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CENTERS FOR DISEASE CONTROL AND PREVENTION
NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

convenes

MEETING 50

ADVISORY BOARD ON
RADIATION AND WORKER HEALTH

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DAY ONE

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Worker Health held at the Holiday Inn Select,
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STEVEN RAY GREEN AND ASSOCIATES
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Oct. 3, 2007

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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.

-- (phonetically) indicates a phonetic spelling of the word if no confirmation of the correct spelling is available.

-- "uh-huh" represents an affirmative response, and "uh-uh" represents a negative response.

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

-- (inaudible)/ (unintelligible) signifies speaker failure, usually failure to use a microphone.

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P R O C E E D I N G S

(1:15 p.m.)

WELCOME AND OPENING COMMENTSDR. PAUL ZIEMER, CHAIR

1 DR. ZIEMER: Good afternoon, everyone. I'd like to
2 call the meeting to order. This is the 50th
3 meeting of the Advisory Board on Radiation and
4 Worker Health. The agenda for this meeting, as
5 well as related documents, are on the table in
6 the back of the room. If you have not gotten
7 copies, please avail yourself of those.
8 Also my usual reminder, we would like you to
9 register your attendance with us. The
10 registration book is in the corridor. Also
11 there is a book to sign up for addressing the
12 assembly during the public meeting time, and if
13 you wish to do that please make -- make
14 yourself -- or make that known through the use
15 of that particular book.
16 The record will show that all of the Board
17 members are here present with the exception of
18 Dr. Melius and Dr. Lockey, who will be joining
19 us tomorrow, but we do have a quorum.
20 Since the -- the 50th meeting represents a kind

1 of milestone, if you would indulge the Chair
2 for a moment I'd like to reminisce.

3 **DR. WADE:** Ah.

4 **DR. ZIEMER:** When you get to my age, you like
5 to do that a lot.

6 This Board first met in January of 2002. At
7 that time the members -- there were ten
8 members: Henry A. Anderson, Antonio Andrade,
9 Roy L. DeHart, Richard L. Espinosa, Sally L.
10 Gadola, James M. Melius, Wanda I. Munn, Robert
11 W. Presley, Genevieve S. Roessler and Paul L.
12 Ziemer. That was January, and Mark Griffon
13 joined the group shortly thereafter, according
14 to my records, in March of 2002. So of that
15 original group of ten or 11 -- I guess 11 if we
16 count you, Mark -- we still have six folks who
17 have been here for the full period, which now
18 has -- it's completing its sixth year of
19 operation. So I salute those of my colleagues
20 who have been faithful and persevered through
21 many, many meetings.

22 Later in 2002, in October, Michael Gibson and
23 Charles Leon Owens joined the Board. And the
24 Board operated with those members, the ones
25 I've just named and the original group, through

1 2003, 2004, and early 2005.

2 Our colleague Tony Andrade died in February of
3 2005. Also in February of 2005 -- and I should
4 mention that our original Designated Federal
5 Official was Larry Elliott, but in February
6 2005 Dr. Lewis Wade replaced Larry Elliott as
7 the Designated Federal Official.

8 In 2006 three new members joined us, Bradley P.
9 Clawson, James E. Lockey and John Poston, all
10 of whom were added in January of 2006, and then
11 in January of 2007 Josie M. Beach and Phillip
12 M. Schofield.

13 Now of all the names that I've read, with the
14 exception of two -- Sally Gadola had to resign
15 early in 2002, shortly -- during the first year
16 of the Board due to a conflict of interest.
17 And I've already mentioned that -- that Antonio
18 Andrade died in 2005. There were some others
19 who left the Board in 2006 at the time that the
20 new members came on. Those were Henry P.
21 Anderson, Richard L. Espinosa, both of whom
22 completed their terms of the Board in January
23 2006, and then Roy L. DeHart, who completed his
24 term with the Board in August of 2006. And
25 finally Charles Leon Owens resigned from the

1 Board in September 2006.

2 So I thought it was -- at least for the benefit
3 of the Board members -- worth reminiscing about
4 who's been with us and how long they've been
5 with us. We're very pleased with all of the
6 Board members who've participated over these
7 past six years. All of them have been active,
8 have had significant input on all issues and
9 have made major contributions in -- in keeping
10 us on track. So I thank all of the Board
11 members, our Designated Federal Officials, and
12 I should point out that the work of this Board
13 could not be carried out without the strong
14 support of the various staff members
15 representing the federal agencies to which we
16 are attempting to provide good sound advice.
17 With that I will turn it over to our Designated
18 Federal Official, Dr. Wade.

19 **DR. WADE:** Well, thank you, Dr. Ziemer.
20 Welcome, and as I always start a meeting, thank
21 you. Let me add briefly to Dr. Ziemer's
22 comments.

23 I had had the privilege in my career of serving
24 a number of advisory boards and committees in
25 very disparate areas of government, and I have

1 never seen a board more dedicated and
2 productive and professional than this Board as
3 it currently sits. To a person, everyone
4 around this table makes tremendous sacrifice
5 and contribution to the work of -- of this
6 Board. I think we all understand the
7 importance of those we serve that -- the atomic
8 war heroes of this country, but I couldn't be
9 more proud to be associated with the Board and,
10 to a person, I thank you for your efforts.
11 I'm joined at the table here today to my right
12 and slightly behind me by Dr. Christine
13 Branche. Dr. Branche is preparing to become
14 the Designated Federal Official for the Board
15 when I move on to other things at a date as yet
16 undefined. But Christine will be participating
17 and will be here and will learn the business
18 and I'm sure come to -- to admire this Board as
19 I have.
20 So welcome, and again thank you for your
21 efforts. They are appreciated.

22 **NUMEC SEC PETITION**

23 **DR. ZIEMER:** Thank you very much. We are going
24 to move immediately now to our written agenda.
25 The first item on our agenda is a petition --

1 SEC petition from NUMEC, which is located in --
2 I believe it's Apollo, Pennsylvania or -- or
3 thereabouts. And LaVon Rutherford is going to
4 present the petition evaluation from NIOSH, and
5 then following that we will hear from the
6 petitioners, Patty Amino, Rich -- I believe
7 it's Rich Paver, I'll -- do I have your last
8 name right?

9 **UNIDENTIFIED:** (Off microphone)
10 (Unintelligible)

11 **DR. ZIEMER:** Yeah, I'll get them right, and
12 perhaps some other individuals. So let's hear
13 from LaVon and then we'll proceed and hear from
14 the petitioners.

15 **MR. RUTHERFORD:** Can you hear me?

16 **DR. WADE:** Could I make one brief announcement
17 before LaVon begins? As is typical, I would
18 announce conflicts of interest. Dr. Melius,
19 who's not with us today, has recently brought
20 to my attention the fact that he has some
21 involvement with re-- with the NUMEC site. Dr.
22 Melius does not feel that that would constitute
23 a conflict, but has raised it to my attention
24 and while that issue is being investigated I've
25 made the determination that Dr. Melius will

1 need to recuse himself from discussions on
2 NUMEC. Now he's not here today and therefore
3 it's somewhat of a moot point, but that is an
4 issue under discussion, and for complete
5 disclosure I thought I would make that known to
6 all. Thank you.

7 **MR. RUTHERFORD:** Thank you. Thank you, Dr.
8 Ziemer and the Board, for giving me this
9 opportunity to speak on behalf of NIOSH and our
10 evaluation of the NUMEC SEC petition. A little
11 background --

12 **UNIDENTIFIED:** (Off microphone)
13 (Unintelligible)

14 **MR. RUTHERFORD:** Oh, you know, that helps --
15 and I was told that three times, to remove that
16 paper.

17 All right, a little background. We received
18 this petition on December 13th, 2005 --
19 (unintelligible) -- at it was SEC 47. On May
20 1st we issued a proposed finding that the
21 petition did not qualify. On May 9th the
22 petitioner requested an administrative review
23 of that petition. We submitted that to the
24 Administrative Review Panel and began the
25 administrative review process.

1 In the meantime we performed an internal
2 assessment of our own procedures for SEC. We
3 identified a number of things that we could do
4 better. And then Dr. Lockey's working group
5 also performed an assessment and looked at
6 petitions that did not qualify and they
7 identified a number of -- a number of things
8 that we could do better in communication with
9 petitioners.

10 On December 4, 2006 the petitioners submitted a
11 second SEC petition, that would be SEC 80, and
12 that was for a more broader (sic) class. After
13 a lengthy process with the Admin Review Panel,
14 they came back to the decision that they felt
15 that NIOSH did not provide clear justification
16 to the petitioner for not qualifying the
17 petition, and recommended that we qualify that
18 petition.

19 On January 11th the first SEC petition was
20 qualified, January 11, 2007. On March 28, 2007
21 the second petition, which was a broader class,
22 was qualified for evaluation. The two
23 petitions were then, in a process that we
24 define -- were merged together. SEC 80, which
25 was the more broader class, became the primary

1 petition and SEC 47 was -- was fully
2 encompassed within the class with SEC 80.
3 On September 14th of this year we issued our
4 evaluation.

5 Petitioner proposed classes. SEC 47, which was
6 the first petition, identified administrative
7 and clerical personnel at NUMEC from 1957 to
8 1983. The second petition, SEC 80, was all --
9 petitioner identified all employees at NUMEC,
10 both Apollo and Park, from 1957 to 1983. Our
11 process requires that we limit our evaluations
12 to a single facility. Apollo and Parks right
13 now -- the Department of Energy on the facility
14 databases has identified them as two separate
15 facilities. Therefore, our evaluation focused
16 on the Apollo site and our recommended class
17 definition was all AWE employees who were
18 monitored, or should have been monitored, for
19 exposure to ionizing radiation while working at
20 the NUMEC Plant in Apollo, Pennsylvania for a
21 number of work days aggregating at least 250
22 days from January 1, 1957 through December
23 31st, 1983.

24 A little background on NUMEC Apollo site. As
25 Dr. Ziemer had mentioned, that the NUMEC Apollo

1 facility is located in the town of Apollo,
2 approximately 33 miles from Pittsburgh. The
3 plant was first licensed by the AEC in 1957.
4 The AEC, the Atomic Energy Commission -- AEC
5 radiological operations included, from 1958
6 through the '60s, processing unirradiated
7 enriched uranium scrap. Also, from 1961 to an
8 unknown date, they produced plutonium-beryllium
9 neutron sources under AEC license.

10 NUMEC had a number of commercial operations, as
11 well as they produced fuel for the Navy. 1957
12 to 1970 -- through 1978, high enriched uranium
13 production; 1957 to '84, low enriched uranium
14 production; 1961 to an unknown date, they --
15 uranium oxide pellets; and 1961 to an unknown
16 date, research and development of coatings for
17 uranium microspheres.

18 In addition, 1963 to an unknown date, we know
19 they had thorium operations including thorium
20 oxide pellet production. In 1963 they were
21 licensed by -- through (unintelligible) to
22 produce thorium oxide pellets. We know that
23 they produced them in '64 and '65, and we also
24 know that -- we have documentation that
25 supports thorium production continuing possibly

1 into the 1970s.

2 In 1959 to 1984, laundry operations -- which
3 included laundering for Apollo, Parks, and
4 other nuclear facilities, and this included
5 burning extremely contaminated anti-
6 contamination clothing and washing control rod
7 drive mechanisms. So they weren't exactly -- I
8 mean it wasn't just laundry operations, is the
9 point there.

10 During our evaluation NIOSH reviewed a number
11 of sources. Most of these sources are typical
12 in our evaluation process. We looked at the
13 Technical Information Bulletins we have. There
14 was no site profile that -- as petitioners
15 pointed out numerous times, there is no site
16 profile for the NUMEC facility, and we were
17 actually in the process of developing a site
18 profile during the qualification process, so a
19 number of these issues became apparent as they
20 -- in the developing of that site profile,
21 which is still not complete.

22 We looked at -- we interviewed former NUMEC
23 employees. We looked at case files in the
24 NIOSH database. We also reviewed documents in
25 the site research database, and our petitioners

1 were -- provided us numerous documents and
2 affidavits that we also reviewed as well.
3 The NUMEC employees received internal and
4 external exposures from the operations I've
5 previously identified. Also on-site personnel
6 were exposed to uncontrolled stack releases
7 from (unintelligible) filters, leaky filters
8 and -- and the actual configuration geometry --
9 the geometry configuration actually supported
10 heavy downwash to the on-site personnel. So we
11 have reports that support this.
12 Principal external exposures, they had beta
13 exposures from uranium production operations;
14 they had gamma exposures from thorium
15 operations, uranium production and laundry
16 operations. They also had neutron exposures
17 from neutron source production, plutonium
18 operations and work with high enriched uranium.
19 Principal internal exposures were uranium from
20 uranium production operations; thorium from
21 thorium operations, including thorium oxide
22 pellet production; plutonium from the neutron
23 source production, laundry operations, storage
24 operations and analytical procedures; in
25 addition, polonium from neutron source

1 production.

2 Availability of data. From what we've reviewed

3 of the -- of the monitoring data -- which the

4 monitoring data is on the X drive, available to

5 the Board members in an Excel spreadsheet.

6 From what we've reviewed of that data, it

7 appears that the personnel monitoring was

8 limited to a small group of individuals who

9 were thought to have -- who were thought to

10 have -- receiving the highest exposure. Most

11 of the other monitoring data is external area

12 monitoring data. We have external area

13 monitoring data from 1961 through 1983.

14 One of the difficulties we've had with this

15 site, and I'll address more later, is really --

16 monitoring data -- it's not clear from the

17 monitoring data where -- where the activities

18 or where the monitoring took place. Most of

19 the documents that are listed identify Apollo

20 on the heading of the document. However, the

21 activities could -- could have been conducted

22 at Parks or Apollo. But also they do not

23 describe on most of the documentation the ex--

24 for the area monitoring data what they were

25 supporting by doing the monitoring, so it's

1 very hard to determine where the exposure
2 source was.

3 Internal monitoring data. The urine bioassay
4 data for uranium from 1960 up through 1976 --
5 up to 1976; we have fecal bioassay data for
6 uranium available from 1966 up to 1976; we have
7 whole body counts for uranium available from
8 1968 through '85; we have no bioassay data for
9 thorium or other radionuclides. In addition,
10 all plutonium bioassay appears to be for the
11 Parks facility -- Parks employees. None of --
12 we -- we found no bioassay data for Apollo
13 employees.

14 Air sampling. We have breathing zone air data
15 for uranium from 1961 through 1982, and we also
16 have very limited thorium air samples. We have
17 87 general area samples and 11 breathing zone
18 samples in over -- that range from 1963 through
19 1965 for the dates. We have no air sampling
20 data for other radionuclides.

21 As you all -- a lot of you are aware, we have a
22 two-pronged test. One, we look at is it
23 feasible to reconstruct dose with sufficient
24 accuracy. If that's yes, then we don't have to
25 answer number two. If that's no, we have to

1 answer number two, is there a reasonable
2 likelihood that the health was endangered for
3 members of the class.

4 NIOSH found that the available monitoring
5 records, process descriptions and source term
6 data are insufficient to complete dose
7 reconstructions for the proposed class of
8 employees. NIOSH currently lacks access to
9 sufficient monitoring, source term data and
10 process information to estimate the complete
11 internal and external dose.

12 Now specific issues that we found with -- that
13 limit our ability to reconstruct dose. We
14 found we had no monitoring data from the 1957
15 through '59 time period. We -- the former
16 contractor, (unintelligible), was providing us
17 monitoring data for individuals. However, none
18 of that data -- there was no data for the 1957
19 through '59 period.

20 We looked at using a back-extrapolation
21 approach where we would use later data from the
22 '60s and work back. However, as we've seen in
23 a number of facilities, if you do not have
24 clear process description and clear details on
25 what the activities that were conducted early

1 on, pilot operations and -- and typically we'll
2 weed out those or identify high exposure
3 sources and engineering controls could be
4 implemented, so the later data may be much
5 lower than exposures to the earlier data --
6 earlier period.

7 NIOSH -- another issue, we found that the
8 internal monitoring data, process description
9 and source term information was insufficient to
10 reconstruct occupational thorium dose. We know
11 that -- we know the thorium off-site pellet
12 production and the -- the thorium operations --
13 they're not well defined. The thorium off-site
14 pellet production, we know that that occurred.
15 We have no details of that process and we
16 actually have no clear description of the
17 facilities that were used in that process at
18 Apollo. And we also have indications through
19 documentation that supports that thorium
20 operations may have continued into the '70s.
21 One of the big issues -- as I mentioned, we
22 were in the development of the site profile
23 when -- as these processes -- or as these
24 petitions came in. One of the issues that was
25 identified during the site profile was that --

1 that bioassay monitoring data analyzed by
2 Controls for Environmental Pollution could not
3 be used for dose reconstruction. There was a
4 CEP-analyzed bioassay data at Sandia in the
5 early '90s period. In 1994 there -- it was
6 identified that there was potential
7 falsification of bioassay data that was
8 analyzed by CEP. We have reviewed the
9 information -- documentation that's available
10 for that, which is also available to the Board
11 on the X drive, and we've concluded that we
12 cannot use CEP monitoring data for dose
13 reconstruction purposes.

14 I think it's important to point out that --
15 that we recognized that we needed to evaluate
16 the effect to other facilities that may have
17 used CEP data. We immediately got with our
18 contractor to review and determine other sites
19 that may be affected. At this point we've
20 identified NUMEC, Sandia and, at a limited
21 scale, the Mound facility may have used CEP
22 data. We've also reviewed that the -- looked
23 into our existing coworker models, and none of
24 our existing coworker models use CEP data.
25 Another issue, NIOSH lacks monitoring data for

1 activities with potential plutonium exposures.
2 The documents indicate that there was a
3 significant plutonium exposure potential at the
4 laundry facility. However, we had no data. We
5 have no air data, we have no bio-- bioassay
6 data for -- for employees that worked there.
7 We also know that NUMEC was licensed to produce
8 plutonium/beryllium sources. They took over
9 operations for the Mound facility in 1961. And
10 we have no process descriptions, source term
11 information at all for those activities.
12 Another issue is NIOSH lacks stack monitoring
13 data to calculate potential exposure to on-site
14 personnel for year-- operational years at
15 NUMEC.
16 A NUMEC health physicist, Roger Caldwell,
17 reported in 1967 problems associated with stack
18 releases from the 124 stacks at the Apollo
19 Plant. As I'd mentioned earlier, the
20 configuration and geometry of the stacks caused
21 significant downwash, as well as the fact that
22 there was numerous indications of leaking
23 filters and filters that have failed.
24 NIOSH has some stack monitoring data, but it's
25 very limited.

1 NIOSH lacks external monitoring data for
2 laundry operations and neutron source
3 productions, and the personal monitoring data
4 is limited. As I mentioned, you know, if we
5 had -- if the ex-- if the external monitoring
6 data, personal monitoring data, clearly
7 identified what the exposure source was that
8 they were monitoring, it would help us in --
9 for our ability to reconstruct external dose.
10 However, without that and without a process
11 description and source term, it -- it -- our
12 ability to reconstruct -- to be sure that we're
13 doing sufficiently accurate external dose
14 reconstruction is limited.
15 Again, NIOSH has determined it is not feasible
16 to reconstruct -- to completely reconstruct
17 dose with sufficient accuracy, and that the
18 health of the employees may have been
19 endangered.
20 The evidence reviewed indicates that workers
21 received chronic exposures to internal and
22 external exposures from production,
23 remediation, research and development, and
24 support activities at NUMEC Apollo.
25 Our -- our sug-- our recommended class -- I

1 actually read this earlier; I won't read it
2 again, but it is for the entire covered period,
3 January 1, 1957 through December 31st, 1983.
4 Our summary table, NIOSH feels that dose
5 reconstruction is feasible for uranium after
6 1959. The 1957 through '59 period, I've
7 already identified the issues that we've had
8 with that. Other radionuclides, we cannot
9 reconstruct -- or cannot completely reconstruct
10 the dose. External, beta-gamma exposures
11 cannot be reconstructed; neutron cannot; and we
12 can with occupational medical.
13 It's important to note our -- our -- we feel
14 that for partial dose reconstructions we will
15 use the available monitoring data that we do
16 have for each individual, with the exception to
17 CEP data. So if the class is added, for non-
18 presumptive cancers we will use the available
19 monitoring data we have to give them a partial
20 reconstruction.
21 The summary there, again, and also during the
22 evaluation, as I mentioned earlier, some of the
23 issues that we identified with Apollo was
24 apparent that they -- they rolled right over to
25 the Parks facility. The Parks -- the CEP data

1 -- CEP was analyzing bioassay data, both
2 (unintelligible) one year and for -- for both
3 Apollo and Parks. In addition to other
4 operations -- other operational issues are
5 affected at Parks.

