

Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION
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PUBLIC MEETING ON PROPOSED MOX FACILITY
DRAFT ENVIRONMENTAL IMPACT STATEMENT
+ + + + +
WEDNESDAY,
MARCH 26, 2003
+ + + + +
AUGUSTA, SOUTH CAROLINA
+ + + + +
The Public Meeting was held in the North
Augusta Community Center, 495 Brookside Avenue
North Augusta, South Carolina, at 7:05 p.m., Francis
"Chip" Cameron, Facilitator, presiding.
PRESENT:
FRANCIS (Chip) CAMERON
LAWRENCE KOKAJKO
TIM HARRIS
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1	2	3
I-N-D-E-X		I-N-D-E-X
SPEAKERS	Page	Page
BILL MARESKA	31	SPEAKERS
PEGGY ROCHE	32	DON MONIAK
WAYNE HOOKER	38	ED PRESNELL
DON MONIAK	40	DAVID WALKER
JIM SUTHERLAND	43	MARY KELLY
GLENN CARROLL	44	CAROLINE (BETSY) RIVARD
TOM CLEMENTS	46	BRENDOLYN JENKINS
GREG TESE	48	DAVE COWFER
HARRY HARMON	50	GLENN CARROLL
DAVID WALKER	50	ED ARNOLD
BRENDOLYN JENKINS	53	EARNEST CHAPUT
GERALD RUDOLPH	56	BOB GUILD
DARRELL WATSON	61	PEGGY ROCHE
BOB GUILD	63	DARRELL WATSON
JEN KATO	69	(Index, cont'd.)
BILL ROBINSON	73	ADELLE KUSHNER
MAL MCKIBBEN	74	JOANNE STEELE
THOMAS WILLIAMS	79	CHARLES UTLEY
BILL MARESKA	81	
WAYNE HOOKER	81	
GLENN CARROLL	87	
DON MONIAK	87	
GLENN CARROLL	87	

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Appendix L

4
5 P-R-O-C-E-B-D-I-N-G-S
6 MR CAMERON: Good evening everyone. My
7 name is Chip Cameron. I'm the Special Counsel for
8 Public Liaison at the Nuclear Regulatory Commission.
9 I just wanted to welcome all of you to the Nuclear
10 Regulatory Commission, the NRC's public meeting
11 tonight. And I have to say it's nice to be -- nice
12 for all of us at the NRC to be with all of you in
13 North Augusta. We've had several good meetings here
14 in the past, and we look forward to having a good
15 meeting tonight.
16 Our subject is the NRC's draft
17 environmental impact statement that the NRC has
18 prepared to help its -- help it make its decision on
19 the evaluation of the application for the construction
20 of the mixed oxide fuel facility. That application is
21 from the consortium of Duke, Cogema, Stone & Webster.
22 And you may be hearing that referred to tonight by its
23 acronym, DCS. We'll try to keep the acronyms down,
24 and explain what they are if we -- we use them. But
25 that's -- that's one you might hear tonight.

And I'm going to help out by serving as
the facilitator for tonight's meeting, to try to help
all of you have a -- a productive meeting tonight.
And I just wanted to go over a few things about the

1 meeting process before we get into -- to our
2 discussions. One is the purpose, why the NRC is here
3 tonight. We're here, first of all, to clearly explain
4 what the NRC's process is for evaluating this
5 application that we received, and to specifically talk
6 about the findings that are in the draft environmental
7 impact statement that's been prepared.
8 And most importantly, we want to hear from
9 you, any concerns you have, any recommendations you
10 have about the draft environmental impact statement,
11 the NRC process for evaluating this application. And
12 the ultimate goal is to use the comments that we hear
13 tonight, the written comments that we receive, and
14 comments from some of the other meetings that we're
15 doing, that's going to help us to -- to make our
16 decision on the application and to prepare the final
17 environmental impact statement.
18 And what you hear tonight from -- from the
19 NRC and from -- from other people in the community may
20 help you to prepare your written comments, if you want
21 to -- to submit any written comments to us. But let
22 me just emphasize that whatever is said tonight, those
23 comments will carry the same weight as written
24 comments. And we are taking a transcript tonight.
25 Melanie is our stenographer. And we will have a

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6 written record of what is said tonight. And that will
1 also be available to anyone in the public who wants to
2 see that transcript.
3 In terms of the format for the meeting,
4 we're going to try to keep it real simple. We have a
5 couple of brief -- two brief NRC presentations to give
6 you some background information, and then we're going
7 to go out for a question-answer period with you, make
8 sure that -- that everybody understands what we're
9 doing. And then we're going to go to you for a -- a
10 comment session. And I don't want to say formal
11 comment, although it is in a sense. We want to try to
12 be as informal as possible tonight and -- and just
13 have some good discussions. But when we get to the
14 comment portion of the meeting, you can either come up
15 to this podium and make your comment, or I'll bring
16 you this -- this talking stick, this cordless mic, and
17 you can -- you can use this to make your comments.
18 And sometimes it's -- we all know it's --
19 it's difficult to perhaps separate a question from a
20 comment, or a question might lead into a comment. And
21 so, when we're into question-answer period, it's fine
22 if you sort of segue into a comment, but we really do
23 want to save that question-answer period for -- for
24 informational questions for the -- for the NRC.
25

