefits 4 from new Special Exposure Cohorts by requiring 5 administrative clearance before the Health and Human Services Secretary can make a decision, 6 7 and calls for a White House-led inter-Agency 8 task force to address any imbalance in the 9 Advisory Board's membership. In this context, 10 this appears to intend to tilt the Advisory 11 Board's composition against approval of Special 12 Exposure Cohorts. Now I -- I want to talk about what we thought 13 14 the law was asking us to do. We thought that 15 the law was asking us to prove that there was a 16 class of Rocky Flats workers that existed for 17 whom it was not feasible to accurately estimate 18 the radiation dose they received, and then to 19 show that they had had their health endangered 20 by their exposure to radiation. Number two it 21 appears everybody is in agreement with. Number 22 one is what -- what we're having issues with 23 here. 24 In terms of proof about it not being feasible 25 to accurately estimate dose, S. Cohen &

1 Associates' December 8th report says that the 2 Rocky Flats site profile falls short in fully 3 characterizing underlying issues that are 4 fundamental to die-- guiding dose 5 reconstruction. In terms of proof, the report also says a number of historical issues and 6 7 discrepancies cast doubt on the validity of 8 dose records being relied on for dose 9 reconstruction. The precise nature of super 10 class Y material is not known. Upper bound 11 doses from external gamma, neutron and beta 12 exposure are often underestimated, sometimes 13 considerably, particularly when doses are 14 reconstructed. 15 We believe just the fact alone that now these 16 new TIBs are being put in place that the site 17 profile's changing and not -- acknowledges the 18 fact that at the time we submitted the petition 19 dose could not be accurately reconstructed. 20 And we believe the situation will exist even 21 after those band-aids are put in place for the 22 reasons I mention -- mentioned before. 23 (Pause) 24 Members of our Colorado Congressional 25 delegation asked NIOSH not once, not twice, but

1 three times to grant our petition a fair and 2 timely review. U.S. Congress required NIOSH to 3 make a timely recommendation. NIOSH has not 4 complied on either account. It is obvious we 5 can no longer get a timely review. Now we are 6 asking the Board to ensure that we get a fair 7 one. Thank you. 8 DR. ZIEMER: Thank you very much. Tony, do you 9 have additional individuals to present? Thank 10 you. 11 MR. DEMAIORI: Thank you, Jennifer. Thank you, 12 members of the Board. The next person I'd like to introduce is Charlie Wolfe. Charlie. 13 14 MR. WOLFE: Can you hear me? Does it work? My 15 name is Charlie Wolfe. I was the project 16 manager from 1995 to 2000 at Rocky Flats in the 17 771 facility, and also I was a deputy project 18 manager when we tore down the first facility on 19 779. Previous to that I am a -- you got to 20 excuse me, sometimes I forget things. 1991 I 21 graduated with a chemical engineering degree 22 from Ohio State and an MBA. When I left school 23 I went to -- to Savannah River and worked 24 there. I worked in two of their plutonium 25 facilities, Pu-239 and Pu-238 facilities, for

1	the Cassini, so I've got been in the
2	facilities a lot.
3	One of the things that I did, and I'm sure the
4	Steelworkers will admit it, at every one of the
5	facilities I went to, I dressed out every day.
6	Okay? I put my masks on and I went out with
7	the people to see what they were doing. One of
8	the things I don't agree with right here is how
9	many of you people dressed out over the time
10	period and went through the facilities to see
11	what the workers actually did instead of doing
12	a paper analysis of what they did. That would
13	give you a lot of your answers, to see what
14	issues many of these people are talking about.
15	I've I was out there a few times. The
16	Steelworkers did a great job of helping people,
17	but there were a lot of cases where you took
18	off your yes, protective equipment and put
19	it out where somebody could see it, but you
20	never had an analysis of it. There were a lot
21	of times where you didn't have your badges in
22	the correct place where you could get it.
23	We found out I had my office in there, and
24	they found out after we were there, I don't
25	know, five years, six years, there was

1 radiation exposure in that facility and in the 2 office areas. I never had my TLDs on when I 3 was in those areas. I was in the office. My 4 TLDs were on when I walked through the facility 5 with the -- with the work force. 6 They -- at least as likely as not was what they put on my record in donation -- in -- what do 7 8 you call it, dosimetry and stuff. Okay? Well, 9 geez, I got a big hole in my head and I don't 10 see it as likely as not -- okay? -- from that 11 standpoint. And I sent several things back to 12 NIOSH, DOE and everybody else that it wasn't just radiation that was put in there, but there 13 14 was uptakes of plutonium and toxicity of that radiation is different. Plutonium has a 15 16 different radionucleide (sic) than just looking 17 at radiation. Okay? And people don't take 18 that into account, as well. 19 One of the things that the gentleman that was 20 speaking earlier said, well, yes, he was 21 talking -- said that radiation is one of the 22 reasons that people get cancer. Okay. I've 23 talked to a lot of doctors. It doesn't take 24 much. It doesn't take much. And you know, 25 that's one of the problems that I have.

1 They talk about NIOSH or -- records. One of 2 the records -- it took me over three months to 3 get this fixed because they had trouble finding 4 my job requirements for Rogers Iron Company. I 5 don't even know who Rogers Iron Company is. Okay? And that's one of the records that they 6 7 kept sending back to me over and over again for that company. I had no idea. So I don't know 8 9 how I can even trust, you know, some of the 10 other evaluations because of that. 11 I received -- I have at home, I couldn't carry 12 it. I got documents that are this high. They 13 sent information on where you were, what 14 radionucleide (sic) were you associated with --15 I mean it must have been 15 pages long. Like I 16 said, I'm a chemical engineer, but I was a 17 little bit -- had a hard time deciphering that 18 because of my injury. My wife is a chemical 19 engineer. Trying to go through that and find 20 out the information they were asking, it was 21 almost impossible for us to do it, so I don't 22 know what other people had to do in terms of 23 the Steelworkers and everything to do it. 24 My picture is up at the top there. The reason 25 is, like I said, I went through the facility

1 every day with my steelworkers. I went through 2 the facility when I was at Savannah River every 3 day. I know what they did. I know where they 4 were at. I know the issues that they had to --5 to fight. And it's not fair. I mean the 6 paperwork is incorrect on terms of where some of these people got their exposure, what types 7 8 of exposure, there are different areas in the 9 facility when you walk through that you can get 10 a higher level exposure. 11 When you got an inhalant -- I was in several 12 rooms that the alarms go off. Okay? So you're 13 inhaling something, potentially. And you get 14 outside of the room, if they find something you 15 take your anti-Cs off. But you don't go right 16 to the -- what do they call the -- the medical 17 to check to see if there's anything that you 18 inhaled or anything that could infect the top 19 of your head. 20 And I don't understand, you know, just sitting 21 there looking at pieces of paper and -- you 22 know, I know they're very intelligent people. 23 I have no problem with that. But understanding 24 what these guys went through, what people did, 25 what they were exposed to is unavailable if you

1 haven't walked through the facilities. 2 And I -- and I'll ask one -- one last question 3 because I can't remember half of what I wanted 4 to say, sorry. But the one thing is how many 5 of you in here -- it's -- it's too late now, Rocky Flats is gone -- not just taken a tour --6 7 okay? -- you know, there's the tours where they 8 dress you up and everybody feels real cool, you 9 know, walking through, but it's an area that 10 has been inspected, checked out and make sure 11 there -- there's absolutely no problems through 12 there. But how many of you put a mask on and watched -- sat in the room and watched the 13 14 workers in terms of taking care of pulling down 15 the facilities and what they had to do and what 16 was in those areas? You know, unless you've 17 done that, you don't understand it. And I don't think there's a lot of you that would 18 19 feel very comfortable, from this point on, if 20 you went and had to put a mask on and go in and 21 watch that. 22 That's about all I had to say. I think I had -23 - I can't write very straight anymore. I think 24 that's about -- most of the items. 25 Can you look real quick, Jennifer, and make

1	sure I covered everything?
2	(Pause)
3	Thank you very much for for listening to us.
4	I appreciate the time that you've spent. One
5	of the things I'm going to pass around 'cause I
6	don't I'm not technically able to put it
7	here, but I got plenty of them at home. But
8	this is what my brain tumor looked like. Okay?
9	And that's how much of my brain they had to
10	take out. All right? So I'm here because I've
11	seen these guys do a great job, and I think
12	they need to be compensated for the problems
13	that they have now because these guys, like the
14	movie, they are heroes. They fought the wars
15	that we didn't, just in a different way. And I
16	would like to applaud those guys for what they
17	did on the work, and I think you guys I hope
18	you guys will continue to look at this and
19	support these guys because they deserve it.
20	They did the work. They saved you guys from
21	not having to deal with things like this. And
22	thank you.
23	DR. ZIEMER: Thank you, Charlie.
24	MR. DEMAIORI: Thank you, Charlie. As our
25	next speaker will be Jerry Hardin. Jerry.

1 Jerry's past president of the United 2 Steelworkers three times, as Jerry'll take us 3 back, radiologically, into the Stone Age. 4 DR. ZIEMER: I get a lot of that, too, Jerry, 5 so --6 MR. HARDIN: It matches the appearance. 7 DR. ZIEMER: -- don't feel bad. 8 MR. DEMAIORI: Before I turn the mike over, 9 Jennifer has reminded me that, for a point of 10 record, Charlie has been denied on his third 11 claim. 12 DR. ZIEMER: Thank you. 13 MR. HARDIN: Good morning. My name is Jerry 14 Hardin, as Tony's already mentioned, and I hope 15 you won't hold the other information against 16 I worked at Rocky Flats for over 37 years. me. 17 Part of the time was as union president, 18 majority was as a radiation protection 19 technologist. 20 The thing that I'd like to do today is to poke 21 a few holes in some of the things that I've 22 overheard, you know, through the course of this 23 presentation this morning. 24 First off, I think you need to partition time 25 periods off in -- in regard to talking about

1 anything with Rocky Flats. Some things -- you 2 know, as this thing evolved -- got better, but 3 not everything. 4 Back when I first hired on, for instance, there 5 was virtually no gamma shielding on most of the dry boxes. That came about in 1968. 6 7 Ironically, some of that same shielding contributed to the cataclysm of 1969, which 8 9 we're about to celebrate the 37th anniversary 10 of, the worst industrial fire in U.S. history, 11 dollar-wise, to that point. 12 Now the reason I'm going to make some of these 13 statements is to merely emphasize that I don't 14 understand why Rocky Flats would be a problem 15 to you people at all. 16 The other thing that I wanted you to know, and 17 I don't know how familiar you are with the 18 floor plan of building 771, but I heard stories 19 about dose reconstruction today. But I want to 20 tell you, in room 114, in a distance of about 21 100 feet, you could go from extreme neutron 22 field to an extreme gamma field, the gamma 23 field being Line 1, which was the americium box 24 where the product was eventually bagged out and 25 sold. The neutron field was the labyrinth

1	shield for the hydrofluorination and the pink
2	cake. And I don't know how familiar you are
3	with pink cake, but according to the
4	instruments that I carried, neutrons flew all
5	over the place. So what I'm telling you is in
6	a distance of 100 feet or so you could have a
7	totally different picture of radiation dosage,
8	and I don't know how you could ever extrapolate
9	a worker's possible exposure based on on
10	that difficulty alone.
11	The other thing I would tell you is I carry a
12	36-rem body burden that I suspect is a product
13	of high-fired oxide. The reason that I have
14	that suspicion is because it didn't show on my
15	on urinalysis results for quite a while.
16	Those of you that are familiar with Langham's
17	Curve know that the excretion usually is very
18	significant at first and then it tapers off to
19	near nothing. The point that I'm trying to
20	make is that they never attributed my exposure
21	to anything particular, and all of a sudden I
22	showed up in 1988 and I lit up the clock. And
23	the reason that that's of concern to me is
24	because the evolution of the technology as well
25	as, you know, the way that they defend it.

1 The other thing I would tell you is that this 2 has been a -- a ongoing series of deceit and --3 and denial dating way back to my first 4 employment. We had a thing after the fire in 5 1969 where they denied the presence of tritium anywhere on site. Then all of a sudden some 6 7 fine fella decided that he would run a test and they discovered tritium in Great Western 8 9 Reservoir that sits west of -- of Broomfield. 10 The irony of that is, management denied the 11 presence of tritium anywhere on the plant site 12 until finally someone said hey, it was a site 13 We were -- we were ambushed. return. The reason that that's important to you is 14 15 because this is going to be a sequence of 16 denial and betrayal, in my opinion, of good 17 science as well as some of the information. 18 The thing that I would also try to point out to 19 you is dosimetry was sorely lacking. As it's 20 already been mentioned, neutron dosimetry was 21 virtually non-existent and there were 22 occurrences of black badges, certainly back in 23 the film days. June Malsik* was their -- was their sole technician to count the tracks, and 24 25 I think she's probably on to the big dry box in

1	the sky by now, but the point being is it was
2	primitive and everyone knew it.
3	The emphasis at that time was on KG of fissile
4	material out the door. It wasn't on good
5	health and good housekeeping practices. As a
6	rad tech, we tried to keep the walkways less
7	than about 1,500 counts per minute alpha. You
8	go any distance either side in building 71 and
9	you could find most any number that you chose
10	to to recognize.
11	Technology has improved over years and some of
12	it I think has been very useful to the workers.
13	Other things I think have been more useful to
14	the lawyers.
15	And the problem that I've got is access to the
16	records. The thing that you need to know is
17	that this management and this government agency
18	has not been very cooperative to anyone. And I
19	would wave this headline to everyone's
20	attention. This is a result of the infamous
21	Cook case, and these were landowners adjacent
22	to Rocky Flats. And initially the workers were
23	attempting to file a case that was somewhat
24	similar at the same time and our case was ruled
25	invalid due to the Workmen's Comp law that

exists in this state.

2	The federal judge came, had to threaten to cite
3	the contractor and DOE for contempt because
4	they didn't provide the records in a meaningful
5	and time timely manner. And the reason that
6	I bring this to your attention is how do you
7	think that a worker, especially now that the
8	plant is closed, is going to have access to
9	things that he thinks is necessary to support
10	his claim? And I suspect that it's going to be
11	extremely difficult.
12	In fact, just yesterday I talked to an attorney
13	named Bruce Duboski*. This name may not mean
14	anything to you, but Bruce was the successful
15	attorney on the four provable radiation death
16	cases that I'm aware of, that being Cromback*,
17	Gable, Shamper* and Downing. And Bruce told me
18	yesterday by telephone that he would be willing
19	to submit a statement to you people about the
20	difficulties he had in getting data to prove
21	these cases.
22	My purpose today is not to do anything other
23	than stimulate a little cross-talk and maybe a
24	cross-pollination of ideas. You've heard the
25	intellects, and I don't pretend to be one. But

1	I've certainly been involved in this process
2	for for the many years.
3	And now I'm going to have to throw a few
4	stones. This is you know, onions and
5	orchids. I have been through I don't know how
6	many of these hearings over the years. We had
7	the Ahern Committee, we had the Defense Board,
8	the tiger teams, and it goes on and on and on,
9	and yet the conclusions always seem to be about
10	the same from the workers' perspective, and
11	that's nowhere. And the thing I would ask you
12	to do is to to look at some of these
13	findings from these other groups. Most all of
14	them have detected problems. The GAO report
15	back many years ago on 371 building said hey,
16	that building's got big problems, and no one
17	did anything about it. And so the workers
18	continued to be assigned to those jobs. And
19	some of the problems were corrected, but not
20	all of them.
21	So you need to know that these things are a
22	matter of record. Seems like every time a new
23	group of you come to town we start with a clean
24	sheet of paper where we're forced to field our
25	complaints and whatever information we might

1 have, you know, to try to persuade you. 2 If you read today's newspaper, you people have 3 already pretty much made up your minds that 4 you're going to deny Rocky Flats the cohort 5 status. And that may not be your assessment of it, but I'm telling you -- just being on the 6 7 outside looking in -- that was mine after 8 reading that article. I hope that that doesn't 9 prove to be the case. 10 Now in regard to some of the other health 11 issues, I don't know if you're familiar with 12 the brain cancer report from about 20 years ago 13 by Greg Wilkinson* who worked on George 14 Boltz*'s staff out of Los Alamos. And the 15 state health department also conducted a study 16 at the same time, and they concluded that there 17 was a higher incidence of brain tumors and brain cancers in Rocky Flats workers, but 18 19 nothing ever came out of it that I was aware of 20 as far as a remedy. The problem that we have 21 are all these loose ends. 22 In regard to the documentation, I don't know if 23 you people remember Hazel O'Leary, but she was 24 the Secretary of Energy. And when she made the 25 public disclosure of how much plutonium the

1 U.S. had, she said there was approximately 100 2 tons. And she also made a comment that there 3 could have been three tons in residence at 4 Rocky Flats that didn't show on the inventory 5 or on any floor plan. Now think about that. That's a strategic material of unknown value 6 7 that no one knew the whereabouts of. Now we're 8 talking potentially, for health effects -- oh, 9 I don't know what magnitude down from that, but 10 a very small amount, so if you've got three 11 tons that you don't know about, it isn't 12 unreasonable to say some of these workers probably got some of that, too. And as I 13 14 already confessed to you, I carry some of it in 15 my body, and it isn't for sale -- at least at 16 the moment, but -- subject to negotiation, 17 though. So you know, my purpose is not necessarily to 18 19 amuse you, but to -- to again stimulate a 20 thought process that seems to be sorely 21 lacking. 22 I was a local union president back in 1985, and 23 that was where the first case of berylliosis 24 was detected. And prior to that we had nothing 25 but denials and -- and, you know,

1 incriminations about beryllium. The records 2 were very poor. All of a sudden beryllium 3 turned into be an emotional thing, you know, 4 worthy of the National Enquirer, which it still 5 is -- and I'm not trying to belittle it, I'm 6 merely trying to put perspective to it. We were a plutonium laundering facility. 7 8 Beryllium was merely a sideline. 9 The other thing that I was disturbed about in 10 the course of this thing is virtually no 11 mention of the solvents and other chemicals. 12 We were the biggest users of carbon 13 tetrachloride in the entire country. We had 14 over 20,000 gallons of it in residence in 15 tankage. And I don't know your recollection of 16 carbon tet exposures, but it isn't a good 17 thing. Private industry got out of that 18 business years ago. We had it at Rocky Flats 19 until the day they finally said hey, the W-88's 20 dead; we're not going to do these things 21 anymore. So you need to be aware that the list 22 of potential contaminants and exposures is 23 long. 24 The other thing I wanted you aware of, and I 25 don't know the records because I was a worker.

1 I wasn't up in the Mahogany Row. I don't know 2 the records. Building 771 was closed down in 3 the springtime of 1968 due to a project that we 4 were involved in with the United Kingdom called 5 Zipper. Zipper burned all of us out. Thev 6 closed the building down. Ironically, they moved me to area 903, the 7 8 barrel pad. Again, management and DOE didn't 9 answer to anyone because we were under the 10 Atomic Energy Act of 19-- whatever it was, '42 11 or whatever, and so they had barrels of 12 plutonium-contaminated lathe coolant there, and 13 this was out in the open. The barrels were 14 stacked, you know, all over that parcel of 15 land. 16 And the reason that that's important is because 17 it reinforces what I've asked you to do 18 earlier, and that is partition time -- time off 19 in -- in the 50-some-year history of Rocky 20 Flats. We didn't always do the same things 21 over that period of time. Some things 22 improved, but not everything. The only thing 23 that has been consistent is the denial and the 24 ordeal, especially as individuals trying to 25 prove a claim. And that's why I would again

1 make the offer -- in fact, I would virtually 2 insist that you allow me to get Duboski to give 3 you this statement about his difficulties in 4 gathering information to pursue these cases 5 through the compensation process. The important thing is not necessarily listen 6 7 to my war stories, but to try to flesh out some 8 of the things that you may have already heard. 9 I'm very concerned about the workers. I've 10 seen the contractor get an alleged bonus of 11 \$450 million net. I have yet to see a group of 12 workers come anywhere close. These landowners 13 possibly, if they go into the year 3000, might 14 get some part of that. If you remember -- like 15 for now, their settlement was \$75 million and 16 the attorneys took a third of it, so the reason 17 I'm telling you this is because it seems like 18 we're more inclined to litigate things until 19 the complainants die than we are in trying to 20 satisfy legitimate claims. 21 I would ask your indulgence, and I don't know 22 your time line, but the stories go on and on. 23 But the thing that I would tell you is the 24 record-keeping has been very poor, very spotty. 25 I would use my personal example of my lung

1 burden that I've already confessed to you. And 2 it depended on which body -- or lung burden --3 hello -- lung count cell that they counted me 4 in as to what the numbers were. I made an 5 offer one day that they would just count me back to back in different cells and see how 6 7 those results correlated. They refused. It 8 was always a puzzle to me how my numbers were 9 quite a bit different from one to the other, 10 and I realize the randomness of radiation 11 decay. But I also understand that it's very 12 important for a worker to have reasonably accurate records. There were times in my 13 14 career when they gave me credit for -- like a 15 ring dosimeter or something that I didn't even 16 have access to, much less any need for. I was 17 not a hands-on worker most of the time. Ι 18 carried the radiation instruments. 19 So the point being is some of the data is 20 erroneous. I don't know how you would ever 21 extrapolate a person's dose. As I've already 22 mentioned, just a matter of a few feet could 23 make a world of difference as to -- to the 24 nuclides as well as the forms of emission that 25 were generated.