6 Therefore, based on that, we have initiated an
7 83.14 for the Parks facility and have
8 identified a petitioner, and we're moving
9 forward with that process.

10 And that's it.

11 **DR. ZIEMER:** Thank you, LaVon. LaVon, could
12 you clarify the issue of external monitoring
13 for the period of '57 through '61? Was Babcock
14 and Wilcox the contractor --

15 **MR. RUTHERFORD:** Yes.

16 **DR. ZIEMER:** -- at that time? And they were
17 approached for records. Is it my understanding
18 that they had no records, or did you not --

19 **MR. RUTHERFORD:** They had no record-- they had
20 no -- they were approached for records for any
21 claimant that we had from 1957 on, and we've
22 actually uncovered no records -- they had no
23 records for the '57 through '59 period.

24 **DR. ZIEMER:** I noticed that NUMEC actually had
25 an AEC license beginning in '57.

1 **MR. RUTHERFORD:** Yes.

2 **DR. ZIEMER:** And that would tell me that they
3 probably had to be doing personnel monitoring,
4 at least external. And so the question is --

5 **MR. RUTHERFORD:** Well, we --

6 **DR. ZIEMER:** -- do we know who did their
7 badges? Was it a commercial firm like Landauer
8 or was it --

9 **MR. RUTHERFORD:** We actually know Landauer did
10 some of their badges, yes.

11 **DR. ZIEMER:** And has Landauer been approached
12 for archival information on this --

13 **MR. RUTHERFORD:** We actually have -- Stu
14 Hinnefeld is looking at Landauer now for -- for
15 data for not only -- but for Spencer Chemical
16 and a few other facilities. However, the data
17 that we have from -- that -- I think it's
18 pretty clear that it -- that we're probably not
19 going to get that data because Landauer
20 services were actually after 1959, the way I
21 understand it. And so the '57 through '59
22 period, what we've got from BWXT is probably
23 all we're going to get.

24 **DR. ZIEMER:** Well, Landauer did begin operation
25 for '59, but --

1 **MR. RUTHERFORD:** I'm just saying the contract,
2 I thought, was after --

3 **DR. ZIEMER:** Yeah, I see. Okay. In any event,
4 it's not an issue that they didn't necessarily
5 do monitoring. We just don't have access to it
6 --

7 **MR. RUTHERFORD:** We don't have it.

8 **DR. ZIEMER:** Thank you. Board members, further
9 questions? Dr. Poston.

10 **DR. POSTON:** LaVon, I just want to make sure
11 that we're being accurate. I don't think B and
12 W or BWTX (sic) was the contractor at the time
13 period you're talking about.

14 **MR. RUTHERFORD:** No, I -- I -- I believe that -
15 -

16 **DR. POSTON:** And I thought it was just a
17 company called NUMEC.

18 **MR. RUTHERFORD:** Yeah, it was NUMEC actually
19 (unintelligible) --

20 **DR. POSTON:** Well, in answer to Dr. Ziemer's
21 question, you replied in the affirmative when
22 he asked you, and I just want to make sure that
23 --

24 **MR. RUTHERFORD:** Yeah.

25 **DR. POSTON:** -- that's made clear.

1 **MR. RUTHERFORD:** Right.

2 **DR. ZIEMER:** Larry Elliott.

3 **MR. ELLIOTT:** I think it's important to note
4 that we worked really hard to get the data from
5 BWXT that we've gotten. We had to actually
6 work with DOL and threaten the use of a
7 subpoena. And once we finally employed that
8 scenario, we got in touch with a person at BWXT
9 that seemed to be willing and interested in
10 helping us out. So it's our belief that BWXT
11 does not have the '57 base data.

12 **DR. ZIEMER:** Thank you.

13 **MR. GRIFFON:** I have a question, LaVon, about
14 the -- the class definition. I -- I see the
15 information on the stack --

16 **MR. RUTHERFORD:** Uh-huh.

17 **MR. GRIFFON:** -- uncontrolled releases --

18 **MR. RUTHERFORD:** Right.

19 **MR. GRIFFON:** -- couldn't really quantify them,
20 and I'm wondering if the class definition
21 shouldn't include all workers instead of just -
22 -

23 **MR. RUTHERFORD:** Well, in (unintelligible) --

24 **MR. GRIFFON:** You know, our normal language is
25 in there, I understand. But in this case --

1 **MR. RUTHERFORD:** I think it's -- yeah, I -- I
2 agree with you in the fact that all personnel
3 on site had potential to receive exposure
4 because of the stack releases. However, if you
5 look at the definition, it's all peo--
6 personnel monitored, or should have been
7 monitored. So if you take that into
8 consideration that they probably should have
9 been monitored, then they would be included.
10 So it's the interpretation of the class at that
11 point.

12 **MR. GRIFFON:** I guess I'm just trying to make
13 things cleaner for DOL. You know, if you
14 define the class as all people on site, then
15 there's no gray area where we don't -- where
16 we're not sure how DOL's going to interpret
17 your class definition that -- so -- I mean if
18 you're saying you agree with me, why can't we
19 just reword it to say all workers on the site
20 and then there's no gray area for
21 interpretation.

22 **MR. RUTHERFORD:** It'll -- if it's okay with
23 Department of Labor for administering the
24 class, you know, I -- I think we'd have to ask
25 the Department -- 'cause what we go through is

1 we always submit our class definition to
2 Department of Labor to determine if they can
3 administer the class as defined.

4 **MR. GRIFFON:** Yeah, I -- I guess my -- my -- I
5 just don't want to let things fall through the
6 cracks where they -- if they're looking at this
7 like they normally would, they might say oh,
8 you know, administrative personnel --

9 **MR. RUTHERFORD:** Right.

10 **MR. GRIFFON:** -- unlikely to be exposed or --
11 or -- or should have -- monitored or should
12 have been monitored, and they might rule them
13 out of the class when actually in this case
14 it's a little different scenario probably,
15 so... You und-- you understand the issue,
16 though.

17 **DR. ZIEMER:** Let -- let me insert here, though,
18 I think that DOL nonetheless has to make their
19 interpretation in light of the surrounding
20 facts. And even if we use the terminology
21 "were monitored, or should have been," which is
22 the typical term that we use, I think everybody
23 understands in this case that it is all-
24 inclusive. And if they were doing it some
25 other way, I think -- maybe Larry can help us,

1 but what -- what -- how would we -- that would
2 become known pretty quickly, would it not, and
3 we would have to powwow on that in some way.
4 I'll put you on the spot here.

5 **MR. ELLIOTT:** I don't know if Jeff Kotsch is in
6 the room or not from DOL, but --

7 **MR. KOTSCH:** I -- I'm --

8 **MR. ELLIOTT:** Oh, yeah, Jeff is here. Sorry,
9 Jeff. He's probably better served to speak to
10 how they would administer this class. They did
11 review the class definition. I believe Jeff
12 understands the evaluation findings and the
13 circumstances around the environmental dose
14 that we can't reconstruct. I -- I can't say
15 how they will act on this.

16 **MR. GRIFFON:** I mean I -- I -- okay. You
17 understand my point, if we just change the
18 class definition, we --

19 **DR. ZIEMER:** We have Jeff Kotsch from Labor --

20 **MR. GRIFFON:** -- don't have to worry about it.

21 **DR. ZIEMER:** -- to comment on it here.

22 **MR. KOTSCH:** I think -- yeah, our knowledge of
23 the class is that there are on-site
24 considerations, too, so -- depending on how
25 it's ultimately written, but we have that

1 understanding.

2 **DR. ZIEMER:** Thank you.

3 **MR. RUTHERFORD:** I'm -- I -- are we through
4 with the class? I wanted to go back to another
5 point.

6 **DR. ZIEMER:** Sure.

7 **MR. GRIFFON:** I -- I guess so.

8 **DR. NETON:** Let me just -- can I inject --

9 **DR. ZIEMER:** Jim Neton.

10 **DR. NETON:** -- just one more thing? The -- the
11 bar is pretty low for this, as you know. It's
12 -- the criteria is anyone who had the potential
13 to receive 100 millirem exposure --

14 **MR. RUTHERFORD:** Yes, exactly.

15 **DR. NETON:** -- and I think -- it's not
16 inappropriate necessarily to put in the
17 designation that some radiation exposure should
18 have had to have occurred to be a member of the
19 class. I think if you say all employees, then
20 that's a certain fact that everyone is in there
21 whether they were exposed to radiation or not.
22 And it does appear in this case that most site
23 employees were exposed, but at least in this
24 case I think it provides some assurance that
25 there was at least some radiation exposure to

1 the members.

2 **MR. GRIFFON:** Well, I don't -- I -- I guess my
3 point is NIOSH is the one better equipped to
4 make that judgment. And if in your judgment,
5 you know -- and -- and now you're asking --
6 you're turning it over to DOL --

7 **DR. NETON:** We don't -- we can't make that
8 judgment. We know that there is -- there were
9 effluents that permeated the entire site, but
10 we can't predict what the Department of Labor's
11 going to find when they start reviewing the
12 individual cases as to where people actually
13 worked, what they did -- you know, I don't
14 know. It's just not predictable by us.

15 **MR. GRIFFON:** Yeah.

16 **DR. ZIEMER:** Okay. Brad Clawson and then Phil
17 Schofield.

18 **MR. CLAWSON:** I understand what you're saying,
19 but you know, I'm just reading through the
20 little profile here and I understand about a
21 fire and so forth like that that affected
22 everybody throughout that whole plant. So my
23 feeling is, you know, I've got to agree with
24 Mark is all the people on this should have been
25 covered by this because there's no -- you know,

1 the workforce is out there, too, but this fire
2 created quite a bit of havoc there, too. And
3 so I -- I don't think that you could really say
4 that just one class, you know, would -- would
5 cover that. I -- I've got to agree with Mark
6 that everybody there...

7 **MR. RUTHERFORD:** Well, I think if -- if -- I
8 totally agree that -- that -- that on-site
9 personnel are -- you know, are -- were exposed.
10 But they should have been monitored. Then that
11 means they're part of the class. I think the
12 import-- or the thing is -- to look at is what
13 if there was, you know -- you know, what if
14 there's a person that worked for NUMEC that had
15 to work -- and I'm just using this as an
16 example --

17 **MR. SCHOFIELD:** All right.

18 **MR. RUTHERFORD:** -- okay? I have no clue that
19 -- that worked six miles away in an
20 administrative office and never, you know --
21 you know, that's the -- that leaves that
22 opening that it wou-- could be evaluated that
23 they weren't exposed. Okay? I think if the
24 class is administered -- you know, if they read
25 the report, all on-site personnel should be a

1 part of the class, so...

2 **DR. ZIEMER:** Okay, thank you. Phil?

3 **MR. SCHOFIELD:** Brad already addressed, you
4 know, what I was going to say.

5 **DR. ZIEMER:** Any further questions? LaVon,
6 thank you --

7 **MR. RUTHERFORD:** I want to point out another
8 thing I don't think I answered very well, and
9 that is even if we had the external -- if -- if
10 the external monitoring data is available for
11 '57 through '59, you know, it's not going to
12 change the class definition for internal
13 exposure. Plus, if we do uncover that data,
14 we will use it for partial dose reconstruction.

15 **DR. ZIEMER:** Understood.

16 **MR. RUTHERFORD:** I mean as (unintelligible).

17 **DR. ZIEMER:** Right.

18 **MR. RUTHERFORD:** Okay.

19 **MR. GRIFFON:** Just one more...

20 **DR. ZIEMER:** Mark.

21 **MR. GRIFFON:** LaVon, just to follow up on the
22 partial dose reconstruction, you -- in -- in
23 one of your slides I think you said you had
24 some data that would have been the highest
25 exposed.

1 reminisce at my age -- I'm 72 years old -- and
2 I -- in this case, my reminiscence will be
3 giving you some technical information regarding
4 what happened at NUMEC as I lived it for 11
5 years -- 11 and a half years. And so -- and
6 it's a serious remensision (sic). I, like you,
7 I think, have a good memory. And so what I'm
8 going to do is support the report that was
9 given by NIOSH, and I'm going to go past that
10 and I'm going to talk -- I'm going to give you
11 some information about what really happened
12 there, as I lived it.

13 Now I -- let me see what -- oh, I want to have
14 you turn to -- behind the third blue marker
15 here. And this seems to be out of order, but
16 we found out this morning that LaVon was going
17 to talk about -- give you technical details and
18 talk about the report first. My comments are
19 based on my review of the report, and my
20 additional comments are based on my activities
21 and observations as I lived them at NUMEC.

22 The -- I have a -- just about myself. I have a
23 BS in chemistry from Carnegie Tech and when I -
24 - I (unintelligible) in nuclear processing, I
25 worked at Portsmouth, Ohio for five years, the

1 gaseous diffusion plant. I worked at NUMEC for
2 11 and a half years after that, a great
3 training ground on -- on -- in nuclear
4 technology and other technologies. I've had --
5 I've got two patents from NUMEC and I've got
6 two other patents from Westinghouse.
7 I left NUMEC in 1971 -- thank you for my
8 glasses. I left in 1971 and I came -- and went
9 to Westinghouse and I've been there -- I was
10 there for 23 years. I retired from
11 Westinghouse in 1994. I'm published. I said I
12 have a couple of patents from NUMEC, a couple
13 of patents from -- from Westinghouse, and I've
14 got a total of 40-some years in this industry.
15 Now -- now I have -- these comments are
16 directly -- I have six comments directly
17 attributable to LaVon's report.
18 First, and in one section he -- they state that
19 all the op-- all the operations conducted at
20 the NUMEC Apollo site involving radioactive
21 materials during the entire history of the
22 plant's operation are considered relevant to
23 the proposed class. The summary list that
24 LaVon had in the report is good, it's generally
25 complete, but it's not complete. I -- my job

1 at Westingh-- NUMEC, excuse me, entailed
2 project management and -- and project
3 engineering, all the processes that we had to
4 develop -- that we developed there. We had
5 three engineers who -- who did that, and I'll
6 give you some detail in a second on that one,
7 but the summary list, as I remember it -- and I
8 haven't looked these up; these are from memory
9 -- that -- that LaVon had is generally true.
10 Those are correct. But there was a lot more
11 things which the -- which the -- the report
12 alluded to and that I have to point out to you,
13 they're all activities that are directly
14 related to exposure of the workers. I'm not
15 going to go through them all. You can see them
16 on the page, about production of uranium
17 microspheres and -- and production and coating
18 of uranium, development -- well, this one here,
19 development and operations of uranium scrap
20 recovery proc-- recovery processes. I'll touch
21 on that in a minute. But the production and
22 development of coated uranium materials using
23 electron beams is one of the things I got a
24 patent for, but those are things we did. We
25 advanced the technology continuously. We did

1 the development of the processes. We developed
2 new processes. We got a lot of information on
3 -- on scrap recovery and -- and -- and that --
4 and the operations regarding recovery of
5 uranium from -- from solutions and the
6 extraction and so on of uranium. So there are
7 many more development and small production
8 processes that aren't listed there, all of
9 which -- to some degree, high or low -- when
10 put in production did contaminate personnel and
11 expose the personnel to the radionuclides in
12 question.

13 So in -- next top-- my next comment is with
14 regard to the smaller R&D operations of NUMEC
15 and Apollo are not very well documented.
16 Absolutely they aren't. Some are patented and
17 documented, but the processes themselves aren't
18 documented. And they're based on things that
19 were developed other place (sic), but they were
20 also developed by myself and a couple of other
21 engineers. And they were -- after they were
22 developed -- in the laboratory they only built
23 the prototypes in these big laboratories.
24 These aren't laboratories like you see
25 stainless steel tables and all that kind of

1 stuff and -- with the (unintelligible) and the
2 (unintelligible) flasks and all that kind of
3 stuff. Yeah, we had those, but these were
4 things -- these are laboratories where we
5 actually did the development and did the -- did
6 the solvent extraction, we did all the things
7 necessary to develop the parameters that we
8 could use (unintelligible) pilot plant, and as
9 tho-- as those parameters were redefined, we
10 then moved to the production facilities.
11 That's the way it worked.
12 So I want to point out that, you know, I --
13 scientists here will recognize (unintelligible)
14 that through the course of those activities, as
15 in any development occurrences, we had things
16 like spills and we had overflows on floors or
17 lab benches, hoods. Overheats -- you know,
18 crusty hot-plates with uranium dried on it
19 sitting on the lab benches, sitting on the
20 hoods, all open in the -- in these big
21 laboratories that were where we developed the
22 processes. And -- and the personnel were
23 constantly exposed therefore to ionizing
24 radiation and internal and external
25 contamination, constantly -- constantly. I

1 worked beside my technicians and we all wore
2 lab coats. And as we got into the stages where
3 it was slurried and we get ADU and other types
4 of -- of slurries and -- that's a -- we were --
5 and it was on our lab coats. Uranium was on
6 the lab coats, and we'd take them off before
7 we'd leave the rooms, but in any case, that
8 just occurred. That's the way it was.
9 Then beginning in 19-- oh, by the way, the only
10 protective gear we had were safety glasses, lab
11 coats and gloves. We did not wear dosimeters.
12 We were not iss-- issued dosimeters. I never
13 had a dosimeter. You will never see the refer-
14 - anything for me showing that I wore a
15 dosimeter. I just didn't. I don't know
16 whether I had something on the back of my badge
17 or not. I was never told what -- I just -- the
18 job was to get it done, whether you had a
19 dosimeter or not.
20 Also, number four -- oh, I forgot three.
21 Beginning in '61 the processes for scrap
22 recovery we developed were for UO₂-Zr. Uran--
23 you know, recovery of uranium from UO₂-Zr.,
24 UO₂-Alumina, UO₂-BeO and more. There was some
25 classified stuff, but this was -- this was

1 enriched uranium, highly enriched uranium which
2 we developed the processes for in these big --
3 in our laboratories on the lab benches, in the
4 open and under hoods, especially when the --
5 when the gases coming off the processes were
6 very toxic; they went up the hood. All these
7 processes exposed personnel to continuous
8 radioactive contaminants.

9 Now we talked about the data, the urine and
10 fecal bioassay, it said that the -- it -- it
11 should be -- well, I'm telling you, most of
12 this data for urine and bioass-- bioassay and
13 zone monitoring should all be considered
14 suspect, even the results you have, and that's
15 beside this CEP data that was -- was -- was
16 referenced here in the report.

17 **DR. WADE:** May I just stop you for a minute?
18 Could you position the microphone in a way --
19 you're cutting in and out very badly.

20 **MR. HALEY:** How's that?

21 **DR. WADE:** Well, maybe -- you're going to have
22 to say some things.

23 **MR. HALEY:** Why don't I just hold it? How's
24 that?

25 **DR. WADE:** If you hold it close.

1 **MR. HALEY:** (Unintelligible)

2 **DR. WADE:** This young man's going to help you.
3 People on the phone are say-- are having
4 difficulty hearing -- Board members, as well.
5 So again, Board members, when you do make a
6 comment, make it directly into the microphone.