6 And in terms of ground rules, when we're
1 in the question-answer period, if you have a question
2 just signal me and I'll -- I'll bring you the
3 microphone. And please tell us your name and
4 affiliation, if appropriate, so that we'll have that
5 on the transcript. And I would just ask you to try to
6 be concise as possible. I know that's difficult
7 because this is a complex issue. But if you try to do
8 that, then we can make sure that everybody who's here
9 tonight who wants to talk can have an opportunity to
10 speak.
11 And when we get to the formal comments, we
12 do have a lot of people signed up to talk tonight. So
13 I'd like to keep the individual comments at five
14 minutes; so that if you could try to keep it to five
15 minutes, everybody will benefit from that. And I'll
16 remind you when you're -- when you're getting there,
17 although most people don't take that -- that five
18 minutes. And I would just ask that only one person
19 speaks at a time, for obvious reasons, so that we can
20 get a clean transcript, and also so that we can give
21 our full attention to whomever has the floor at that
22 time.
23 In terms of agenda, we're first going to
24 go to Lawrence Kokajko, who is right here. And
25

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1 Lawrence is the acting Branch Chief of the
2 Environmental and Performance Assessment Branch at the
3 NRC. It's in our Office of Nuclear Materials, Safety,
4 and Safeguards. And Lawrence's staff had a
5 responsibility for doing the evaluation, the
6 environmental evaluation on this DCS application to
7 construct this facility, and also for doing
8 environmental evaluations on other -- other
9 facilities. And Lawrence has been with the Agency for
10 about 14 years. And before he became the acting
11 Branch Chief, he was chief of a -- a Special Risk Task
12 Group that the Agency had formed to take a look at how
13 to make our processes more -- more risk-informed. And
14 he's been involved in reactors and spent fuel
15 activities at the NRC, also. And Lawrence is just
16 going to give you an overview of what the NRC is, how
17 this environmental evaluation fits into our
18 responsibilities.

19 And then we're going to go to Mr. Tim
20 Harris, who's right here. And Tim is going to tell us
21 about the findings in the draft environmental impact
22 statement, what the schedule is for completing the
23 environmental impact statement, how you submit
24 comments, important information. And he's the Project
25 Manager on the environmental review on this

8 application. And he's been with the -- the Agency for
9 about nine years now, and has a civil engineering
10 degree from the University of Maryland. And he's one
11 of Lawrence's staff.
12 And I should -- before I stop, just to
13 make sure everybody knows, we have Dave Brown here
14 with us. And Dave is the Assistant Project Manager on
15 the safety evaluation on the DCS application. And
16 introducing him allows me to make an important point.
17 The NRC's decision on this application has two major
18 components to it. One is the environmental evaluation
19 that we're here to talk about tonight; and the other
20 is the safety evaluation of the proposed facility.
21 And both of those come together to help the NRC make
22 a decision. So we do have Dave here tonight in case
23 there are questions on any of the safety issues, and
24 perhaps we can explain the difference between those a
25 little bit more in -- in the discussion.

26 And with that, I just would thank you for
27 -- for being here tonight. And we're going to go to
28 Lawrence Kokajko.
29 Lawrence?

30 MR. KOKAJKO: Thank you, Chip.
31 Can everyone hear me? Can everyone hear
32 me? Let's try the cordless. Does it work now? No?

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1 Okay. It's working; right?
2 MR. CAMERON: It's working. I think it
3 just isn't quite level.
4 MR. KOKAJKO: How about now? Excellent.
5 Good evening. My name is Lawrence
6 Kokajko, and as Chip said, I am the acting Branch
7 Chief for the Environmental and Performance Assessment
8 Branch at the Division of Waste Management in the
9 Office of Nuclear Materials, Safety, and Safeguards at
10 the Nuclear Regulatory Commission. And I'd like to
11 welcome you to this meeting on the NRC's draft
12 environmental impact statement for the proposed mixed
13 oxide or MOX fuel fabrication facility.
14 I'd like to thank you for taking your time
15 out of your busy schedule to be here this evening.
16 And we do appreciate it. And we do value your input.
17 And we look forward to hearing from you this evening.
18 This meeting is one of a series of
19 meetings planned to inform the public about the
20 environmental impact statement, or the EIS, for the
21 proposed MOX project, and to solicit public comments.
22 Last night we met in Savannah, and tomorrow night we
23 meet in Charlotte.
24 There are three handouts that you should
25 have received on the way in. You should have received

10
11 a set of slides; an agenda, facts sheet, and
12 comparison of alternatives; and then feedback forms.
13 We would appreciate hearing you responding to the
14 questions on the feedback forms, and either handing it
15 back to an NRC staff person, or you can staple the
16 form together and drop it in the mail. If the NRC
17 people could raise their hand one more time so you
18 could give it to one of us. I think John Hull there,
19 as well. You can drop it in the mail, as well. The
20 form is self -- is addressed, and postage has already
21 been paid.
22
23 If you would like a copy of the draft
24 environmental impact statement, we have a limited
25 number here. And if we run out, we will mail you a
copy. Next slide. Next slide.