1 Again, always keep in mind that the contractor 2 got a bonus for KGs of material out the door --3 or units or pits or whatever you choose to --4 to use today. The emphasis was moving the 5 merchandise. The workers were merely an implement to do that. 6 7 So I think I've probably bored you to death at 8 this point, and I hope you don't wait till our 9 deaths before you satisfy some of our concerns. 10 So thank you, and I appreciate the opportunity 11 to vent my -- my anger. Yes, thank you. 12 DR. ZIEMER: Yes, thank you, Jerry. We'll go 13 back to Tony now. 14 MR. DEMAIORI: Great. Thank you, Jerry. For 15 my final speaker I'd like Don Sabec. Don. 16 To give you a little history, Don Sabec was a 17 Steelworker that's very fond to us all as when 18 Don retired he was number one on the seniority 19 list at Rocky Flats. Don has over 42 years out 20 of the 50 years of Rocky Flats. Don. 21 MR. SABEC: Hi. Is this thing working? Okay. 22 I've just got about three things I'd like to 23 discuss. I'm not going to try and outdo Jerry 24 Hardin 'cause he's got a very good memory for a 25 lot of this stuff. Him and I worked together

for quite a few years.

2	I'd like to emphasize on Charlie's statement of
3	entering the area. I personally walked with
4	him several times taking visitors through the
5	771 complex, and he did every day come back in
6	the area, not unless he was required to be in a
7	meeting and I don't remember too many of
8	those but he did come back in the area. And
9	if we were in there working, doing break-outs,
10	whatever we were doing, he'd be back there
11	asking us, you know, is there anything I can do
12	to help, do you need anything. And most of the
13	time we you know, just say no, thanks,
14	appreciate it.
14 15	appreciate it. But anyway, one of my concerns is the the
14 15 16	appreciate it. But anyway, one of my concerns is the the record-keeping. I worked in progression
14 15 16 17	appreciate it. But anyway, one of my concerns is the the record-keeping. I worked in progression committee for about a year, and we were in a
14 15 16 17 18	appreciate it. But anyway, one of my concerns is the the record-keeping. I worked in progression committee for about a year, and we were in a trailer up by the union office. And one day we
14 15 16 17 18 19	appreciate it. But anyway, one of my concerns is the the record-keeping. I worked in progression committee for about a year, and we were in a trailer up by the union office. And one day we come to work Monday morning and our trailer had
14 15 16 17 18 19 20	appreciate it. But anyway, one of my concerns is the the record-keeping. I worked in progression committee for about a year, and we were in a trailer up by the union office. And one day we come to work Monday morning and our trailer had had our our equipment had been moved
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1 being as the curious nature that RCTs are 2 supposed to be, we started looking into these 3 boxes. They weren't sealed or anything. And 4 they were original records from the buildings 5 that they -- they kept in the buildings, and 6 they were put in these boxes. And we got to 7 looking through them, some of them were 8 personal records of exposures, others were 9 surveys of radiation for areas, contamination. 10 Mainly that's what they were was -- was 11 records, but they had never made it up to the 12 hist -- program part where they would put it 13 into the computer. And this was during a GAO 14 audit that these records were put in there. 15 Those auditors had never come into our -- our 16 trailer to look at these -- these surveys and 17 documents. They were there for approximately 18 three to four weeks. 19 After the audit was over with we come back to 20 work again one Monday morning and the -- and 21 the boxes were gone. Three or four days later, 22 as the truck driver was delivering water --23 'cause we had bottled water in the trailer -- I 24 was talking to him about all these records. I 25 said do you -- do you guys know what happened

1 to these records? He says oh, yeah, we were 2 called in Sunday to put them in trucks and we 3 took them up and they were deemed no longer 4 necessary and we dumped them in the landfill. 5 That was one of the reasons at the Broomfield meetings I asked that they go back to those 6 7 landfills and look for records and 8 contamination 'cause I'm sure -- I know there 9 was in all probability some contamination put 10 in our landfill. 11 Enough said about that. The second issue is --12 is that -- is the lead aprons. When we first 13 started this lead apron for mainly bag-outs at the radiation areas where you're going to have 14 15 the frontal assault, we had to wear our badges 16 on the insides. Some period down the road they 17 decided that wasn't right, we needed to put them on the outside for the lens of the eye, 18 19 and they would calculate the body exposure by a 20 formula they'd come up with. And I went to my 21 rad engineer and I asked him, I says why aren't 22 we using the -- we had the TLDs then -- or the 23 TLD on the inside to confirm that your -- your 24 methods are right and the badge on the outside 25 -- I know there's other facilities that have

1	done this. I've talked to the facilities that
2	wore badges inside and out.
3	I'm trying to think of what my third issue was.
4	Again, giving you an can't remember.
5	(Pause)
6	Anyway, my well, my dose records that was
7	it, the I I have personally got a dose of
8	113 rem for my lifetime exposure. Nothing is
9	wrong with me yet that I know of I mean
10	other than the fact that I'm not the overly-
11	intelligent individual, but I I myself I
12	talked to the individual that talked up here
13	about the dose reconstruction and I I cannot
14	believe that you people can accurately get a
15	dose reconstruction done, as what Jerry Hardin
16	was talking about. I worked in Building 771
17	the majority of the time I was out there, and
18	you can go from one job to the next to the next
19	job and in three days you could have ten
20	different jobs from high high photons to
21	neutrons. I was there before they even had the
22	gamma or the neutron shielding and they my
23	dose reconstruction, after I'd been out there
24	about 30 years or so, they did a dose
25	reconstruction. They added 35 rem to my

1 exposure at the time and I'd already received a 2 50 rem lung exposure, and they don't know -- I 3 assume it was the high-fired oxide because we 4 have no idea where I got it from. They asked me where I'd been and I told them look, I --5 6 and then we're only doing the yearly body counts, and that's when they found my lung 7 8 exposure and it -- it -- it's there, there's no 9 doubt about that. 10 But about eight years before I retired I 11 requested a copy of all my radiation exposure 12 records, and I ended up getting my medical 13 records. There's no radiation records in--14 whatsoever involved. When I retired in 2004, 15 June -- end of June, I did a formal request of 16 my radiation records to be sent to me. And by 17 the end of this coming June it'll be two years 18 and I haven't received anything yet on my 19 radiation records, and I'm just wondering if 20 I'm going to have to start doing out-of-pocket money to pay \$40 an hour and ten cents a copy 21 22 for something that I requested two different 23 times that legally is -- should be mine for no 24 charge whatsoever, and I should have them now 25 but I don't.

1 What I don't understand is how you people can 2 get to my records 'cause the individual talked 3 about it remembers doing my dose 4 recalculations. Obviously he has all of my --5 my radiation records, but I can't get them. 6 Now why is that? Can -- can you tell me why 7 you people, when I signed the petition that you 8 could get to my records but Rocky -- Rocky 9 Flats cannot give me my own records. There's 10 something wrong with this picture. 11 So with that, I appreciate your indulgence, and 12 I hope you can really see the true picture 13 that's happening out at Rocky Flats and help 14 these people that really need it. Thank you. 15 DR. ZIEMER: Thank you. 16 MR. DEMAIORI: Thank you, Don. Thank you, Dr. 17 Wade, Dr. Ziemer, members of the Board. As to 18 wrap this up for the United Steelworkers Local 19 8031, the petitioners, I'd like to say a couple 20 of things. As one, due to the delays from 21 NIOSH, United Steelworkers no longer have the 22 ability to defend this petition as we don't 23 have the right to represent, the workers are 24 gone. They're no longer dues-paying members. 25 We don't have the ability to pull records.

1 Under our collective bargaining agreement, we 2 have 14 days guaranteed by our employer to get 3 any records -- dosimetry, medical, whatever. Now it's a minimum of six months per person, if 4 5 you can get the records at all. What we're 6 experiencing from the Department of Energy 7 pulling records is please be more specific. We 8 get that from NIOSH, please be more specific. 9 As we've been severely handicapped in our 10 ability due to the timeliness of this 11 partition; as we no longer have the financial 12 funding, we don't have the ability to pull the 13 records -- in fact, we can't even find half of 14 our people as we've been dispersed all across 15 the country; as three people are on this 16 petition, two of them are not present here 17 today, one's working in New York, the other 18 one's working in Denver trying to feed his 19 family. I almost wasn't here myself. I almost 20 got a job last week, so -- so you know, seriously, what I'm telling you is I'm happy to 21 22 hear that NIOSH and DOE doesn't have any post-23 closure problems. But the United Steelworkers, 24 we do, as we have a lot of post-closure 25 problems, and we can't adequately do this. So

1 we have to rely on Sanford Cohen & Associates 2 to pick up the ball for us. We -- we don't 3 have any other choice as -- and so at this 4 point in time I would please ask the Board to 5 consider delaying this petition until SCA has 6 the opportunity to make a complete evaluation 7 on our behalf because we no longer have the 8 ability to do that as -- I have reduced that to 9 writing and I will provide it to all the Board 10 members. Thank you very much. 11 Thank you very much. DR. ZIEMER: Now let me 12 sketch out a little bit here, we -- we have yet 13 to hear from our own workgroup that's been 14 working with NIOSH and working with our own 15 contractor, SC&A. And we also need some 16 additional time for Board discussion. It now 17 is past the noon hour. And Mark, I think --Mark headed up the workgroup. I think probably 18 19 it would be -- well, let me ask it this way 20 'cause I know many of the Rocky -- Rocky Fork -21 - Rocky -- I say Rocky Fork because my wife and 22 I vacation in a place called Rocky Fork -- but 23 Rocky Flats -- Rocky Flats people here may not 24 wish to hang around too long. So Mark, how 25 long would the workgroup report require?

1 MR. GRIFFON: I mean I -- I can probably 2 summarize in 15 minutes or so. I think we do 3 want to make DR. ZIEMER: But then we still need some --4 5 MR. GRIFFON: -- to continue work. 6 DR. ZIEMER: We also need time for discussion, 7 too. Right. Maybe you can give us a quick 8 bottom line of what the workgroup's -- what you 9 think the recommendation is going to be and 10 then we'll hear the full report. That might be 11 helpful. 12 WORK GROUP REPORT, MR. MARK GRIFFON, CHAIR MR. GRIFFON: Yeah, I -- I think the 13 14 recommendation for -- for Rocky Flats -- SC&A 15 hasn't even completed, as they said in their 16 presentation, a review of the petition, so at 17 this point we're recommending to continue the 18 workgroup process and work on these issues. Ι 19 think the understanding is that the data 20 integrity and reliability is -- is the most 21 outstanding issue that we have to try to 22 investigate further. I think Brant also 23 acknowledged that. So I think everybody's sort 24 of in agreement on that, but I think that's our 25 -- our recommendation from the workgroup.

1 **DR. ZIEMER:** So this is at this point given as 2 a report rather than a formal motion, but what 3 it would say is that the Board would anticipate 4 receiving from the workgroup a formal motion to 5 postpone action on the petition until the work 6 of our contractor can be completed. And that -7 - that recommendation probably is -- seems to 8 me is in alignment with the request of the 9 petitioner, also. So -- and -- and let me 10 suggest then that we take our lunch break. We 11 will reconvene as close as we can to 1:00 12 o'clock, receive the full workgroup report, 13 have an opportunity for the formal motion at 14 that time and opportunity for additional Board discussion. 15 16 So without objection, let us recess for lunch 17 for --18 MR. PRESLEY: Hey, Paul --19 DR. ZIEMER: -- about an hour and see if we can 20 conclude. Hang on just a moment. Bob Presley 21 on the phone. 22 MR. PRESLEY: Hey, Paul? 23 DR. ZIEMER: Yes, Bob. 24 MR. PRESLEY: Can you call me here at home? 25 DR. ZIEMER: Okay. You mean before the
session?

2	MR. PRESLEY: Yes, if you don't mind. I need
3	to talk to you before this next session
4	DR. ZIEMER: Okay.
5	MR. PRESLEY: and I'll be here until 3:00
6	o'clock my time, which will be 1:00 o'clock
7	your all's time.
8	DR. ZIEMER: Okay. Thank you very much. He's
9	probably going to tell us a vote.
10	Okay. Thank you. We're in recess till 1:00
11	o'clock.
12	(Whereupon, a recess was taken from 12:05 p.m.
13	to 1:15 p.m.)
14	DR. ZIEMER: We're ready to resume our
15	afternoon session now, continuing the agenda
16	item on the Special Exposure Cohort petition
17	for the Rocky Flats site. And we now will hear
18	officially from the leader of our workgroup,
19	Mark Griffon.
20	MR. GRIFFON: And I'm I'm going to keep this
21	fairly brief 'cause I think a lot of the points
22	have have been touched on in the earlier
23	presentations, but I do want to kind of say
24	where the workgroup is and and what our next
25	steps are. As you remember, before lunch we

1	already sort of gave our recommendation that
2	we're planning on continuing our workgroup
3	work, that we're not prepared to make a
4	recommendation today on on voting on the SEC
5	evaluation report, so we would put off any vote
6	on the we will recommend putting off any
7	vote on the SEC evaluation report before us,
8	but that we're going to continue to work on the
9	on the outstanding issues that we've been
10	working on on the workgroup. And I just wanted
11	to summarize, from the workgroup's perspective,
12	sort of where we are.
13	I did want to point out the time line, and it's
14	much the same as I said yesterday in the Y-12
15	report, for those of you who were here. The
16	time line on this thing we we to
17	condense down the time line, it started much
18	earlier, but from April 7th on is kind of where
19	we we first received the SEC evaluation
20	report, and given the timing here, SC&A working
21	with the Board, we made a decision on the
22	workgroup to prioritize Y-12 at the time and
23	and have SC&A complete their review report,
24	given that that we had about a week, we said
25	focus your efforts on Y-12; there's no way you

1	can do two of these reports in one week or so.
2	Focus on Y-12 and and we'll hold off on
3	Rocky Flats. And part of the reason we did
4	that, part of the rationale, was we felt there
5	were more outstanding items for Rocky anyway
6	and we didn't think we were going to be able to
7	come to to close on those. So we you
8	know, as as Joe Fitzgerald from SC&A
9	acknowledged earlier, SC&A has not yet done a
10	review report of NIOSH's proposed SEC
11	evaluation report
12	MR. PRESLEY: Paul
13	MR. GRIFFON: so we're that that will
14	be the next step for SC&A is to take on that
15	review of that evaluation report and and
16	move forward that way.
17	In the workgroup discussions we did you
18	know, the the priority things that were
19	that were remaining on our list we started
20	as a site profile review. We narrowed our
21	focus to what we thought were SEC, Special
22	Exposure Cohort, issues. And we ended up with
23	sort of some internal is dose issues, some
24	external dose issues and a lot of discussion on
25	data validation and data integrity. And I'll

1	just summarize some of those points.
2	For the internal dose issues, you heard earlier
3	some discussion on this super S issues. I
4	think where we're at on that is we have a
5	Technical Information Bulletin from NIOSH.
6	SC&A has certainly done preliminary review on
7	that. I think it it's it from from
8	the current analysis, it looks as though the
9	model is claimant-favorable. I think there's a
10	few things to further button up on that
11	analysis. I think both NIOSH and SC&A agree
12	with that. The systemic organ mod approach
13	still needs to be reviewed further.
14	The second thing the other thing I will add
15	on that is that I think that we just received
16	some of the specific case data to support the
17	TIB, and I think that SC&A's analysis thus far
18	has focused on the data in the TIB going
19	forward. And I would ask that that they
20	consider the specific case data used in the TIB
21	and just do at least do a review of that
22	data to to make sure that it has been
23	independently looked at. And part of the
24	rationale for this is that much of this
25	analysis was done by the contractor coming

1 forward, and that -- that came up pretty 2 clearly in the Board meetings, so I think to 3 the extent we can take an independent look at that, it -- it is worthwhile. 4 5 But super S I -- I believe is -- is -- we're -we're fairly far along on that question. 6 7 The americium -- I think the remaining -- the -8 - the primary remaining issue on the americium 9 is in -- during our discussions americium 10 separation was identified as a separate 11 operation, and although I think we've heard 12 responses from NIOSH and it sounds like they 13 have, at least from what we've heard on the 14 workgroup calls, a claimant-favorable approach 15 which basically would be during certain years 16 of operation they would only have gross alpha 17 counting data and they've indicated that in 18 those cases they would just basically assume 19 the worst case radionuclide, whether it be 20 americium or plutonium, and assume the worst 21 case in either scenario and move the claim that 22 way, so -- but we haven't specifically seen 23 that sort of protocol laid out, so that -- but 24 again, I think that's close to resolved, but we 25 want to cross the Ts, so to speak.

1	For the internal dose coworker model and
2	this is OTIB-38, if you're following all these
3	Technical Information Bulletins again, on
4	on this I think NIOSH indicated that very few
5	individuals within the number of claimants will
6	will be will require coworker type
7	analysis. I think we still wanted to just take
8	one final look at the way that TIB is used.
9	One question in in the TIB they talk about
10	monitored they talk about unmonitored, and
11	if and if they determine that individual's
12	unmonitored, they may assign environmental air
13	sam may assign their dose based on
14	environmental air sampling, depending on the
15	job title. And then they have another category
16	where where they determine unmonitored but
17	should have been monitored, based on job
18	assignments. And I guess that that needs
19	maybe a little more investigation on SC&A and -
20	- and the workgroup's part. It just just as
21	as to how they determine how they're
22	going to make those determinations. But again,
23	I I think you know, and part of part
24	of my sort of wanting to take that a little
25	further is just to make make clear in my

1 mind that the coworker model is going to be of 2 very limited use, as well. So I think we want 3 to explore both factors further. I think 4 Brant's pretty confident with the -- the 5 minimal use on the coworker model. Brant from -- Brant Ulsh from NIOSH is. So if that's the 6 7 case, it -- it may be a smaller issue, but I 8 think we want to take it to the end. 9 On the external dose side, as NIOSH mentioned 10 earlier and -- and addressed some of my 11 questions, but the neutron dose assignment has 12 been a -- a lot of the dialogue on the 13 workgroup, and I guess part of the -- in -- in 14 preparing for this meeting, I had to step back 15 for a second 'cause on the workgroup we ended 16 up getting into very specific time-specific 17 issues, and the responses by NIOSH were related 18 to that particular issue. And when I stepped 19 back, it was clear that in -- and this is in 20 OTIB-50 -- it's clear that they -- for 21 different periods of time, there's -- there's 22 different sort of approaches that are being 23 used, and I -- I -- it was in-- instructive, 24 for me at least, to step back and see how this 25 worked. One -- so there's still some remaining

1 questions on the coworker model and exactly how 2 -- or -- or whether -- I don't think NIOSH 3 would characterize it necessarily as a coworker 4 model, but it's clear that on certain time 5 periods -- for instance, '70 to '76 appears to be a time period where the data available to 6 7 NIOSH have penetrating data rolled all into one 8 field and -- and for purposes of doing -- doing 9 their assessment, NIOSH needs to separate out 10 neutron and gamma. And to separate that out 11 they've -- they've -- they've calculated 12 neutron to photon ratios from the period of '77 to '88 and -- and sort of back-calculated or 13 14 deconvoluted the numbers to get the neutron 15 dose and the photon dose separated. So you can 16 see there's -- there's different time periods 17 where they're doing different things, and I 18 think we would -- we just want to make sure 19 that we've looked -- looked one final time at 20 this coworker model and make sure it makes 21 sense and -- and make -- and -- you 22 know, they -- I guess there's only one other 23 issue that I should bring on the table with the 24 -- the earlier period data relies on the NDRP 25 report data, and this is the Neutron Dose