7 **MR. HALEY:** Okay. This is high technology for
8 me, as old as I am. Okay, can everybody hear -
9 - hear fine? How about on the telephones, you
10 people out there? Thank you.

11 Anyhow, where was I? Oh, I'm talking about the
12 fecal and -- I mean the urine and fecal
13 bioassays and the zone monitoring. I said it
14 should all be considered suspect. And besides
15 the CEP data, if you know what the CEP data is
16 and what the report says about that. The
17 submitters -- the submittals for the fecal
18 samples and the urine samples were all com-- I
19 mean not all, but mostly compromised,
20 especially when samples were taken home -- I
21 mean actually containers for samples were taken
22 home and the workers were told to get some
23 samples of fecal matter and the urine samples
24 overnight and then bring it back in the next
25 day. Well, the workers who were exposed and

1 were getting this -- this -- (electronic
2 feedback).

3 Now I don't think I did that. How we doing
4 back there -- how we doing back there sin--
5 okay, the mike's off or on? Okay.

6 The thing is that it was common knowledge that
7 family members contributed to those samples.
8 And the reason they did that, if the samples
9 came back and showed information that indicated
10 that the worker had been exposed, he was sent
11 home and not paid. So in order to be able to
12 work, he made sure that the samples were
13 doctored to the point -- it's common knowledge
14 that that happened. We -- we knew it, but
15 whatever -- for whatever reason, this happened,
16 and my point is all that information is
17 comprom-- I mean all the information is
18 compromised. I don't -- I can't say it's all -
19 - it's all in error, but I know it has been
20 compromised.

21 And then again, when bioassay samples were
22 taken at the plant and they would -- people
23 would give -- and the workers were given
24 containers to take into the men's room, they
25 got their friends to come in and they would

1 switch samples for somebody who hadn't been
2 working in the radioactive ar-- I mean in a
3 contaminated area. That happened. I saw it
4 happen. It did happen.
5 Now -- and -- and the air samples, I have to
6 say those, too, were compromised. And they
7 were -- in this way, in this way. The workers
8 were working in glovebox, on the benches, every
9 place else, they had -- they were taking air
10 samples. Well, for the guy in a glovebox, he's
11 stuck there and he's tired and he hates that
12 annoying buzz. He hates it. So what happens
13 is somebody comes along and takes it and
14 unplugs it. It doesn't buzz anymore. It's
15 also not taking samples anymore. Now at the
16 end of the shift, somebody -- I mean when they
17 get ready to leave, they plug it in so that
18 they can show it was there. Well, the HP
19 people don't know that that sample hadn't been
20 taken for eight hours or six hours or whatever.
21 They just don't know. So I'm saying that
22 those, too, were compromised. Not all of them,
23 but those were compromised as well.
24 Now in section -- well, in the evaluation
25 report -- I'm going to have to read this -- it

1 says that the NIOSH evaluation did not identify
2 any evidence that would establish that the
3 class was exposed to radiation during a
4 discrete incident, or similar condition
5 resulting from the failure of radioac--
6 radiation exposure controls, likely to have
7 produced levels of exposure similarly high to
8 those occurring during nuclear criticality
9 incidents. NIOSH is not aware of any report of
10 such an occurrence at the facility during this
11 period. And I can understand that they
12 wouldn't be aware because I don't think that
13 there were reports written about those, but
14 I'll give you some first-hand information on
15 two things that I was directly involved in that
16 did expose workers to extremely high radiation,
17 and it should be documented if it isn't. And
18 this is the -- and this is true, first-hand
19 information.

20 There were two occurrences that meet the
21 criteria listed in the -- in the repor-- or in
22 the -- in the NIOSH report. The first one is
23 that -- and I participated in these directly --
24 is a fire in the nuclear materials unit. Now
25 this is a special one. We've had -- they had

1 fires -- from 1957 till the time I left there
2 were fires in little buckets with UO₂
3 spontaneously combusting and so -- especially
4 during those first three years when they were
5 trying to get up and running, and not -- and --
6 and trying to train people who were former
7 steel workers and seemed to be treating the
8 material -- the radioactive material the same
9 as they would steel. That's what they were
10 trained to do. They didn't understand the
11 importance of how to handle these radionuclides
12 and the radioactive material -- or whatever.
13 So the first was a fire in the nuclear
14 materials vault, and I'll tell you about that.
15 This fire was discovered to be caused by
16 containers of highly enriched uranium, uranium
17 carbide, and it was -- it exploded. A bottle -
18 - or you -- picture the vault against the wall.
19 Here's these -- these square shelves, and in
20 the mid-- and -- and criticality -- I mean cri-
21 - it's -- it's designed to prevent criticality
22 when you place a bottle -- a plastic bottle of
23 uranium carbide in the middle of that. Now
24 it's stacked and there's -- and there's -- it's
25 horizontal and vertical. Now what happens?

1 Okay, a bottle blew up. Now uranium carbide
2 oxidizes with great -- great intensity, very
3 hot. What happens, it blow-- it blasts smoke
4 everywhere. The -- the stuff's melting through
5 the metal platforms, the metal -- metal -- and
6 coming down and exploding other ones and
7 melting down. Now I've got a report in here on
8 that. I mean I just wrote it up and stuck it
9 in the back as an enclosure 'cause I don't
10 think we have enough time to go into it, but I
11 will tell you that this was a -- this was a
12 very discrete, serious accident and it exposed
13 the -- our class to a health endangerment
14 involving levels of exposure similarly high to
15 those occurring during a nuclear criticality.
16 We had to keep it from going critical. We had
17 to run in. We -- myself and another fella ran
18 in after they drug the vault custodian out, and
19 his report's in there, too. But they drug him
20 out to get him out of there because of what was
21 happening. Myself and another engineer -- this
22 was on a weekend. There wasn't a lot of people
23 in the plant. They ran in -- we ran in and
24 shoveled, you know, metal X on top of it to try
25 to smother it. There's -- there's something in

1 the back talks about that. I won't go into any
2 more, so details on that accident are provided
3 in enclosure one and two to this document.
4 And enclosure three -- A and 3B are letters
5 from the AEC to the NSA, who was investigating
6 this because of the loss of uranium, regarding
7 the amount of U-235 lost. They talked about
8 how much -- three kgs of -- this was lost here
9 and so on. They had to wash the walls and they
10 got a kg and a half off those walls. They had
11 to remove the roof; they got it off of that.
12 They got it off the floor. They got it off of
13 other stuff in the -- in the vault and the --
14 now they -- they check us out. They do nose
15 swabs, they do ear swabs, they take us into a
16 shower room and scrub us all down and spend a
17 whole day scrubbing us so we can get to the
18 point where we can go home with coveralls on.
19 You know, that's exposure. They ended up
20 removing the walls and -- and it was a -- if
21 there's a kilogram and a half of U-235 on the
22 walls they recovered, how much was breathed,
23 how much was on the skin, how much was
24 absorbed. And that's -- that's -- I don't
25 think you have that information. I don't know.

1 The second accident, an 11-liter, 5-inch
2 diameter plastic bottle full of highly enriched
3 uranium, uranyl nitrate in this case, it was
4 about 380 grams per liter. I know what the
5 concentration was 'cause it was within a
6 specification that we were trying to adjust the
7 acidity and other things like that, and we had
8 them in the carts in our lab, so -- and under
9 the direction of an engineer, a person -- a
10 technician took it out and dumped it into a
11 tank. That's a lot of uranium. We don't know
12 whether it was just one or a little bit more,
13 but a criticality event could have occurred had
14 that uranyl nitrate assumed a geometry that
15 would have caused it to go critical.
16 So what did we do? We sent people down to the
17 -- to the town to get all the 20 Mule Team
18 Borax they can to be able to -- to get it to --
19 I mean to prevent -- to poison it so it won't
20 go critical. And then -- then there -- then
21 there had to be some operations done to be able
22 to try to recover some of that uranium. I
23 wasn't -- I had to go -- I was sent home, as
24 others -- after we got cleaned up, but we were
25 -- the people working in that area received a

1 very high dose of -- of exposure. So there's
2 more words on that back in the enclosure. I
3 won't go into it, but --
4 And lastly, at least during my period with
5 NUMEC, uranium -- enriched uranium appeared to
6 be handled in basement labs in the Warren
7 Avenue office building. That was right across
8 the street, and Patty's going to show you a big
9 board showing what the proximity of the plant
10 was to the office building. But I know of
11 instruments that were developed there and --
12 and -- and in the basement and observed what
13 the -- what appeared to be uranyl nitrate
14 compounds present. I never saw any dosimeters
15 at all issued or worn by any personnel in that
16 building. Yet during the preparation for
17 demolition when they were recovering -- when
18 they were closing things down, they -- they had
19 very high radiation levels in sewer pipes,
20 behind floor molding and wooden floors, and
21 about three kgs were lost -- oop, that's
22 something else. But they found all that
23 information -- they found all that stuff when
24 they -- was demolishing the building,
25 indicating that something had gone on there,

1 something had been tracked through and perhaps
2 something else had happened to -- to cause
3 material to come from the vents or whatever
4 over to that area 'cause it's so close. But
5 there was some -- I have back in the back a --
6 in the enclosure 5, I believe, a -- a newspaper
7 report quoting -- to the -- the president of
8 the environmental compliance organization
9 saying that findings in the building prove a
10 danger to the workers. Certainly, but the
11 workers over in that building never wore
12 dosimeters.

13 Now at the beginning I said -- well, my
14 comments are intended to support the NIOSH
15 proposed class recommendation, and I've also
16 identified two discrete occurrences causing
17 exceptional high levels of exposure to NUMEC
18 personnel. If you continue to follow the
19 current protocol that I believe you have, as I
20 understand it, the exposure effects of these
21 occurrences may well be the determining factor
22 in the dose reconstructions for applicants who
23 may have less than the 250 days or may have
24 cancers other than those listed in the Act.
25 And I want to make it clear that my comments to

1 the evaluation report, and with all due respect
2 to -- to the -- to the NIOSH report itself,
3 don't even come close to adequately describing
4 the true deleterious working conditions leading
5 to the exposures that the personnel
6 experienced. I read that 'cause I don't want
7 to be misquoted.

8 Now given that, the NUMEC Apollo facility was a
9 commercial endeavor. Deadlines had to be met
10 and pressures to complete and ship final
11 products were very strong in order for the
12 company to -- to get paid and make payroll.
13 Expedience was often the highest priority.
14 This was not a GOCO, a government-owned
15 contractor-operated, facility. It was a cost
16 plus fixed -- fixed fee contracts. They had to
17 make a profit, and to do that they had to --
18 they -- whatever they had to do. They had to
19 make a profit to meet the payroll and get back
20 on the invest-- of their invest-- get back
21 something for their investors. So health and
22 safety rules were in place, but often
23 circumvented by the workers to meet priorities.
24 While the management discouraged this, it
25 nevertheless happened. It just happened.

1 That's the way it was back in the early '60s.
2 And it was just -- well, as a result of this
3 and other factors, exposure data is either
4 incomplete, nonexistent, or at least suspect.
5 Some documentation of incidents is missing or
6 incomplete or ambiguous, at best, and makes
7 radiological effects on pers-- on personnel
8 almost impossible to determine.
9 In addition, processes had to be developed and
10 implemented on a large scale for the first
11 time. And mistakes were made, as one might
12 expect in these kind of operations. That just
13 happens when you're doing development. And the
14 mistakes, when you're working with uranium, can
15 be disastrous. But mistakes were made.
16 For our purposes today I must say that the
17 workers were subjected to continuous exposure
18 to radiation that varied in intensity depending
19 on the operations they were performing or the
20 accidents in which they were involved. So when
21 you think about a class, and you all were
22 talking about looking at individual cases and
23 so on, yes, that's true. But there were some -
24 - I mean -- but still, it -- as I said, it
25 depends on the operations they were performing

1 and the accidents to which they -- in which
2 they were involved.

3 And now while I concur with the NIOSH
4 recommendations, and I hope that it moves
5 forward with all expediency, based on -- well,
6 at least my comments and Mrs. Ameno's -- Ms.
7 Ameno's presentation later, I wish to make the
8 following recommended -- recommendations for
9 your consideration.

10 One, the lack of exposure data from operations
11 and accidents should not be cause to preclude
12 those who have cancers or who have died from
13 cancers not listed in the Act. Data needed to
14 determine exposure levels does not exist.
15 Those affected of em-- those affected employees
16 should not be included (sic) from a class and
17 lose the right of compensation, as Miss Ameno -
18 - Ms. Ameno will also attest to in her
19 presentation.

20 Two, office employees in the Warren Ave. office
21 building should continue to be included in the
22 class under consideration. They were exposed.
23 It's clear they were exposed, and they had no
24 dosimeters. And they -- again, I ask they be
25 included in the -- in the eval-- in the class

1 under consideration.

2 Now I -- there's some stuff behind that that I

3 alluded to in -- and whatever, but if you have

4 any -- I want to make sure you understand one

5 thing. I've been in this business my whole

6 life. I've been to all the national

7 laboratories, especially Hanford, the

8 Engineering and Development Lab which was run

9 by Westinghouse when I was there. And I've --

10 I've visited them on the various

11 (unintelligible) and whatever, especially on

12 waste management activities and -- and -- and

13 while I worked as an employee for Westinghouse

14 and as I worked for -- an employee for NUMEC,

15 so I could go out and learn what's happening

16 elsewhere. And I've never seen any operation

17 ever, anyplace, since I left -- before I went

18 to NUMEC or after I left NUMEC, that was --

19 that was -- let me say in a -- conducted in a

20 way that continually exposed the workers to

21 radiation and -- and continually to expo--

22 exposed them, no matter -- I mean on -- on a

23 constant basis. The report says that they're

24 recommending it because -- they should consider

25 the class because it's -- there is a -- well,

1 I'm saying the class should be considered an
2 acute operation, not just one that causes a
3 constant oper-- I mean a constant exposure, but
4 there were acute exposures. There had to be,
5 for the type of accidents that occurred.
6 And with that, I -- I -- I close. If you have
7 any questions...

8 **DR. ZIEMER:** Thank you very much. I'd like to
9 ask for a clarification, either you or perhaps
10 LaVon Rutherford, on the Warren Avenue office.
11 Is that part of the Apollo Plant that we're
12 talking about or -- where is -- where is that
13 in this?

14 **MR. HALEY:** May I -- may I answer that?

15 **DR. ZIEMER:** Yes.

16 **MR. HALEY:** Ms. Ameno will have in her
17 presentation -- we have -- we have a -- well, I
18 can show it to you here --

19 **UNIDENTIFIED:** (Off microphone)

20 (Unintelligible)

21 **MR. HALEY:** Well, I'll hold it back for a
22 second, but --

23 **DR. ZIEMER:** Basically I'm asking if that's
24 included in our definition. I -- it was --

25 **MR. HALEY:** Yeah, it's within 30 feet --

1 **DR. ZIEMER:** Oh --

2 **MR. HALEY:** -- of the front of that building,
3 and it -- it -- and it was exposed to effluents
4 from the stacks.

5 **DR. ZIEMER:** That's what I was really asking,
6 so LaVon, is it your understanding that that
7 building is covered in the recommendation from
8 NIOSH?

9 **MR. RUTHERFORD:** From -- and I -- I can't
10 remember actually, but the -- and is that the
11 administrative building that was -- yes.

12 **MR. HALEY:** It was the administrative building
13 on the corner --

14 **MR. RUTHERFORD:** Yes, that's --

15 **MR. HALEY:** -- (unintelligible) by Warren
16 Avenue, yes.

17 **MR. RUTHERFORD:** Yeah. I believe that was
18 within the site boundary, yes.

19 **DR. ZIEMER:** Okay, I just wanted to make sure
20 the -- that we're on the same page on that. It
21 wasn't clear from your recommendation that --
22 whether or not you were implying that that had
23 been not included or whether that was, and
24 apparently it has been included.

25 And then just as a comment, I just want to make

1 sure that you're aware that the list of cancers
2 that is used has been specified by Congress.

3 **MR. HALEY:** Yes, I am aware that -- I am aware
4 of that.

5 **DR. ZIEMER:** Just so you -- you understand that
6 the Board --

7 **MR. HALEY:** Right.

8 **DR. ZIEMER:** -- is not in a position to change
9 the list.

10 **MR. HALEY:** Right, and --

11 **DR. ZIEMER:** Yeah, I just want to make sure
12 you're aware of that.

13 **MR. HALEY:** Yes, I am, and as I understand it -
14 -

15 **DR. ZIEMER:** Yeah.

16 **MR. HALEY:** -- they -- they do -- they try to
17 do a dose reconstruction for those types of
18 cancers that aren't listed in the Act.

19 **DR. ZIEMER:** Right.

20 **MR. HALEY:** And -- and if -- and what I'm
21 asking for is that the accidents that occurred
22 here and the exposures, the intense exposures
23 during the accidents that occurred, should be
24 considered during that dose construction.

25 **DR. ZIEMER:** Thank you. Okay. Board members,

1 other questions for Tom?

2 **MS. BEACH:** I have one.

3 **DR. ZIEMER:** Josie.

4 **MS. BEACH:** I don't know if you're the right
5 person to ask, but the laundry, was that done
6 on-site or was it off-site?

7 **MR. HALEY:** It was on-site, yes. It wasn't in
8 the main building, but it was -- it was off to
9 the side of the building at the end of the
10 parking lot. Yes, it was included.

11 **MS. BEACH:** Thank you.

12 **MR. CLAWSON:** I'm just looking at this, and
13 what's the difference between Apollo and Parks?

14 **MR. HALEY:** Oh, well, about what -- 11 miles,
15 is it?

16 **MS. AMENO:** (Off microphone) (Unintelligible)

17 **MR. HALEY:** About two and a half air miles, but
18 let me -- yes, good point, but the -- the Parks
19 site was -- their license initially was
20 restricted to plutonium processing and it --
21 and it was done there. Ultimately -- whether
22 it -- the license changed or whether it was
23 initially passed for this, they did do uranium
24 fuel. They did make uranium fuel for a -- for
25 the Navy nuclear program up there, using a

1 process that I'm also in -- in -- have a patent
2 for. But they moved -- after I left, they
3 moved that up there. I don't -- so they had --
4 outside of the normal processing of plutonium
5 facilities, they had another building making
6 uranium fuel for the Navy nuclear program.

7 **MR. CLAWSON:** So La-- LaVon, on this --

8 **DR. ZIEMER:** Speak into the mike, Brad, so
9 everybody can hear you.

10 **MR. CLAWSON:** On this, then, for this SEC --
11 it's just for Apollo. Right?

12 **MR. RUTHERFORD:** Yes, because of the rule
13 require-- since they are listed as two separate
14 facilities, Apollo and Parks, that this is only
15 for Apollo. But we have recognized the issues
16 with Parks and are moving forward with the
17 83.14 to -- to include Parks as well.

18 **MR. CLAWSON:** Okay, 'cause I was wondering how
19 are we -- I'm sure that there was people that
20 went back and forth and --

21 **MR. RUTHERFORD:** Oh, yes, the issues that we've
22 identified for Apollo -- a number of those
23 issues affect Parks as well.

24 **MR. CLAWSON:** Okay, thank you.

25 **MR. HALEY:** Just as an example, sir, I worked -

1 have made for our country.

2 My name is Patty Ameno, and I would like to
3 thank this distinguished Advisory Board for
4 hearing the NUMEC case today. In addition, I
5 would like to acknowledge a very special thank
6 you to NIOSH for their time-intensive
7 investigation and recommendation of SEC status
8 for the NUMEC Apollo site. Thank you very
9 much.