16 As Chip mentioned, the presenters tonight
17 will be myself, as well as Mr. Tim Harris of my staff.
18 We've included our phone numbers and Email addresses.
19 And please feel to contact us (sic) if you have any
20 questions after this meeting. And we will be hanging
21 around a little bit in case you have some other
22 comments you'd like to talk to us about.
23
24 The purpose of tonight's meeting is to get
25 your comments on the draft environmental impact
statement. Before we hear your comments, we'll

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1 provide some information on the NRC's role on the
2 proposed MOX project, and describe the National
3 Environmental Policy Act and the EIS process, and how
4 the EIS fits into the NRC's decision-making process.
5 Tim will give an overview of the draft environmental
6 impact statement, and then there will be time to
7 answer questions. Next.
8 The proposed MOX facility would take
9 surplus weapons plutonium and depleted uranium and
10 make nuclear reactor fuel. Congress, in the Defense
11 Authorization Act of 1999, gave NRC a role in the
12 proposed MOX project. Specifically, NRC has licensing
13 authority over the MOX facility, so our role is to
14 make a licensing decision regarding the safe operation
15 of that facility.

16 The NRC is an independent government
17 agency, and our mission is to protect the public
18 health and safety, and the environment, in the
19 commercial uses of radioactive material. Our role is
20 different from the Department of Energy's. The
21 Department of Energy's role in this project relates to
22 implementing the United States nuclear non-
23 proliferation policy, including the disposition of
24 surplus weapons plutonium.
25 The Department of Energy also has a

1 responsibility to design, build, and operate two
2 facilities that support the proposed MOX facility.
3 These two facilities are the pit disassembly and
4 conversion facility, or the PDCF, and the waste
5 solidification building, or the WSP. While the pit
6 disassembly and conversion facility and the waste
7 solidification building are considered in the NRC's
8 environmental review, it is important to note that the
9 NRC does not have licensing authority over these
10 support facilities. That responsibility rests with
11 the Department of Energy. The NRC only has authority
12 over the proposed MOX project.
13 I'd like to briefly describe the EIS
14 process. The National Environmental Policy Act
15 requires government agencies to prepare an
16 environmental impact statement for major federal
17 actions such as the potential licensing for the
18 proposed MOX project. An environmental impact
19 statement presents an environmental impacts (sic) of
20 a proposed action, along with reasonable alternatives
21 to that proposed action. Note that the bolded areas
22 are opportunities for public involvement in the
23 process, and we consider this a very important part of
24 the EIS process.
25 The NRC's involvement in the MOX project

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1 started when Duke Cogema Stone & Webster, the 14
2 applicant, submitted an environmental report and 15
3 requested to construct the MOX facility. We published decisions that the NRC will make for the proposed
4 a notice of intent to prepare an environmental impact facility. The first is whether to authorize
5 statement in the Federal Register in March of 2001. construction of the facility, and the second is
6 During the scoping process, the public helped whether to authorize operation of the facility. These
7 determine what issues would be addressed in the decisions are shown in the middle of the slide. The
8 environmental impact statement. We have now completed NRC's environmental review is shown at the top portion
9 the draft environmental impact statement in February of the slide, and consists of preparing the final
10 of this year, and we sent copies to approximately 550 environmental impact statement. The final
11 people in that month. environmental impact statement will be used by NRC to
12 We are currently in the public comment decide whether to authorize construction, and later
13 period for the draft environmental impact statement. whether to issue a license to operate the MOX
14 This meeting is being transcribed, and comments made facility.
15 here tonight will be included in the official comment 13 The NRC's safety review is shown at the
16 record. The last slide will show ways you can comment bottom portion of the slide. The safety evaluation
17 additional -- submit comments additionally. We will focus on a safety assessment of the proposed design
18 review and consider the public comments and finalize bases to determine if it meets NRC's requirements.
19 the EIS later this year. Next slide. 18 NRC's final environmental impact statement and safety
20 As I mentioned earlier, NRC's role is to 19 evaluation report for the construction authorization
21 make a licensing decision regarding the proposed MOX 20 request will be the basis for making a decision on
22 facility. I'd like to take a few minutes to describe 21 whether to construct the proposed MOX facility. We
23 the licensing process, and how the environmental 22 anticipate making that decision later this year.
24 impact statement we're discussing tonight fits into 23 Duke Cogema Stone & Webster plans to
25 NRC's decision-making process. There are two 24 submit a license application to operate the proposed
25 facility in October of 2003. The safety evaluation

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1 report on the operating application and the FEIS will
2 be the basis for making a decision on whether to allow
3 them to operate the proposed MOX facility. There will
4 also be two opportunities for hearings. John Hull,
5 with our Office of General Counsel, is here, and he
6 can answer questions related to the hearing process.
7 To summarize, a single environmental impact statement
8 will be used to support a decision to construct and
9 later operate the proposed mixed oxide fuel
10 fabrication facility.

11 Now I would like to turn this over --
12 presentation over to Mr. Tim Harris, of my staff. Mr.
13 Harris is the Project Manager and the Lead for the
14 Environmental Review for the MOX project at the NRC.
15 Tim?

16 MR. CAMERON: And if I could just
17 interject one thing. Tim has a lot of material for
18 you, and he's boiled it down to a minimum. And you're
19 going to have a lot of questions, I know, as he goes
20 through that. But what we'd like to do is to let him
21 get through his presentation, and if you could just
22 note your questions on the view graphs, then we'll --
23 we'll go back out to you and get those -- those
24 questions.