1 Reconstruction Project data, and that project 2 was done by the contractor at DOE at the time. 3 And so -- so that's the other reason we want to 4 make sure we explore this neutron data 5 thoroughly and make sure it's valid and verify it. And that's why we're going through this 6 7 process is because an independent review is essential here, we think. But also the NDRP 8 9 data -- and the petitioner brought this up in 10 their petition and we've -- we've looked into 11 this a little bit, but the -- the data was --12 was -- or that report acknowledged that during 13 the NTA film period when they were monitoring 14 neutrons with NTA film, they were -- the 15 protocol indicated that they were monitoring 16 the most highly exposed workers. The NDA --17 NDRP report acknowledged that in fact they --18 they didn't monitor many of the workers in 771, 19 which had one of the highest potentials for 20 neutron exposures. So I think that's another 21 issue we want to look into is that those 771 22 workers I think were assigned neutron dose 23 data, and yet in another way I think they were 24 assigned based on their photon dose reading, 25 corrected with a neutron to photon ratio

1 specific to 771 building. So I know that it's 2 after lunch and this is probably making a lot 3 of people gloss over, but these -- these 4 details and the different time periods we want 5 to really understand and make sure that it all fits together and it's a correct and fair way 6 7 to do this. So we need to spend a little more 8 time on OTIB-50 is the bottom line on -- on the 9 neutron dose data. 10 And the -- the only other -- there's one other 11 external coworker model, which we haven't 12 discussed a great deal on -- on the workgroup, 13 but OTIB-58 now, I think it's a draft OTIB-58, 14 and -- and I guess the same question arises 15 there on the -- I think there's three 16 categories again, and the -- for the 17 unmonitored they make a distinction of -- of 18 assigning environmental doses to certain 19 workers based on job assignments, and then 20 assigning sort of a mean of the -- or a median 21 of the distribution for workers that were 22 unmonitored but should have been monitored 23 based on their job titles. And again, I think 24 we -- we just want to understand exactly how 25 are you going to -- how is this defined, how is

1	this determined. And part of the rea I I
2	think you know, part of the reason for
3	exploring that a little further is, quite
4	frankly, some of the comments made last night
5	that, you know, some of the administrative
6	people even were indicating that they were on
7	and off badges, at least from from what I
8	gathered in in public comment last night,
9	that they were taken off the badge program and
10	then they realized that from changes in storage
11	situations of drums, all of a sudden a couple
12	of cycles later they were asked to wear a badge
13	and you know, so some of these questions
14	come up that normally you'd probably say, you
15	know, well, the person worked as a secretary
16	for the ten years in the '90s, you know, we
17	would consider just applying environmental
18	dose, but may you know, maybe there's a
19	qualifier there. Maybe there's a you know,
20	a further consideration there that needs to be
21	given, so we want to at least walk that walk
22	that through and make sure that's a a fair
23	way to model it.
24	And then the last and and primary issue, I
25	guess, is the data validation and and data

1	integrity. We we did NIOSH did look into
2	the reliability of the database question on
3	both sides, the internal dose and the external
4	dose data. And NIOSH presented some of their
5	statistics earlier. I I do and we did
6	get these reports and and I think they're
7	included in the evaluation report, but this has
8	all come to SC&A and the workgroup at a at a
9	you know, and I know it's no fault of
10	NIOSH's 'cause everybody's on the the crunch
11	here to get these things produced, but we got
12	this very very recently, so I don't think
13	SC&A has fully considered this, and neither has
14	the workgroup.
15	The the one thing that I would say on the
16	on the external side is that or or
17	actually actually for both. I'm I'm not
18	even sure on the how these databases
19	separate out, but when part of the reason we
20	want to look into this further is that it
21	it's unclear to me it's probably much more -
22	- clearer to NIOSH. It's unclear to me when
23	they compared raw data out of the claim files
24	with the database versus when they had database
25	printout data within a claimant's file and

1 compared that. And I know Brant did break that 2 down, but we really haven't -- as a workgroup 3 or SC&A hasn't really teased that apart and 4 looked into that. I think we're much more 5 interested in how the raw data compares with the electronic database than -- you know, 6 7 printout data from the database we would expect 8 has a pretty good match to the database itself. 9 It's -- or else there's a -- there's some real 10 problems. Now I know there were different 11 databases so that -- you know, still might want 12 to look into that, but the main concern here I 13 think is comparing raw data, as best we can 14 find it and locate it, with the electronic data 15 records. And it's -- in this case, I think 16 it's -- in some of the workgroup discussions I 17 think the -- this -- this issue has been a 18 little bit sidelined, in my opinion, because of 19 the fact -- at least the stated fact by NIOSH 20 that there's limited reliance on a coworker 21 model. But I've -- I've stated in the 22 workgroup and I'll state here that, you know, I 23 think it's important, for those other reasons 24 I've stated is that in the claimant's files 25 oftentimes you see database data, not raw data.

1	So when they say they're relying on the
2	claimant's file and they have data in the
3	claimant's files, I don't think it's always the
4	raw like the card data or the the
5	original record. It's actually a printout from
6	a database, so we still want to validate that
7	database that's, you know so I think there's
8	there's you know, the reason for doing
9	that is not only to validate the coworker
10	models but also to validate that the data in
11	the claimant's files matches any raw any
12	the original raw records.
13	And then the last part of the data valid is
14	actually the data integrity, and I think NIOSH
15	in their presentation acknowledged and I
16	didn't do a count on this, but it's some 17 or
17	so issues in our matrix that we have developed
18	that that are around that issue of data
19	integrity. And we think that we we need to
20	track them back to ground, to the and as I
21	said, I think yesterday to the extent we
22	can, and we on the workgroup understand that
23	that sometimes this may lead to inconclusive
24	sort of finding and my examp I don't if
25	everybody was here yesterday, but the example I

1 used is that some people indicated -- or at 2 least one of the cases indicated that they had 3 certain quarters where they knew they were in a 4 high area and their dose of record was zero or -- or said no data available. And -- and they 5 gave specific dates and everything, so we said 6 7 well, let's -- let's track this back and see 8 what we get. Well, when you track back, the 9 individual did have dose records, but they had 10 zeroes for those quarters of concern. Now you 11 could -- you know, so you wonder well, can we 12 track back anything else to that, and that's 13 where SC&A has indicated there might be -- and 14 I think interviewing some of the petitioners, 15 they've indicated there may be some logbooks 16 and other things that have some more data, 17 possibly including secondary dosimetry like 18 photo-ionization detectors that they would 19 wear, but not turn in -- it's not your badge, 20 it's a -- it's a direct reading of what you 21 were exposed that day or -- or -- and you often turn it in daily, and those logs might have 22 23 that information. Or they might have survey 24 data or, you know, other information. 25 In the case where it -- they track back and

1 they find survey data, it may still be a little 2 inconclusive, so what we're saying, to the 3 extent we can, we want to take this to ground, 4 but we're going to try to find some of these 5 logbooks and other things and -- and resolve this. And I think that's two -- for two 6 7 concerns. One is the specific allegation at 8 hand, and then the other issue on data 9 integrity is the broader question of -- of are 10 there systemic problems here. And I think 11 NIOSH has offered some preliminary analysis, 12 and they've also pointed out the limitations of that analysis. I think we want to -- we need 13 14 to further check that and -- and possibly --15 there might be different ways and we can work 16 with SC&A and NIOSH on maybe different ways of 17 looking at this question of systemic problems 18 with data integrity, possibly not looking at 19 the overall population, but a lot of these 20 allegations are made with higher areas and the 21 workers that were in the higher areas, so there 22 may be some ways to look at a subset of the --23 of the dosimetry data to do some sort of 24 analysis on that and see if there's any 25 systemic problems.

1 The other thing that comes out on the question 2 of sort of systemic problems is, as we've heard 3 from -- from petitioners on the workgroup calls 4 and we've also heard last night, a lot of the 5 specific testimony that we're hearing is from the D and D portion of Rocky Flats operations. 6 7 And I think that that's one thing -- I think 8 this is a -- maybe -- maybe force of habit, but 9 you know, we tend to look at the oldest parts 10 of the operations, especially with regard to 11 highest exposures and potential concerns about 12 records not being available or et cetera. But 13 I think we -- we might want to als-- we -- we 14 have to make sure, I think, that we address 15 this D and D portion of the operations and the 16 D and D workers, and especially where the --17 the petition goes through the current time 18 period, so it would cover all those D and D 19 workers. And you know, one concern there I 20 quess that -- that we've heard from last night 21 was that a lot of the urinalysis programs were 22 -- were modified significantly and they went --23 they've relied more on -- on -- on breathing 24 zone air sampling, DAC -- sort of DAC hour 25 analysis rather than relying on urinalysis

1 programs, so it might be a -- you know, we 2 might want to consider how exactly they're 3 being treated. And -- and their data integrity 4 questions that arise under that separate sort 5 of population of workers, the D and D workers, 6 so --7 Finally I think -- I -- I might get the number 8 wrong, Brant, if I'm wrong -- I think there 9 were six example DRs provided. 10 DR. ULSH: Yeah, that's right. 11 MR. GRIFFON: Is that right? So we have six --12 six examples that were provided, and -- and I 13 think on one of our last workgroup calls Brant 14 briefly introduced them, but certainly the 15 workgroup and SC&A has not really gotten into 16 those examples. And as I said with Y-12, I 17 think that's -- part of the reason we asked for 18 these example DRs is to look at proof of 19 principle. How -- you know, if NIOSH has the 20 data there, show us how you're actually going 21 to use that data to do an individual case. And 22 -- and we need to thoroughly review those and -23 - and discuss those on the workgroup, and we haven't -- just haven't had a chance to do that 24 25 at this point so we need to proceed with that,

1 as well. 2 And I think that's sort of a summary. 3 DR. ZIEMER: Let me ask, Board members, do you 4 have questions for Mark before I call on him to 5 propose a motion? 6 (No responses) 7 Other -- other workgroup members wish to add 8 anything? 9 (No responses) 10 Apparently not. Mark, then I'll entertain a 11 motion from you on behalf of the workgroup. MR. GRIFFON: Well, I -- I guess I would make a 12 13 motion on behalf of the workgroup that we 14 continue our work with the workgroup, including 15 NIOSH and SC&A and the petitioners -- continue 16 our work and to not -- at this point we're not 17 prepared to make any motion regarding the 18 petition in front of us, the evaluation report 19 in front of us. 20 DR. ZIEMER: That motion doesn't require a 21 second since it comes from our workgroup. Ιt 22 is on the floor for discussion, and recognize 23 that if you vote in favor of the motion -- this 24 motion has the effect of postponing action on 25 the petition until -- I'm assuming, Mark,

1	although you didn't say it explicitly I'm
2	assuming it would be the intention of the
3	workgroup to bring this to closure by our next
4	meeting.
5	MS. MUNN: Yes.
6	DR. ZIEMER: Is that correct?
7	MS. MUNN: Yes.
8	DR. ZIEMER: Is that inherent in the
9	MR. GRIFFON: Well, I was going to say as soon
10	as possible, but but I I mean I would
11	love to say the next meeting. I know that we
12	have the same time line for Y-12, so but
13	that that certainly is our intent, as soon
14	as possible.
15	DR. ZIEMER: Thank you. Discussion?
16	(No responses)
17	There appears to be none. Is the Board ready
18	to vote on this motion? Again, the effect of
19	the motion will be to continue the work on
20	resolving those issues that have been
21	identified, and has the practical effect as
22	well of of postponing action on in terms
23	of making a recommendation to the Secretary on
24	the petition.
25	Okay, all those who favor the motion, say aye.

165 1 (Affirmative responses) 2 Any opposed? 3 (No responses) 4 Any abstaining? 5 (No responses) The motion carries. Thank you very much. 6 7 MS. MUNN: On the phone. 8 Jim Lockey, are you on the phone? DR. ZIEMER: 9 (No responses) 10 Robert Presley informed me during the lunch 11 hour that he did have to leave for his doctor's 12 appointment. He also -- he also informed me that he favored the motion that he knew the 13 14 workgroup was making 'cause Mark had identified it before this session. 15 16 It is so ordered. Thank you very much. 17 BOARD DISCUSSION 18 DR. MELIUS: Just a couple of brief comments. 19 DR. ZIEMER: Dr. Melius. 20 DR. MELIUS: Yeah, just -- these remarks aren't 21 relevant to the vote we just took, but two 22 comments. One is I do think we need to examine 23 some of the issues related to representation of 24 petitioners and so forth. I've been personally 25 disturbed by some of the requirements put on

1 the petitioners. I think the petitioners here, 2 Tony and others, really made a good case of how 3 difficult it can be for petitioners, 4 particularly some of the practices that NIOSH 5 has of expanding out the petitions -- which 6 have good points in that we're trying to get as 7 many people included in decisions as possible 8 or it's feasible. But I think we also have to 9 recognize that puts an increased burden on the 10 petitioners and we sort of have -- in some ways have a different situation with Y-12 where we 11 have petitioners who are not -- don't -- aren't 12 very involved in the meetings and the 13 14 representational part. So I think we need to rethink how we're doing that to make sure we're 15 16 getting good representation and that the 17 petitioners have the means to -- to adequately 18 represent the -- the class that's being --19 being discussed. 20 Also, how do we deal with a situation like this 21 where, because of the closures, the petitioners 22 -- in this case the union -- have lost the --23 the -- some of the rights to access records in 24 a timely fashion and so forth. And I -- I 25 think we need to -- to talk about that and sort

1 of figure out how we can better -- better 2 handle that situation. 3 Secondly, partially because of that and I think 4 also because some of the time it's going to 5 take to obtain records to address some of the concerns raised by the petitioners, I would 6 7 hope we wouldn't rush into trying to meet an 8 artificial deadline of next meeting or 9 something to try to close out this petition. Ι 10 think as soon as possible, yes. But let's make 11 sure we have complete information. Some of the 12 information requests have really just gone in 13 and -- and I think we need to make sure that we 14 do address all of the concerns and have adequate information to be able to do that. 15 16 And if that means, you know -- which can often 17 happen -- making more information requests 18 after further review, that I think we need --19 we need to do that. It's very important. This 20 is a big site. It's a complicated site. As 21 Mark has pointed out, there's sort of different 22 operations at different time periods, and I 23 think we need to make sure we've covered the 24 whole time period adequately and different 25 operations within the facility adequately

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before we make a decision.

DR. ZIEMER: Thank you very much, and it looks like Larry may have some related comments. Is that correct?

MR. ELLIOTT: Yes, it is, Dr. Ziemer. Thank you.

7 I want to congratulate Tony and the other 8 petitioners, a very well-delivered and reasoned 9 set of presentations. And I took special note 10 and took to heart the predicament that they, as 11 petitioners, are in with the closure of the 12 site and the D and D being finished, and their 13 not having the ability to access records. And 14 I want to assure you that we stand at the 15 ready. If there are any records that the 16 petitioners want us to pursue for them on their 17 behalf, we will. Any records that we collect, 18 SC&A collects, we will make sure that they are 19 delivered in copy in full to the petitioners. 20 I've talked to Tony about this and just want to 21 stand there to support them as best we can and 22 use the MOU that we have with DOE to make sure 23 that there is adequate and a timely response to 24 their request for information. And that's my 25 commitment to you. I understand that the

1 dilemma that has been presented by our 2 expansion of this definition of the -- of the 3 class, so I would include that -- that that 4 goes to anybody that stands outside the 5 Steelworkers, the hourly folks who also want to get copies of records, just let us know at 6 7 NIOSH. Talk to me or you can call Brant Ulsh 8 or get ahold of us in any way you can and we'll 9 work with you to get the record that you want. 10 BOARD WORKING TIME 11 **DR. ZIEMER:** Thank you very much. Okay. Then 12 the Chair would recognize Dr. Melius for the 13 purpose of presenting a motion that we -- now -14 - yes, we'll bring Mr. Clawson back to the 15 table. 16 This time behave. DR. WADE: 17 MR. CLAWSON: You know me. 18 I have two motions here related to DR. MELIUS: 19 -- I guess we'll start with Pacific Proving 20 Grounds and then there's a -- quite a -- a 21 similar motion related to the Nevada Test Site. 22 I think LaShawn has extra copies, Larry, that 23 can be distributed for -- or someone can let 24 her know -- of this -- I think all the Board 25 members should have, and actually I e-mailed

1	these to Jim Lockey and Bob Presley a couple of
2	hours ago.
3	Let me read into the record the first motion.
4	Much
5	DR. ZIEMER: Okay.
6	DR. MELIUS: Much of this is very familiar.
7	DR. ZIEMER: Just for purposes of record, this
8	was this was a motion that was introduced by
9	Bob Presley at our meeting on Tuesday I
10	believe it was Tuesday.
11	MS. MUNN: The first one was.
12	DR. MELIUS: No, no, not the first one was.
13	The first one his was the Nevada Test site.
14	DR. ZIEMER: Oh, we're on the Pacific Proving
15	Ground, okay. I'll hold those remarks. Go
16	ahead.
17	DR. MELIUS: Okay. The and I as I'm
18	reading, if the Board members want to make
19	pay particular attention to the second and
20	third paragraphs from the bottom 'cause those I
21	think are a little bit different than what
22	we've put in some of our letters before.
23	(Reading) The Board recommends that the
24	following letter be transmitted to the
25	Secretary of Health and Human Services within

1 21 days. Should the Chair become aware of any 2 issue that in his judgment would preclude the 3 transmittal of this letter within that time 4 period, the Board requests that he promptly 5 informs the Board of the delay, the reasons for 6 this delay, and that he immediately works with 7 NIOSH to schedule an emergency meeting of the 8 Board to discuss this issue. 9 The Advisory Board on Radiation and Worker 10 Health (the Board) has evaluated SEC Petition 11 00020 concerning workers at the Pacific Proving 12 Grounds under the statutory requirements 13 established by EEOICPA and incorporated into 42 14 CFR Section 83.13(c)(1) and 42 CFR Section 15 83.13(c)(3). The Board respectfully recommends 16 a Special Exposure Cohort be accorded to all 17 Department of Energy employees or its 18 contractor or subcontractor employees who 19 worked at the Pacific Proving Grounds (PPG) 20 from 1946 through 1962 who were monitored or 21 should have been monitored for exposure to 22 ionizing radiation as a result of nuclear 23 weapons testing at the PPG and whom were 24 employed for a number of work days aggregating 25 t least 250 work days, occurring under this

1 employment or in combination with work days of 2 employment occurring within the parameters 3 (excluding aggregate work day requirements) 4 established for other classes of employees 5 included in the SEC. This recommendation is based on the following factors: 6 7 One, these workers were employed during the 8 above-ground testing of atomic weapons. 9 Number two, there are significant limitations 10 to the available monitoring data collected at 11 the Pacific Proving Grounds, particularly data 12 needed for the accurate reconstruction of 13 internal doses associated with the inhalation 14 of radionuclides at the site. NIOSH concluded that the available information is not 15 16 sufficient to document or estimate the 17 potential maximum internal exposures to workers 18 at the Pacific Proving Grounds under plausible 19 circumstances during the period of AEC 20 operations from 1946 to 1962. The Board 21 concurs with this conclusion. 22 Three, the Board has reviewed information which 23 confirms that radiation exposures at the 24 Pacific Proving Grounds during the time period 25 in question could have endangered the health of

1	members of this class.
2	The Board notes that many of the people who
3	were employed at the Pacific Proving Ground
4	during the time period in question lived on
5	site during their work periods. This should be
6	considered during the evaluation of their work
7	duration.
8	The Board is still evaluating issues related to
9	people who may have been exposed to radiation
10	during discrete incidents that could have
11	involved exceptionally high exposures to
12	radiation while working at the Pacific Proving
13	Grounds (example, those who were present during
14	the actual atomic bomb testing) and who may not
15	meet the 250 work day requirement described
16	above. The Board will continue to review this
17	matter and may make additional recommendations
18	regarding this group at some point in the near
19	future.
20	Enclosed is supporting documentation from the
21	recent Advisory Board meetings held in Oak
22	Ridge, Tennessee and Denver, Colorado where
23	this Special Exposure Cohort petition was
24	discussed. Documentation includes transcripts
25	of public comments on the petition, copies of

1	the petition, the NIOSH review thereof, and
2	related documents distributed by NIOSH and the
3	petitioners. If any of these items are
4	unavailable at this time, they will follow
5	shortly.
6	DR. ZIEMER: Thank you very much. You've heard
7	the motion. Is there a second?
8	MR. GIBSON: Second.
9	DR. ZIEMER: Discussion? Wanda.
10	MS. MUNN: A suggestion with respect to the
11	last sentence in the second of those new
12	paragraphs, the next to the last paragraph.
13	DR. MELIUS: Uh-huh.
14	MS. MUNN: There's maybe some reluctance to
15	speaking to the near future, wouldn't want to
16	raise the assumption that that data might not
17	be developed at some considerably future date,
18	would suggest the possibility of simply having
19	that sentence read "The Board will continue to
20	review this matter and may make future
21	additional recommendations regarding this
22	group," if that's acceptable.
23	DR. MELIUS: That's acceptable.
24	DR. ZIEMER: I'll interpret that as a friendly
25	amendment as it appears the mover has agreed to

1 it -- and who was the seconder? 2 DR. MELIUS: Mike. 3 **DR. ZIEMER:** Is that agreeable? 4 **MR. GIBSON:** (inaudible) 5 DR. ZIEMER: So the wording in that sentence 6 would now say "The Board will continue to 7 review this matter and may make future 8 additional recommendations regarding this 9 group." 10 MS. MUNN: Uh-huh. 11 DR. ZIEMER: Which doesn't pin you down to a 12 time line. DR. MELIUS: Uh-huh. 13 14 DR. ZIEMER: Yes, it's -- thank you. Any other discussion? 15 16 (No responses) 17 Are you ready to vote on this motion? 18 MS. MUNN: Yes. 19 DR. ZIEMER: It appears that we're ready to 20 vote. 21 All in favor of the motion, say aye. 22 (Affirmative responses) 23 Those opposed, no? 24 (No responses) 25 Any abstentions?