10 I am retired from the United States Navy and a
11 former Department of Defense criminal
12 investigator. But more so, I am the long-time
13 environmental activist that has been involved
14 for years with the NUMEC sites in Apollo and
15 Parks Township, Pennsylvania. Eighteen years,
16 to be exact. I will tell you that my training
17 aided greatly as I combed through several
18 million pages of documents over the years on
19 these sites.

20 Photo one is -- right there, Tom, you have it -
21 - this is, or appropriately speaking, was the
22 NUMEC site in Apollo. And I grew up directly
23 across the street from the site, and that was
24 my house. I never knew what kind of business
25 it was, or what all the 55-gallon drums were

1 that streamed its fence line -- right over here
2 -- and I guess I can -- the secret's out.
3 Everybody knows I'm not a natural blonde now.
4 Can you see the drums on this?
5 I was literally the girl next door. My parents
6 owned and operated an Italian Deli adjacent to
7 our home that was a favorite lunch spot for the
8 NUMEC workers. The vast majority of the
9 workers lived either in Apollo or in a
10 neighboring town. And for the most part, we
11 all knew each other.
12 Though the NUMEC plant and office buildings are
13 now gone, one can continuously see the legacy
14 that the plant, with great measure, bestowed to
15 its workers, a legacy of cancers and diseases.
16 NUMEC, which was once hailed as the world's
17 largest and privately-owned producer of
18 plutonium, uranium and experimental fuel for
19 the Naval Reactor's Program, was plagued with
20 problems and compromise. The workers were not
21 monitored at all from 1957 through and at least
22 to 1960. Enclosure 1-A illustrates that in
23 1958 absence of monitoring and sampling of 21
24 workers that were exposed to, quote/unquote,
25 radioactive dust and radiation, showing that no

1 samples were taken and medical referral was not
2 given.

3 Enclosure 1-B is dated February 15th and 16th
4 of 1962, which clearly shows 400 -- 400 workers
5 that were exposed to uranium, plutonium and
6 beryllium. However, on this occasion there was
7 testing, if you want to call seven samples out
8 of 400 workers exposed sampling.

9 NIOSH identified NUMEC's main and initial
10 AEC/NRC license as SNM-145. However, NUMEC had
11 several other licenses at Apollo running
12 simultaneously. Once such license was SNM-135,
13 which on May 25th, 1969 was amended, quote, to
14 authorize the discharge of radioactive material
15 from any stack effluent of your Apollo Uranium
16 Plant in concentrations up to 100 times the
17 applicable limits.

18 That's an astonishing 10,000 percent increase,
19 and it was allowed to run as such for at least
20 one year. Considering that the Apollo plant
21 had 124 stacks, workers didn't have to be
22 inside to get dosed really good. The parking
23 lot for the plant workers was within the plant
24 boundaries, and during the decommissioning of
25 the facility in the early 1990s the parking lot

1 was found to be highly contaminated. There was
2 never any surveys done on the workers' vehicles
3 that continually parked in that lot, nor were
4 any of them ever washed off before leaving that
5 plant facility.

6 In addition, the office building was only an
7 approximate 100 feet from the plant building,
8 and in the summertime, with the absence of air
9 conditioning, the windows on many of the
10 offices were opened and are suspect to that
11 10,000 percent increase. Furthermore, in 1972
12 a release from the Apollo plant for a seven and
13 a half hour duration was 102,866 times the
14 limit. Photo enclosure number three shows the
15 location of the plant in proximity to the
16 office building, along with fallout collectors
17 positioned directly in front of the office
18 building and at other locations. And enclosure
19 number three shows the NUMEC exhaust stack
20 locations. Please note that the location of
21 the majority of the stacks are concentrated to
22 the plant's end that is in proximity to the
23 office building.

24 And directly in between the office building and
25 the facility is a 35-foot road called Warren

1 Avenue, or otherwise known as Route 66.
2 Approximately 12,000 vehicles go through there
3 every day, and then we have to think about
4 roadway resuspension as well.
5 On November 29th, 1972 AEC compliance officials
6 met with NUMEC management because, quote,
7 compliance was concerned about the reoccurring
8 (sic) nature and seriousness of NUMEC
9 violations, end quote. The group later met
10 with the AEC's J. P. O'Reilly, who started the
11 meeting by stating, quote, NUMEC has been the
12 worst offender of AEC regulations over the
13 years, end quote. That designation was
14 extremely telling of NUMEC's total and
15 consistent disregard for regulations and worker
16 safety over time. And photo number five is a
17 testament to that continuous and blatant
18 disregard. That would be this photo right
19 here. In it is worker [Name Redacted] and
20 [Name Redacted]. And both of these men are
21 standing seven feet deep in what is known as
22 burial trench number one at the Parks Township
23 waste dump. This dump and its burial trenches
24 are extremely dangerous, with buried contents
25 of, but not limited to, uranium-235 and

1 plutonium, with unknown -- unknown amounts of
2 high level material. That dump consists in
3 totality of approximately six tons of nuclear
4 and chemical waste. It may be a different
5 site, which is only two and a half air miles
6 down the same road from Apollo, but Apollo and
7 Parks shared the same management and
8 organizational personnel, and the workers were
9 interchanged between the two sites on a
10 frequent basis, and the trucking between the
11 two sites occurred on the daily basis.
12 From 1973 through 1974 at NUMEC at -- on the
13 Apollo site the AEC noted 333 violations of the
14 ventilation requirements, along with the
15 company's failure to correct earlier problems.
16 In addition, State inspectors observed
17 emissions from the Apollo plant on numerous
18 occasions because the company had shut off the
19 scrubbers.
20 NUMEC's Apollo laundry area was a nightmare.
21 Document enclosure number four, a company
22 confidential document, clearly and in layman
23 terms, without technical editing, outlines the
24 continued seriousness of the problem and worker
25 exposures in that are had to be phenomenal.

1 The document states, and I quote, health and
2 safety problems are becoming critical. The
3 exposure problem is serious. High plutonium
4 levels in the laundry means someone is being
5 exposed at the plutonium plant. There are high
6 levels of plutonium and mixed fission products
7 in the laundry. Evidence of our high discharge
8 is easy to find. Imaginary dilution is not
9 satisfactory. We will be found out and could
10 subsequently lose our license. The delaying
11 actions carried out for years are not going to
12 pacify the State and federal authorities any
13 longer.

14 NUMEC employed thousands of people over the
15 cradle to grave time period of 36 years. Many
16 of these workers were on a revolving door
17 layoff type of cycle, especially during
18 inspection scrutiny. When demanding contract
19 production was ongoing, the main workers that
20 got cooked were laid off and new hires were
21 brought in. NUMEC would have as high as,
22 quote/unquote, 100 percent worker turnover
23 every three months. When the new hires got
24 cooked, the main workers were called back.
25 This would effectuate NUMEC's goal for contract

1 deadlines without having to pay the worker that
2 was cooked to be in another area. Enclosure
3 number 5-A addresses this problem and the
4 problem of NUMEC's policy of non-inclusion of
5 skin dose testing for the workers. Enclosure
6 number 5-B, a sworn statement from three NUMEC
7 nurses, attest to the worker turnover and the
8 horrific conditions that they themselves were
9 exposed to.

10 In 1977 an Oak Ridge National Laboratory team
11 did an assessment that based their findings
12 from information received from NUMEC. It
13 stated that, quote, the Apollo facility may
14 have a significant adverse effect upon the
15 surrounding environment, end quote. That being
16 the case, one can safely conclude as to the
17 adverse effects to the NUMEC workers. Former
18 NUMEC worker [Name Redacted] knew quite well of
19 the adverse effects and the toll it took on him
20 physically and professionally. He outlined, in
21 his April 4, 1979 letter, the professional
22 toll. Quote, our environmental reports are not
23 justifiable by facts. By law, we are to
24 maintain records on all radiation exposure of
25 our employees and others, past and present. We

1 do not. By law, we are to submit exposure
2 analysis to the NRC. We do this. However, it
3 has no relative bearing to a person's total
4 exposure, but it satisfies the NRC. By law, we
5 are permitted to send -- we're not permitted to
6 send out false reports to exposed victims or
7 others. We do. By law, we are not permitted
8 to place a person with an overexposure back
9 into a known radiation field until that
10 exposure is satisfied. However, we ignore
11 this.

12 The violations of worker safety did not stop in
13 1983. During the decommissioning of the NUMEC
14 site in Apollo the workers were once again
15 exposed in a huge way to contamination.
16 Additionally, contracts -- contractors that
17 were hired by NUMEC were not given the required
18 40-hour OSHA site safety training or
19 certification. They were not provided with
20 monitoring, safety gear or exposure
21 information, and were not informed of the level
22 -- levels of radioactive and chemical
23 contamination. Also during the decommission,
24 in the office buil-- building, radiation
25 contamination in a pipe was found at levels of

1 22,328 picocuries of enriched uranium per gram.
2 The basement of that office building contained
3 the lab where at least R&D, research and
4 development, was being conducted.
5 NUMEC was continuously defiant in adhering to
6 laws, regulations and directives, professional
7 standards and worker health and safety
8 standards, and therefore habitually violated
9 them. NUMEC was the poster child of sloppy
10 housekeeping, the derelicts of health and
11 safety, and a disgrace to the Code of
12 Professional Standards. In any other place
13 this would be descriptive of gross negligence.
14 Nonetheless, NUMEC, which was an important
15 source of our country's nuclear power plants
16 such as TMI, of Naval fuel and weapons
17 material, continued to be allowed to operate
18 for over 40 years by having the needed and
19 necessary licenses and permits continuously
20 amended. NUMEC was wrongfully able to
21 circumvent the law through this process. And
22 while NUMEC fired the gun, the government drove
23 the getaway car.
24 There is an enclosure, and it is by -- it's a
25 document by a former president of NUMEC, [Name

1 Redacted]. And in it he states compliance --
2 oh, I'm sorry -- he states, quote, we are
3 guilty. If the memo -- if the information
4 contained in these memos is accurate, we are
5 guilty of gross irresponsibility. We are out
6 of control.

7 That is the president of NUMEC then speaking in
8 that present day. The information that he had
9 in front of him, that we may not have, and for
10 that I have to ask then who are we.

11 I would like to make it clear for the record
12 that I am not an anti-nuclear activist. I
13 would like to believe that many advances in
14 medicine, science, space exploration and other
15 peaceful fields are benefiting mankind.

16 However, and as you well know, the first
17 generation of these facilities were afflicted
18 with many problems, but none with the totality
19 of the problems that engulfed NUMEC, that which
20 would make textbook instruction on how not to
21 run a nuclear facility.

22 And so I will say to you now it is with,
23 through, and because of NUMEC's historical
24 legacy; the totality of circumstances of
25 continued violations of monumental proportions;

1 the unreliable, the conveniently unobtainable
2 and the unbelievable lack of monitoring; the
3 continued exceeded emissions and the
4 dangerously sloppy housekeeping, all of which
5 that may have intensified the chronic
6 exposures, that I respectfully ask this
7 distinguished Board to approve NIOSH's
8 recommendation of SEC status to the Apollo site
9 with expansion of the proposed class to include
10 the named job descriptions of the
11 administrative, clerical, and security guard
12 workers; and that the Board add NUMEC, please,
13 to the less than 250-day rule list that you are
14 currently considering and evaluating other
15 sites for.

16 May I have my water, please? Thank you.

17 (Pause)

18 Forgive me. Finally, as the honored voice for
19 the workers of NUMEC sites in Apollo and Parks
20 Township, I can tell you that they have been
21 totally abandoned by the companies that paid
22 meager wages and left them void of insurance
23 coverage, and abandoned by the very government
24 which they were proud to serve during the Cold
25 War. The NUMEC workers have always been the

1 true stakeholders, and have been equivalent to
2 veteran soldiers in their own right. Veterans
3 who committed themselves to the battle of the
4 Cold War; veterans who have watched their
5 coworkers, friends, family and loved ones
6 perish from a silent and continuous friendly
7 fire, a friendly fire that's resulted in
8 tumors, cancers and other diseases; veterans
9 that have been left, in an un-American way, on
10 a battlefield without any reinforcements;
11 veterans that will never have a parade in their
12 honor, or be awarded a Purple Heart for the
13 nuclear tour of duty service, even though in
14 our hearts hundreds upon hundreds like [Name
15 Redacted], [Name Redacted], [Name Redacted] and
16 [Name Redacted] and so many more should
17 posthumously be awarded a comparable to the
18 Congressional Medal of Honor for the battles
19 they fought, single-handedly, with courage,
20 against cancer; veterans that for over four
21 decades unknowingly hosted and embraced, at the
22 bequest and reassurance of our regulatory
23 agencies, the cold-hearted and uncaring
24 companies that bombarded our land, causing us
25 to have literally lost our ground. But they

1 are also veterans who will never, ever, give up
2 the fight in trying to reclaim it.
3 And so to this Board, this distinguished Board,
4 you are charged with the responsibility
5 regarding the very people who have helped pave
6 the way for those in this field, and so I ask
7 you now to rise to the occasion and let these
8 veterans know today that the reinforcements are
9 on their way.

10 I thank you very much.

11 **DR. ZIEMER:** Thank you very much, Patty.

12 **MS. AMENO:** Are there any questions?

13 **DR. ZIEMER:** I would like to ask for one word
14 of clarification regarding the positions that
15 were named. Again, are those covered, LaVon,
16 as you understand it, in the NIOSH -- this --
17 they appear to be administrative pos--
18 administrative, clerical and security guard
19 workers.

20 **MR. RUTHERFORD:** Yes, those -- all of those
21 people are covered.

22 **DR. ZIEMER:** Would be covered?

23 **MR. RUTHERFORD:** Yes.

24 **DR. ZIEMER:** Thank you. I just wanted to make
25 sure we were in the same boat there. Thank

1 you.

2 Other questions? Yeah, Brad Clawson.

3 **MR. CLAWSON:** I've got a question for LaVon.

4 Who did the -- was there only one laundry
5 plant, or was there only one laundry?

6 **MR. RUTHERFORD:** There was one laundry op-- one
7 laundry facility that laundered for both Park,
8 Apollo and actually they laundered for other
9 nuclear facilities, actually brought in laundry
10 from other nuclear facilities and laundered it
11 there.

12 **MR. CLAWSON:** So -- so they -- they show their
13 laundry back and forth and everything on that.
14 Who did Apollo's and Parks' -- well, who did
15 the bioassay? Who -- was that a --

16 **MR. RUTHERFORD:** They -- they had -- bioassay
17 was done by a number of different contractors,
18 but from 1976 to 1993 it was done by CEP.
19 There was actually three or four other
20 contractors that -- that did bioassay analysis
21 in the earlier years.

22 **MR. CLAWSON:** Okay. When did Apollo -- well,
23 when did NUMEC shut down?

24 **MR. RUTHERFORD:** They -- operations that
25 supported the AEC were in '83, were com--

1 that's when they -- those operations were
2 complete. However, they continued uranium
3 production in '84 and other operations until I
4 think the facility was closed and completely
5 D&D'd in '93.

6 **MS. AMENO:** December of '93.

7 **MR. RUTHERFORD:** Yeah.

8 **DR. ZIEMER:** On the issue of outside laundry,
9 do we have any idea of the possible
10 introduction of other nuclides that --

11 **MR. RUTHERFORD:** Yeah, in fact --

12 **DR. ZIEMER:** -- would have been used in other
13 facilities but not part of the Apollo --

14 **MR. RUTHERFORD:** Yeah, in fact at one point --

15 **DR. ZIEMER:** -- inventory?

16 **MR. RUTHERFORD:** We did leave out a -- the --
17 one of the reports that is in the sheet that
18 Ms. Ameno has provided is actually a report I
19 provided to the Board on the X drive, plutonium
20 at the laundry. Our report was silent on the
21 fact that there was mixed fission products
22 clearly at the laundry, and I think if you --
23 and -- and that was not monitored for, and that
24 was probably from washing the control rod drive
25 mechanisms at the laundry, as well.

1 little -- little small area. And the office
2 that was across the way there, 35 feet, because
3 of those uranium labs in the basement there,
4 that administrative building, the -- the
5 uranium labs were not in the administration
6 building, office building. The office workers
7 were in the uranium lab building.

8 And with that, I want to thank the
9 distinguished Board, of course, and the
10 distinguished members of the audience. And
11 this has been a long, long uphill fight for
12 everybody and I want to comment on the
13 professional actions and integrity of everybody
14 with NIOSH who have gotten us to this part
15 through their long dedication and service.

16 **DR. ZIEMER:** Thank you very much. Phil, do you
17 have a question or comment? Phil Schofield.

18 **MR. SCHOFIELD:** Yes, I do. I've got a
19 question. You talk about them bringing the
20 laundry from other facilities. Were any of
21 these facilities there covered under an AWE so
22 that maybe some of this plutonium mixed
23 isotopes that were coming in were actually
24 residual contamination from sites that would be
25 covered?

1 **MR. RUTHERFORD:** Well, I'm not sure about that,
2 but the significant portion of the plutonium
3 was definitely from the Parks facility. The
4 Parks facility was doing plutonium production,
5 and there's actually a few reports which I've
6 made available to the Board on the X drive
7 which talks about opening of highly
8 contaminated anti-contamination clothing with
9 heavy plutonium contamination from the Parks
10 facility at the laundry. And then burning them
11 in barrels, so...

12 **DR. ZIEMER:** Thank you. Brad Clawson, an
13 additional comment?

14 **MR. CLAWSON:** I've got a question because on
15 the bottom of your statement it's --

16 **DR. ZIEMER:** Use the mike, Brad.

17 **MR. CLAWSON:** It says is uranium dose
18 reconstruction feasible for 1960 on due to
19 available of bioassay data. But there's a
20 question because there's a guilty plea that was
21 issued.

22 **MR. RUTHERFORD:** Yeah, I --

23 **MR. CLAWSON:** How -- how can we trust that?

24 **MR. RUTHERFORD:** We -- we won't. We will not
25 use the CEP data. We were -- we will use --

1 the CEP data from 1976 to 1983 we will not use.
2 All other bioassay data that we've -- we've --
3 we -- we will use all other bioassay data. We
4 have -- we have breathing zone data for
5 uranium, we have the whole body counts for
6 uranium, we have the bioassay data pre-'76 for
7 uranium. We also have fecal data pre-'76 for
8 uranium, so we will use that information. The
9 only information we won't use is the CEP data.

10 **MR. CLAWSON:** Okay. Thank you.

11 **DR. ZIEMER:** Thank you very much. I think it
12 would be appropriate if we took -- took our
13 break now, and then following the break, Board,
14 we can continue discussions on this petition
15 and any motions that you may wish to make.
16 We'll have a break for approximately 30
17 minutes.

18 (Whereupon, a recess was taken from 3:00 p.m.
19 to 3:30 p.m.)

20 **DR. ZIEMER:** Okay, I'll call the meeting back
21 to order. Thank you very much.

22 Board members, we'll continue our discussion of
23 the SEC petition for the NUMEC Plant in Apollo,
24 Pennsylvania. Are there any questions or
25 comments before we ask for a specific action?

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(No responses)

Apparently not. If not, it would be appropriate for us to have a motion. I'm going to call for a general motion to indicate the Board's intent on this particular petition. If the motion carries, we will have ready for you Friday the exact wording of the action as it will go to the Secretary of Health and Human Services. That wording includes not only what we recommend, but would include the usual instructions to the Chair on how soon that needs to go out and related information on why we are making the recommendation.

So I will ask if anyone wishes to make a motion. The motion -- an appropriate motion would be for us to recommend the class as recommended by NIOSH. Anyone wish to make a motion?

MR. GIBSON: (Off microphone) (Unintelligible)

DR. ZIEMER: Mike is making the motion. Let me repeat Mike's motion. Mike's motion is that all AWE employees who were monitored, or should have been monitored, for exposure to ionizing radiation while working at the NUMEC Plant in Apollo, Pennsylvania for a number of work days

1 aggregating at least 250 days from January 1st,
2 1957 through December 31st, 1983, or in
3 combination with work days within the
4 parameters established for one or more other
5 classes of employees in the SEC.