25 MR. HARRIS: Thank you, Chip.

16 Can everybody hear me?
17 What I'd like to do is discuss the
1 alternatives that we considered in detail in the
2 environmental impact statement; and also those
3 alternatives that we considered, but did not analyze
4 in detail. Then I'll provide a summary of the impacts
5 in they DEIS.
6 To understand better how we decided which
7 alternatives to consider in detail, and those that we
8 did not, that relates to the purpose and need of the
9 environmental impact statement. As we stated in our
10 notice of intent that Lawrence mentioned, the purpose
11 and need of the MOX facility that's presented in this
12 draft environmental impact statement is essentially
13 the same as used by the Department of Energy in its
14 programmatic EIS's for the surplus plutonium
15 disposition program. Those are: The purpose and
16 needs relate to agreements between Russia and the
17 United States to reduce the threat of nuclear weapons
18 by insuring that those materials are converted into a
19 proliferation-resistant form. It also relates to
20 reducing the risk of plutonium falling into the hands
21 of terrorists or rogue states.
22 The draft environmental impact statement
23 evaluates two alternatives in detail. These are the
24
25

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18 no-action alternative and the proposed action. And
 1 I'll describe those. The no-action alternative would
 2 be continued storage of this surplus plutonium at
 3 our meetings here last fall.
 4 Immobilization was initially considered as
 5 a reasonable alternative. However, following the
 6 Department of Energy's amended record of decision for
 7 the surplus plutonium disposition program, DOE
 8 believed that an immobilization-only approach would
 9 not meet the U.S.-Russia agreements. Therefore, it
 10 did not meet the purpose and need, and that
 11 alternative was not analyzed in detail in the EIS.
 12 Another alternative that was raised at the
 13 Charlotte meeting that we had last fall was
 14 deliberately making off-specification MOX fuel. And
 15 I'll describe what that is. Essentially, the surplus
 16 plutonium has impurities in it that, in order to use
 17 it in a reactor, need to be removed. This off-
 18 specification MOX fuel alternative consists of not
 19 removing those impurities. It would also include not
 20 burning the fuel or using the fuel in a reactor.
 21 Instead, you'd make the MOX fuel off-specification,
 22 which had the impurities, and then you would store it
 23 at spent fuel pools at existing reactor sites prior to
 24 disposal in a geologic repository. Again, we felt
 25 that this alternative did not insure that it was going

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20 to be proliferation-resistant, and did not meet the
1 purpose and need.
2 The proposed action and no-action
3 alternative impacts were evaluated for the following
4 comprehensive list of technical areas. The technical
5 areas on the right are considered to be less
6 significant, and those are discussed in appendices.
7 The technical areas on the left are discussed in the
8 body of the report, and these are because these are
9 issues that we felt had more significant impacts or
10 were raised during scoping, and these were issues that
11 were more important to the public. So we provided
12 To allow more time for public comment, I'm
13 detailed discussion in the body of the report.
14 To allow more time for public comment, I'm
15 only going to focus on the impacts on the left. These
16 are human health risk, air quality, hydrology, waste
17 management, and environmental justice. In addition,
18 I'll summarize the impacts associated with
19 transporting radioactive materials related to this
20 project, and also the potential use of MOX fuel. And
21 I'll also provide a summary of the cost benefit
22 analyses.
23 First, I'd like to summarize the impacts
24 associated with the no-action alternative. The
25 impacts of this alternative were previously evaluated

21 by the Department of Energy. And the impacts that are
1 presented in their draft environmental impact
2 statement are essentially the same as those in -- in
3 their previous -- DOE's previous environmental impact
4 statements.

5 We've included in the packet of
6 information that Lawrence mentioned comparison tables,
7 so that if you want to look at numerical differences
8 for any particular resource area, what was the person
9 rem for the no-action alternative compared to the
10 proposed action, you have the numbers in your hands.
11 When I talk about them tonight, I'm just going to
12 summarize them relative to current SRS conditions.

13 The impacts associated with the no-action
14 alternative to the public and workers are considered
15 to be low, and there would be no significant air
16 quality or water quality impacts associated with this
17 alternative. As you can imagine, storing material in
18 a building doesn't generate a lot of water concerns or
19 air concerns. There was also no significant waste
20 management concerns or environmental justice concerns.
21 Now I'd like to walk through the technical
22 areas for the proposed action. And again, the
23 proposed action includes the impacts associated with
24 three facilities: the proposed MOX facility; the pit

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22 disassembly and conversion facility; and the waste
 1 solidification building. There would be no adverse
 2 chemical or radiological impacts during construction
 3 from operating the three facilities. The annual
 4 public collective dose would increase by about 11%
 5 above what is currently received at the Savannah River
 6 Site. And the following slide will help put that in
 7 perspective. While 11% seems like it may be of
 8 concern, the numbers are actually quite small. Next
 9 slide, Dave.

10 This slide shows radiation doses from
 11 several sources, and also NRC's annual public dose
 12 limit. The average annual dose from natural radiation
 13 -- natural background includes radiation from the
 14 earth, and also from space, and is about 360 millirem.
 15 And a millirem is just a measure of radiation dose.
 16 The annual public dose limit -- NRC's annual public
 17 dose limit is 100 millirem. You would receive about
 18 six millirem if you had a chest X-ray. The annual
 19 dose to the public from normal operations of the
 20 proposed MOX facility, PDCF, and waste solidification
 21 building is less than one millirem.