1	(No responses)
2	The motion carries. Thank you very much.
3	Then the Chair again recognizes Dr. Melius for
4	purposes of providing the wording to Robert
5	Presley's motion which came from the workgroup,
6	and that motion was essentially to recommend
7	approval of the Pacif of the Nevada Test Site
8	petition.
9	Mark has to recuse himself, and I did want to
10	double-check. I think we indicated to Sandi
11	Schubert that if she wanted to be on the line -
12	_
13	MS. SCHUBERT: I'm here.
14	DR. ZIEMER: Okay, Sandi, you are there. Thank
15	you very much.
16	MS. SCHUBERT: Thank you.
17	DR. ZIEMER: So we now have the wording of the
18	motion, which we will simply identify as a
19	friendly amendment to the Presley motion of
20	yesterday. We simply deferred action on the
21	Presley motion so that we could put the wording
22	into our sort of standard wording form. So
23	here is now the wording of the proposed or
24	of the NTS motion. Dr. Melius.
25	DR. MELIUS: And I will indicate ahead of time,

1 by reading Wanda's mind I am going to make a 2 amendment on the fly to this -- slight 3 modification to make it read somewhat similar 4 to the previous motion. 5 (Reading) The Board recommends that the 6 following letter be transmitted to the 7 Secretary of Health and Human Services within 8 21 days. Should the Chair become aware of any 9 issue that in his judgment would preclude the 10 transmittal of this letter within that time 11 period, the Board requests that he promptly 12 informs the Board of the delay and the reasons 13 for this delay, and that he immediately works 14 with NIOSH to schedule an emergency meeting of the Board to discuss this issue. 15 16 The Advisory Board on Radiation and Worker 17 Health (the Board) has evaluated SEC Petition 18 00055 concerning workers at the Nevada Test 19 Site under the statutory requirements 20 established by EEOICPA and incorporated into 42 21 CFR Section 83.13(c)(1) and 42 CFR Section 22 83.13(c)(3). The Board respectfully recommends 23 a Special Exposure Cohort be accorded to all 24 Department of Energy (DOE) employees or its 25 contractor or subcontractor employees who

1	worked at the Nevada Test Site from January
2	27th, 1951 through December 3rd, 1962 who were
3	monitored or should have been monitored for
4	exposure to ionizing radiation as a result of
5	nuclear weapons testing at the Nevada Test Site
6	and who were employed for a number of work days
7	aggregating at least 250 work days, occurring
8	under this employment or in combination with
9	work days of employment occurring within the
10	parameters (excluding aggregate work day
11	requirements) established for other classes of
12	employees included in the SEC. This
13	recommendation is based on the following
14	factors:
15	Number one, these workers were employed during
16	the above-ground testing of atomic weapons.
17	Two, they were there are significant
18	limitations to the available monitoring data
19	collected at the Nevada Test Site during this
20	time period, particularly data needed for the
21	accurate reconstruction of internal doses
22	associated with the inhalation of radionuclides
23	at the site. NIOSH concluded that the
24	available monitoring data and source term
25	information is not sufficient to document or

1 estimate the potential maximum internal 2 exposures to workers at the Nevada Test Site 3 under plausible circumstances during the time 4 period from January 27th, 1951 to December 3rd, 5 The Board concurs with this conclusion. 1952. 6 The Board has received information which 7 confirms that radiation exposures at the Nevada 8 Test Site during the time period in question 9 could have endangered the health of members of 10 this class. 11 The Board notes that some people who were 12 employed at the Nevada Test Site during the time period in question lived on site during 13 14 their work periods. This should be considered 15 during the evaluation of their work duration. 16 The Board is still evaluating issues related to 17 people who may have been exposed to radiation 18 during discrete incidents that could have 19 involved exceptionally high exposures to 20 radiation while working at the Nevada Test Site 21 (example, those who were present during the 22 actual atomic bomb testing) and who may not 23 meet the 250-day work requirement described 24 above. The Board will continue to review this 25 matter and may make additional future

1	recommendations regarding this group.
2	Enclosed is supporting documentation from the
3	recent Advisory Board meeting held in Denver,
4	Colorado where this Special Exposure Cohort
5	petition was discussed. This documentation
6	includes transcripts of the public comments on
7	the petition, copies of the petition and the
8	NIOSH review thereof, and related documents
9	distributed by NIOSH and the petitioners. If
10	any of these items are unavailable at this time
11	they will follow shortly.
12	DR. ZIEMER: Thank you. That motion basically
13	came from the workgroup. It does not require a
14	second at this time. I'm going to ask for
15	discussion or comments on this motion.
16	I actually have a question that perhaps might
17	lead to a slight change. We refer in bullet
18	one to workers were employed in above-ground
19	testing. Actually were not some of the shots
20	in Nevada underground?
21	MS. MUNN: Some were, yes.
22	DR. MELIUS: But during this time period?
23	DR. ZIEMER: Are we exclud
24	MR. ELLIOTT: But during this period it was
25	above-ground.
1 DR. ZIEMER: Only -- only -- that's what I 2 wanted to clarify. 3 MR. ELLIOTT: And could I make a friendly --4 DR. ZIEMER: Yes. 5 **MR. ELLIOTT:** -- a correction as a friendly correction? 6 7 DR. MELIUS: Uh-huh. 8 MR. ELLIOTT: It's an 83.14 case --9 DR. MELIUS: Oh, okay. 10 MR. ELLIOTT: -- not 13. This is a -- this is 11 a situation where, under 82.12, we've 12 identified we can't do dose reconstruction. We 13 worked with a claimant to file an 83.14. 14 DR. ZIEMER: So that correction should be in 15 line three of paragraph two, I believe. 16 DR. MELIUS: Uh-huh. 17 DR. ZIEMER: Both of those items -- are they both changed to 83 --18 19 MS. MUNN: I think so, but I don't know 20 DR. ZIEMER: Larry, are both of those -- it 21 mentions 83.13 twice. To be correct, do we need to have both of those --22 23 MR. ELLIOTT: Yes, for -- for Nevada Test Site 24 for this class, it's an 83.14, so where you 25 have 83.13 it should say 83.14, yes.

1 DR. MELIUS: But does it paral-- do (c)(1) and 2 (c)(3) parallel in 13 and 14? We have --3 DR. ZIEMER: One of -- one of the problems will 4 be that Jim is using the -- the other 5 subparagraphs --DR. MELIUS: 6 Yeah. DR. ZIEMER: -- and let us -- let us simply 7 8 indicate we will get the correct reference here 9 _ _ 10 DR. MELIUS: Yeah. 11 DR. ZIEMER: -- if we don't have it right at 12 the moment. 13 MR. ELLIOTT: I'd have to see the reg, and I'm 14 not --15 DR. MELIUS: Yeah, Lew has the --16 MR. ELLIOTT: Okay. 17 DR. MELIUS: -- the regs, we'll work on it. The understanding is that we will 18 DR. ZIEMER: 19 insert the correct paragraph references there. 20 These are in there simply to tie the statement 21 back to the --22 DR. MELIUS: Yeah. 23 DR. ZIEMER: -- to the language of the 24 regulation. 25 MS. MUNN: It's 14(b).

1 DR. MELIUS: Yeah. 2 DR. ZIEMER: Any other discussions? 3 MR. GIBSON: Yes. 4 DR. ZIEMER: Yes, Mike. 5 MR. GIBSON: If I could beat Wanda to the wordsmithing this time for a friendly 6 7 amendment, the second paragraph, about four to 8 five sentences up, it refers to testing at the 9 PPG. 10 DR. MELIUS: Yeah, that --11 DR. ZIEMER: He changed that as he read it --12 DR. MELIUS: Read it, yeah. 13 DR. ZIEMER: -- on the fly. That should read 14 Nevada Test Station (sic), yes. Our copies 15 refer to the Pacific Proving Grounds, but he 16 did correct that in his -- in his audible 17 version. 18 DR. MELIUS: Dr. Ziemer, you were listening. 19 I'm impressed. 20 DR. ZIEMER: I was listening. I do listen to 21 you now and then. 22 Now before we vote, I'm going to ask a question 23 because it relates in a -- it's the same kind 24 of question, but I just realized on our 25 previous motion, in terms of the Pacific

1 Proving Grounds, some of those shots were 2 underwater. Do -- are we still restricting 3 that one to above-ground? 4 Okay, in that case, I'm going to come back to 5 that. DR. MELIUS: Okay, yeah, let's --6 7 DR. ZIEMER: I'm going to ask if there's a --8 if we may have to amend that, but let's go 9 ahead on this. 10 DR. MELIUS: I actually lifted it from your 11 document so we need to... 12 DR. ZIEMER: Okay. DR. MELIUS: I think. 13 14 DR. ZIEMER: Are there any other changes, 15 amendments, discussion on the motion on the 16 Nevada Test Site? 17 (No responses) 18 If not, all in favor will say aye. 19 (Affirmative responses) 20 Any opposed? 21 (No responses) 22 Any abstentions? 23 (No responses) 24 And just for the record, we've lost Dr. 25 Roessler.

1	DR. WADE: But we have a fine quorum.
2	DR. ZIEMER: We still have a quorum and we have
3	no nay votes, so the motion does carry. Thank
4	you very much.
5	If I might return for a moment to the previous
6	motion for Pacific Proving Grounds, we indicate
7	that we we've not changed the description
8	of the of the cohort. Our first bullet
9	simply says that this recommendation is based
10	on the fact that these workers were employed in
11	above-the-ground test above-ground testing.
12	And my point was, I know in the presentation we
13	got from Dr. Neton there were at least some
14	underwater shots.
15	UNIDENTIFIED: Surface and underwater.
16	DR. MELIUS: So yeah.
17	DR. WADE: Thank you. Surface and underwater.
18	MS. MUNN: Can't we simply remove "above-
19	ground"
20	DR. MELIUS: During the testing, yeah.
21	MS. MUNN: and just say during the during
22	testing of atomic weapons?
23	DR. ZIEMER: I think that's a simple solution
24	and
25	DR. MELIUS: Yeah.

1	DR. ZIEMER: and can we take it by consent -
2	- this is basically an editorial correction.
3	The bullet would then say these workers were
4	employed during the testing of atomic weapons.
5	MS. SCHUBERT: Can I this is Sandi, and I
6	apologize, I don't have any of the paper in
7	front of me so it's hard to sort of keep track
8	of some of this.
9	DR. ZIEMER: Sandi, do we have a e-mail number
10	or a FAX number where we can get
11	MS. SCHUBERT: Jason's been e-mailing me, but I
12	don't have any of the documents from the any
13	of the motions, but I just want to clarify
14	sort of just make sure I understand. It sounds
15	like it's the same discussion for the Proving
16	Grounds and the NTS. What you guys are
17	recommending that is that during the time
18	period from like 1951 to 1962 and the
19	respective time period for Pacific Proving
20	Ground, people who worked there for and were
21	or should have been monitored for 250 days get
22	coverage. They don't have to be present during
23	the tests for 250 days, and I don't know if I'm
24	making myself clear
25	DR. ZIEMER: They have to be present during

that time period.

1

2 MS. SCHUBERT: Okay. Okay, that's -- that was 3 my understanding. 4 DR. ZIEMER: Yeah. Yeah. 5 MS. SCHUBERT: I just --6 DR. ZIEMER: Any period during that opening and 7 closing date. 8 MS. SCHUBERT: Okay, so it's irrelevant whether 9 it was above-ground test or --10 DR. ZIEMER: Right, we simply wanted the --11 MS. SCHUBERT: -- research or --12 DR. ZIEMER: We simply wanted the verbiage in 13 the document to be correct, but it's not --14 we're not limiting this to individuals who were 15 involved in the above-ground tests that --16 MS. SCHUBERT: That was my understanding. 17 Thank you. It's just hard when you guys are --DR. ZIEMER: Actually I think Larry is telling 18 19 us, though, that all those tests in that period 20 were above ground. 21 MS. SCHUBERT: Yeah. I appreciate the 22 clarification. Thank you. 23 MR. ELLIOTT: Yes, and I would add that you 24 need -- just for the sake of clarity, you can 25 aggregate days. This -- this class definition

1 will allow the aggregation of days from other 2 classes. For an example, if a person spent 3 time at both sites, Pacific Proving Ground and 4 days at Nevada Test Site, and you could total 5 those up to 250 days. 6 MS. SCHUBERT: Wonderful. Thank you so much. DR. ZIEMER: Okay, thank you very much. 7 8 (Pause) 9 DR. WADE: Just want to as a mining engineer, 10 I'll tell you that underwater is above ground. DR. ZIEMER: I -- I think I understand that. 11 12 That's -- that's quite right. 13 MS. MUNN: Sometimes. 14 DR. ZIEMER: It's not in here, though. 15 MS. MUNN: Others. 16 DR. ZIEMER: It's not atmospheric testing. 17 DR. MELIUS: So it's above ground, I -- thank 18 you, Lew, I appreciate the... And Larry 19 picking up 83.14, we've got sharp eyes here, 20 that's... 21 DR. ZIEMER: We actually had scheduled for 22 after lunch our program updates. I'm looking 23 to see if there were any other items we needed 24 to vote on. 25 Yeah, actually before we lose a quorum, we do

1	want to vote on the next 20 cases, so that will
2	well, at least the next 20.
3	Board members, we have the report from the
4	subcommittee, and it has the form of a list of
5	proposed cases. On that list are 39 numbers,
6	and what we agreed to was that we would have
7	you would have the opportunity to go back and
8	check your list against the master list, which
9	is under the tab it's basically the first
10	tab after the agenda, the individual dose
11	reconstruction tab and see if you wanted to
12	add or delete any items from this list. This
13	list comes
14	MR. GRIFFON: Stu has.
15	DR. ZIEMER: Hang on just a minute and Stu -
16	- and this list basically comes as a
17	recommendation from the subcommittee so it has
18	the has the status of being before us as a
19	motion.
20	Okay. Stu, please.
21	MR. HINNEFELD: During Tuesday's discussion, as
22	you'll recall, there was when we were going
23	through the random randomized list and the
24	selections from the randomized list, the
25	question was raised are these really site-

1 specific dose reconstructions or were these 2 done with generic, complex-wide approaches, and 3 I have that information that I can share, you 4 know, verbally with you if you'd like. 5 DR. ZIEMER: Yeah, you want to just go down the list then? 6 7 MR. HINNEFELD: Yes, yes. Selection number --8 selection number one was the first one 9 selected. That is a Y-12-specific dose 10 reconstruction for the external dose. The 11 internal is the TIB-2 hypothetical intake, but 12 you'll see a lot of those. In the early dose reconstructions it will be pretty uncommon to 13 14 see a detailed internal dose reconstruction. So this is a -- I would -- I would consider it 15 16 probably as a Y-12-specific dose 17 reconstruction. 18 DR. ZIEMER: Okay. 19 MR. HINNEFELD: Okay? So selection number 20 three, which is a Rocky Flats Plant, that is a 21 site-specific dose reconstruction -- seems to 22 be on both sides. 23 DR. ZIEMER: And that was Rocky? 24 MR. HINNEFELD: Yes. 25 DR. ZIEMER: Thank you.

1	MR. HINNEFELD: Selection number 28 uses a a
2	TIB-2 hypothetical intake, but it also seems to
3	use the site profile for the external dose, so
4	that would be a relatively site-specific
5	approach.
6	Selection number 41 uses all complex-wide
7	approaches. It uses the TIB-2 hypothetical
8	intake, uses the TIB-10 overestimating approach
9	for film badges, and uses the TIB-6 complex-
10	wide medical.
11	DR. ZIEMER: Okay.
12	DR. WADE: I would ask the Board to note that
13	that's a Nevada Test Site case, and we'll make
14	note of that and we'll discuss that as it
15	relates to the discussion we had with SC&A in
16	their report.
17	DR. ZIEMER: Okay. Thank you.
18	MR. HINNEFELD: Selection number 45 is not
19	Sandia site-specific. It uses the TIB-2
20	hypothetical intake. It looks like it used an
21	ambient external approach because it was not
22	apparently this was not a monitored person and
23	was judged to be properly not monitored.
24	Selection 48 appears to be site-specific. It's
25	a underestimate so it's in all likelihood a

1	partial dose reconstruction, but it does seem
2	to be specific to the X-10 site.
3	Selection number 52 uses all complex-wide
4	approaches, generic approaches.
5	Selection number 64 also uses all generic
6	approaches.
7	Selection number 95 uses I believe that will
8	be a relati I believe that will be a site-
9	specific. It's a little hard for me to
10	interpret based on the notes I got, but I
11	believe that will be a relatively site-specific
12	approach. Again, it's an underestimate. It
13	will probably be a partial.
14	And selection 96, as well, appears it will be
15	relatively site-specific, uses the TIB for
16	interpreting shallow dose, so presumably these
17	two cases have shallow-dose exposures in the
18	individual's exposure record, and selection
19	number 96 also uses the Paducah coworker
20	approach. So there might there would be
21	might be some interest in that.
22	The next selection I see is selection number
23	144. That uses all that uses the generic
24	AWE complex-wide approach.
25	Selection 154, again, is an underestimate.

1 It's probably a partial. It uses the site-2 speci-- site-specific information I believe for 3 more than one of the listed sites, actually, 4 and how to interpret shallow dose TIB. 5 Selection number 169 seems to use all generic 6 approaches, uses the TIB-10 ext-overestimating approach for using film, TIB-2 7 8 hypothetical intake and the TIB-6 complex-wide 9 medical approach. 10 Selection number 188 seems to use the site 11 profile, site-specific information. 12 DR. WADE: It's also Nevada Test Site. I believe that's all the 13 MR. HINNEFELD: 14 selected cases, isn't it? DR. WADE: I've got 25 total. 15 16 DR. ZIEMER: Now in -- particularly on these 17 complex-wide -- now let's see, we have -- I'm -18 - I think we show six complex-wide ones here. 19 To the extent that any of these were chosen because of the site, you may wish to change 20 21 some of them. In some cases you may have 22 selected them for other reasons. Anyone --23 anyone -- well, let's hear if you want to pull certain ones from the list. Let's start out 24 25 with 41, is that the first complex-wide?