6 That was your motion, Mike? He made it much
7 more efficiently than I did, but that was his
8 motion. Is there a second?

9 **MR. CLAWSON:** I second it.

10 **DR. ZIEMER:** And a second. Is there any
11 discussion on this motion? I -- let me add
12 that, should the motion carry, the Chair will
13 then entertain a separate motion that would
14 recommend that the iss-- the 250-day issue that
15 was raised by the petitioners be referred to
16 the Melius workgroup that is addressing 250-day
17 issues for all petitions, so -- was that the
18 question you were going to ask?

19 **UNIDENTIFIED:** (Off microphone) That was my
20 question.

21 **DR. ZIEMER:** Yes. Okay, are you ready to vote?
22 Comment, Mark?

23 **MR. GRIFFON:** Only one more. We -- we might
24 have -- I just want to give Jeff a chance to --
25 maybe just this interpretation of the class

1 question that I had earlier. I think we've
2 been around the block on it, but if I could
3 just get DOL to maybe give a sense to the Board
4 of how they're going to interpret this class,
5 given what they know about the facility
6 (unintelligible) --

7 **DR. ZIEMER:** Present wording uses "who were
8 monitored, or should have been monitored" --
9 it's the Board's understanding that this
10 includes all individuals on the Apollo site and
11 I think --

12 **MR. KOTSCH:** I think --

13 **DR. ZIEMER:** -- Jeff, you've agreed --

14 **MR. KOTSCH:** Yeah, we agree that --

15 **DR. ZIEMER:** -- that that's what it means in
16 this case.

17 **MR. KOTSCH:** I would agree with that
18 interpretation.

19 **DR. ZIEMER:** Yeah.

20 **MR. GRIFFON:** Okay.

21 **DR. ZIEMER:** Thank you. Then let me call for a
22 vote, and let me point out also that we're
23 obligated under our rules to obtain the votes
24 of those who are not present. That would be
25 Dr. Lockey, and I -- right now we're assuming

1 that Dr. Melius is conflicted on this one. If
2 it turns out he isn't, we would obtain his vote
3 as well, if needed.

4 All those who favor the motion, say aye --
5 let's do it by rais-- show of hands, raise your
6 right hand.

7 (Affirmative responses)

8 Okay, any opposed?

9 (No responses)

10 Any abstentions?

11 (No responses)

12 It appears to the Chair that the motion carries
13 --

14 **DR. WADE:** By a vote of ten-zero.

15 **DR. ZIEMER:** -- ten-zero. We will nonetheless
16 obtain Dr. Lockey's vote for the record, and if
17 necessary, Dr. Melius's vote. So the motion
18 carries and there will be a formal
19 recommendation to the Secretary that the Apollo
20 petition be approved for -- as part of the
21 class in the Special Exposure Cohort.

22 Now I would entertain a motion to request that
23 the 250-day issue raised by the Apollo
24 petitioners be referred to the Melius workgroup
25 for consideration in their deliberations.

1 **DR. WADE:** Just for the record, that workgroup
2 is called the SEC issues group, paren,
3 including 250-day issue and preliminary review
4 of 83.14 SEC petition, chaired by Melius,
5 members Griffon, Roessler, Ziemer.

6 **DR. ZIEMER:** Right. That's our -- that's the
7 workgroup with the longest name.

8 **MR. GRIFFON:** I'll make that motion.

9 **DR. ZIEMER:** Okay.

10 **MR. CLAWSON:** I'll second.

11 **DR. ZIEMER:** It's moved and seconded. Any
12 discussion on this motion?

13 (No responses)

14 All in favor of the motion, aye?

15 (Affirmative responses)

16 Any opposed, no?

17 (No responses)

18 The motion carries. Thank you very much.

19 **DR. WADE:** By a vote of ten-zero. We will not
20 secure Lockey's on this 'cause this is not a
21 recommendation --

22 **DR. ZIEMER:** That's correct. Thank you very
23 much. And for the --

24 **DR. WADE:** We have a -- maybe one --

25 **DR. ZIEMER:** -- Apollo folks, we thank you for

1 your participation today. If you have any
2 additional comments, we'd be pleased to hear
3 them.

4 **MS. AMENO:** I would like to, on behalf of the
5 NU-- NUMEC workers, the ones that are gone, the
6 ones that are still here, for the families, for
7 the people of our community who interact with
8 them, for everybody, I want to thank each and
9 every member of this Board today. Thank you so
10 much. Thank you.

11 **DR. WADE:** A comment. I think if -- if thanks
12 from those workers are due to anyone, they're
13 due to you and the fine work that you people
14 have done representing them. You should be
15 very, very proud of what you have accomplished.

16 **DR. ZIEMER:** Okay, thank you very much. Let's
17 then proceed. We're a little behind schedule
18 but we'll be able to make up some time. I'm
19 going to take the presentations not completely
20 in the order that they're listed in the agenda
21 because there are some individuals that will
22 need to leave us earlier and one or two that we
23 might postpone till tomorrow. I think we're
24 going to postpone Dr. Neton's presentation,
25 probably, unless these others really go faster

1 returned to DOL with a determination of
2 eligibility within a Special Exposure Cohort
3 class that has been added. That means that 23
4 percent of the cases remain at NIOSH for dose
5 reconstruction, for a total of 5,797 as of
6 September 27th of this year.

7 One percent, or 263 cases, are currently
8 administratively closed, and I'll remind the
9 Board and the audience of what this means.

10 That means that we have completed our work with
11 the dose reconstruction, provided to the
12 claimant, and the claimant has chosen not to
13 provide us with an OCAS-1 form indicating that
14 they have no further information to -- to
15 offer. If they so choose, they want us to
16 reopen the claim, all they have to do is let us
17 know or provide additional information, provide
18 the OCAS-1, and we'll reactive the claim.

19 This pie chart shows a different graphic
20 (unintelligible) of those 25,325 cases. In
21 this you'll see the light blue or the Carolina
22 blue, 67.7 percent showing as being completed.

23 There's a different color there for the other
24 categories of claims, and I'll let you sort
25 through those as you wish.

1 Of the 17,153 dose reconstructions that we have
2 returned to the Department of Labor for final
3 adjudication, we note that 31 percent of them
4 will result in a probability of causation
5 greater than 50 percent, or around 5,242
6 claims. That means 11,911 claims, or 69
7 percent, that have had -- that will be found in
8 the adjudication process to be non-compensable
9 or have probability of causation of less than
10 50 percent.

11 This bar graph that we show in this slide shows
12 in decade or decile groupings of zero to ten,
13 11 to 20, 21 to 30 and 31 to 40, 41 to 49
14 percent and greater than 50 percent, the
15 distribution of claims as they break out in the
16 probability of causation categories, as you
17 see.

18 Of the 5,797 claims remaining at NIOSH for dose
19 reconstruction, I'll break those down for you
20 in this slide, 1,838 cases are currently
21 assigned to a health physicist for dose
22 reconstruction; 956 initial draft dose
23 reconstruction reports are (unintelligible)
24 with the claimants, they're with the claimants
25 and we're awaiting the return of the OCAS-1

1 form; and that leaves 3,003 cases that are not
2 assigned to a dose reconstructor at this point
3 in time -- as of September 27th.

4 As we work very hard and continue our efforts
5 on -- on monitoring the oldest cases, you'll
6 see that 53 percent of these active cases, or
7 3,056, are older than one year.

8 We continue to maintain our attention on the
9 first 5,000 claims, trying to complete these
10 oldest claims that have been referred to NIOSH
11 for dose reconstruction. And in this slide
12 you'll see that we have returned to DOL, of the
13 first 5,000, 2,996 claims. We've
14 administratively closed 58 claims in this first
15 5,000. And there've been 246 of those first
16 5,000 claims pulled by Department of Labor
17 without a dose reconstruction report. We have
18 183 that have been removed from the first 5,000
19 because they have some eligibility in an SEC
20 class. And we have eight dose reconstructions
21 with a claimant. The lines that you see here
22 in red are those claims that we are working on
23 in the first 5,000. The 445 claims are
24 actually not initial dose reconstructions.
25 They've already given up their initial dose

1 reconstruction report and something changed
2 about that particular claim within those 445
3 and we were asked to rework them. The 64 I
4 think here is a critical number. These are
5 claims that have not yet had an initial dose
6 reconstruction, and of those 64, 20 are NUMEC
7 claims, so that would leave 44 possible claims
8 for us to reconstruct dose on if all 20 of
9 those NUMEC claims find their way into the SEC
10 class for NUMEC.

11 This slide presents the -- in three lines on
12 this graph, the number -- the trend in receipt
13 of cases from Department of Labor shown in the
14 blue line. And you can see -- I'll point out
15 that we've seen an increase of late in
16 submittals to us for dose reconstructions from
17 the Department of Labor. We've also seen in
18 our drafts that go out, in the green line, and
19 our final reports that go to DOL in the red
20 line, a downward trend. And you'll note that
21 this started back in really about the second
22 quarter, some activity in the first quarter of
23 this fiscal -- last fiscal year. But this is a
24 result of our tailoring back in our
25 prioritization of work given resource

1 constraints under a series of continuing
2 resolutions during that fiscal year, in FY '07,
3 as well as some other funding issues that we
4 have noted for you in past presentations.

5 This bar graph gives you a sense of our
6 progress on working through the cases in 1,000
7 increments all the way through to the 25--
8 25,000-whatever number we have represented
9 here. The blue line part of the graph
10 indicates those that have been completed. The
11 red line indicates those that have been pulled
12 for us for reasons DOL has, and the -- this
13 greenish -- I don't know what color that really
14 is -- pardon me?

15 **UNIDENTIFIED:** Olive.

16 **MR. ELLIOTT:** Olive is a very good descriptor
17 of that color. That represents those cases
18 that are active and we're working on. The
19 sharper green, grass green, would represent
20 those cases that are pended currently, and this
21 may be because of technical issues or because
22 of -- we're working through some issues with
23 the deliberation process on moving these claims
24 forward and we're waiting to see final action.
25 So there's a variety of reasons as to why these

1 might be pended. The yellow would be SEC
2 claims within those 1,000 increments that are
3 being adjudicated by the Department of Labor,
4 and then this purple bar are administratively
5 closed in those 1,000 increments bars of the
6 graph.

7 This graphic -- bar graph shows you how many
8 reworks we have received, and I'll note for you
9 the trend that's shown out here on this end.
10 These are primarily due to the program
11 evaluation reviews of super S or highly
12 insoluble plutonium material that are being
13 done right now.

14 We have -- as you know, we make requests to the
15 Department of Energy for exposure information
16 relative to the claims, and I always report to
17 you how well we're doing in that regard. We
18 follow up every 30 days on our requests and we
19 document our progress and take special note of
20 those that go beyond 60 days. Right now we
21 have 815 outstanding requests, with 148 of
22 those exceeding a 60-day mark. And if I were
23 to anticipate Dr. Melius's question, since he's
24 not here, the sites for the -- the operational
25 -- the DOE operations offices that we are

1 looking at in those 148 claims are represented
2 by the Oak Ridge operations office with 93
3 claims. That cuts across the sites for K-25,
4 Y-12, X-10, Paducah and the Paducah Gaseous --
5 or the Portsmouth Gaseous Diffusion Plant. The
6 next highest number in that 148 would be
7 Albuquerque operations office with 28 claims
8 greater than 60 days, and those represent
9 claims from Lawrence Livermore National Lab and
10 General Atomics cases. And then the next
11 highest number would be 21 claims resident --
12 requests for information resident with the
13 Chicago operations office for ANL East and ANL
14 West and Lawrence Berkeley National Lab.
15 We have -- bring special attention over the
16 course of the last year and a half on the
17 atomic weapons employer facilities. As you
18 recall, there were more than 1,400 claims that
19 we felt needed special attention. They
20 represented around 200 sites. And so we asked
21 Battelle to work up a set of documents for us
22 on how to handle those particular atomic
23 weapons employer sites. This presents to you
24 that the Technical Basis Document-6000 for
25 atomic weapons employers that work with uranium

1 and thorium metals and the status of those
2 particular appendices that are associated with
3 that Technical Basis Document and where they
4 stand. Right now we have 15 of those
5 appendices that have been completed and are in
6 use. There are ten other appendices that are
7 currently in review as of September 18th, last
8 month. And there are 14 appendices that are
9 currently in development, some stage of
10 development, that are associated with TBD-6000.
11 The next Technical Basis Document that is of
12 interest and note for atomic weapons employers
13 that speaks specifically to those that refined
14 uranium and thorium, we have three completed
15 appendices and are using those. There are no
16 appendices in review and we have four that are
17 currently in development.

18 We'll move on to the Program Evaluation
19 Reports. I know this is of special interest to
20 the working group on procedures. They had a
21 little discussion about this yesterday and I
22 hope that the level of detail I'm about to
23 present will be found satisfactory with that
24 working group, as well as with the full Board.
25 Nineteen Program Evaluation Reviews have been

1 issued at this point. You'll find them on our
2 web site. There are also a couple of what we
3 call Program Evaluation Plans included in that
4 set. Those currently affect 13,008 claims.
5 However, that number -- 13,008 -- does not
6 reflect individual claims, as a claim may be
7 counted more than once because it's affected by
8 different types of Program Evaluation Reviews.
9 So I'd just caution you on thinking about that
10 number and its magnitude. It is a lot of work,
11 but it -- as we work through these, we're --
12 we're taking a claim and rubbing it off against
13 every possible modification and change that has
14 been found and -- and recommended in a Program
15 Evaluation Review.

16 To date we have seen a -- of the ones that we
17 have reviewed which -- in our efforts to look
18 at whether a change constitutes a -- a change
19 in the outcome of the claim decision, we have
20 found 157 claims that have gone from non-
21 compensable to compensable. If I break that
22 down a little farther for you, 152 of those
23 were based upon lymphoma, so if you write that
24 down -- it's not on my slide, but I thought I
25 might give you just a little more detail

1 (unintelligible) background. Three of those
2 were from Bethlehem Steel -- which changed from
3 non-compensable to compensable -- and two are
4 reflective of the IREP lung model change that
5 we made. So that gives you 157 switched from
6 non-compensable to compensable.

7 9,061 claims have been reviewed and no change
8 in compensability decision has been found.

9 That's a remarkable number for you to take away
10 from this. A lot of people out there are
11 being, I think, anticipating a big change in
12 compensability decision and this number
13 indicates to us, to me, that there's not a lot
14 of change in compensability decision. We have
15 3,790 claims still under evaluation across all
16 of these PERs that I've -- that you'll find on
17 our web site. If you need more detail or more
18 information about PERs, I'd be happy to see if
19 I can answer any questions you might have at
20 this meeting. Or if you want more input than
21 this for the future meetings, let me know.

22 (Unintelligible) in our contract for technical
23 support on dose reconstructions and processing
24 SEC petition evaluations, the request for
25 proposals was issued on May 4th, 2007 and those

1 proposals were due to be submitted by June
2 15th, 2007. The proposals met that date --
3 submission date are now being processed in a
4 procurement review. To avoid interruption of
5 service, we have extended the ORAU contract
6 until October 5th, and it will be further
7 extended until the award of a new contract, so
8 just to give you assurance that we're trying to
9 maintain consistency in service and support.
10 LaVon's going to present a little bit more in
11 (unintelligible) about the SEC class additions,
12 but I wanted to just include in my comments
13 that, from the very broad picture scale, 22
14 classes have been added since May of 2005. 59
15 percent of those -- or 13 -- have been
16 accomplished through the 83.13 process which is
17 a petitioner submitting a qualified petition
18 and this Board evaluating our report on that
19 and moving forward with a recommendation to the
20 Secretary. 31 percent, or nine of those 22
21 classes, have been processed through the 83.14
22 rule process and I think that's very
23 noteworthy. These represent classes of workers
24 across 17 sites, these 22 classes, and also
25 represents 1,470 cases as of to date.

1 Something I haven't included in past
2 presentations, but given that we've just
3 completed the seventh fiscal year of operation
4 in this program for NIOSH -- and actually this
5 is six and a half fiscal years, because our
6 money didn't come to us in the FY '01 until
7 pretty much into -- late into the second
8 quarter of that fiscal year. But we have
9 accounted for \$280 million under administrative
10 funds to conduct our work in this program
11 across those six and a half fiscal years. If I
12 were to break that down for you into finer
13 detail, I would say to you that \$220 million
14 have been expended on all contractors; \$180
15 million of that went to ORAU. \$14 million went
16 to the Board, and that leaves \$46 million for
17 the operation of -- and conduct of federal
18 staff in my office over those years.
19 But more telling I think is that \$869 million
20 has been paid out in compensation by the
21 Department of Labor based upon NIOSH work.
22 That reflect -- that's reflected in 6,762
23 payees in 4,810 cases at \$719 million; and \$150
24 million for added SEC classes, which represents
25 2,138 payees in 1,014 cases.

1 And with that, I will see if I can answer any
2 questions that you might bring forward.

3 **DR. ZIEMER:** Thank you very much, Larry. We'll
4 begin with Wanda, and then with Phil -- oh, no,
5 it's Gen Roessler. Hello, Gen.

6 **DR. ROESSLER:** (Off microphone)
7 (Unintelligible)

8 **DR. ZIEMER:** Yeah, you all look alike, right.

9 **DR. ROESSLER:** Larry, on the ORAU money, did
10 they get additional funds to continue till
11 October or are they operating on the funds they
12 had been granted already?

13 **MR. ELLIOTT:** We extended (unintelligible)
14 contract extension that also provided
15 additional monies through October 5th. Next
16 contract extension will also extend not only
17 the contract period, but will provide
18 additional funding (unintelligible) the work.
19 The \$188 million that I spoke of, that was
20 through the end of FY '07, which was last week.

21 **DR. ZIEMER:** Is this done on a proportional
22 basis for the extended time --

23 **MR. ELLIOTT:** (Unintelligible) --

24 **DR. ZIEMER:** -- fraction of a year?

25 **MR. ELLIOTT:** -- continuing resolution, and so

1 the continuing resolution requirements that we
2 have to follow say that we operate on a similar
3 budget level as last year -- or the year before
4 when we had an actual appropriate set of funds.

5 **DR. ZIEMER:** Phil.

6 **MR. SCHOFIELD:** I've just got one quick
7 question. During the early stages of the
8 program, at the Espanola area office actually
9 encouraged people to file as claimants in order
10 to get their records. And now some of these
11 people -- who at the time were not eligible,
12 they did not have any health problems -- are
13 now starting to crop up with health problems.
14 They want to know how difficult it is for them
15 to get their cases reopened.

16 **MR. ELLIOTT:** I'm sorry, you lost me there.
17 What --

18 **MR. SCHOFIELD:** (Off microphone) Okay, what --
19 what was happening --

20 **DR. ZIEMER:** Use the mike.

21 **MR. SCHOFIELD:** The local office in Espanola
22 was actually encouraging people in the early
23 days of the program to file a claim under the
24 Act so they could get their medical records,
25 their exposure records.

1 **MR. ELLIOTT:** This is the Resource Center.

2 **MR. SCHOFIELD:** The Resource Center, yes.

3 **MR. ELLIOTT:** Okay.

4 **MR. SCHOFIELD:** A lot of these people who filed
5 did not have any health problems of any type.
6 Now some of them are showing up with cancers
7 and some of these other health problems, and
8 they're wanting to know how difficult will it
9 be for them to go back and get their cases
10 reopened.