22 Accidents have the greatest potential
 23 consequences of the impacts that we evaluated in the
 24 draft environmental impact statement. Two
 25

23 conservative scenarios were evaluated for a number of
 1 potential accidents. These scenarios are the short-
 2 term scenario, which assumed that people were exposed
 3 by inhaling contaminated material from a plume that
 4 would be generated following an accident. We also
 5 evaluated a long-term scenario, which includes the
 6 impacts of the short-term scenario, as well as impacts
 7 associated with eating crops that could become
 8 contaminated.

9 Potential accident impacts are evaluated
 10 in terms of risk. The classical definition of "risk"
 11 is the probability of an event times the consequences
 12 of the event equals the risk. In keeping with NRC's
 13 mission to protect public health and safety, we want
 14 to insure that the overall risk to the public is very
 15 small. Therefore, events that result in significant
 16 impacts are required to be made highly unlikely
 17 through the use of design safety features. And these
 18 design safety features are currently being evaluated
 19 as part of the safety evaluation process that Lawrence
 20 talked about.

21 In March we notified a number of
 22 stakeholders that we had identified an error in the
 23 accident consequences due to a computer code bug. We
 24 felt that it was important to inform stakeholders in
 25

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24 a timely manner. And, in fact, I think I found out
1 about the -- the error on a Monday after, and by
2 Thursday afternoon we'd issued a letter to about 500
3 people. So we felt it was very important to provide
4 the public with accurate information.

5 During our subsequent review, we found an
6 additional error in wind data that was provided by
7 Duke Cogema Stone & Webster. This error essentially
8 doubles the impacts associated with normal operations
9 and potential accidents. These errors, however, do
10 not change NRC's conclusion or preliminary
11 recommendations. The numbers presented on the slide
12 and the numbers in the comparison table which you
13 have, have been updated. We also plan to issue errata
14 sheets to people that were mailed copies of the EIS.
15 By attending this meeting, you'll get a copy of
16 the errata sheets, and also we'll post those on the
17 web.

18 Hypothetical events that caused the
19 highest consequences were an explosion event at the
20 proposed MOX facility. This hypothetical accident
21 would be estimated to result in less than 50 latent
22 cancer fatalities for the short-term exposure, and
23 less than 200 latent cancer fatalities for the one-
24 year exposure scenario. The other event was a tritium
25

25 fire at the pit disassembly and conversion facility.
1 This event was estimated to result in less than one
2 latent cancer fatality in the short-term, and less
3 than 100 latent cancer fatalities for the one-year
4 exposure scenario. These estimates are conservatively
5 derived, and do not include credit for intervention
6 actions that would be taken to reduce long-term
7 exposure resulting from eating contaminated crops. We
8 didn't -- these numbers assumed that those events
9 wouldn't happen. So -- so we think that these are
10 bounding numbers.
11 The probability of these hypothetical
12 events occurring is considered to be highly unlikely,
13 as I mentioned before. Part of the safety review is
14 to make sure that the safety processes and features
15 are into the plant to make sure that the accidents are
16 highly unlikely. These consequences of these highly
17 unlikely events are significant. However, we believe
18 that the overall risk to public health and safety is
19 very small.
20 Air quality relates to compliance with the
21 National Ambient Air Quality Standards for Emission of
22 Chemical Pollutants. Air quality at the Savannah
23 River Site already exceeds the particulate matter 2.5
24 micron or PM 2.5 standard. The proposed action would
25

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26 result in a 0.1% increase during construction, mainly
 1 due from earth-moving activities; and a 0.01 increase
 2 during operations. However, the Environmental
 3 Protection Agency has delayed implementation of this
 4 standard. If and when attainment plans are developed
 5 by states such as Georgia and South Carolina, the
 6 Savannah River Site could be required to reduce PM 2.5
 7 emissions, and this could have some future impact to
 8 the MOX facility.

9 Next I'd like to talk about surface water.
 10 Surface water would not be significantly affected
 11 during construction through the use of sedimentation
 12 control measures. And there would be no direct
 13 operational discharges to surface water. Waste from
 14 the proposed MOX facility would be managed by the
 15 Savannah River Site. Discharges from existing
 16 Savannah River Site waste management facilities are
 17 not anticipated to change significantly as a result of
 18 processing this waste.

19 Groundwater would be used during
 20 construction and operation. Approximately 37% more
 21 groundwater would be used in the "F" area in the
 22 proposed action. Their existing groundwater wells and
 23 existing capacity is present to allow this water to be
 24 used, and we don't believe that the use of this water
 25 adverse. Therefore, there would be no environmental

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27 will create a significant impact on the aquifer or
 1 water quality.
 2 There would be no significant impacts on
 3 the Savannah River Site waste management capability
 4 from processing the proposed waste of the proposed
 5 action. Operation of three facilities would generate
 6 about 300% more transuranic waste than is currently
 7 being generated at the Savannah River Site. This
 8 transuranic waste is planned to go to the waste
 9 isolation pilot plant in New Mexico for disposal, and
 10 the volume of the TRU waste that would be generated
 11 would be about 3% of the waste isolation pilot plant
 12 disposal capacity. Operation of the three facilities
 13 would increase low level waste by about 32%, and non-
 14 hazardous waste by about 60%. But again, the current
 15 Savannah River Site waste management system can
 16 accommodate these waste volumes.
 17 An executive order issued by President
 18 Clinton directed federal agencies to address any
 19 disproportionately high or adverse human health or
 20 environmental effects on low income and minority
 21 populations. This is commonly referred to as
 22 environmental justice. The impacts from construction
 23 and operation of these facilities are not high or
 24 adverse. Therefore, there would be no environmental