1 MS. MUNN: (inaudible) 2 DR. ZIEMER: Yeah, Mark. 3 MR. GRIFFON: I mean I -- I think that out of 4 all -- all that we saw at the subcommittee 5 level, I -- when we went through this one by one I -- I felt like maybe a round of 20 or 25, 6 7 if we really -- you know, I don't think we have 8 to stick to batches of 20, but I don't -- I 9 would -- I -- my overall sense is I don't think 10 we need to try to get 40 out of here, and this 11 is even more reason -- that Stu just gave, 12 maybe not to do 40, but you know, I was 13 thinking maybe to proportion it with more of 14 the full estimates and less of the 15 overestimates, so I just would hope people keep 16 that in mind, you know. 17 DR. ZIEMER: Uh-huh, sure. The minimum 18 probably that we want to have on deck is 20, 19 and if we come up with 25 or 30 -- at some 20 point we'll have to fill in additional because 21 I -- I assume that, as a practical matter, 22 working with our teams we would take a batch of 23 20 for the next group for the contractor to 24 work with. That works out well with our teams. 25 And then at some later point, if you did not

1 wish to do it today, we can -- and there will 2 be additional closed cases that will come on 3 line, so --4 DR. WADE: One -- if I might suggest, one 5 construct is you have 25 full dose reconstructions that you've identified. 6 That -7 - if you identified that as the target for the 8 possible next 20 -- you know, we always worry 9 about wanting to have a couple of extra in the 10 hopper in case some are returned -- we could 11 instruct the contractor to begin down that list 12 of the first 25, selecting 20 from that. 13 DR. ZIEMER: Of the fulls, and just leave the 14 random ones on the back burner? 15 DR. WADE: Well, then when -- in June we would 16 select the next 20. 17 DR. ZIEMER: Yeah. That's --MR. GRIFFON: 18 Yeah. I mean I think we need to 19 give a little more -- closer consideration to 20 that full list 'cause I think when we were 21 going through it, if you recall, we -- we --22 like at one point I crossed off 117, then I 23 kind of put it back on, then 119 and 20 I 24 remember some discussion of well, I want one of 25 these steel mills, but probably not too many

1 steel mills. They might be very similar. 2 DR. WADE: Well, let's discuss it. 3 MR. GRIFFON: So I don't know if we want to, 4 you know, take all -- yeah. 5 DR. WADE: Let's discuss the 25 and if --MR. GRIFFON: 6 Yeah. 7 DR. WADE: -- see where we get to, and if we 8 need a couple then extra, we can pull from the 9 random ones. 10 DR. ZIEMER: Is that agreeable? 11 MR. GRIFFON: That's fine. 12 DR. ZIEMER: Well, then move to the table --13 well, actually it's the first -- first table --14 DR. WADE: Right. 15 DR. ZIEMER: -- which is the list of fulls, and 16 we can -- let's just quickly go down the list. 17 We can either reconfirm or -- or drop, and if 18 there's others we can pick up -- 02? Or just -19 - I'll just call it 2. I'm going to just kind 20 of move through these. If I don't hear any 21 comments pro or con, I'm going to assume we're 22 agreed to keep and we'll just go from there. 23 Six? 24 DR. DEHART: We've got at least four, possibly 25 more, Savannah Rivers, first 25.

1 MS. MUNN: Against --2 DR. ZIEMER: From the first 25 that we've... 3 Oh, in the -- in this 25. 4 MR. GRIFFON: Yeah. 5 DR. ZIEMER: Okay. But are you simply pointing that out or are you objecting --6 DR. DEHART: In case somebody feels -- I think 7 8 that's too many from Savannah River. 9 MS. MUNN: We're going to need --10 MR. CLAWSON: These are ones that just came 11 into 50 percent. 12 MR. GRIFFON: Maybe keep that in mind as we go through that, you're --13 14 MS. MUNN: You're looking at a total of 35 15 needed from Savannah River and we only have 14 16 so far of those completed. 17 DR. ZIEMER: Yeah, we're still okay. Roy --18 Roy's just pointing that out. 19 Okay, I'm going to proceed here -- 6? Eight? 20 DR. DEHART: Go back and select 6 out because 21 it's a lung case. We've got already a lot of 22 lung. 23 MS. MUNN: Yeah. 24 DR. ZIEMER: How about the rest of you? 25 MS. MUNN: I agree.

1 MR. GRIFFON: That's fine. 2 DR. ZIEMER: Okay, we're going to drop 6 -- 9? 3 10? 20? 4 **MR. GRIFFON:** I think 10's a borderline one for 5 me, but I guess we can keep it in there for now. We haven't done Portsmouth, so I can see 6 7 the argument to -- you know. 8 **DR. ZIEMER:** Okay, 20? 43? 44? 49? I feel 9 like I'm calling a bingo game here. 10 MS. MUNN: I'm ready to say we need --11 DR. WADE: I need one more. 12 MR. GRIFFON: I need one more. DR. ZIEMER: Is 50 on the list? I can't tell 13 14 from my marks here. 15 MR. GRIFFON: No. 16 DR. ZIEMER: No? Okay. 17 MS. MUNN: We talked about 49, but not 50. DR. ZIEMER: Yeah -- 68? 73? Mark, did you 18 19 have a comment on 68? 20 MR. GRIFFON: No, I just was -- Keep in mind 21 that's Superior Steel, though. I think we've 22 got another one of those coming up, so... 23 DR. ZIEMER: Okay. Which one is that -- 73, 24 Superior Steel. 78? 85? 101? 25 DR. DEHART: I would simply point out that

1 we're suddenly doing a lot of GIs. Here we 2 have colon and this is like the third colon 3 we've run through. 4 MR. GRIFFON: 101's esophagus. 5 DR. ZIEMER: 101's esophagus. DR. DEHART: Yes. 6 7 DR. ZIEMER: Oh, G-- okay, GI, yeah, we're --8 we're thinking too low. 9 DR. MELIUS: But still above ground. 10 DR. ZIEMER: Thank you for that. When does 11 your plane leave? 12 Okay, number 110? Number 115? Okay, 117 was on and off, I -- it's currently on the list. 13 14 Are we -- I had marked it back off, but is --15 MR. GRIFFON: I thought at one point we saw a 16 better Pantex one or something, didn't it --17 DR. WADE: I thought it was further down the 18 line. 19 MS. MUNN: Thought there was better. 20 MR. GRIFFON: Oh, yeah, maybe that was it. 21 DR. ZIEMER: Well, shall we leave it in for the 22 moment? 23 MR. GRIFFON: I just think it's five years 24 worked and I would vote for it going off, 25 actually.

1 DR. ZIEMER: For 117? 2 MR. GRIFFON: Yeah. 3 DR. ZIEMER: Okay. 119? That's the other 4 Superior Steel. 5 MR. GRIFFON: Right. And this is a bladder cancer and longer work period I think than the 6 7 previous one is why we -- 73. 8 DR. ZIEMER: 73 is a 25-year. 9 MR. GRIFFON: Oh, they're both long periods of 10 _ _ 11 DR. ZIEMER: Both pretty long. 12 MS. MUNN: We were interested in the work 13 decade in that one, I think. Wouldn't that 14 have been one of the folks who would have 15 worked prior to an older worker at the time of 16 exposure. 17 MR. GRIFFON: I guess -- I guess my -- I would 18 say either one, but probably not both is what 19 my -- I would think. 20 **DR. ZIEMER:** 73 and 119, they're both very 21 similar, I think. The -- why don't we just go 22 with 119, if that's agreeable. 23 MR. GRIFFON: Yeah, that's fine with --24 DR. ZIEMER: Drop 73, they're both quite 25 similar. Now 120?

1 MR. GRIFFON: I vote to drop that one --2 another steel company. I'm not even sure --3 these are all full estimates, but Stu, if the -4 - some of these ones that are full estimates 5 like for these steel companies, I'm not sure you're going to have -- it's not going to be 6 7 specific bioassay. It likely is a model, 8 right? To internal dose. 9 MR. HINNEFELD: Yeah, it's -- it's likely a 10 model. Now there are a number of AWEs where we 11 have external dosimetry records --12 MR. GRIFFON: Right, but it's likely not --MR. HINNEFELD: -- and I don't remember --13 14 MR. GRIFFON: -- it's likely not a Superior 15 Steel-specific model, is it, or could it be? 16 MR. HINNEFELD: I don't think it would be. Ιt 17 may be a -- the AWE complex-wide --18 MR. GRIFFON: Model, right, right. 19 MR. HINNEFELD: And it may actually have -- I 20 don't know -- I can't remember now if we had 21 dosimetry data for Superior Steel or not. 22 There were a number of the AWEs where we 23 DR. ZIEMER: What about U.S. Steel? This one 24 is --25 MR. HINNEFELD: It'd be the same.

1 DR. ZIEMER: -- U.S. Steel. 2 MR. HINNEFELD: U.S. Steel is -- I don't -- I 3 don't know. I don't know. 4 MR. GRIFFON: Steel companies we might -- we 5 want to look at some of them, but I think --6 DR. ZIEMER: We have Superior, so let's -- we 7 can drop 120. 154? 157? 181? 88 -- 188? 8 199? And 211? 9 DR. WADE: That's 21. 10 DR. ZIEMER: Well, 21 gives us at least an 11 extra. Let me just pause a minute and see if 12 anyone has spotted other ones on the list in 13 the meantime that they would like to add. MR. GRIFFON: Well, I saw one from the partial 14 15 list that might be -- or from the random list 16 that might be interesting, but I don't know if 17 you're looking at that --18 DR. ZIEMER: We can do that. 19 MR. GRIFFON: And I got --20 DR. ZIEMER: There's nothing --21 MR. GRIFFON: Number three -- out of all those, 22 I think the only one that was sort of 23 compelling to me was number three, and that --24 it's Rocky Flats. 25 DR. ZIEMER: Number three is a Rocky Flats

1 site-specific --2 MR. GRIFFON: Right. 3 DR. ZIEMER: Okay, let's add that one back in. 4 MR. GRIFFON: Then we're 22 --5 DR. ZIEMER: That gives us --6 MR. GRIFFON: -- right? 7 DR. ZIEMER: That gives us 20 plus two spares. 8 Okay, let me ask, is there any discussion on 9 this? We'll vote officially to accept these as 10 the next group from which our next cases will 11 be audited. Ready to vote? 12 (No responses) 13 Okay, all in favor, aye? 14 (Affirmative responses) 15 Any opposed? 16 (No responses) 17 Abstentions? 18 (No responses) 19 So ordered. 20 DR. WADE: John Mauro, could you come to the 21 microphone just briefly for a question? John? 22 John, if now you get these 22, you wouldn't 23 need the assignment to Board -- specific Board 24 members before June, would you -- or would you? 25 DR. MAURO: No, but it's -- it's -- we'll

1 proceed with the -- our work. At some point 2 the --3 DR. ZIEMER: You can do the early stages of --4 of these --5 DR. MAURO: Yeah, we -- yeah, we -- we don't --6 we don't need the assignments I would say for 7 another month. 8 Another month? DR. WADE: 9 DR. MAURO: Yeah, in other --10 DR. ZIEMER: You will be ready that soon for 11 these? 12 DR. MAURO: If we -- we -- we're going to start 13 work soon as we -- soon as we receive the set 14 of disks. I would say we'll -- we're going to 15 get started on them soon as we receive that. 16 When we're through, we will send the drafts 17 out. You know, it's going to take I would say 18 at least six weeks to two months to get through 19 the first set of drafts, and sometime in that 20 time period, if we had the assignments, you --21 we --22 DR. ZIEMER: If you guys are ready, actually 23 the Chair can assign these. That's my --24 that's my prerogative and I can take the -- I 25 can take the existing groups and, making sure

1 there's no conflict of interest, just make the 2 assignments. 3 DR. MAURO: Sure, okay. 4 DR. ZIEMER: If you're at that point before our 5 next meeting. DR. MAURO: Oh -- then that's fine, yeah, we --6 7 now or -- yeah, next meeting would be certainly 8 soon enough. 9 DR. ZIEMER: Okay, part of the Board working 10 session, we have the minutes from the January 11 meeting. Dr. DeHart has a correction to offer. 12 DR. DEHART: Page 45. 13 DR. ZIEMER: Page 45. 14 DR. DEHART: Line 3, there's a incorrect date. 15 It should read April 5, 2005. 16 DR. ZIEMER: That date is -- refers to the 17 NIOSH Rev. 3 of the Savannah River site profile that -- the correct date is April 5th, 2005, 18 19 not 2006, so that -- that's a -- even though 20 it's a single digit, it's a substantive change 21 in the minutes. 22 Were there any other corrections or additions 23 to the minutes that anyone wishes to offer? 24 (No responses) 25 Then I'd call for a motion to approve the

1 minutes, as corrected. 2 MS. MUNN: So moved. 3 DR. ZIEMER: Seconded? 4 MR. CLAWSON: Second. 5 DR. ZIEMER: All in favor of approval of the 6 minutes, say aye. 7 (Affirmative responses) 8 Any opposed? 9 (No responses) 10 Motion carries. Thank you. 11 I'll now call on Dr. Melius to report for the 12 workgroup on the Iowa SEC. 13 DR. MELIUS: Yeah, this is on the Ames --14 DR. ZIEMER: Ames, Iowa. 15 DR. MELIUS: -- Ames, Iowa SEC, and -- had some 16 internal discussions and in follow-up to the 17 SC&A presentation from yesterday, I believe it 18 was, and I think what we have decided -- be 19 recommending is that we ask SC&A to -- to --20 three tasks. One is complete a short report 21 basically following the outline of their --22 their presentation that was given today on sort 23 of the work to date on reviewing the evaluation 24 report and the background information that they 25 had reviewed, discussions with the petitioners

1	and and so forth.
2	Number two, to I think there's like
3	essentially two issues that we'd like them to
4	delve into a little bit further. One is the
5	issue of the so-called explosions and other
6	acute incidents like that at the at the
7	facility. I think I think we're just
8	looking for additional information. There's
9	the petitioners had raised some question as to
10	whether those didn't qualify as discrete
11	incidents.
12	And then this the other issue we'd like some
13	input the petitioners in their original
14	petition had extended the their request for
15	coverage by one year I believe past what NIOSH
16	had, and that that was based on their
17	concern about any residual contamination or
18	continued exposures, even though the facility
19	was no longer operational as an AC facility,
20	and I think we're just looking for a little bit
21	more guidance on on that particular issue.
22	And I think if you could complete a report and
23	present that back to us, I think we that
24	should suffice for us to be able to, you know,
25	come to a conclusion on the Ames petition.

1 DR. ZIEMER: And this comes as a recommendation 2 from the workgroup and therefore a motion 3 before the Board. If we approve this, this 4 would give direction to the contractor for 5 preparing us for a final decision on this. I might add, on the third point it's my 6 7 understanding that that extra year was intended 8 to cover clean-up operations after the 9 cessation of work. I'm wondering if either 10 NIOSH or SC&A knows actually if there are -- do 11 we know anything about the clean-up dates for 12 Ames, and do we even know if that was done by 13 Ames workers? I would guess it was more likely 14 done by an outside contractor if it was done. 15 MR. HINNEFELD: I'm speaking second-hand here 16 because I wasn't doing the research, but we --17 we do know -- we do have some information about 18 -- like demolition dates of the buildings where 19 some of this work was done, so --20 DR. ZIEMER: And I think that's the information 21 we're wanting to know whether the cohort should 22 really include the clean-up period. 23 MR. HINNEFELD: I think that -- I believe our 24 position is that there's -- there's really no 25 material difference between cleaning up the

1 work and doing the work, in terms of the 2 exposure conditions, and so the clean-up work 3 would -- would be included. It's when -- how 4 late did the clean-up work go on. 5 DR. ZIEMER: Well, the point I'm making is do 6 we know that the clean-up was done by -- by 7 Ames workers --8 MR. HINNEFELD: I guess --9 DR. ZIEMER: -- versus something like a FUSRAP 10 _ _ 11 MR. HINNEFELD: Yeah, standing here today --12 **DR. ZIEMER:** -- where a complete outside group 13 comes in. 14 MR. HINNEFELD: Right here today, I don't know. 15 DR. MELIUS: I don't think that's -- that's --16 that was clear and in the conference call we 17 had we'd just received the evaluation report, and frankly we didn't talk about it very much. 18 19 I -- I think was you, Larry, or who had 20 explained how you came up with the date, but 21 then we nev-- really sort of didn't spend much 22 time talking about it --23 DR. ZIEMER: Well, we need -- we need to just 24 clarify --25 DR. MELIUS: -- and just -- so we're just

1 looking for clarification on that -- that 2 issue. 3 DR. ZIEMER: So Board members, you've heard 4 this recommendation. Any discussion on it? 5 (No responses) If not, I'll call for a -- call the question. 6 7 All who favor proceeding on this basis on the 8 Ames, Iowa petition, say aye. 9 (Affirmative responses) 10 Any opposed? 11 (No responses) Abstentions? 12 No? 13 (No responses) 14 It is so ordered. 15 DR. WADE: One other small piece of business 16 before we move on. That is just making sure we 17 have the workgroups -- that the work assigned 18 to the appropriate workgroups. I think on Ames 19 it's Dr. Melius's SEC workgroup. Yeah, I think 20 on Y-12 and Rocky it's clearly Mark's workgroup. But we do have the task of Nevada 21 22 Test Site and Pacific Proving Grounds, and 23 which workgroup would take that on, just so I 24 can schedule meetings? 25 MS. MUNN: The Nevada Test Site has been Bob

1	Presley's.
2	DR. MELIUS: I think what we had Paul and I
3	had discussed this briefly
4	DR. ZIEMER: Discrete event issue
5	DR. MELIUS: Yeah, yeah.
6	DR. ZIEMER: be raising, I think.
7	DR. MELIUS: Yeah, and and I think what
8	might be the you know, at least since we
9	want to approach that originally sort of
10	generically, so forth, is that if our workgroup
11	I guess my workgroup headed by me, I hate
12	to call it my workgroup 'cause we all do the
13	work, but
14	DR. ZIEMER: In this case it's the SEC kind of
15	generic workgroup.
16	DR. MELIUS: Yeah, what do you call it, Paul
17	or
18	DR. WADE: I call it the S SC&A/SEC
19	workgroup.
20	DR. MELIUS: Oh, but okay that we do
21	that. But we will coordinate with the Nevada
22	Test Site group as as we get into specific
23	issues related to the Nevada Test Site. Does
24	that sound reasonable?
25	MS. MUNN: That's nice.

1 DR. MELIUS: Yeah. Well, it's more than nice. It makes -- it makes sense. 2 3 DR. ZIEMER: So that -- that group is 4 addressing sort of the generic issue of 5 discrete events --DR. MELIUS: 6 Yeah. 7 DR. ZIEMER: -- which includes those both at 8 Nevada Test Site and Ames and perhaps other 9 places. 10 DR. MELIUS: Yeah. And to -- to initiate that 11 workgroup, I'd like to schedule a short 12 conference call with NIOSH just to talk about some data issues and sort of figure out how we 13 14 can work together to -- some sort of 15 information needs related to that, so we'll --16 we'll work on that and... 17 FUTURE SCHEDULES/BOARD CORRESPONDENCE 18 DR. WADE: Then very briefly, our next face to 19 face meeting is scheduled for June 14, 15, 16 20 in Washington, D.C. Based upon dates 21 available, we're scheduling -- we would like to 22 schedule a call of the Board on August 8th. We 23 might not need it but we'd like to schedule it. 24 And then again, based upon your calendars' 25 availability, a face to face meeting of the

1 Board September 19, 20 and 21. Now LaShawn 2 tells me it's clear on all calendars. 3 DR. DEHART: Except mine. I'll be in India. 4 DR. WADE: Okay. That's right, we did have 5 that. DR. MELIUS: Well, now we have a location. 6 7 DR. ZIEMER: Okay. Everybody make sure you 8 have those dates on your calendars then. That 9 takes us through September and we'll want to 10 get later dates reserved fairly soon. 11 DR. WADE: Yeah, I'll ask LaShawn to start 12 Monday to -- to schedule the rest of the year. 13 DR. MELIUS: What were the September dates 14 again? 15 DR. WADE: 19, 20, 21. 16 DR. ZIEMER: Okay. Mark, you have a comment? 17 I just -- just have some other --MR. GRIFFON: 18 other potential date here. I wanted to try, if 19 the principal players are still here, to get a 20 workgroup date -- we're going to need a 21 workgroup date, and I was hoping to do Y-12 and 22 Rocky all in one day, as we've been doing. And 23 I -- in talking with SC&A, I think -- I tried to time this so that it would be -- well, first 24 25 so that our workgroup could all attend, and

1 secondly so that SC&A would have a complete 2 evaluation report for the Rocky, and they said 3 probably mid-May. And the dates we found so 4 far are narrowed down to like May 17th, possibly May 18th -- I don't know if Jim Neton 5 6 is -- yeah, Jim's still here, or Brant -- if 7 there's any major conflicts or if you think 8 that's too soon, too late. I don't know if you 9 have any --10 DR. NETON: I'm sorry, you caught me thinking 11 about something else. 12 MR. GRIFFON: May 17th, it would be Y-12 and 13 Rocky working group. 14 DR. NETON: Okay. It's clear for me. I can't 15 speak for Brant, but --16 MR. GRIFFON: Okay, I didn't know. 17 DR. NETON: We could arrange it to be clear --18 since he's not here. 19 MR. GRIFFON: So we'll -- at least tentatively 20 we'll say May 17th --21 DR. NETON: Yes. 22 MR. GRIFFON: -- workgroup, location probably 23 Cincinnati -- although I like Boston -- no. Probably Cincinnati. 24 25 DR. ZIEMER: And John Mauro --

1 MR. GRIFFON: May 17th, and we'll probably 2 start at 8:30, 9:00 a.m. or something, you 3 know, as early as we can -- full day. 4 DR. MAURO: Paul, with regard to that date --5 certainly that's fine with SC&A. I'd just like to point out we will be in position to deliver 6 7 and have well in hand Y-12 revised report. 8 With regard to having a complete draft in the 9 hands of the working group for that date for 10 Rocky, you picked a day when -- where we're 11 probably going to be in the midst of writing it 12 at that time. That doesn't meant we would not 13 be in a position to discuss it with you, but we 14 probably will not have a clean draft for you 15 folks to review prior to that meeting. I mean 16 that -- that would be -- 'cause you -- you 17 happened to turn out to pick the date when we -18 - we -- we will be receiving our drafts 19 internally and integrating it into a draft report, so -- but if -- so but we'll certainly 20 21 be in a position to air out the issues very --22 you know, I would say very thoroughly, but you 23 won't have the luxury of -- of -- of reading 24 our draft regarding Rocky prior to that 25 meeting.