11 **MR. ELLIOTT:** Well, that's a question that is
12 best posed to the Department of Labor. I can't
13 answer that. It should not be difficult. All
14 they have to do is -- and once they have a
15 physician's report indicating that they have
16 acquired a cancer that they didn't have before,
17 or if it's a Title E, Subpart E claim, based
18 upon toxic chemical exposure and they have some
19 health effect that a physician has
20 acknowledged, then they should approach the
21 Department of Labor to reopen that claim. But
22 I can't answer how long it would take or what
23 efforts would be required upon a claimant to
24 get that done. I'd just encourage them to go
25 back to the Department of Labor and ask that it

1 be reopened. Did that help?

2 **MR. SCHOFIELD:** Yes, it did.

3 **MR. ELLIOTT:** Okay.

4 **DR. ZIEMER:** Wanda, additional?

5 **MS. MUNN:** Yes. Larry, thank you for the good
6 information on the PERs, from -- excuse me, I
7 always sound terrible. It's improving things.
8 Right? Under the TBD-6000 information that you
9 gave us, are the 19 appendices that you
10 mentioned in your slide the complete set of
11 what we anticipate for appendices to that
12 particular TBD at this time?

13 **MR. ELLIOTT:** This is TBD-6000?

14 **MS. MUNN:** 6000, right. You said we had 15
15 that were done, ten that were in review and 14
16 that were in development. And I was wondering
17 whether there were more behind the curtain
18 (unintelligible) --

19 **MR. ELLIOTT:** Right now that is a comprehensive
20 list, as we understand it. See, TBD-6000
21 covers a lot of sites --

22 **MS. MUNN:** I know.

23 **MR. ELLIOTT:** -- in and of itself.

24 **MS. MUNN:** I know.

25 **MR. ELLIOTT:** The appendices are designed to

1 speak to special exposure circumstances, like
2 the appendices for General Steel Industries
3 speaks to the Betatron exposures, which is not
4 covered in TBD 6000.

5 **MS. MUNN:** I understand. Yeah, I've read some
6 of them, but certainly not all of them -- just
7 wanted to make sure --

8 **MR. ELLIOTT:** Right.

9 **MS. MUNN:** -- that there were not more --

10 **MR. ELLIOTT:** Remember I said there were around
11 -- around 200 sites --

12 **MS. MUNN:** Yes.

13 **MR. ELLIOTT:** -- that were covered by Technical
14 Basis Documents.

15 **MS. MUNN:** Yeah.

16 **MR. ELLIOTT:** You only see I think -- the
17 numbers I've shown here are not 200.

18 **MS. MUNN:** Thanks.

19 **DR. ZIEMER:** Dr. Poston?

20 **DR. POSTON:** Larry, I just want to clarify.
21 Did you say \$14 million to the Board?

22 **MR. ELLIOTT:** Yes, sir.

23 **MS. MUNN:** Over six years.

24 **DR. POSTON:** Does that include SC&A's contract?

25 **MR. ELLIOTT:** Yes, it does.

1 **DR. ZIEMER:** Yes.

2 **MR. ELLIOTT:** That's all the Board.

3 **DR. WADE:** You wondered where it was going,
4 didn't you?

5 **DR. POSTON:** Yeah, I wondered where it was
6 going.

7 **DR. ZIEMER:** Most of that's for the Chairman.

8 **MR. ELLIOTT:** That's all (unintelligible).

9 **DR. ZIEMER:** Yeah, actually most of that is
10 contractor cost. There's minimal cost for
11 Board members, who hitchhike to the meetings,
12 but --

13 **MR. ELLIOTT:** What it does not include -- let
14 me speak to that. What it does not include are
15 our costs associated with our reacting to the
16 Board. Okay? When -- when the Board -- a
17 working group takes up an issue and we bring
18 our staff or our technical support contractor's
19 staff to bear on that issue, those costs are
20 not included in that \$14 million. They're
21 included in the costs I reported out for the
22 contractor or for OCAS.

23 **DR. WADE:** To give you a sense of proportion, a
24 typical year -- \$4.5 allocated to the Board,
25 \$3.5 million of that goes to the SC&A contract,

1 a million for everything else.

2 **MR. ELLIOTT:** Every year I put forward a budget
3 request that includes \$4.5 million for the
4 Board, unless otherwise instructed.

5 **DR. ZIEMER:** Okay, thank you. Mark, do you
6 have a comment?

7 **MR. GRIFFON:** Yeah, just a question on the --
8 the PER slide, and -- and I'm trying to
9 understand that would -- compared to what we
10 got yesterday with the procedures workgroup,
11 and I -- I don't know if these are comparable
12 in any way or if there's any way to cross-walk
13 them, but that -- well, I guess that's the
14 question. Is there any way to compare the
15 number or 3790 look like they're remaining
16 claims in your overhead, and then we have 24
17 PERs with various numbers of cases.

18 **DR. ZIEMER:** There's some duplication.

19 **MR. GRIFFON:** Yeah.

20 **MR. ELLIOTT:** There's some duplication.

21 **MR. GRIFFON:** Yeah, I know, I --

22 **MR. ELLIOTT:** I could have included a couple
23 more slides, but I didn't do that 'cause I
24 wasn't sure what level of granularity or detail
25 --

1 **MR. GRIFFON:** But this --

2 **MR. ELLIOTT:** -- the Board was interested, but
3 I have it with me. I have some information if
4 you'd like a little bit more information about
5 those that are in -- are being evaluated
6 (unintelligible) --

7 **MR. GRIFFON:** May-- maybe a little -- I just
8 wanted to understand does this 3790 account for
9 all those that were listed on that slide that
10 we looked at yesterday in the procedures
11 workgroup, all these 24 PERs.

12 **DR. WADE:** Perhaps, Larry, you could -- off-
13 line we could look at that and then you could
14 make those numbers available when we have the
15 workgroup report.

16 **MR. GRIFFON:** Okay.

17 **MR. ELLIOTT:** I can do that.

18 **MR. GRIFFON:** That's fair.

19 **MR. ELLIOTT:** I can do that. I can tell you
20 right now there's not all 24 involved, no.

21 **MR. GRIFFON:** Okay.

22 **MR. ELLIOTT:** Not all 19 PERs are involved
23 here. It looks to me like there's maybe nine.

24 **MR. GRIFFON:** Okay.

25 **DR. ZIEMER:** Additional questions or comments?

1 **MR. GRIFFON:** So that number of claims under
2 review could go up when -- when more of these
3 PERs are --

4 **MR. ELLIOTT:** Yes.

5 **MR. GRIFFON:** -- included? Okay.

6 **MR. ELLIOTT:** Absolutely.

7 **MR. GRIFFON:** That's what I wanted to --

8 **MR. ELLIOTT:** That's just a snapshot in time.

9 **SEC PETITION UPDATE**

10 **DR. ZIEMER:** Okay, thank you. Thank you,
11 Larry. Now let's move on to another part of
12 the NIOSH report and that's an update on the
13 SEC petitions, give us a look at what's coming
14 down the line and so on.

15 **DR. WADE:** If I could ask you to experiment, if
16 you could hold that microphone close to you,
17 you're supposed to wear it on the lapel and
18 then push the button with your other hand, if
19 you can --

20 **DR. ZIEMER:** (Unintelligible) stand.

21 **DR. WADE:** Well, we can use the standing mike.
22 This isn't work-- the lapel mike is not working
23 well.

24 **UNIDENTIFIED:** (Off microphone)
25 (Unintelligible) high on the shirt

1 (unintelligible).

2 **DR. WADE:** Well, let's experiment so we're --
3 'cause it's not working well at all.

4 (Pause)

5 Try.

6 **MR. RUTHERFORD:** How does that work?

7 **DR. WADE:** Count to 157.

8 **MR. RUTHERFORD:** 151, 152, 153 --

9 **DR. WADE:** That seems to be working pretty
10 well.

11 **MR. RUTHERFORD:** I'm going to give the status
12 of upcoming SEC petitions. We -- we provide
13 this update at the Board meetings so the Board
14 can prepare for upcoming working group sessions
15 and future Board meetings.

16 As of September 17th we had 97 petitions. We
17 now have 99. We actually have two 83.14s that
18 came in. We have nine petitions that are in
19 the qualification process, 42 petitions that
20 have qualified. We're in the evaluation
21 process for five of those, and we have
22 completed evaluations on 37. We have 41
23 petitions that did not qualify.

24 I want to go over some petitions that are
25 currently with the -- with the Board for

1 recommendation, and kind of give you an
2 overview of -- of the -- kind of chronology of
3 events.

4 Chapman Valve evaluation report was approved
5 and sent to the Board and the petitioners on
6 August 31st, 2006. We presented our evaluation
7 at -- at the September 2006 Advisory Board
8 meeting. The Advisory Board established a
9 workgroup to review the evaluation at its
10 September meeting, and the workgroup presented
11 its findings at the May 2007 Advisory Board
12 meeting.

13 A decision was made at that time to postpone a
14 recommendation till the July meeting to allow
15 the petitioners to review SC&A's report on the
16 evaluation.

17 The Advisory Board voted on a six-to-six to not
18 add the class in the July 2007 meeting. Based
19 on this vote, the Advisory Board determined it
20 would like to get a response from the
21 Department of Labor and DOE concerning
22 potential covered work at the Dean Street
23 facility.

24 DOL provided response to the Advisory Board's
25 questions, and the current status of th-- and I

1 think we're still waiting on DOE's response --

2 **DR. WADE:** We are not. We now have DOE's
3 response and --

4 **MR. RUTHERFORD:** All right.

5 **DR. WADE:** -- it's been shared with the Board.

6 **MR. RUTHERFORD:** This was as of September 17th,
7 so I'm okay.

8 The status is the Chapman Valve SEC is with the
9 Advisory Board for recommendation.

10 Blockson Chemical, the evaluation report was
11 initially approved and sent to the Advisory
12 Board and the petitioners on September 5th,
13 2006. NIOSH presented our evaluation report at
14 the December 2006 Advisory Board meeting. We
15 subsequently pulled that -- that evaluation
16 report after it was determined that we did not
17 address all covered exposures. The Advisory
18 Board established a working group to review the
19 evaluation report at the -- at its December
20 2006 meeting.

21 NIOSH issued a revised evaluation report in
22 July 2007 and presented that evaluation report
23 at the July Board meeting. The working group
24 met in Cincinnati on August 28th, and a public
25 meeting was conducted on September 12th with

1 claimant audience to explain changes made to
2 the dose reconstruction technical approach.
3 And the status is the petition is still with
4 the working group.

5 Feed Materials Production Center, the
6 evaluation report was approved and sent to the
7 Advisory Board and petitioners on November the
8 3rd, 2006. NIOSH presented the evaluation
9 report at the February 2007 Advisory Board
10 meeting, and the Advisory Board established a
11 working group to review the evaluation report
12 at that meeting.

13 In May 2007 SC&A provided a draft review of the
14 evaluation report to the working group,
15 petitioners and Board. The working group met
16 in Cincinnati on August 8th.

17 And the status is the working group review of
18 the FMPC, Feed Materials Production Center,
19 report is ongoing.

20 Bethlehem Steel, the evaluation report was
21 approved and sent the Advisory Board and
22 petitioners on February 27th, 2007. NIOSH
23 presented their evaluation report at the May
24 2007 Advisory Board meeting. At the time, the
25 Advisory Board determined that it needed

1 further information before making a
2 recommendation on the SEC petition. The
3 Advisory Board tabled the discussion on
4 Bethlehem Steel evaluation report until the
5 working group that is looking at the use of
6 surrogate data comes back with a determination
7 concerning the use of surrogate data at
8 Bethlehem Steel.

9 Status of the petition is with the Advisory
10 Board for recommendation.

11 Sandia National Lab Livermore, the evaluation
12 report was approved and sent the Advisory Board
13 and petitioners on March 29th, 2007. On April
14 25th, just before the Board meeting, we
15 received new information from the petitioner
16 and NIOSH presented our evaluation report at
17 the May 2007 Advisory Board meeting, and we
18 discussed the new information that was provided
19 by the petitioner. The Advisory Board asked
20 NIOSH to provide an update that would address
21 the new information.

22 NIOSH has issued the addendum to their
23 evaluation report and we plan to present that
24 addendum at this -- this Board meeting.

25 Y-12 statisticians, the evaluation was approved

1 and sent to the Advisory Board and petitioners
2 on June 29th, 2007 and we are presenting that
3 evaluation report this meeting.

4 NUMEC, which we discussed earlier, the
5 evaluation report was approved and sent the
6 Advisory Board and petitioners on September
7 14th, and I think we've taken action on that
8 one.

9 Hanford Part 2, which addresses all employees
10 '47 to '90, the evaluation report was approved
11 and sent to the Advisory Board and the
12 petitioners on September 11th, and NIOSH is
13 presenting that evaluation at this meeting.
14 NTS, NIOSH completed our evaluation in
15 September, this month, and NIOSH plans to
16 present that evaluation report at the January
17 2008 meeting.

18 We have a few petitions that are in the qual--
19 or in the evaluation process right now. We
20 have an 83.14 for Lawrence Livermore National
21 Lab. We expect to have that evaluation report
22 completed this month.

23 We're also working on an 83.13 from a
24 petitioner for Texas City Chemical, and we
25 anticipate having that complete at the end of

1 this month.

2 We have a 83.13 from the Mound plant, and that
3 is on schedule to be completed in November.

4 In addition, the resource constraints that we
5 were -- that limited our activities on the
6 83.14 process have been resolved and we have a
7 -- we are currently working a number of 83.14s
8 and I -- you can expect that process to -- to
9 increase considerably over the next six months.
10 That's it.

11 **DR. ZIEMER:** Thank you, LaVon, for a good
12 summary of what's coming down the pike. Let me
13 see if anyone has questions for you. Josie?

14 **MS. BEACH:** I just had a question on Parks.

15 **MR. RUTHERFORD:** Yes.

16 **MS. BEACH:** You mentioned that was going to be
17 an SE-- or an 83.14.

18 **MR. RUTHERFORD:** Yeah, that was -- that one
19 didn't make the -- didn't make (unintelligible)
20 yet because we didn't actually have the
21 petitioner as of September 17th when I -- see,
22 they put tight restrictions on us on preparing
23 these presentations now, so I couldn't up--

24 **DR. ZIEMER:** But we know that one is also on
25 the horizon, as well. Thank you.

1 Other comments or questions?

2 (No responses)

3 Thank you very much, LaVon, for that update.

4 **DOE PROGRAM UPDATE**

5 Let's proceed -- is Dr. Worthington here or --
6 there she is. Okay.

7 Dr. Worthington, welcome. We're pleased to
8 have you here. You'll give us an update on
9 what's happening with the DOE -- at least some
10 things that are happening with the DOE.

11 **DR. WADE:** Painful though it may be, Bomber,
12 you have to give up the mike.

13 **DR. WORTHINGTON:** While he's getting the next
14 set of -- of slides, can you hear me okay?
15 Louder? This is good?

16 (Pause)

17 Good afternoon, Dr. Ziemer, Dr. Wade, members
18 of the Board, representatives of Department of
19 Labor and NIOSH and interested workers and
20 citizens. I am very pleased and honored to
21 appear before the Board today. This is my
22 first opportunity to do that and I'm looking
23 forward to it.

24 I am the Director of the Office of Health and
25 Safety within the Department of Energy. And

1 one of the primary responsibilities, one of my
2 highest priorities, is to ensure that we're
3 able to provide thorough and timely records to
4 support this activity. The program continues
5 to be a very high priority within the office of
6 HSS, but also across the DOE complex, so I
7 wanted to share with you today the status of
8 our program and to make sure that people are
9 aware that the health and safety of our
10 workers, both past and current, is very
11 important to us and it helps define who we are
12 within the Department of Energy.

13 Again, I want to talk a little bit about our
14 role. Our role in the Department of Energy is
15 a role of being a facilitator, supporting and
16 assistance -- and assisting the other
17 organizations to make sure that we can
18 research, retrieve and provide the appropriate
19 documentations for these activities.

20 A little bit more about the role of Department
21 of Energy in terms of what we're doing. We
22 have responsibility in a number of areas. One
23 is individual claims. I don't know if you can
24 actually see that from where you are so I'll
25 mention what the numbers are. We have been

1 very aggressive in that area. And for example,
2 employment verifications, we typically -- we've
3 done eight -- over 8,000 this year. In terms
4 of dose documentation for NIOSH, you'll see
5 that we've done over 4,000 in that area. In
6 terms of document acquisition requests, we've
7 been aggressive there; again, over 8,000. So
8 again, a number of activities related to
9 individual claims.

10 We have some large-scale activities, and I
11 think you've heard a little bit about that
12 already. We try to provide support to NIOSH
13 and to DOL and to the Board for various
14 activities. We try to serve, again, as a
15 facilitator, supporting and making sure that
16 the sites are aware of the planned visits and
17 that they're able to retrieve the documents for
18 both site exposure matrix projects, things to
19 support the Advisory Board in their research,
20 and also to support the -- the SECs. One of
21 the things that we do from our office, from
22 HSS, we are constantly trying to provide
23 information to the sites. We have all of the
24 various activities from NIOSH and Department of
25 Labor and the Board on the calendars that are

1 visible to Glenn Podonsky, and we're making
2 sure that in his interaction with senior
3 leadership in the Department that we make sure
4 they're familiar and they're aware of these
5 upcoming events and they're prepared to support
6 the document retrieval activities.

7 We also have responsibility for research and
8 maintain the covered facilities database.

9 I want to talk a little bit about slides in
10 terms of the kinds of things that we're doing
11 here. This particular slide relates to our
12 activities of all the records requests that
13 we've completed for both DOL and NIOSH. And
14 you can see here that there continues to be an
15 increase in terms of the requests coming to the
16 Department of Energy for the various records.
17 There've been some fluctuations in the
18 requests, but certainly it's clearly an
19 increase in the activities.

20 I think the trick is to point towards the --
21 oops, do I need to go back?

22 (Pause)

23 I want to talk a little bit about the record
24 research support activities that we do in
25 support of NIOSH and its contractors. As you

1 can see, we have nearly 15 areas or sites that
2 we're supporting in providing documentation
3 for. In addition to the ones that you see
4 here, from time to time we have to do
5 additional researches at our National Archives
6 and Federal Records Centers, and we're doing
7 that, making sure that we're looking at all the
8 places and finding the records 'cause in some
9 cases the records are not -- no longer at the
10 site, or there are incomplete activities and we
11 look in other areas and other places to try to
12 find these records.

13 I'm getting an echo here. Are you hearing me
14 okay from where you are? Good?

15 A little bit about our support to you, to the
16 Board. There are some things that we're doing,
17 we're trying to facilitate getting the records
18 for your activities, as well.

19 A little bit about where we are. I think
20 you've heard a little bit from Larry in terms
21 of activities and interface with Department of
22 Energy in terms of getting records. Again,
23 certainly we weren't able to accurately project
24 the -- the records that would be required or
25 sort of the complexity associated with the

1 records, or the -- the kinds of things we would
2 have to do in all cases to do research and to
3 make the information available to you. We've
4 been trying to shoot very high in terms of
5 getting things out within the 60-day period. I
6 think we had a target of 95 percent. We're
7 falling below that. Over the last -- again,
8 the last three or four months, I think there've
9 been increased numbers in terms of the requests
10 and we've done a number of things in the
11 Department to try to compensate for that and to
12 make sure that we're able to do a better job.
13 At the sites, in some cases they had
14 underestimated the personnel needed to -- to
15 provide the records. They've made some
16 adjustments; they've shifted some individuals
17 around, and in some cases assigned new
18 individuals to support those activities.
19 They've also looked at processes and mechanisms
20 to be more efficient and more effective in
21 terms of delivering, and we're working on that.
22 And we've established points of contact for the
23 various activities to have individuals that are
24 dedicated to that, that they understand it, and
25 they're working on that on a regular basis.