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28 justice concern associated with construction or
1 operation. However, due to the prevailing wind
2 directions, there is a potential impact on low income
3 and minority populations from these highly unlikely
4 events.
5
6 The risk associated with these accidents
7 is considered to be small to all populations.
8 However, the NRC felt it was important to include
9 mitigation measures to reduce these potential impacts
10 to low income and minority populations.
11 Transportation of materials was identified
12 during scoping as an important concern to many
13 stakeholders. The transportation analysis includes
14 the shipment of surplus plutonium from various DOE
15 sites to the Savannah River Site, and also depleted
16 uranium from an existing enrichment facility to a
17 conversion facility where it would be converted to a
18 powder form, and then to the Savannah River Site.
19 We also provided an analysis of shipping
20 fresh MOX fuel from the Savannah River Site to a
21 generic Midwest reactor. The impacts associated with
22 this transportation would be less than one latent
23 cancer fatality from routine transport to the public
24 along transportation routes, and also to
25 transportation crews. Hypothetical accidents result

29 in insignificant impacts.
1
2 The potential impacts associated with
3 using MOX fuel are discussed in the environmental
4 impact statement on a generic basis. The collective
5 dose to members of the public from normal operations
6 would be essentially the same, whether a reactor used
7 low enriched uranium fuel, or a mixture of the MOX
8 fuel and low enriched uranium fuel.
9 We also looked at various design-based
10 accidents, and found that the risk associated with
11 developing a latent cancer fatality between low
12 enriched uranium fuel and a mixture of MOX fuel varied
13 from about 6% lower to 3% greater. We also looked at
14 beyond design-basis accidents. The risk there would
15 vary from about 7% lower to about 14% greater.
16 We have recently received an application
17 from Duke Energy to place lead test assemblies in
18 either the Catawba or McGuire reactor. We will do
19 additional site-specific evaluations before these lead
20 test assemblies are placed in those reactors, and
21 before MOX fuel would be placed in any reactor. That
22 is, the NRC would determine whether it's safe to do
23 that before it's allowed to happen.
24 The draft environmental impact statement
25 includes a cost benefit analysis on both a national

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30 scale and a regional scale. The cost/benefit analysis
 1 is used by the NRC to determine its preliminary
 2 recommendation. On a national scale, the project
 3 would cost about \$3.85 billion. The national benefits
 4 would include safe use of excess weapons plutonium,
 5 and also employment and income.
 6

7 On a regional scale, which includes 15
 8 counties surrounding the Savannah River Site, which
 9 would be of interest to you all, the proportion
 10 national cost within that region would be about \$8
 11 million. The regional environmental costs are
 12 considered, and the impacts presented in the draft
 13 environmental impact statement conclude that the
 14 impacts are not significant. The regional benefits
 15 would include \$350 million of income during
 16 construction, and about \$640 million during operation.
 17 In conclusion, the impacts of the proposed
 18 action are generally not significant. Accident
 19 impacts from the pit disassembly and conversion
 20 facility and the MOX facility are significant.
 21 However, the probability of such an accident is
 22 considered to be highly unlikely. Therefore, the
 23 overall risk to the public is considered to be very
 24 small. There is a potential environmental justice
 25 concern should an accident occur. And, again, NRC has

31 proposed mitigation measures to reduce those potential
 1 impacts.
 2 Staff's preliminary recommendation is the
 3 proposed action with appropriate mitigation measures
 4 to reduce potential impacts in all areas. Before
 5 making any decision, NRC will consider comments here
 6 tonight, and decide whether changes need to be made in
 7 the environmental report -- I'm sorry, environmental
 8 impact statement, and then we'll finalize the
 9 environmental impact statement, as Lawrence mentioned.
 10 He also mentioned that we're doing a safety evaluation
 11 report, and that -- those findings would be completed
 12 before NRC makes any decision whether or not to
 13 authorize Duke Cogema Stone & Webster to construct the
 14 MOX facility.
 15 When DCS submits an operating license
 16 application, NRC will review that application, and
 17 prepare a second safety evaluation report. NRC will
 18 only grant authority to operate the MOX facility if it
 19 can be shown to be safe.
 20 The next slide shows ways that you can
 21 submit comments. You can either submit them in
 22 writing, you can Email them to me. There's also a
 23 place on the Web where you can type in comments, or
 24 you can fax them to me. Comments are due by May 14th.
 25

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32 And I would ask that when you provide your comments,
1 if you can provide detail that helps us in determining
2 how to -- how to address your comment. You know, a
3 comment that says, "I'm for the proposed MOX
4 facility," "I'm against the MOX facility," are nice.
5 But if you say, "I'm against the MOX facility because
6 I don't like XYZ," that's a much -- much more useful
7 comment to us. Or if you say, "I'm for the proposed
8 MOX facility because it would create jobs in the
9 area."
10 But that concludes my remarks, Chip, if
11 you...
12 MR. CAMERON: Oh, great.
13 MR. HARRIS: Be happy to answer questions.
14 MR. CAMERON: Great. And thank all of you
15 for your patience. That was a lot of material. And
16 let's go out to people for -- for questions now.
17 Yes, sir? And if you could just give us
18 your name, please.
19 MR. MARESKA: Bill Mareska, Augusta,
20 Georgia. To Tim or Lawrence, is the DOE or the NRC
21 prepared to terminate any further action and abandon
22 creating the MOX facility if the Russian and American
23 political agreement on MOX construction falls through?
24 This was the principal reason for choosing MOX over
25