1 DR. ZIEMER: Well, you'll have to decide if 2 that's a critical point or not then. 3 MR. GRIFFON: Yeah. 4 DR. ZIEMER: If it is, then you may have to 5 wait a week or two. MR. GRIFFON: And the 6 _ _ 7 DR. ZIEMER: When would you issue the report, 8 if that's the -- that's the day you start --9 DR. MAURO: Right --10 **DR. ZIEMER:** -- putting it together? 11 DR. MAURO: -- right now our plan is we will 12 probably be assembling the report about that 13 time, and deliver the draft to the working 14 group and the Board within a week from then. 15 So you're about a week early. 16 MR. GRIFFON: Yeah. 17 DR. ZIEMER: Well, I'm going to suggest, 18 workgroup, you may need to cogitate on this on 19 your own and --20 MR. GRIFFON: We'll tentatively say May 17th --21 DR. MAURO: That's fine. 22 MR. GRIFFON: -- then we'll -- we'll --23 DR. ZIEMER: You may have to move it. 24 MR. GRIFFON: We may have to move it, right. 25 DR. ZIEMER: Thank you.
1 **DR. MELIUS:** Do we have a location for the 2 September meeting? 3 DR. WADE: No. 4 DR. MELIUS: Can we come up with one? It makes 5 some difference in terms of what we schedule 6 our travel plans around. Especially if it's in 7 India since it takes us so long to get there. 8 DR. WADE: I mean we don't have a location. 9 You know, I don't know what the timing will be 10 in terms of the issues that you're working on 11 now, so --12 DR. ZIEMER: Well, we may need to see what's 13 coming on the horizon. 14 DR. MELIUS: Okay. 15 DR. WADE: But if you want to pick one today ... 16 MS. MUNN: Always Pantex. 17 DR. ZIEMER: Well, yeah, the Pantex area is 18 very hard to get to. 19 DR. MELIUS: How about -- maybe -- it's too 20 early for Fernald. 21 DR. WADE: Why don't you let me propose a 22 couple of locations next week by e-mail and 23 then --24 DR. MELIUS: Okay. 25 DR. WADE: -- we'll pick them and then we'll

1 decide by the end of next week. 2 DR. MELIUS: Anybody -- other -- since this is 3 back before Lew's time, any locations that we 4 had talked about and have gotten bumped because of --5 6 DR. ZIEMER: Yeah, we met one time in South Carolina, but we were quite a ways from the 7 8 plant, so it wasn't a very good venue for 9 getting input from the workers at Savannah 10 River. I wonder if we would do better to get 11 closer to the plant. What's the closest -- is 12 Aiken the closest town of size? 13 MR. PRESLEY: Aiken is the closest -- Bob 14 Presley, I'm back. 15 MS. MUNN: Bob is back. 16 DR. ZIEMER: Bob, you're back. 17 MS. MUNN: Missed the vote. 18 DR. ZIEMER: Yeah, Bob, we have completed the 19 voting. I -- all three of the motions that you 20 were aware of have been approved. We are 21 discussing a -- some possible future locations, 22 and I was asking what -- what's the closest 23 decent-sized city to the Savannah River site, 24 is it Aiken or is it Augusta? Maybe Augusta's 25 a little --

1 MR. PRESLEY: Augusta's -- Augusta's closer 2 than Aiken. 3 **DR. ZIEMER:** And Augusta's a little bigger. Ι 4 think could probably accommodate --5 MS. MUNN: That's where we were. DR. ZIEMER: Well, we were in Charleston. 6 7 DR. MELIUS: We were both. 8 MS. MUNN: We were in Augusta, too. 9 DR. ZIEMER: How soon we forget. That's been a 10 while. 11 MR. PRESLEY: Didn't we meet in Augusta? 12 DR. ZIEMER: No, I'm just getting information 13 from you. I've been out-voted already. 14 Well, I'm trying to think of other sites. 15 We've been to Oak Ridge. Pinellas is a 16 possibility. 17 MR. PRESLEY: We've -- we have talked about 18 going to Pinellas. 19 DR. ZIEMER: Yes, this would be basically 20 Pantex -- well, Pantex is Texas, but -- or 21 Pinellas is --22 MR. PRESLEY: Florida. 23 DR. ZIEMER: -- Florida. What, St. Petersburg? 24 UNIDENTIFIED: Tampa. 25 DR. ZIEMER: Those are possibilities, not --

1 Fort Myers is way far from Pinel-- from 2 Pinellas. 3 DR. WADE: Let me put something together. I'11 4 look at Augus-- I'll look at Savannah River and 5 Pinellas as two, and if anybody else wants to 6 suggest. 7 MR. PRESLEY: Did we talk about Pinellas? 8 DR. ZIEMER: We haven't decided on one, just 9 gathering information. Albuquerque is another possibility. That -- there's -- Sandia is 10 11 there. You have of course Los Alamos National 12 Lab is close by. We have been to Santa Fe. 13 Actually there's some other facilities at Albuquerque, the -- the Inhalation Tox group is 14 15 there, as well, they -- part of the DOE 16 complex. 17 DR. WADE: Dr. DeHart has his thing up. 18 DR. DEHART: It's a different topic, but I was 19 wondering if it would be possible to have as an 20 agenda item at one of our forthcoming meetings 21 -- and this comes out from the presentation 22 that Dr. Ringen had the other day -- the other 23 evening. The topic then was construction 24 workers, and it was mentioned that NIOSH is in 25 the process of coming up with a work plan or a

1 method of analyzing dose reconstruction for 2 that work group, and I was wondering if we 3 could get a status report. 4 DR. ZIEMER: Well, Larry is shaking his head in 5 the affirmative, so perhaps that could go on 6 the agenda at -- we saw some things that were 7 presented in the public comment period about 8 the working group, but we -- and -- and NIOSH 9 has told us before about what the plans are, so 10 maybe just an update on that -- be timely. 11 Thank you, Roy. 12 We have a couple of items that we skipped over 13 in order to get through the voting portions of 14 the meeting. First there's a program update 15 from NIOSH, and Larry, you have the current status of issues for us? 16 17 DR. MELIUS: Break, Paul? 18 (Pause) 19 DR. ZIEMER: When they're done we'll hear from 20 Department of Labor --21 **DR. WADE:** Dr. Melius asked for a break. DR. ZIEMER: Oh, well, I was just going to plow 22 23 right through there. Okay. I'm usually the 24 one most uncomfortable, but we'll take a ten-25 minute break while they get set up.

1 (Whereupon, a recess was taken from 2:50 p.m. 2 to 3:05 p.m.) 3 PROGRAM UPDATES, NIOSH, MR. LARRY ELLIOTT 4 DR. ZIEMER: Larry, welcome back for the latest 5 status report. And I actually looked at it 6 already and I was astounded. It seemed to be a big jump from January on -- on closeouts, 7 8 almost 2,000. Was -- is that right? 9 MR. ELLIOTT: Yes, we're just -- we're doing 10 fine. Production is -- is moving along and 11 quite pleased with the ORAU team support in 12 that regard. They are working hard in many areas, as the OCAS staff are, in responding to 13 14 the Board's interests and concern with the 15 evaluation of SEC petitions, of course, site 16 profile reviews. And at the same time we're 17 maintaining and improving and increasing our 18 production level efforts, so -- and I think 19 that's primarily due to the number of Technical 20 Basis Documents and site profile tools that 21 have been developed and finalized. The more we 22 bring on line of those tools, the more claims 23 we can complete. 24 DR. ZIEMER: And before you get under way and -25 - I just got a phone call from Bob Presley and

1 he's back on the line again. His staple 2 removal went well. But Bob reminded me to be 3 sure to tell the NIOSH folks how pleased he was 4 with the support you gave to the workgroup that 5 he was involved in and really thanks you for 6 all that support. 7 MR. ELLIOTT: That's -- that's what we're here 8 for. We're public servants and we're trying to 9 do the best we can in a very difficult 10 situation, so -- and with the full intent of 11 doing the best we can for the claimant 12 population. I'm sorry that we seem to have 13 lost most of those folks today, but I 14 appreciate those of you who are in the audience. 15 16 Before I start walking through these slides, I 17 do want to give you a brief update in response 18 to Dr. DeHart's request and with regard to what 19 you heard last night from Knut Ringen. 20 Unfortunately I wish he had vetted his 21 presentation with NIOSH before he decided to 22 present it because -- well, you'll see here 23 that many -- many points of clarification and 24 inaccuracies that I need -- I feel compelled to 25 speak to.

1 First of all, yes, we did work with CPWR, asked 2 them to help -- help us with the development of 3 a Technical Information Bulletin that would be 4 used to treat dose reconstructions for 5 construction workers. That document was completed -- I don't have the date of when we 6 7 initiated that effort and when it was 8 completed, but the current status of that 9 document is that it's -- it's undergoing some 10 final revisions within NIOSH, in OCAS, getting 11 also some technical support from ORAU to put 12 some finishing touches on that document, 13 addressing some concerns that CPWR and their --14 the esteemed colleagues that they brought to 15 bear on the issue raised with us about the 16 document and the draft of that document. Ι 17 think that document is about -- perhaps six 18 weeks away from seeing completion and being put 19 to use. So in the six weeks time frame I hope 20 to be able to tell you at the next meeting that 21 it's in use and it's underway and we're working 22 with it. 23 Now points of clarification. There are -- the 24 numbers in Knut's presentation were not 25 accurate, and let me give you some accurate

1 numbers. There -- and these are raw numbers, 2 and they're raw because not only did I get them 3 through many people looking through case files 4 today back in the office and trying to 5 understand the various job titles that a 6 construction worker can hold and how can -- you 7 know, as many of you know, these people that 8 work at these sites hold the different jobs, 9 different job titles, as they move through 10 their careers. So there are a number of job 11 titles that we have to examine to determine how 12 many claims do we have that are relevant to construction trades. 13 14 In raw number, 4,387 claims have had some 15 mention of some -- in their work history, 16 development of some construction trade-related 17 job. We have -- pardon me? 18 **UNIDENTIFIED:** What was that number again? 19 MR. ELLIOTT: 4,387 total claims that we can 20 identify, just -- you know, without -- job 21 titles and in the work history file are not a 22 searchable -- by electronic means not 23 searchable. We have to go through a screening 24 process. So that's why this is a raw number. 25 I believe it's in the right ballpark, though.

1 2,548 of those claims have been completed, 2 using generic tools and dose of record. 168 of 3 those claims have been pulled by the Department 4 of Labor for a variety of reasons and -- or 5 they have been administratively closed by us or DOL. And administratively closed means, for 6 7 us, they didn't -- the claim was dose 8 reconstructed and the OCAS-1 wasn't signed, and 9 we give 60 days and then we give another 14 10 days grace period upon that, and if we still 11 don't have the OCAS-1, we administratively 12 close the claim. And if the claimant decides 13 to come back to us with either additional 14 information or a completed OCAS-1, then we'll -15 - we'll complete the -- the claim for them. 137 claims that have had construction trades 16 17 job title in it have been closed out under the 18 SEC classes that have been added, leaving 1,534 19 active claims, out of which right now 545 are 20 pended, awaiting this Technical Information 21 Bulletin. So I would offer that construction 22 trades has been a priority for us. It has not 23 been a forgotten group of workers by any 24 stretch of the imagination. So I just leave 25 you with that and I'll have a better report for

1	you with more details at your next meeting.
2	Yes, production has been going quite well for
3	us in completing dose reconstructions. We've
4	completed 13,590 draft dose reconstruction
5	reports that have been provided to the
6	claimants. This is as of March 31st, 2006.
7	12,715 of those dose reconstruction reports
8	have been sent to DOL, so the remainder, the
9	difference between the two numbers are those
10	claim reports that are in the hands of
11	claimants that we're awaiting an OCAS-1 on.
12	As you see here, 940 claims have been sent back
13	to Department of Labor for their determination
14	of eligibility within a specified class, and
15	the breakdown is is provided there for you
16	in that slide, and I will let you walk through
17	that yourself.
18	4,090 dose reconstruction reports have been
19	sent back to DOL out of our first 5,000 claims.
20	We we have a concerted effort to complete
21	the oldest claims first, and this gives you a
22	statistic on how well we're proceeding in that
23	regard. Of that in the earliest claims,
24	those first 5,000, there's 305 claims where the
25	draft dose reconstruction is laying with the

1	sitting with the the claimants and we're
2	awaiting that OCAS-1, so you can add that
3	number to the 4,090. We're we're close.
4	395 of the claims have been pulled for a
5	variety of reasons. Again, it's either in
6	the early days DOL sent us some claims that
7	were wrongly submitted to us. They weren't
8	cancer, or they were CLL; they pulled them
9	back. And again, you've heard me speak about
10	this, the worst situation where we have a
11	pulled claim is where there's a there's no
12	survivor and the Energy employee has died or
13	the last survivor has died and we've not
14	completed the case. I would continue to make
15	the same remark I've made in the past. That's
16	that's a very small number. It's not a
17	large proportion of these 395 claims. Forty-
18	six claims below 5,000 have been
19	administratively closed again, where we have
20	not received an OCAS-1. Those could be
21	reopened if we get an OCAS-1 back or if the
22	claimant comes back to us with additional
23	information that we need to consider in the
24	dose reconstruction.
25	108 claims are active at this point in time,

1	and we have put assigned 56 of those cases
2	for Battelle, another contractor, to do work
3	on. And these are primarily cases where there
4	are one or two per site in the AWE sites,
5	primarily. We've tasked Battelle, as I've
6	reported to you at last meeting, with pursuing
7	with all due diligence the completion of about
8	1,400 claims that represent over about 180
9	sites.
10	With regard to where we stand on the Special
11	Exposure Cohort classes, as you know, six
12	classes have been added to the Special Exposure
13	Cohort and they're listed here two at
14	Mallinckrodt for those two different time
15	frames; the Iowa Army Ammunition Plant also two
16	classes with two different, distinct time
17	frames; Y-12 in the early years, '43 to
18	through December of '47; and Linde Ceramics
19	Plant. One petition was was recommended to
20	be added to the SEC, but then the National
21	Bureau of Standards was deemed not a covered
22	facility at the conclusion of that and it was -
23	- a designation was not sent to add it as a
24	class.
25	Five petitions have been evaluated and provided

1 for your review. They are listed here and 2 you've taken action on -- on two of those at 3 this meeting, Nevada Test Site and Pacific 4 Proving Ground. And of course you've discussed 5 and deliberated on Rocky Flats and Y-12, as well, and have touched on the starting point of 6 7 your evaluation of -- of Ames. 8 Four petition evaluation reports are currently 9 in development. Those are Blockson Chemical, 10 Chapman Valve; the Fernald site, Feed Materials 11 Production Center; and the Oak Ridge Institute 12 for Science and Education. 13 We have 12 current requests to add a class to 14 the SEC that are going through the 15 qualification process, and in that regard we 16 have a Bethlehem Steel request, two from 17 Hanford, one from -- excuse me, two from Los 18 Alamos, one from Nuclear Metals, one from 19 NUMEC, one from Monsanto Chemical; and one that 20 covers multiple facilities, which I will note 21 for you is problematic because we are working with the petitioner to narrow it down to one 22 23 facility, that's required by our rule; then we have three new Y-12 petitions that we're 24 25 working with the petitioners on.

1 We have had 26 requests for classes to be added 2 to the SEC which we have administratively 3 closed. They were found not to have met the 4 basis for a petition. They were 5 administratively closed, that's one reason. Or they were withdrawn by the petitioners, or the 6 7 facility and the class for which they were 8 petitioning for was already in the SEC. So 9 those are the reasons why those 26 have been 10 administratively closed. 11 Now we'll move on to -- as part of the program 12 update from your last meeting, you met with 13 Bethlehem Steel and you asked that we provide 14 you an update on six outstanding issues that 15 were -- we had committed to develop further for 16 you, and that's what I'm going to present here, 17 the status of those six. 18 The first issue was whether or not the model 19 used for 1951 and 1952 exposures were -- was appropriate, was it fully appropriate in its --20 21 in its use of all information. We have 22 modified the site profile. That modification 23 is now complete. 1951 and 1952 will be treated 24 separately in the site profile and we have 25 incorporated the adjustment factor for 1951 air

1 samples that are used as the highest data point 2 for that year. This is all that was -- this 3 particular issue, as you know, as the others 4 were, were vetted in discussions with SC&A and 5 -- and with the Board. The second issue was the -- was the 95th 6 7 percentile does not take into account short-8 term episodic exposures. From your -- you can 9 go back into the discussion in the transcript and you'll find this is what I took from that. 10 11 The Board agreed in principle, but wanted 12 additional information about the time that was 13 required to cut out the cobbles. And we agreed 14 to work with Mr. Walker and stakeholders to determine if there was more information that 15 16 could be uncovered about were cobbles actually 17 cut with a cutting torch or how were they, the 18 cobbles, dismantled and what kind of exposure 19 would that have resulted in. And we're still 20 working on that. We're still working with Mr. 21 Walker to identify individuals that we can interview and gain information from about this 22 23 particular work practice. 24 The third issue is -- addresses ingestion, and 25 the site profile has been modified to

1 incorporate handling and -- ingestion intakes 2 based upon handling of other material. It's 3 based on an air concentration to surface 4 contamination and surface to ingestion transfer 5 factor, and so that's incorporated now into the 6 site profile. 7 The fourth issue was resuspension and whether 8 or not we had appropriately accounted for 9 resuspension of dust from various surfaces in 10 the floor and also the overhead structure in 11 the plant. We have incorporated guidelines 12 using the median value for -- of exposure for '49 through '50 and also then the median value 13 separately for '51 and '52 to address this 14 15 particular resuspension issue. 16 The fifth issue that was under study was an 17 issue raised by workers about the extended 18 contact with uranium, and they didn't feel that 19 our site profile addressed this adequately. 20 The site profile has now been modified and 21 assumes a 1.5 millirem per hour contact from clothing contamination and a -- that is 22 23 adjusted on a two-week behavioral practice of 24 washing the clothing and results in a 1.8 25 millirem -- or 1.8 rem per year from clothing

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contamination alone.