1 We've instituted and partnered with our -- with
2 the organizations in terms of providing
3 training. We've had some very good training
4 sessions and I think that we're going to
5 continue with those things. And we're looking
6 to have sort of a joint all-hands meeting
7 between DOL and NIOSH and the Department of
8 Energy to kind of work through things in terms
9 of how we can do them better.

10 We've also, within the Department of Energy,
11 (unintelligible) some additional resources.
12 From time to time we go to the program offices,
13 we ask them for help in terms of retrieving and
14 researching records and understanding what
15 might be needed so that NIOSH and DOL can do
16 their jobs.

17 We've also recognized the -- sort of the
18 uniqueness of what we call Legacy Management.
19 They have a responsibility for maintaining
20 records and various activities associated with
21 what the Department describes as legacy
22 management, things that we've cleaned up to a
23 certain point but we still have a DOE
24 responsibility in those areas. They have some
25 unique skills and some unique capabilities.

1 They've been working with us and helping us to
2 research and make those -- make certain things
3 available. And so we think that you'll see in
4 the upcoming months and next year even better
5 processes within DOE because of the partnering
6 that we're doing within the Department with the
7 Legacy Management organization.

8 A little bit about sort of our current
9 research. You've heard -- these are the ones
10 that are high on the list of -- of our office
11 right now. Chapman Valve, we were able to
12 complete the activities on that and the
13 information is available for you right now.
14 In terms of the Dow Chemical, we are still
15 researching and trying to exhaust, you know,
16 all reasonable efforts to provide some
17 information to you in this area. We've reached
18 out to the FBI to help us to look at some of
19 the documents in terms of whether or not we can
20 get some additional information on things that
21 we couldn't actually see ourselves. But we're
22 hoping to be able to reach closure on that in
23 the very near future.

24 The last three that you see here are things
25 that are -- ones that are -- we're becoming

1 much more aggressive now that we're able to
2 work through the two on the top, and should be
3 providing some information to you shortly in
4 that area.

5 The last one, again, is just kind of a
6 restatement of the -- the Office of Legacy
7 Management and the kinds of things that we're
8 doing with -- with that organization. And so,
9 again, you'll hear more from them in the future
10 because they'll be helping us to address some
11 of your concerns.

12 This is actually the last slide here, I
13 believe, and I'm happy to answer any other
14 questions or give more details regarding what
15 we're doing at Department of Energy on any of
16 these items.

17 **DR. ZIEMER:** Okay. Thank you very much, Dr.
18 Worthington. We appreciate the level of
19 support we've seen from you and from Glenn
20 Podonsky. It's been very helpful.

21 Board members, questions for Dr. Worthington?
22 Or comments? Yes, Mark Griffon.

23 **MR. GRIFFON:** I just wanted to follow up on --
24 we had asked before about the Mound records
25 that -- the issue that they may have been

1 buried or whatever and were -- and was there an
2 attempt to recover them or -- and where --
3 where that kind of stands. I know you were
4 looking into it or...

5 **DR. WORTHINGTON:** Yes, I want to give you a
6 status in terms of where we are. We've had
7 quite a bit of discussion in the Department,
8 and we've been very thorough, we believe, in
9 trying to come up with what would be an
10 estimate in terms of being able to retrieve the
11 documents. And we've looked at some of the
12 challenges that we might have in being able to
13 do this. Right now our position is that we
14 were -- are waiting to hear about the SEC, if
15 there are any decisions on that. And we would
16 look to that decision, as well as some
17 collaboration with NIOSH and Department of
18 Labor, about next steps. And so we have
19 gathered quite a bit of information. We're
20 waiting for some additional pieces and then we
21 would make a decision on -- on doing that. We
22 have not yet closed the door.

23 **DR. ZIEMER:** Thank you. Other questions or
24 comments?

25 (No responses)

1 If not, thank you again for that update --

2 **DR. WORTHINGTON:** Thank you.

3 **DR. ZIEMER:** -- and we look forward to
4 continued interactions with the staff there.

5 **DOL PROGRAM UPDATE**

6 Next we're going to have an update -- program
7 update from Department of Labor. Jeff Kotsch
8 is here and Jeff, I think we still have time on
9 the agenda to hear from you.

10 **MR. KOTSCH:** Good afternoon. Is this audible
11 back there or...

12 I'll start. We've got the standard format for
13 these presentations and we're trying to look at
14 some other ways to present some of this data
15 'cause it's kind of number-intensive.

16 Part B, just as a summary, started back in --
17 or it became effective back in July 2001. Part
18 B is the side of the program that deals with
19 cancers, silicosis, beryllium-related diseases.
20 As of September 19th -- the date varies a
21 little bit through the presentation -- we've
22 had 58,876 cases with 85,380 claims. Again,
23 there's always more claims than cases because
24 once -- if the employee passes away, there's --
25 could be more than one survivor. Of those,

1 38,321 are cancer cases, and I think this
2 number -- we try to coordinate with Larry; I
3 think this number is -- at least hopefully the
4 same, 25,238 cases that we've referred to
5 NIOSH.

6 The Part E side we inherited from DOE, and that
7 was enacted -- that was enacted in October 2004,
8 became effective for Labor in June of 2005.
9 That's the side that deals with exposure to
10 toxic materials at the -- at only DOE sites.
11 Part B is effective for both AWEs and DOE
12 sites; Part E only for DOE sites for the -- for
13 the amendment to the Act. On that side we've
14 had 48,518 cases from 66,879 claims. And we
15 inherited 25,856 cases from Department of
16 Energy.

17 To date, Department of Labor has paid out \$2.9
18 billion in total compensation, Part B and E.
19 \$2.1 billion is Part B and \$1.6 billion of that
20 has been for cancer cases and \$257 million for
21 RECA, the Radiation Exposure Control Act,
22 cases. \$815 million are Part E cases and
23 another \$168 million in medical payments.
24 As far as the payees under the program, there
25 have been 33,620 total payees. Of those,

1 26,563 have been Part B payees. And then as
2 that breaks down, 10,942 are cancer, 4,810 were
3 at NIOSH and 5,168 were RECA's. And then the
4 remaining 7,057 were Part E's. If you look at
5 the pie chart, just as a correction, the two
6 pies on the -- pie -- slices of pies on the
7 right, the cancer one should actually be 39 and
8 the RECA one 19, and then if you were adding
9 up, you -- now it adds up to 100.

10 **DR. ZIEMER:** Say that again, Jeff. The case--

11 **MR. KOTSCH:** Yeah, the cancer cases, it's
12 showing 35, it should really be 39.

13 **DR. ZIEMER:** Thirty-nine.

14 **MR. KOTSCH:** And the RECA's showing 15; it
15 really should be 19. We just -- I didn't --
16 I'll take the blame. I didn't proof that after
17 it was produced.

18 **UNIDENTIFIED:** (Off microphone)

19 (Unintelligible)

20 **MR. KOTSCH:** Excuse me?

21 **UNIDENTIFIED:** (Off microphone)

22 (unintelligible)

23 **MR. KOTSCH:** Yes, that -- that arithmetic stuff
24 baffles me sometimes.

25 The Part B cancer case status, 38,321 cases

1 having -- with 58,638 claims. We've had 29,308
2 cases with final decisions. That means they've
3 gone all the way through the process and have
4 gone -- final decisions to the claimants.
5 2,316 have recommended decisions but no final
6 decisions. That means they -- they are now
7 currently with our Final Adjudication Branch,
8 at which point the -- the claimant has the
9 opportunity to basically contest the -- the
10 recommended decision and ask -- request a
11 hearing if they'd like, or whatever they want
12 to submit as far as additional evidence or
13 objections. 4,347 are at NIOSH currently, and
14 we have 2,350 that are pending initial
15 decision. Those would be at the District
16 Office awaiting a determination of the
17 recommended decision. So about 69 percent of
18 them have final decisions.
19 This is the standard graphic for the cancer
20 case final decisions. On the left side of the
21 bar is 11,114 final decisions approved; on the
22 right side, the red bar, is 18,194 and then the
23 breakdown to the right of that for the reasons
24 that those cases are not -- those cases were
25 denied. And the principal driver is 11,800 --

1 sorry, sorry, 11,093 cases with POCs less than
2 50, and then the other reasons are non-covered
3 employment, insufficient medical evidence, non-
4 covered conditions or ineligible survivors.
5 Now of the ones that we referred, the 25,238
6 cases that we referred to NIOSH, 19,209 have
7 been returned, 1,931 of those have withdrawn --
8 have been withdrawn, to give you 17,278 dose
9 reconstructions. The primary reason for the
10 withdrawals more recently are classes that are
11 coming into the SEC and we withdraw them prior
12 to them having a dose reconstruction. There
13 are also other smaller drivers for withdrawing
14 cases. The claimant may have died or the
15 employee may have died. There may be no
16 survivors, in which case the case basically
17 just comes back to -- to cease adjudication.
18 Or there may be other reasons of the case has
19 dropped out. Maybe whatever cancer was
20 initially considered is no longer verifiable or
21 documented or something like that.
22 Okay, 17,278 dose reconstructions. We've --
23 I'm sure this number is different, 1,752
24 reworks sent back, and we still have 4,101
25 initial referrals back at NIOSH.

1 So the -- again, the 17,457 cases that we have
2 with dose reconstructions, 89 percent have
3 final decisions. That's a little over 15 and a
4 half thousand cases. We have 1,430
5 recommended, but no finals. Again, they're at
6 -- with our FAB. And we have 480 pending
7 recommended decisions in our District Offices.
8 Now the new SEC-related cases, we have 1,360
9 that's we've withdrawn from NIOSH for SEC
10 reviews. That has resulted in 1,022 final
11 decisions, 853 of those are approvals, 69 are
12 denials; 156 recommended but no finals again,
13 they're with FAB; 81 are pending and I think
14 last time when the presentation was given by
15 Christie we didn't have this last number, the
16 102 closures, and that'll give you the --
17 that'll allow you to sum up the numbers to give
18 the -- get the total. Closures are just ones
19 that are -- again, the case is closed for some
20 reason. Again, it may be the employee's passed
21 away, there are no survivors. For whatever
22 reason, that case is administratively -- the
23 processing of that case is administratively
24 stopped. Again, 82 percent are final decisions
25 or have had some final decision.

1 Related to NIOSH -- or compensation related to
2 NIOSH cases, \$869 million in compensation has
3 been paid out. That's 8,900 payees in 5,824
4 cases. Of that, \$719 million were on dose-
5 reconstructed cases for 4,810 cases, and \$150
6 million on the added SEC classes. That's 1,014
7 cases.

8 And then as we do, we just have some summaries
9 of information so far related to issues that
10 are here at the Board -- or in front of the
11 Board for this meeting. So you'll see NU-- we
12 have both NUMEC and Parks listings for cases.
13 In the -- in the case of Apollo it's 250 cases.
14 They're only Part B again. 54 dose
15 reconstructions, we've had 58 final decisions,
16 27 Part B approvals and paid out \$4 million in
17 compensation.

18 We list the NUMEC listing there for -- there've
19 been five Part B approvals for \$600,000.

20 The Hanford listing there for -- this would be
21 both Part B and E, 7,866 cases, final decisions
22 on 2,678, 830 Bs -- B approvals or 830 -- I'm
23 sorry, 885 E approvals for -- total for Part --
24 Part B and Part B of \$147 million.

25 Sandia Livermore, we've seen about 221 Part B

1 and E cases, had 34 NIOSH dose reconstructions,
2 54 final Part Bs, 15 B approvals, nine E
3 approvals for \$1 million in compensation.
4 Y-12, 11,182 Part B and E cases. There've been
5 2,100 NIOSH dose reconstructions, 3,834 B
6 decisions, 2,408 B approvals, 1,853 E approvals
7 for \$443 million. The B approvals I think
8 would be -- a lot of SECs there.
9 Blockson, 201 cases, 108 finals -- Part B
10 decisions, 14 approvals for \$2 million.
11 Fernald, a little under 3,000 cases, 776 NIOSH
12 dose reconstructions, 957 Part B decisions, 353
13 approvals for Part B, 302 for E, \$69 million in
14 compensation.
15 Chapman Valve, 215 cases. We've had 111 Part B
16 decisions, 34 approvals. That's \$5 million.
17 Dow Chemical is -- we've seen 313 cases, two
18 NIOSH dose reconstructions. We've had 29 final
19 decisions for Part B, two approvals, that's
20 \$300,000.
21 Bethlehem Steel, 1,354 Part B cases, 712 NIOSH
22 dose reconstructions, 799 Part B final
23 decisions, 326 approvals, that's \$48 million.
24 Rocky Flats, about 5,300 Part B and E cla-- ca-
25 - cases, 1,017 NIOSH dose reconstructions.

1 Labor's rendered 1,622 dec-- final decisions,
2 713 B approvals, 726 E approvals, and that
3 totals out at \$105 million.

4 Again, just because those are -- those are the
5 ones that are in front of the Board this week,
6 just to give you a little background. I don't
7 know why...

8 Anyway, questions?

9 **DR. ZIEMER:** Okay. Thank you, Jeff. Comments
10 or questions, Board members? As always,
11 there's a slight difference in the NIOSH and
12 the DOL numbers for dose reconstructions, but
13 we understand the reasons for that. But
14 anyway, thank-- we appreciate knowing that --
15 it's always of interest to -- you get a feel
16 for what the com-- total compensations are for
17 the various programs, and the scope of that.
18 Often we hear comments that no one is getting
19 compensated, and in reality, quite a few people
20 are in fact. So I appreciate getting those
21 numbers as well.

22 Other comments, Board members?

23 (No responses)

24 Thank you, Jeff.

25 **MR. KOTSCH:** Okay, thank you.

1 **DR. ZIEMER:** Now we're going to have time for a
2 break before our public comment period, about
3 15 or 20 minutes actually. Any housekeeping
4 instructions for us, Dr. Wade?

5 **DR. WADE:** I think we're one presentation
6 behind. We didn't want to rush Jim Neton's
7 presentation 'cause it's a substantive one and
8 --

9 **DR. ZIEMER:** Not that the others weren't
10 substantive, but it's even more so.

11 **DR. WADE:** Even more so, but we have time for -
12 - we'll have time in the agenda for that
13 tomorrow or Friday.

14 **DR. ZIEMER:** Good, let's take a break till 5:00
15 o'clock and we'll resume with our public
16 comment period.

17 (Whereupon, a recess was taken from 4:40 p.m.
18 to 5:05 p.m.)

19 **PUBLIC COMMENT**

20 **DR. ZIEMER:** Thank you very much. We'll resume
21 our session. We're -- we move now to the
22 public comment session of our meeting. I've
23 had a number of people sign the request to make
24 public comment. I'll just take them in the
25 order that they appear. At least one person is

1 on the phone, hopefully. Let me check first.
2 John Ramspott, are you on the phone?

3 **UNIDENTIFIED:** (Off microphone) (Inaudible)

4 **DR. ZIEMER:** He is, okay. Just stand by. Our
5 first speaker then will be Dr. Dan McKeel.
6 Dan, welcome. We'll hear from you first.

7 **DR. MCKEEL:** Good afternoon, Dr. Ziemer and the
8 Board. Two days ago, on September the 30th, I
9 received the long-awaited HH-- HHS letter dated
10 August the 30th, 2007 related to extending the
11 Dow SEC number 79 to cover the residual
12 contamination period from 1961 to 1998. The
13 letter was in response to a letter from Dr.
14 Ziemer and the Board in late May. Dr. Ziemer's
15 letter requested the Secretaries of Labor and
16 Energy to assist their Departments to look into
17 the Dow SEC extension to cover the residual
18 contamination period.

19 The HHS letter came to me in a roundabout
20 fashion. That is, an HHS aide sent it, upon a
21 request, to Robert Stephan of Senator Obama's
22 staff -- to Mr. Stephan, who then forwarded a
23 copy to me. The four months' delay in not
24 being sent a copy by the Board directly in my
25 role as Dow co-petitioner was both surprising

1 and very disappointing. Since the July 19th
2 Board meeting I had asked Dr. Ziemer and Dr.
3 Wade several times about the status of the HHS
4 letter, with no clear response, and I wonder
5 why I was not given this letter sooner.
6 The content of the letter made it clear to me
7 that Director Gerberding of CDC, who wrote the
8 letter on behalf of HHS Secretary Mike Leavitt,
9 was either unaware of or overlooked certain
10 salient facts about the Dow SEC. These facts I
11 would now like to place in the public record
12 are as follows:
13 One, NIOSH, which was not charged by the Board
14 to do so, unilaterally undertook to query
15 Department of Labor and DOE via a May 8, 2007
16 e-mail about changing the coverage period and
17 the facility description on the Dow Madison,
18 Illinois site. This e-mail, which was directly
19 and intimately related to the Board's two
20 unanimously-passed motions on the Dow SEC by
21 Dr. Jim Melius on May 4th, was withheld from me
22 until after both DOL and DOE had responded,
23 thereby eliminating me from having meaningful
24 input. The e-mail ignored my testimony to the
25 Board on 5/4/07, four days earlier, about the

1 Dow SEC petition and the validity of extending
2 it to cover the residual period of 1961 to
3 1998. The framing of the coverage facility
4 issues was markedly different in that May 8th
5 e-mail than the way I see them. I did not
6 mention they were -- the reply, I'm sorry; the
7 e-mail of -- of May 8th did not mention either
8 the worker affidavits about truckload
9 quantities of thorium alloy shipments going to
10 Rocky Flats for AEC work, for example.
11 Four, Dr. Gerberding is apparently unaware that
12 I strongly rebutted Pat Worthington's DOE
13 response letter dated 5/22 to Larry Elliott, or
14 that I am still awaiting a final response
15 and/or the interim response that was promised
16 to reach me before the October Board meeting.
17 I should add that today I was happy that I did
18 receive this interim letter this afternoon at
19 about 1:00 -- 1:15 today.
20 Number five, Dr. Gerberding also does not
21 acknowledge that DOE is reassessing its
22 determination by performing forensic FBI
23 character recognition on Mallinckrodt AEC and
24 Dow Madison purchase order 316 that relates to
25 the thorium plate alloys where the following

1 letters, 21A, which my group believes strongly
2 points to these being a magnesium and thorium
3 alloy, are clearly readable to me but are not
4 eligible (sic), according to Peter Turcic, to
5 DOL or to DOE. This point continues to truly
6 amaze me.

7 B, DOE is also searching for additional
8 documents that relate to thorium alloy
9 shipments to Rocky Flats and to the possible
10 use of these materials in nuclear weapons.
11 Six, and finally, the HHS August the 30th
12 letter does also not mention that on October
13 the 1st Senator Barack Obama of Illinois sent a
14 letter to Peter Turcic of DOL asking him to
15 state his view of the weight that should be
16 afforded direct, eyewitness testimony and
17 affidavits by knowledgeable Dow Madison
18 workers, including some non-claimant
19 supervisors, that the site shipped magnesium
20 thorium alloy in quantity to three AEC
21 facilities. My group, the Southern Illinois
22 Nuclear Workers, asserts that some of this
23 material either was used in or contributed to
24 the production of nuclear weapons. I do not
25 believe that Mr. Turcic has yet responded to

1 the Senator.

2 I, as Dow SEC petitioner, thus feel that I have
3 been treated very unfairly in -- in having both
4 the NIOSH May 8th, '07 e-mail to DOL and DOE
5 and Dr. Gerberding's HHS letter of August 30th
6 withheld from me. Although I appreciate DOE's
7 willingness to explore this issue further, it
8 is disappointing that answers have not emerged
9 in time to have the Board vote at this meeting.
10 These two actions have seriously undermined our
11 efforts to have the Dow SEC extended to cover
12 1961 to 1998.