33 immobilization. And if those agreements fail, is the
1 NRC or the DOE prepared to terminate the MOX facility
2 construction and revisit immobilization?
3
4 Thanks.
5 MR. HARRIS: That's a good question which
6 maybe will help identify the differences in roles
7 between the Department of Energy and the Nuclear
8 Regulatory Commission.
9 The Department of Energy, as Lawrence
10 mentioned, has the overall mission to -- for the
11 surplus weapons plutonium. And they talk to Russia
12 and are involved in the agreements. So if something
13 happens between Russia and the U.S. relative to the
14 agreements, those decisions would be made by DOE. NRC
15 is only involved in determining whether or not the
16 proposed MOX facility can be built and operated
17 safely.
18 MR. CAMERON: And I think that -- that
19 answers...
20 MR. HARRIS: Does that answer your
21 question?
22 MR. CAMERON: And if there -- I imagine if
23 there was some type of a change that caused the
24 Department of Energy to reevaluate, then they might
25 withdraw the application or something like that.

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34
1 MR. HARRIS: Right. But those -- those
2 decisions would be made by others.
3
4 MR. CAMERON: Okay. Yes, let's go back
5 here.
6
7 Yes, ma'am. And please give us your name.
8
9 MS. ROCHE: My name is Peggy Roche. I'm
10 with Carolina Peace Resource Center. And I had
11 several questions.
12
13 One thing, I think the man's question
14 needs to be addressed by somebody, because it's my
15 understanding that the Russians have halted their MOX
16 facility plans at the moment, so that we are currently
17 in violation of that agreement.
18
19 Now, another thing is that you mentioned
20 terrorist attacks. What better "come and get me" is
21 there than having 100% of the plutonium in the United
22 States in one single place, instead of spread out
23 throughout the United States? In one single place.
24 And the reason it's not spread out is because every
25 place that you've gone to start a plant, public outcry
has kept a license from being issued in the Northeast,
the Southwest, the Northwest, the West, and now you're
here in the Southeast.
26
27 My other comment is you said that the
28 workers at the facility would not be -- their health

would not be adversely affected. I direct you to Section 5, Page 11 of your DEIS that admits workers who are building the site could have their health adversely affected by, quote, "Exposure to soil or groundwater previously contaminated by radioactivity or chemicals."

Are you admitting the Savannah River Site is currently unsafe before you start stirring up dirt with construction? Could I have an answer to any of my questions, please?

MR. CAMERON: Let -- let's start with the -- the last question about the draft environmental impact statement and worker health. Tim, did you -- did you understand the...

MR. HARRIS: Yeah, I did.

MR. CAMERON: ...trail to that?

MR. HARRIS: Can you still hear me?

The -- the answer is, is that there -- there was a potential concern that since soil that's currently at the MOX site was moved, that there could be some residual contamination. We don't think that's likely. The applicant has done some testing. But we felt that it was important, to insure worker safety, that we had measures in there for testing during construction to make sure that that didn't happen.

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36 And I think the answer to your question of
1 whether or not we think it's unsafe now is: No, we
2 don't think it's unsafe.
3
4 MS. ROCHE: (Inaudible)
5 MR. CAMERON: We need to get you on the --
6 the microphone; okay? So we'll go back to you right
7 now to see if you have a follow-up.
8 MR. HARRIS: Chip?
9 MR. CAMERON: Yeah, go ahead, Tim.
10 MR. HARRIS: Did we want to have the
11 Department of Energy address...
12 MR. CAMERON: Let's work -- let's work
13 through these questions. There were three issues that
14 were raised. And one was the one that you answered.
15 And did you have a follow-up on that one?
16 Before we go to -- I'm going to ask
17 Lawrence Kokajko to tell us a little bit, because we
18 know it is a concern to all of us. Where are
19 potential terrorist issues? Where -- where are those
20 issues considered in the NRC's evaluation of the
21 application, and what is the Commission doing
22 generally in terms of the events after September 11th?
23 Well, fine. Peggy, when you -- is it
24 Peggy?
25 Peggy, when you get up, and I know you're

37 going to make a comment, we want to hear about
1 anything like that. But what we want to do now is
2 want to try to answer any questions that people have;
3 okay?
4 Okay, go ahead, Lawrence.
5 MR. KOKAJKO: Okay. First of all, the
6 purpose of the program, as we describe in the purpose
7 and need, is to eliminate surplus weapons plutonium
8 and to get it into a form that is not subject to being
9 diverted to subversive or terrorist needs. And I
10 mentioned that in my opening remarks.
11 The -- also I'd like to point out, as far
12 as the location in one site, I'm not questioning the
13 policy of the Department of Energy in this case. We
14 were mandated by law to evaluate the fact that they're
15 going to do the proposed MOX facility. I have no
16 authority to question why they do that. I'm now
17 trying to implement that and make sure that it was
18 done safely and in accordance with the law.
19 In terms of the -- the general question
20 about what the NRC may be doing in response to
21 terrorist...
22
23 UNIDENTIFIED: Use the microphone, please.
24 UNIDENTIFIED: Use the other microphone.
25 That one's not working.