2 MS. MUNN: That's very generous. 3 MR. ELLIOTT: The last issue was the effect of 4 oronasal breathing, and this is a generic -- a general concern across several of our site 5 6 profiles, and we're working on that still, and 7 we'll be bringing forward generic guidance on 8 this issue in the future. 9 So Bethlehem Steel site profile has been 10 modified. We still have two of the six issues 11 that we're still working on, the cobble issue -12 - we're still working with the stakeholders -and this final issue of oronasal breathing. 13 14 And we'll be -- bring the guidance to the Board 15 for its deliberation at a future meeting. 16 Let's move on to science issues, and as you 17 know, we have proposed some scientific 18 modifications to our approaches, specifically 19 with regard to how we treat lymphoma cases. In 20 February of this year we put out a Federal 21 Register notice announcing that we were going to make this change, seeking public comment. 22 23 Specifically this change responds to our 24 evaluation of the current scientific data and 25 understanding of what tissues should be dose

1 reconstructed against with regard to lymphomas. 2 The injury of the radiation exposure can occur 3 at different tissue sites, and we want to make 4 sure that we're -- we're giving benefit of the 5 doubt as appropriate to the claimants. And if 6 we don't have that specific information, we do 7 select the tissue or the target organ that 8 would give them the most benefit of the doubt. 9 We -- it's noted here that this change may 10 result in DOL calculating higher POC 11 determinations, so we are re-evaluating all 12 completed claims. And I can tell you that there are around -- I believe five -- 536 13 14 completed claims that are being re-evaluated 15 right now, so these would be previously dose 16 reconstructed claims that have been found to be 17 non-compensable and now they're being re-18 evaluated against this new methodological 19 approach. 20 MS. MUNN: Are you getting lots of responses? 21 Comments? Not on this one, not MR. ELLIOTT: 22 that much. I think -- you can go to our web 23 site and we have a docket open for this, and I think we've had like -- I want to say about a 24 25 dozen, and they're all in favor of the change,

1 of course. And you know, questions like how 2 will this affect my dose reconstruction, but 3 I'm in favor of it if it helps me. That's kind of -- no real scientific --4 5 MS. MUNN: That was my --6 MR. ELLIOTT: -- debate going on about this 7 change. 8 MS. MUNN: That was my real question. 9 MR. ELLIOTT: Thank you. We've also proposed a 10 change to the NIOSH IREP lung cancer risk 11 model. We published a Federal Register notice 12 on March 24th, 2006, and that will be open for 13 comment from the public until May 23rd of this 14 year. We changed the guideline for determining 15 the probability of causation for Energy 16 employees with cancers of the lung, trachea or 17 bronchus. The new guideline bec -- we made it 18 effective on February 28, 2006 with the 19 introduction of our new IREP version of NIOSH 20 IREP and we did so because we wanted to start 21 treating cases at that time. We're -- we're 22 still involved in public comment and we 23 recognize that, and we'll address those 24 comments as they come in. And here again, I 25 don't know that I see a lot of public -- or

1 scientific concern or interest with this 2 change. This change is -- I remind you is in 3 concert with what the NCI IREP had provided, 4 and we find it to be claimant-favorable. 5 Now I give you some of the typical graphics 6 that we talk about when we give you our program 7 update. The blue line in this graph are cases 8 received from the Department of Labor. The 9 green line shows those draft dose 10 reconstruction reports that we have provided 11 back to claimants. And the red line shows 12 those final dose reconstruction reports that 13 have been sent on to DOL. And you can see that 14 -- I think very clearly that we're working off 15 our backlog. Not as quickly as I want, but 16 we're -- we're picking up the pace. 17 With regard to how we're standing with our 18 support from the Department of Energy on 19 exposure record requests, these -- each claim 20 has -- as soon as we get a claim from the 21 Department of Labor, we send a request for any 22 dose-related information, whether it's badge-23 related, TLD or bioassay, breath analysis, lung 24 count data, whatever they have acquired on an 25 individual for that claim, we ask them for

provision of that to us. I remind you that we don't use annual summaries. We want the raw data, the raw information, the raw count numbers.

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5 Right now we have a number of 274 outstanding 6 requests, and of that number 81 are greater 7 than 60 days. And I'll just jump in here and -8 - maybe for the sake of timeliness 'cause I 9 know I'm going to get this question. Of those 10 81 claims that are over 61 days, the Boeing 11 Company out in Santa Susana are our worst 12 offender there. We have 40 of the 81 that we 13 are persistently watching and monitoring 14 progress -- or lack of progress on those 15 claims. And these numbers do change. It's not 16 the same claim numbers in some instances. In 17 some it is. And so we're monitoring that very 18 closely. I have staff who provide OCAS and 19 ORAU and Battelle and DOE and the site contacts 20 at DOE a report every 30 days on where these 21 things stand. And she also tics off those that 22 seem to be problematic in some way and we fire 23 letters off to DOE, and we're working with DOE 24 to make sure that we have the information we're 25 requesting.

1	The biggest next biggest problem child would
2	be the Ohio Field Office, which covers
3	specifically Fernald, Mound and Battelle, the
4	King site, and West Jefferson Street site. And
5	so there's 23 cases there where they are over
6	60 days in response. And then the rest of the
7	remainder are distributed across a variety of
8	sites.
9	Right now we have 4,734 cases in what we call
10	pre-dose reconstruct or assignments
11	development, screening. These are where we're
12	gaining information, we're trying to triage the
13	case load and determine how best they can
14	they can be reconstructed, what tools should be
15	used.
16	We have 1,273 cases currently assigned with a
17	dose reconstructor. This was as of March 31st.
18	These numbers have changed, I'm sure, but the -
19	- there are 749 draft reports sent to the
20	claimants. We have, as I told you earlier,
21	completed 12,715 that have been sent to DOL for
22	decision.
23	Give you another graphic here. As you know, we
24	assign a tracking number to our claims.
25	Whereas the Department of Labor uses a Social

1 Security number, we use a tracking number and 2 we use this number in various ways, but here's 3 one way that we use it. We try to look at, by 4 1,000 increment cases, where we stand in the 5 completion of those cases. And of course we 6 are looking at the oldest cases and trying to 7 work those off our books before we deal with 8 those that are down in the 21,000 range. And 9 you can see what's going on there. 10 The blue cases are those that are completed. 11 The red cases are those that have been pulled 12 or administratively closed. And the green 13 cases are those that have been pended. Again, 14 I'll remind you pended -- the construction 15 workers is an example. There are a variety of 16 reasons why a case might be pended. For 17 technical reasons, it could be pended because 18 we're -- we're hearing from DOL that they're 19 developing further information on the claim and 20 we don't need to be expending our resources 21 doing dose reconstruction until they provide us 22 that additional development, whether it's 23 another cancer or additional employment. And I 24 think I've explained cases pulled and cases 25 administratively closed, so I won't -- unless

1 there's questions, I won't belabor that point. 2 This is just to show you how many cases and by 3 -- by month from the start of our dose 4 reconstruction experience how many cases we 5 have administratively closed. I think perhaps 6 at the next meeting I'm going to add something 7 to this slide that will show you how many we 8 have re-opened and then re-closed with a --9 with a final decision, 'cause there are some of 10 those that are happening now. They're coming 11 back to us and saying well, I do want a 12 decision, or I've got additional information 13 and we complete the dose reconstruction and 14 move the claim on. And so -- but this gives 15 you a sense that it's -- it's not a lot. 16 Reworks, I think this is my last slide. 17 Reworks -- here again, you -- you may have 18 heard me mention this -- I don't know which day 19 it is now or which day I said this earlier in 20 the week, but the reworks that are returned to 21 us from DOL based upon a need to redo the dose 22 reconstruction for a variety of reasons -- it 23 can be additional cancers, it can be additional 24 employment that's been developed, or it can be 25 a technical issue with how we did the dose

1 reconstruction, a complaint or appeal point on 2 -- we didn't factor something in. And as you 3 see here, we're running about a 9.8 percent 4 rework return rate, and I said earlier in the 5 week that less than two percent of those are 6 really technical reworks where we have to 7 rework the case because we didn't account for 8 something in a dose reconstruction we should 9 have. So the seven percent -- almost seven 10 percent is due to additional employment or 11 additional cancer. 12 And I think that concludes my presentation. 13 I'd --14 DR. ZIEMER: Yeah, very good, Larry. 15 MR. ELLIOTT: -- questions. 16 DR. ZIEMER: Let's see if there's additional 17 questions now. Jim? 18 DR. MELIUS: I did cross off the DOE question. 19 MR. ELLIOTT: I didn't anticipate the other 20 one, though. 21 DR. MELIUS: Yeah. Well, first there's a 22 comment and it was a slide you put up reminded 23 me of -- we're talking about possible sites. 24 One that might come to mind that we might be 25 ready and -- in terms of a -- these are the

1	ones that where we've had SEC petitions that
2	are currently under evaluation. Chapman Valve
3	I think is in Springfield, Massachusetts area,
4	and I believe there's a fair number of cases
5	not a huge it's a huge facility. It's
6	this the AEC part of it was small, so atomic
7	weapons part of it was small, so but I think
8	there's been some public meetings there, some -
9	- some interest. Richard Miller will invite
10	you to his all of us to his house for dinner
11	lives up there, he lives near there, but
12	that might be someone Springfield area we
13	may want to think about. Hartford airport's
14	not that far away Hartford/Springfield
15	airport doing that. And then and I don't
16	know, at some point Cincinnati I think
17	Fernald under at least my guess from the size
18	of the infor amount of information and so
19	forth, it's going to take some time before
20	you're ready to I'm not sure that'll be
21	ready by September, but we we may want to
22	think put Cincinnati on the list of a place
23	to visit. And then the final place a little
24	bit of a question this, but came up during
25	the Congressional hearing, it's Rocketdyne.

1 MR. ELLIOTT: Rockedyne --2 DR. MELIUS: Yeah. 3 MR. ELLIOTT: -- out in California? 4 DR. MELIUS: Yeah, out in California and so 5 forth. Certainly the Congressman out there was interested and I understand there's been some 6 7 delays related to issues of -- of which parts 8 of the facility were -- were covered and so 9 forth, which I -- I think's delayed, but again 10 might be a possibility for --11 DR. ZIEMER: Have we had claims from Rockedyne? 12 MR. ELLIOTT: Yes, we have. 13 DR. MELIUS: Yeah. 14 MR. ELLIOTT: And if I can help you out there a 15 little bit in this regard, the Chapman Valve 16 evaluation report, it's our full intention to 17 meet the 180-day mark there, and that will be due May 8th --18 19 DR. MELIUS: Okay. 20 MR. ELLIOTT: -- to you. We hope to get that 21 in your hands May 8th and meet our deadline 22 there. The Fernald -- Fernald petition didn't 23 qualify till April 6th of this year, so 180 24 days or six months, you've got a -- we've got a 25 while for that. Let me see, we've got the Oak

1 Ridge National Institute for Nuclear Studies, 2 ORINS, and that is -- that's due -- that's 3 imminent, I think we're -- probably next week, 4 due for that one. It qualified on October 6th 5 of '05, so maybe we're over -- a little bit 6 overdue on that. 7 DR. WADE: Just -- when you mention Chapman 8 Valve, then you said May. It's quite possible 9 that the workgroup on SEC petitions might want 10 to consider that evaluation report when it 11 comes out and decide what it might want to do 12 in terms of having SC&A look at it. 13 DR. MELIUS: Okay. Yeah, that's a good... 14 MR. ELLIOTT: We also have Blockson Chemical. 15 DR. MELIUS: Yeah. 16 MR. ELLIOTT: Blockson Chemical was qualified 17 in March of this year, so --18 DR. MELIUS: Where -- is that Joliet or where's 19 -- where's --20 MR. ELLIOTT: It's around there somewhere. 21 DR. MELIUS: Yeah, that -- so that'd be the 22 Chicago area, so be another -- it's like --23 it'd be helpful -- Chapman -- well, depends on 24 the report and our evaluation whether we'd --25 DR. ZIEMER: We could pick up a couple in the

1 Chicago area 'cause Argonne National Lab of 2 course is a big site, and I don't know if 3 Batavia has any eligible people. They're 4 probably too new, the accelerator. 5 DR. MELIUS: Anyway, just so I have some 6 questions. One is just back to -- not to get 7 into a debate or -- or whatever but just to 8 point out, in Dr. Ringen's defense, I do 9 believe the 5,000 pending case -- construction 10 case figure came -- at least was based on some 11 information from another source within ORAU or 12 NIOSH, and I think the best way to resolve this 13 is a full report so -- at the next meeting, so 14 let's move -- move forward on that -- that 15 basis and so forth. And do that. 16 The -- and I appreciate the update on Bethlehem 17 and making progress, so I'm not sure Mr. Walker 18 will be as pleased, as always, but I'm glad 19 you're making progress and following through on 20 that. 21 One of the issues that's come up in public 22 meetings, and I'm not saying it's a huge 23 problem and so forth but it's certainly a 24 difficult one, embarrassing one in some ways, 25 and that's cases where there are errors in

1 terms of the organ -- communication errors with 2 the -- with the claimants or years worked that 3 don't -- you know, where your records don't 4 match what the records that the claimant has 5 and so forth. And I would view these more as 6 sort of QA/QC problems that -- that go along. And we really -- at one point several years ago 7 8 we had a -- a working group that looked at that 9 issue, and met with you and so forth 'cause 10 Tony Andrade, myself, I forget who else was 11 part of that, but reviewed. And maybe some 12 thought that that would be a topic for 13 presentations --14 MR. ELLIOTT: We certainly would -- I would 15 welcome the opportunity to present to you on 16 our quality control program. But I'd offer 17 this. What you heard last night, what you 18 heard in Oak Ridge about the discrepancies in 19 communication were not ours. These are DOL 20 letters. 21 DR. MELIUS: No, no, I -- I --MR. ELLIOTT: Pete and I talked about this. 22 23 DR. MELIUS: No, I understand, but there have 24 been --25 MR. ELLIOTT: I have no control over what they

cut and paste.

2	DR. MELIUS: Yeah, I I think we understand
3	that, it's just that there there have been
4	other instances where it's been NIOSH issues
5	and so forth, and I'm not speaking to the
6	particular instances, but I'm just thinking in
7	terms of timeliness of us
8	MR. ELLIOTT: Sure.
9	DR. MELIUS: addressing that issue again
10	'cause I think it's good
11	MR. ELLIOTT: We would be happy to present on
12	quality control/quality assurance.
13	DR. MELIUS: Yeah, be good, 'cause I I
14	suspect it's changed and improved since we
15	looked at it, and that that would be good.
16	Му
17	DR. ZIEMER: Well, let me interrupt there for
18	just a minute, too, because in thinking about
19	that yesterday I wondered and I don't know
20	the answer to this, but I wondered to what
21	extent our own contractor is focusing so much
22	on the technical issues that perhaps is not
23	looking at did they record do they have the
24	right starting information and so on, which is
25	part of an audit, as well. And per I think

1 most of the -- well, maybe -- Hans, you're 2 still here. Do you guys look at that at all? 3 You know, do they have the right dates and so 4 on? Are you still looking at that? I couldn't 5 remember whether you were or not 'cause we -we tend to focus on all the more technical 6 7 issues. 8 DR. MELIUS: Yeah, that -- that --9 MS. MUNN: They have a task. 10 DR. MELIUS: They -- they -- they do that, and 11 I think they pointed out some small 12 discrepancies that -- that are questions about 13 -- certainly have arisen about that. To me, 14 it's the type -- I don't think we necessarily 15 would want them to focus on that, which might require a different kind of sampling and 16 17 evaluation --18 DR. ZIEMER: No, but if they're already doing 19 it --20 DR. MELIUS: Yeah, they -- they certainly 21 should include it, I agree, and I think it's more how sort of NIOSH does its QA and QC in 22 23 this issue. 24 DR. ZIEMER: Roy, any comment on that? 25 DR. DEHART: Yes, just a question. When there

1 is DOL error, is there feedback to them? Are 2 they aware that we may be picking up something 3 or a claimant is? **MR. ELLIOTT:** Well, I -- I know Jeff was here 4 5 in the audience last night. I'm sure he took 6 notes of that. I know that Pete's been made 7 aware of what we heard in Oak Ridge. In fact, 8 I pulled a lady in Oak Ridge aside to -- 'cause 9 I was very concerned. If you recall her 10 remarks, she was given a dose reconstruction 11 report with the wrong cancer and the wrong SSN, 12 so when I looked at the report, it was not our 13 dose reconstruction report. It was Pete's 14 letter or his District Office letter informing 15 them of the decision. So you know, I recog--16 DR. WADE: Just for the record, I forget the 17 young lady's name from DOL who was at the 18 meeting, but she went right up to that lady and 19 made contact --20 MR. ELLIOTT: Yeah. 21 DR. WADE: -- immediately. MR. ELLIOTT: 22 Yeah. 23 DR. WADE: Uh-huh. 24 MR. ELLIOTT: Yeah, we're -- we're -- we share 25 these things, and I'm sure Jeff took notes last

1 night. We're trying to be coordinated on this. 2 DR. ZIEMER: Thanks. Go ahead, Jim, you were 3 4 DR. MELIUS: Yeah, and my --5 DR. ZIEMER: -- one other. 6 DR. MELIUS: -- my final questions, I believe 7 at the tail end of our last meeting there was 8 some -- some work that SC&A reported on some 9 doses where there appeared to have been some 10 overestimates on their doses, and you were 11 going to do some follow-up, Larry, and I'm just 12 trying to get an update on where that stands. 13 MR. ELLIOTT: And I was expecting that to be a 14 point of discussion in the review of the fourth 15 round, and I'm sure it will be, but yes, we 16 have looked at that very carefully. This was 17 an instance in a point in time where we were 18 working very hard to complete cases as fast as 19 we could and we were trying to be as timely as 20 we could. We chose to use a methodology that 21 would -- was intended to be an overestimating 22 methodology to show non-compensability, and it 23 got used in the wrong way and we found some 24 quality control issues and how we reported that 25 in some of the -- some of the dose

1 reconstruction reports, and it was not clear 2 that our methodology was being appropriately 3 used. And we're very cognizant of that. We 4 know exactly how many of those cases were done 5 that way. We're looking carefully at the 6 report language and we'll be going back and 7 making any changes as we need to for those 8 individual reports. I'll have better -- better 9 statistics and details on where we stand with 10 that when we take that up in the fourth round 11 review. 12 **DR. MELIUS:** Okay. Thanks, Larry. 13 DR. ZIEMER: Wanda? 14 MS. MUNN: You know, sometimes I think we may 15 see these reports as -- as of primary interest 16 to us, and certainly the kind of report that 17 Larry just gives us in -- can be easily 18 segregated into two things. One of them is 19 where are we with cases and how is the daily work progressing that the public sees. And the 20 21 other is where are we with SECs and -- and site 22 profiles, things that I think of as internal 23 Board activities. We're more interested in 24 that than anything else. But it strikes me --25 didn't we earlier in our program sort of as a
1 matter of course have both NIOSH and Labor do 2 some -- some graphs and here's where the whole 3 program is, up front, earlier, so that -- that 4 the public and the petitioners who were there 5 had an opportunity to see where we were --6 DR. ZIEMER: Yeah, actually it used to be at 7 the front end of the program. I think what has 8 happened here was taking into consideration I 9 believe the concern about having quorums for 10 the vote. Is that not the case, Lew, sort of -11 12 DR. WADE: Right, although -- I mean I think 13 Wanda's point is well made. 14 **DR. ZIEMER:** Yeah, it certainly would be useful 15 for the general public to hear some of these 16 figures. 17 I really think it's just crucial for MS. MUNN: 18 them to see this. We -- we have -- we have 19 public meetings where we do everything we can 20 to get as many people here and to tell us what 21 their concerns are. But one of the overriding 22 concerns appears to always be you're not moving 23 fast enough and you're not doing things we feel 24 that you ought to be doing. But if they don't 25 see the progress numbers, if -- if we hold this

1 closely into -- to a little group --2 DR. ZIEMER: I think that's an excellent point. 3 MS. MUNN: I really -- I can see how Larry's 4 report -- that -- that type of report can 5 easily be divided into two things. But the --6 the overall program report seems to me, both 7 from NIOSH and Labor, would do very well to go 8 up front. 9 DR. ZIEMER: Thank you. 10 DR. WADE: If I either remember or find my note 11 that I just made, that's what I'll do. 12 We'll remind him. DR. ZIEMER: 13 DR. WADE: And if you remember to remind me. 14 DR. ZIEMER: It's been -- it's interesting, 15 because we used to have two-day meetings, also. 16 MS. MUNN: Yes, yes. 17 And we are packing more and more DR. ZIEMER: 18 into our meetings, and in the press for time I 19 think this has occurred. I think the point is 20 a good one in terms of the fact that the 21 general public is more likely to be around at 22 that point and have the opportunity to sort of 23 get an overview of what's happening. 24 MS. MUNN: And there's a great -- an enormous 25 impact in the enormity of the final numbers, as

well. The perception that claims are not being paid cannot continue to be made in the light of -- of the millions of dollars that have already gone out.

DR. MELIUS: Yeah.

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DR. ZIEMER: Jim.

7 DR. MELIUS: Yeah, only my recollection -- and 8 it may be wrong -- is that we used to provide 9 some of that information as a handout sheet or 10 something for the public meeting portion, the 11 evening meeting, and I frankly haven't been 12 paying attention recently as to whether that's 13 been done, but -- but that may be another way of getting the information out 'cause a lot of 14 15 the people that are at the evening meeting are 16 not the people at the -- during the daytime. 17 DR. ZIEMER: Well, that's certainly true, and 18 of course the information is available on the 19 tables, but I don't believe we ever had the 20 presentation at the evening meetings. 21 MR. ELLIOTT: We didn't do the presentation, 22 but I can assure you that my slides have always 23 been on the table at the start of the meeting, 24 so --25 DR. MELIUS: But I would say -- you know, we

1 may want to format it a little bit more --2 friendlier to the public rather than as slides, 3 and have some sort of a handout available and -4 - and actually hand it out, draw attention to 5 it. How much time we spend on it may be a 6 separate issue, and it's not separate from what 7 gets presented, but -- we don't want to change 8 how we present it or anything, but I think some 9 more active outreach at -- at those meetings 10 would be -- in that way would be -- in an 11 educational sense would be helpful. I know Larry has staff here. DOL at times has had 12 13 staff at these meetings that help people with 14 claims issues and -- and so forth, so I think 15 that's another important part of a -- of that. 16 DR. ZIEMER: Let me suggest something you might 17 think about and that is to have a truncated 18 version of these reports that we might include 19 in public comment period as -- at the 20 beginning, kind of an overview of -- so people 21 can see, you know, where does Rocky Flats fit 22 into the scheme of things, what else is going 23 on. 24 MR. ELLIOTT: Two or three slides. 25 MS. MUNN: Uh-huh.