13 For the record, it is now 13 months since I was
14 first notified that Dow Madison would be
15 recommended by NIOSH for an 83.14 SEC petition.
16 My final comment relates to ongoing dose
17 reconstructions at Dow Madison. The number of
18 cases now in the SEC has decreased from 53 to
19 47, reasons uncertain to me. Of the remaining
20 Dow claims at NIOSH, only eight have been
21 assigned a health physicist, while 81 have not.
22 Why is this? How can they ever have a dose
23 reconstruction done with no site profile and no
24 TBD 6000 appendix? These claims have been at
25 DOL for months. Two DR -- two dose

1 reconstructions have been completed.

2 And finally, I would also note for the record
3 that the transcripts of the 5/4/07 and the
4 7/19/07 Board meetings where the Dow SEC
5 extension was discussed have still not been
6 delivered to me. Thank you very much.

7 **DR. ZIEMER:** Thank you, Dan. I do want to add
8 a comment, which I did pass on to Dan privately
9 earlier. The letter from Director Gerberding
10 which is referred to is dated August 30th.
11 Board members, you would have gotten your copy
12 by e-mail yesterday. That letter was held by
13 the government for 30 days in the form of the
14 U.S. Post Office, where my mail was being held
15 for several weeks because I was on travel. I
16 did not see the letter, either, August 30th,
17 not till just before this meeting and I brought
18 a copy with me. I -- it was not sent in the
19 electronic form, so actually Dr. McKeel
20 probably saw that letter before any of the
21 Board members, before Dr. Wade, I know before
22 Dr. (sic) Elliott. So although it appeared to
23 be a delay, I think he was the first to know.
24 I did bring the letter with me and -- and
25 checked with Lew on it yesterday when I

1 arrived, and learned that no one had gotten a
2 copy of that letter and it was immediately --
3 we obtained it in electronic form then and it
4 was immediately sent to the Board members and
5 to Dr. McKeel. However, he had already
6 received it by the circuitous route that he
7 described in his comments. But I do want to
8 make it clear that there was no -- certainly no
9 intent on my part to delay that letter. It
10 simply -- I -- I simply did not get it myself,
11 physically, till just before this meeting.
12 Nonetheless, we understand the comments that
13 were made and the concerns that Dr. McKeel has.
14 Also, we're aware from Dr. Worthington's
15 comments that DOE is doing some follow-up on --
16 on some of those issues, so that -- the book is
17 still open, I think.
18 Okay, let's proceed. I -- I next have John
19 Ramspott on -- on the schedule, is -- and I
20 think we heard that John was on the line. Last
21 time John tried to speak to us and the phone
22 connection was very bad and we had a great deal
23 of trouble. But John, I'm hopeful that we can
24 hear you this time.

25 (Extreme feedback)

1 We'll try again. Go ahead.

2 (Extreme feedback)

3 (Pause)

4 How are we doing? Is John still on the line?

5 **UNIDENTIFIED:** (Off microphone)

6 (Unintelligible) still on the line

7 (unintelligible).

8 **DR. ZIEMER:** Okay.

9 (Pause)

10 **MR. RAMSPOTT:** ... hear me. Hello?

11 **DR. ZIEMER:** Yes.

12 **MR. RAMSPOTT:** Dr. Ziemer, can you hear me now?

13 **DR. ZIEMER:** Yeah, proceed.

14 **UNIDENTIFIED:** (Off microphone)

15 (Unintelligible)

16 **MR. RAMSPOTT:** This is John Ramspott in St.

17 Louis, Missouri. I'm calling on behalf of

18 workers and families from General Steel

19 Industries in Granite City, Illinois. I would

20 first like to begin by thanking the Board for

21 allowing me the opportunity to make these

22 public comments. I had hoped to be there with

23 you, but due to some medical emergencies in the

24 family I needed to stay home.

25 I appreciate everyone's involvement with the

1 now-ongoing evaluation of the General Steel
2 Industries Appendix BB by SC&A. This type of
3 review or official review has been one of my
4 primary goals from the very start of my
5 involvement with the General Steel Industries
6 site. It all started approximately two and a
7 half years ago.

8 I thank NIOSH for creating those documents so
9 we had something to work with. I've been told
10 that this is a living document and I hope to
11 help make that a living document by all means
12 possible. I fully realize that these types of
13 documents are not easy to do or prepare in
14 accurate manner under 50 years of working with
15 many times incomplete information and that is
16 why I have really dedicated some time to trying
17 to help all parties with this information.

18 I ask that the research regarding General Steel
19 Industries, and in particular the two Allis
20 Chalmers Betatrons plus numerous other non-
21 destructive sources and procedures, now be
22 given full consideration that General Steel
23 Industries had been selected or given a kind of
24 priority status authorized by the Board to do a
25 full review. We cannot thank you enough for

1 that action. I listened in on the conference
2 call a couple of weeks ago, heard essentially a
3 unanimous vote of the people from the Board who
4 were there to authorize SC&A to do what they
5 needed to do to get the best information
6 possible, and I, again, cannot thank you
7 enough.

8 That by itself is quite a task, considering the
9 fact that the Betatrons have really never been
10 explored, to my knowledge, at any of the sites
11 to this depth or this detail which we hope will
12 take place at General Steel. We find the fact
13 that they were not explored at General Steel a
14 little confusing considering they were the main
15 reason for sending uranium to General Steel
16 Industries beginning in 1953, which of course
17 is confirmed -- that date, '53, is confirmed in
18 -- in other document -- it was actually for
19 Mallinckrodt Chemical Works. That document
20 states the Betatron slices were sent as they
21 were collected to General Steel Industries. So
22 looking at the Mallinckrodt document as 100
23 percent total credence that all this started in
24 1953, so there should be no doubt because of
25 the two related documents that back up this

1 fact.

2 It was also mentioned in the government cleanup
3 reports and why they were never considered is
4 beyond me. Experts knew what they were. But
5 that is, quite frankly, water under the bridge.
6 This is now. And considering the fact that the
7 Board has requested SC&A to do this review of
8 Appendix BB and of course the McKeel-Ramspott
9 critiques, I really am confident that we will
10 get the job done this time.

11 I would also ask that the replies to the
12 McKeel-Ramspott critiques to the General Steel
13 Industries Appendix BB which were noted in the
14 last meeting in the state of Washington would
15 be included in this total review process since
16 they certainly are part of the basis for the
17 Appendix, and it was stated by NIOSH that there
18 was no need to change anything at this current
19 time. We of course, for the record, have been
20 advised by NIOSH to reply to their response
21 where we feel necessary, and we certainly will
22 be doing so. I wish to thank NIOSH for that
23 offer. The door wasn't slammed. It's wide
24 open and I certainly respect and thank people
25 for that offer.

1 Because of some of the very technical topics, I
2 felt it best and appropriate to do this reply
3 in conjunction with, but totally separate from,
4 the SC&A review. I was told that the Board was
5 going to be made aware of these recent critique
6 replies from NIOSH, as well. So as usual, and
7 as always, I would certainly welcome any review
8 by the very knowledgeable, professional Board
9 members which I have met over the last two and
10 a half years. I've always said that if I'm
11 mistaken or do not fully understand something,
12 I would certainly take constructive criticism
13 or suggestions ver-- very sincerely and thank
14 you for them. So I hope Board members'll be
15 able to take a look at those replies we
16 received from NIOSH as well.

17 And I really believe the Betatron device at
18 NDT* should have received much more I guess
19 investigation long before now 'cause they were
20 commonly used at many sites and we now have a
21 more detailed Allis Chalmers site list which is
22 available. This is an actual, or partial,
23 published Allis Chalmers customer list thanks
24 to various other (unintelligible) sources and
25 individuals who have helped me with this

1 research project. Allis Chalmers, of course,
2 is only one of the Betatron manufacturers --
3 GE, (unintelligible), Siemens, et cetera built
4 the machines as well. These are not by any
5 means your everyday chest X-ray devices that
6 are commonly referred to as part of the various
7 site evaluations. Any comparisons regarding
8 exposures and doses would be totally
9 inaccurate, in my opinion. If the X-rays are
10 considered dangerous, as they apparently are,
11 what do we think about 24 or 25 million volt
12 Betatrons? That 100 percent addressing
13 Betatrons and other forms of non-destructive
14 testing that involve radiation and radioactive
15 material at all sites appears to be in direct
16 conflict with TIB 6000 and 6001 where they do
17 say -- I'm going to paraphrase this -- all
18 radiation sources must be addressed during the
19 approved AEC contract periods. And I
20 underlined "all radiation sources". Apparently
21 they cannot be bundled or grouped. They seem
22 to be, according to this document, individually
23 addressed.

24 This was confirmed during a past conference
25 call about a year ago -- actually -- when the

1 appendix was released, probably nine months
2 ago, ten months ago. There were ten
3 participants or agencies on the line, one of
4 which was NIOSH and I thank them for their time
5 and consideration on setting the record clear.
6 People have tried to make the rules very clear.
7 It is the exact details and procedures that I
8 hope we can all work together on to make GSI
9 appendix a truly accurate document.
10 Again, there's a vast amount of research
11 material regarding this device. It's
12 available, and has been for quite some time. I
13 just happen to be a curious individual and no
14 physicist, but I have been requesting the
15 assistance of professionals for this type of
16 expertise. The Board in this latest action,
17 and NIOSH, and now SC&A -- certain will make
18 that happen. I appreciate the preliminary work
19 done on behalf of NIOSH, SC&A and many others
20 for starting the investigation. It has been
21 too long overlooked for this well-known
22 radiation source.
23 Many of the GSI workers, their families, asked
24 me to thank the Board for its willingness to
25 open up this overdue investigation. This is

1 much larger than General Steel Industries.
2 Those people, too, deserve this full review.
3 I have a collection of documents, what have
4 you, that will show and prove that these
5 machines were in many, many locations.
6 Everything was done manually. There was really
7 no automation with this device, so the
8 exposures were definitely real. The internet
9 and both public and university libraries are
10 full of data. One in particular which I just
11 sent to both NIOSH and SC&A is from the
12 University of Illinois. That's where the
13 Betatron was invented by Donald Kerst. The
14 University archives people were very, very
15 congenial and helpful. The title of that
16 document is "Activities Induced by a 20-million
17 Volt X-ray to Various Elements" -- it actually
18 came from the original document at the U of I
19 Library archives Dr. McKeel and I located on a
20 recent visit to U of I. I returned a couple of
21 weeks ago to the library to look for any
22 additional material and I have now forwarded
23 that to SC&A and NIOSH. I think you'll find it
24 very interesting. I'm sure they'll share with
25 you, or I'd be happy to e-mail it to you.

1 In closing I really, really appreciate what
2 everyone's done. I look forward to working
3 with you in the future. And as usual, if I'm
4 wrong in anything, please let me know. I'm
5 trying to get this accurate and respect
6 everybody that's helped me with this project.
7 Thank you very much.

8 **DR. WADE:** Thank you. Okay. Put us back on,
9 please. Put us back on. Thank you.

10 **DR. ZIEMER:** Thank you -- thank you very much,
11 John. And this time we could hear you very
12 well and very clearly, so we appreciate your
13 comments.

14 Next we'll hear from Gertrude Martin.

15 **MS. MARTIN:** I, too, would like to thank you
16 for this opportunity to speak with
17 representatives from NIOSH and the Advisory
18 Board. And I, too, appreciate the fact that
19 this is continuing because it shows that there
20 is some concern for the workers after all.
21 Initially when we began this process we got to
22 a certain point in the process and we were
23 told, because of his -- both of his cancers, to
24 continue with this because they could probably
25 qualify -- he could possibly qualify as a

1 claimant, so -- which we did. But at one point
2 we felt like we were just going through a
3 process and that no one was really considering
4 the individuals. And I mention that because
5 all of us in this room -- none of us are
6 clones. Am I correct? We're individuals, and
7 we have different reactions to different
8 exposures. I may be exposed to the same thing
9 my husband was exposed to, and never come down
10 in my lifetime with a disease. He, on the
11 other hand, did come down with it.
12 I came across something on the Internet whereby
13 an independent study was done of dose
14 reconstructions. And the words in that -- that
15 report kind of underscored the fact that this
16 was not an exact science. There are so many
17 problems with the reconstructions. First of
18 all, we all know that Blockson is no longer
19 there. Building 55 was torn down years ago.
20 There was no remediation of the site. There
21 were no records kept. Everyone is scrambling
22 to try to find some records that they can go
23 by. In fact, at the last town hall meeting
24 last month -- and some of you -- I see familiar
25 faces there -- it was brought out that there

1 was some urinalysis done of a certain number of
2 employees. As I stand here, we can say -- he
3 worked in that place -- there were no
4 urinalysis (sic) done for him. There was no
5 badge monitoring done for him. There was no
6 safety precautions based on what he was exposed
7 to. In fact, let's begin with the fact that
8 most of those people didn't have a choice that
9 they could have had, had they known what they
10 were working with. They had an opportunity to
11 do a job for the company. And many of them
12 were like he. He is known as a really good
13 worker. He worked there at Blockson for 40
14 years, and anybody knows him would tell you he
15 almost lived there. He used to get mad at me
16 because I didn't tell him when somebody called
17 him to come to work. But what I'm saying is
18 these workers were conscientious. They thought
19 here's an opportunity to do a good job. They
20 knew there was something different about it
21 because they had to have clearance. But they
22 still were not told that they could be exposed
23 to harmful substances. Had they known that,
24 they may not have made that choice. They may
25 have said no, I don't want to take a chance on

1 it. And even as they were working there, if
2 the government at that time had used known
3 precautions in having these people work around
4 this yellowcake, it might have afforded some
5 protection for them, but they didn't do that.
6 So I -- I want people to bear with me 'cause
7 they've heard me say this before. We know
8 those people worked there. We know they were
9 exposed. We know there were -- there was no
10 monitoring. We know -- we know there was no
11 bioassays done. And in this report that I saw
12 of an independent audit of a dose
13 reconstruction that was performed by NIOSH,
14 there were some words in here that I thought
15 was worth noting. They talked about the worker
16 likely experienced internal exposures. It is
17 believed to have had routine X-rays. The
18 worker was not provided with film badge or
19 thermoluminescent dosimeters, nor were
20 bioassays performed to estimate internal
21 exposures. As a result, exposures were
22 estimated. Now see, that's different from
23 knowing something. You're talking about
24 estimating, you can estimate a lot based on
25 what you knew happened at another plant. But

1 with Blockson not being there, you cannot prove
2 that that happened at -- at Blockson.
3 They were trying to determine whether the
4 exposures were derived in a scientifically
5 valid manner and whether the doses were derived
6 in a claimant-favorable manner. And as we -- I
7 got over to one of the pages that said here we
8 cannot verify that the external dose rates from
9 drum handling reported in the TBD are
10 scientifically correct and claimant-favorable.
11 In fact, we ba-- we believe an error was made
12 in NIOSH calculations which has resulted in
13 underestimate of external doses, and I believe
14 that is the reason why we're here today. Am I
15 correct?

16 But there's something else I wanted to say. I
17 didn't say this in public before because I
18 didn't want to be misconstrued. The government
19 had a responsibility in this whole thing. Just
20 like we have a responsibility to pay our taxes
21 on time so that the government has money to
22 work with, the government, I believe, has the
23 responsibility to protect these workers, to
24 provide them with the best safety that they
25 can. This was not done. And we know that

1 responsibility is one of those core values we
2 try to teach our kids, take responsibility for
3 what you do and so forth. Overall, I believe
4 that that alone should be something that looms
5 large in your consideration for these
6 claimants. Some of these people were
7 fortunate. Like my husband is still here with
8 me today, for which I am very happy. But is
9 that because of what happened to him at
10 Blockson or was that because we followed up
11 with his health care and were lucky enough to
12 discover these things before they became
13 manifest?
14 For example, one of his cancers was bladder
15 cancer. It just so happens I'm an old nurse --
16 I've been nursing for 30 years -- but I
17 recognized that you should not see blood in
18 your urine. He called me up and he said I see
19 this, and I said well, go to your doctor right
20 away, go to your urologist, the same one that
21 treated him for the prostate cancer, and he had
22 bladder cancer. But now look at the number of
23 people that didn't have that available to them.
24 So sometimes you look at it and you say well --
25 somebody made a remark that some of these

1 people are gone, and that is true. They're
2 dead, their families are there trying to speak
3 up in their behalf. I'm fortunate that he's
4 still here. But at the same time, that does
5 not absolve the fact -- and from the fact that
6 he was not treated fairly when he was working
7 for Blockson.

8 And don't get me wrong. He did derive some
9 benefit from working at Blockson, and it helped
10 us to have a decent living. But that does not
11 absolve them from what they did.

12 And I thank you again for the opportunity and
13 hopefully -- that at least be a voice.

14 Now they -- they talk about what they did over
15 and over and over at that plant, but I don't
16 think that you'll ever get to the bottom of
17 what they actually -- what actually happened
18 there because it's all -- all gone. Thank you
19 for the opportunity.

20 **DR. WADE:** Thank you.

21 **DR. ZIEMER:** Thank you very much, Gertrude.

22 Let's see, according to my notes, Marilyn
23 Schneider would wait till tomorrow to speak.

24 Is --

25 **UNIDENTIFIED:** (Off microphone)

1 (Unintelligible)

2 **DR. ZIEMER:** Yeah, we'll do you tomorrow then,
3 Marilyn.

4 Actually that then completes my list for today,
5 but let me give an opportunity -- is there
6 anyone that wished to speak that did not have a
7 chance to sign on the roster?

8 **DR. WADE:** (Off microphone) (Unintelligible)

9 **DR. ZIEMER:** Apparently not. There will be
10 opportunity tomorrow again. We have another
11 public comment session so we're now going to
12 recess and -- oh, quick--

13 **UNIDENTIFIED:** (Off microphone) I should have
14 said something while I was standing
15 (unintelligible).

16 **DR. ZIEMER:** You're welcome -- we'll -- you're
17 welcome -- you certainly don't want your wife
18 to have the last...

19 **MR. MARTIN:** I'm Edgar Martin and I worked at
20 Olin* Chemical Box and Works for 40 and a half
21 years, and when I was -- I was contact to see
22 if I wanted to work in Building 55. I was
23 being investigated by the FBI, and after the
24 investigation it was declared that I could go
25 in Building 55 because of my record. I went in

1 Building 55 in 1954 and I stayed there until
2 1957. The place was completely secure. All
3 the windows and all the doors were locked. We
4 had a -- a -- a deputy sheriff in -- in -- in
5 the room to stop anyone coming in -- in and out
6 for security. I worked there and I was a
7 operator's assistant. But what I did, I
8 treated the different (unintelligible) with --
9 with (unintelligible) and (unintelligible) and
10 different other things, and then I assisted the
11 operator. But during the time that we were
12 working there we were not told that this was --
13 that this is uranium that you're working with.
14 We did not know that until later on during the
15 -- during the time we were working there that
16 we were working with uranium.

17 During the time of the processing we'd come in
18 contact lots of times whereas we couldn't use
19 gloves. We had to use our bare hands doing --
20 to get the work -- get it done right away. And
21 the main reason for that was -- was time. Time
22 was involved. When I worked -- working at the
23 -- with Olin at this time they had no
24 protection at all or nothing to keep the person
25 from getting sick. The main thing that

1 Blockson wanted at that time was production.
2 You get the production, you're a good guy.
3 Okay? And I've got bladder cancer and I have
4 prostate cancer, but I'm still alive. Thank
5 you.
6 **DR. ZIEMER:** Good. Thank you very much. We
7 then will recess till tomorrow morning at --
8 **DR. WADE:** 9:30.
9 **DR. ZIEMER:** -- at 9:30, so look forward to
10 seeing many of you then. Thank you very much.
11 (Whereupon, the session concluded at 5:45 p.m.)

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CERTIFICATE OF COURT REPORTER**STATE OF GEORGIA****COUNTY OF FULTON**

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of Oct. 3, 2007; 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 6th day of November, 2007.

STEVEN RAY GREEN, CCR

CERTIFIED MERIT COURT REPORTER**CERTIFICATE NUMBER: A-2102**