1 DR. ZIEMER: And I think it may also help 2 people understand perhaps that not all of this 3 can be done at one time. 4 MR. ELLIOTT: Yeah, if that's what you want, 5 I'm sure I can --DR. ZIEMER: Well, let's give it some thought 6 7 as to how -- obviously the people have not come 8 to hear us give lengthy papers. But a five or 9 ten-minute capsule at the beginning, overview 10 of --11 MR. ELLIOTT: Two or three slides I think would 12 _ _ 13 DR. ZIEMER: -- might be a good way to kick off 14 -- we might think about that as formatting the 15 meeting next time, and then go from there. 16 MR. ELLIOTT: Very good suggestions, I 17 appreciate hearing this. And I would be remiss if I didn't comment on the -- on the staff that 18 19 are here that you probably didn't see this 20 I know in Oak Ridge you saw them 'cause time. 21 they were -- we were all cramped together in 22 the entryway aisle and that presented us some 23 problems with Privacy Act concerns. But staff 24 were here. We had two health physi-- or two 25 public health advisors here who had scheduled

1	appointments. They worked a 10-hour day, plus
2	the meeting yesterday. I believe they saw on
3	order of about 85 claimants this time.
4	We were also doing we we have at the
5	next meeting I'll give you a little bit more on
6	my program report about our communication
7	efforts. Right now we have some increased
8	efforts on communications. We're revising the
9	dose reconstruction report, hopefully to make
10	it more reader-friendly and understandable. I
11	want to be able to just tell you where we're at
12	on that.
13	We're upgrading our web site. I want to be
14	able to tell you what's going on with that.
15	There is so much information on our web site
16	right now it's hard to navigate, it's hard to
17	find, and I want to take an opportunity to
18	point folks to some tools that exist or will
19	exist on the web site that will enable people
20	to find things that they want to see.
21	DR. ZIEMER: Good.
22	MR. ELLIOTT: Also I want to I want to make
23	note of what goes on in these interviews with
24	claimants. Yes, they are talking about
25	individual claims, but they're equipped to

1	answer questions like how many cases have you
2	done, so they have my presentation, they're
3	able to point to it. They're they're
4	equipped to bring a technical question out here
5	and bring it in front and get a health
6	physicist, bring you know, Stu or LaVon or
7	whoever's here, Jim and take them back and
8	answer their technical questions if they don't
9	feel comfortable and confident in responding on
10	that regard.
11	So I'll I'll factor that into my
12	presentation for you next meeting to tell you
13	what all we're doing in communications.
14	DR. ZIEMER: Good. Another comment, Jim?
15	DR. MELIUS: No, actually a question 'cause
16	Larry reminded me of it that's on the web
17	site. Are the Battelle conflict of interest
18	information posted for the dose reconstructions
19	that they're doing? 'Cause I actually looked
20	for it a while ago and it was I had trouble
21	finding it.
22	MR. ELLIOTT: It wasn't there probably a month
23	ago.
24	DR. MELIUS: Okay.
25	MR. ELLIOTT: I think around two weeks ago we

got their link. The way we have to operate in this regard is that the contracting entity has to have on their web site the disclosure statements --DR. MELIUS: Right. **MR. ELLIOTT:** -- and they were putting that in. We have to have a link then that takes you there. We do have and did have the Battelle conflict of interest policy, which is essentially the same as SC&A's. And we have been working with Battelle and ORAU and EG&G, which is another contractor you haven't heard much about, but EG&G provides Jim's staff or the science staff technical support in the science arena. So they're -- they're back crunching numbers and doing various things, but we want to make sure that they address their staff with full disclosure and abide by the conflict of interest policy, as well. And so

EG&G will have a link on our site, too, very

shortly. They're not up there right now, I

Thanks. Other question --

don't believe.

DR. ZIEMER:

comments?

DR. MELIUS: Okay, good.

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1 PROGRAM UPDATES, DOL, MR. PETER TURCIC 2 Okay, then we're ready to hear the Department 3 of Labor report. Pete, welcome back. 4 MR. ELLIOTT: You've got a slide show? 5 MR. TURCIC: Yeah. 6 (Pause) 7 DR. ZIEMER: Pete, we do have the handouts if 8 you want to --9 MR. TURCIC: Okay, why don't I just go --10 DR. ZIEMER: Maybe you can just --11 DR. WADE: Does everybody have the handouts? 12 MR. TURCIC: Yeah. 13 DR. ZIEMER: There are copies on the table. 14 It's just a two-pager with --15 MR. TURCIC: Yeah, and rather than just 16 repeating it all, maybe I'll just hit some --17 some issues that, you know, just -- has come up and try to address -- you know, I think that 18 19 was a very good point that Wanda raised. 20 And in the -- in the slides I think what gets 21 to the heart of it is the back -- the back 22 page, I think. And if you look at that, it's 23 the total compensation issued. And this is, 24 you know, in Part B. And you know, to date --25 well, as of April 13th -- Part B payments --

1	there was 18,526 payments, in excess of \$1.46
2	billion dollars. Now in addition and then -
3	- you know, in addition, nearly \$100 million in
4	medical benefits. And then if you go over and,
5	you know, look at the Part E statistics
6	which Part E has only been in existence now for
7	a little bit over a year you know, we've
8	paid over \$300 million in Part E already.
9	One of the on the under the section on
10	compensation of the NIOSH cases, you know, it's
11	showing \$373 million have been paid to 3,521
12	individuals. But something that needs added on
13	there, you know, that only includes cases for
14	which a dose reconstruction was done. So we
15	have about 1,000 new SEC cases that are being
16	paid, so really you need to add about another
17	\$150 million onto that. So in round numbers,
18	it's about a half a billion dollars now has
19	been paid directly from the work that, you
20	know, NIOSH has accomplished.
21	And just just some of the other points, in
22	Part B, you know, we had 73,000 cases, which is
23	about or 73,000 claims. It's about 52,000
24	cases involved. And in our District Office
25	over 40,000 nearly 41,000 have recommended

1 decisions and another 11,300-some are what we 2 call pending. So that would include cases that 3 are at NIOSH, plus our normal work flow. And 4 we normally have about a two-month to three-5 month backlog -- or working inventory of -- of 6 cases, you know, that -- that fall into that 7 category. 8 And we show pending at NIOSH 7,900. Now that's 9 a little bit different because in our pending 10 at NIOSH, if it goes -- because of the way our 11 -- you know, the system works and we get the 12 counts, if a case goes back for a rework, then 13 that gets counted back in, you know, as a case 14 that's -- that's at NIOSH. 15 And under final decisions in our claims, I 16 think it's an interesting point and it's 17 something that will be going away now. If you 18 notice that under final decisions denied, over 19 29,000 denied, almost 11,000 of those were non-20 covered conditions. We had an awful lot of 21 cases that were asbestosis, COPD, that was 22 filed under Part B. Now that'll go away now 23 because we no longer have people file under B 24 or E. They merely file a claim now. Yeah, so 25 if it's a DOE facility, you know, and it's a

1 cancer, then it gets -- a cancer or beryllium 2 disease or silicosis, it gets a B -- we just 3 write the decision, and the decision will say, 4 you know, whether it's denied -- approved or 5 denied, and then benefits. You know, you're entitled to certain benefits under B and 6 7 certain benefits under E. So that's -- the only way -- a claimant can still insist, and we 8 9 do have claimants that insist, no, I want it 10 evaluated under B, also. Then we would have to 11 take that case and, you know, issue a denial 12 for non-covered condition. So that -- that 13 number will -- you know, for all intents and 14 purposes, under the B statistics, should 15 disappear in the future. The NIOSH referrals, our count is near 21,000 16 17 with 12,000 -- over 12,300 returned with dose 18 reconstructions. Another 1,101 returned where 19 dose reconstruction not required, so that would 20 include the -- the ones that are pulled for, 21 you know, an SEC. 22 And then there's the breakdown, the cases with 23 recommended decisions -- you know, 3,000 to 24 approve, 8,200 to deny. And then those that --25 those gone all the way to a final decision,

1 2,567 to approve, 7,000 to deny. 2 One of the other points that I wanted to make, 3 the issue that when -- that came up about 4 Boeing, to give you a little update on that, 5 there was a delay, and I think -- you know, the 6 cases were pended with NIOSH and it's probably 7 why DOE, you know, was slow on responding. The 8 issue was that DOE -- and Boeing was -- was 9 basically interpreting -- the Santa Susana 10 Field Laboratory is kind of a inter-- a mixed 11 campus, and DOE had a portion in what's called 12 Area Four. Well, after the amendment and after 13 our regs came out, the -- it's now DOL's 14 determination of what is a DOE facility. 15 Now Boeing was interpreting that only people 16 were covered were those that were in that area 17 that were actually working on DOE projects. 18 Well, but that's not -- that doesn't fit with 19 the real definition of a DOE facility. And so 20 now we've come out and all of Area Four is a 21 DOE facility, so there were a lot of people 22 that Boeing and -- and DOE were saying were not 23 covered that now are covered, and that probably 24 amounts to some of the delay. And in fact, on 25 May 9th I'll be meeting -- I'm going to a

1 meeting out there with some of the groups, and 2 one of them is Boeing, in order to, you know, 3 let them understand better about the program 4 and what our definition was and so, you know, 5 their response hopefully will, you know, start to improve after -- after they have some of 6 7 that understanding. 8 On -- on the issue -- you were talking about 9 looking at the dates -- you know, the dates 10 don't match. 11 DR. MELIUS: Uh-huh. 12 MR. TURCIC: One caution there, the dates have 13 to match what is accepted employment. 14 Oftentimes what's on the claim form will not 15 match what is in the dose reconstruction or the decision because sometimes, you know, some of 16 17 that employment may not be covered. I mean we had a lot of people that were -- they might 18 19 have had time as a subcontractor, for example, 20 at an AWE. That doesn't count. So even though 21 their employment, you know, may be longer, 22 really what needs to match is what is in the 23 dose reconstruction and what is in what we send 24 as the NIOSH referral document, which means 25 that here is the employment that is actually

1 covered. And -- and again, those often are 2 quite different. 3 And with that, I think if -- if there are any 4 questions --5 DR. ZIEMER: Thank you, Pete, and actually I think the Rocky slides -- Rocky Flats slide 6 7 that you didn't mention --8 MR. TURCIC: Oh --9 DR. ZIEMER: -- would have been very 10 interesting to the folks here tonight (sic) and 11 is interesting to me. I certainly didn't 12 realize that basically \$22 million in claims 13 has already been awarded to Rocky Flats 14 workers. That probably would have come as a 15 surprise to many of the folks here last night. 16 Other comments or questions? Yes, Michael? 17 MR. GIBSON: Pete, you mentioned about the -the Boeing facility and that you've made a 18 19 determination that everyone at the site's covered, you know, if the -- not --20 21 MR. TURCIC: The entire Area Four at the Santa 22 Susana Field is the DOE facility. 23 **MR. GIBSON:** But didn't -- if -- did I hear you 24 right to say that they thought just the people 25 working on DOE projects were covered, but in

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fact everyone there --

2 MR. TURCIC: Yes. See, there was intermixed --3 at Area Four there could have been people --4 Rockedyne and -- it was kind of an intermix, 5 and a lot of people used the word Rockedyne for 6 the facility. But to explain what that really 7 was, the -- and to make the determination of what the DOE facility was, you have to go back 8 9 to the contractor. And see, the contract was 10 with North American Aviation and not Rockedyne. 11 Really there's no such thing as Rockedyne. 12 It's merely a division of North American 13 Aviation. So what we were getting back on 14 employment when we would -- when we would send 15 for employment, basically we would get back yes 16 and no from DOE -- really from Boeing through 17 DOE, and so then when these issues came up we 18 started asking for -- you know, and looking 19 behind that, and basically what was behind that 20 was anybody who was listed as Rockedyne was 21 automatically kind of excluded like they -- but 22 they were actually doing the work, because the 23 contract also allowed, you know, them to use 24 anybody at the facility to do the work. So now 25 that's all been resolved.

1 MR. GIBSON: Okay. I -- I don't know if you're 2 aware and I just wonder how you guys have or 3 would interpret this. Of the accelerated 4 clean-up sites -- I mean I know Rocky's turned into a wildlife refuge, but Mound is going to 5 6 be an industrial park. We've demolished some 7 buildings. Some buildings we've decontami --8 they've decontaminated now and are co-inhabited 9 by private businesses, but it's still a DOE 10 facility until the clean-up is finished and the 11 work is done, and there's a -- and it's deeded 12 over to the city. So would these private 13 employers be covered under this --14 MR. TURCIC: On-- only if -- that -- that's a 15 good point. They would be if there was a 16 contract with DOE for them to do operation or 17 maintenance. 18 DR. ZIEMER: Interesting. Pete, in the case we 19 heard last night where the woman pointed out 20 that her husband's claim record showed that he 21 started two years earlier than he actually did, 22 was she misunderstanding or misinterpreting 23 that, or --24 MR. TURCIC: I would have to look at the 25 specific case, but -- but -- oh, we've had

1 that. We have had -- that is not uncommon. 2 Probably the biggest one that I've heard of was 3 -- ended up being like an addition of 17 years. 4 But here it was -- the wife knew nothing about 5 that 17 years, and when we went and started 6 doing the employment verification, we found 7 that there was significant employment prior to 8 the -- the -- you know, the spouse even 9 knowing. 10 DR. NETON: I -- I could speak briefly to 11 There are situations that we find where that. the Department of Labor will send us the start 12 13 of covered employment and we will go back and get the records and we'll find bioassay samples 14 15 from maybe two years prior to the start. And 16 usually what happens there is the person may 17 have started as a subcontractor for those two 18 previous years and then hired on at the 19 facility and -- and those subcontractor -- is not covered, so it would appear to be a 20 21 difference in the employment history that is 22 explained. 23 DR. ZIEMER: Uh-huh. 24 DR. MELIUS: It just -- my point was not to 25 make any accusations of who was responsible or

1 anything, it was more -- more of the QA/QC 2 thing. There ought to be something in the 3 system that would, you know, notate that or 4 explain that and just -- to make sure that gets 5 -- that gets carried through. We're -- we're -6 - and some of that's the communication between 7 NIOSH and -- and DOL on -- on these issues and 8 that's --9 MR. TURCIC: Well -- well, a lot of it. I'11 10 tell you what a lot of it is, and a lot of it 11 is that, you know, in the last six months we 12 hired 200 new claims examiners. And you know, 13 when -- when we're -- at the rate we're making decisions now -- you know, for the last few 14 15 months, we've been issuing in the neighborhood of anywhere from 1,000 to 1,300 recommended 16 17 decisions a week. And there is a lot of cut 18 and pasting going on and we -- we -- we're 19 always working on that. And it's useful to 20 hear, you know, issues. Like some of the 21 issues that I heard of was the issue on when 22 some claimants are getting letters under Part E 23 asking for their doctor to make a 24 determination. Well, really what that is, and 25 maybe it's not clear in the letter and we need

1 to, you know, take a better look at that. All 2 they're doing is giving the claimant the 3 opportunity for their physician to make some 4 link. And a lot of times it's some illness 5 that there is no known, you know, occupational 6 exposure and -- but to give the due process, 7 we're giving the opportunity, you know -- if 8 your physician can -- we can't find anything 9 that's -- you were exposed to that explains 10 this illness. If your physician wants to give 11 a rationale, then that's needed. 12 The other -- the other issue on the 30 days 13 that -- that seems to be -- and these are 14 really starting to take off now -- are --15 claimants have an option to get their 16 impairment ratings done. We give them an 17 option. One, they can -- they can choose to go to anybody they want and have an impairment 18 19 rating done and submit it. And if it meets the 20 criteria, we would use that and issue a 21 decision. Or they can choose to have certain 22 tests done that they can go get done anywhere, 23 and then we would have the impairment rating 24 done for them. One of the letters that go out 25 -- when that letter goes out, it -- it tells

1	them see, we have no idea, especially on the
2	25,000 claims that we got from DOE, we have no
3	idea are they really claiming impairment.
4	We've made a causation decision. We said okay,
5	this illness is caused, but we don't know
6	whether they're claiming wage loss or claiming
7	impairment. So a letter goes out that says we
8	need to know if you're claiming impairment.
9	Now if you want to get your and we need that
10	we're asking for that in 30 days. If you
11	want to get your your own tests done, here
12	are the tests you know, asbestosis, here are
13	the pulmonary function tests that you need to
14	get and all that. And I mean we realize
15	that that's not you can't make an
16	appointment with a doctor and get in to see
17	them that quickly, so there's some and we
18	need to polish our our letters to to do a
19	better job.
20	There's a lot of confusion, for example, when
21	people get the OCAS-1 and about well, if
22	they disagree with it, where can they appeal
23	it. So we have a draft that we're about ready
24	to send to Larry of coming up with a flyer
25	that we're you know, that could be included

1 and then the same thing on a recommended 2 decision. You know, the flyer would say you're 3 not agreeing with this. If you have issues 4 when you get your recommended decision, that's 5 where you appeal those issues. So we're --6 we're trying to -- to -- but it is a complex 7 program. 8 DR. MELIUS: Just one -- one request for Pete 9 rela -- related to sites for public meetings, 10 since we've made the rounds of a lot of places. 11 Certainly if you or your fie-- you know, 12 District Office or whate-- have a site where 13 you're hearing a lot of questions about the SEC 14 or this program and so forth and you think it'd 15 be worthwhile for us to have a meeting out 16 there, I think we'd appreciate the --17 MR. TURCIC: The Simi Valley area would be a 18 good -- good area because people have been 19 waiting. You know, it was a -- a legal 20 question that took a long time, so that -- and 21 there are quite a few claims out there. 22 DR. MELIUS: I think you have a site report 23 you're working on, Larry, or -- is that -- no, 24 no, it's not, just the -- okay. 25 MR. ELLIOTT: Don't have enough claims to

1 warrant that. 2 DR. MELIUS: Okay. 3 DR. ZIEMER: Stu, did you have a comment? 4 **MR. HINNEFELD:** (inaudible) 5 THE COURT REPORTER: I'm not getting that. 6 MS. MUNN: He's not getting anything. 7 DR. ZIEMER: Say that again, Stu. 8 MR. HINNEFELD: Is that not on? 9 DR. MELIUS: Yeah, that's what -- I think that 10 was the issue that came up at the hearing, and 11 that issue was related back to the decision 12 you know, how can you do a site profile unless you know what the site is kind of thing and --13 14 DR. ZIEMER: We want to get Stu's comment on 15 the record here again. 16 DR. WADE: Stu's been amazingly silent at this 17 meeting so we can get him on the record. 18 MR. HINNEFELD: Probably everybody's benefit 19 that I don't say much at these meetings. Yeah, 20 we have just recently finished a site profile 21 for the Santa Susana Area Four facility, and 22 there's some related facilities in the 23 neighborhood that are -- that these people also 24 did this same related work at, and they're all 25 covered in this at -- it was known at ETEC for

1 a while and what, AI, Atomics International, 2 was that their term-- or is that somebody else? 3 DR. MELIUS: Yeah, I -- it's --MR. HINNEFELD: It's any number but we're --4 5 but we're pretty clear on the -- on the names 6 of the facilities now and so -- and they're --7 they are all called out in that site profile. 8 DR. MELIUS: Yeah, and it is names. That's the 9 problem. 10 DR. ZIEMER: Thank you. Let me ask if there's 11 anything else to come before the Board this 12 afternoon? 13 (No responses) 14 If not, we thank everyone. We stand adjourned. 15 (Whereupon, the meeting adjourned at 4:15 p.m.)

CERTIFICATE OF COURT REPORTER

STATE OF GEORGIA COUNTY OF FULTON

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I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of April 27, 2006; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 27th day of May, 2006.

STEVEN RAY GREEN, CCR CERTIFIED MERIT COURT REPORTER CERTIFICATE NUMBER: A-2102