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38

1 MR. KOKAJKO: It's not working?
 2 MR. CAMERON: Yeah, we're not hearing it
 3 out here.
 4 MR. KOKAJKO: Is this one -- is this one
 5 working?
 6 MR. CAMERON: Better.

7 MR. KOKAJKO: In terms of the general --
 8 what is the NRC doing in terms of terrorist
 9 activities, the NRC is -- throughout the -- for a lot
 10 of commercial uses of radioactive material, are doing
 11 vulnerability assessments to insure that the -- we
 12 have assessed potential vulnerabilities of diversion
 13 and use of whether it's radioactive dispersal devices
 14 or dirty bombs or other diversion type activities. We
 15 have issued interim compensatory measures to the
 16 licensees and applicants as to what they need to be
 17 doing. And we have taken an increased security
 18 awareness for all commercial licensees and applicants.
 19 Beyond that, I cannot go into a lot more detail. But
 20 we are aware of the terrorist threat, and we are
 21 sensitive to it.
 22 MR. CAMERON: The bottom line is, is that
 23 potential terrorist threats are considered in the
 24 NRC's evaluation of the application?
 25 MR. KOKAJKO: In the safety evaluation;

39

1 Yes, sir.

2 MR. CAMERON: Okay, good. Good.
 3 And Peggy, when -- you'll -- you'll have
 4 your -- your chance to speak. But just let me give
 5 you -- is there any other question you have?

6 Okay, go ahead.

7 MS. ROCHE: Did the Department of Energy
 8 tell you to license just one facility in the United
 9 States?

10 MR. HARRIS: It's important to understand
 11 that the Department of Energy has the overall lead.
 12 But the applicant that we're reviewing is Duke Cogema
 13 Stone & Webster. We're responding to one application
 14 from them. We don't deal directly with the Department
 15 of Energy. Our point of contact is the applicant, who
 16 is Duke Cogema Stone & Webster.

17 MR. CAMERON: So, in other words, we have
 18 an application for this facility, and that's why we're
 19 reviewing it. And if the program that we're not
 20 responsible for develops the need for another
 21 application, that would come in to us and we would
 22 review that. But we can only review what is in front
 23 of us; is that...
 24 MR. HARRIS: That's correct. We don't
 25 make the decisions where to put it or who applies.

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40 MR. CAMERON: Okay. Question, Mr. Hooker?
1 Okay. Question?
2 MR. HOOKER: Did the NRC consider the
3 environmental risk taken with the ratings on these
4 streams that have got a high rate, medium rate, low
5 risk? I mean, did you all get together with the EPA
6 and look at where they match these things?
7 MR. HARRIS: Yeah. What we evaluated...
8 MR. HOOKER: ...somebody needs to
9 all can look at them. But...
10 MR. HARRIS: Okay. And that's why we're
11 MR. HOOKER: ...somebody needs to
12 (inaudible).
13 MR. CAMERON: Okay. And that's why we're
14 here, to find out what we should look at harder. And
15 I think that your concern is -- is some of the
16 streams.
17 MR. HOOKER: This had input with what you
18 (inaudible).
19 MR. HARRIS: Okay, we looked at it. In
20 Chapter 3 it evaluates what the current conditions are
21 at the Savannah River Site. And -- but as far
22 as evaluating the impacts from the proposed action, we
23 looked at those areas that would be connected to the
24 proposed action. So -- so if there was a stream that
25 was, you know, on the back 40 that was nowhere near

41 the MOX facility, wasn't associated with any...
2 MR. HOOKER: We're talking about Four Mile
3 Creek. That's the one we're talking about.
4 COURT REPORTER: I'm sorry, we're -- I'm
5 just not getting you.
6 MR. CAMERON: Yeah, we need to -- we need
7 to get all this on the transcript.
8 Do you have one more question?
9 MR. HOOKER: The particular stream I'm
10 talking about is Four Mile Creek.
11 MR. HARRIS: Yeah, we -- we did look at --
12 did the water quality associated with Four Mile Creek.
13 MR. HOOKER: And what did you come up
14 with?
15 MR. HARRIS: We concluded that the
16 proposed MOX facility would not significantly change
17 the water quality in Four Mile Creek.
18 MR. CAMERON: And if you have information
19 -- Mr. Hooker, if you have information that would --
20 that would cause us to -- to reevaluate that, please
21 submit it to us.
22 Okay, great.
23 MR. HARRIS: Thank you.
24 MR. CAMERON: We have some questions out
25 here, and one back there. And I don't know, does

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42 anybody in the upper peninsula out there have a
 1 question?
 2
 3 UNIDENTIFIED: (Indiscernible)
 4 MR. CAMERON: All right. Okay. Let's --
 5 let's go for some questions, and then at some point
 6 we're going to have to go to comment. Because we have
 7 -- luckily, we have a whole lot of people who -- who
 8 want to comment.
 9 So let me start over here, and we'll go
 10 back there and over. And -- and please try to keep
 11 this to -- to mainly questions.
 12 Don?

13 MR. MONIAK: I have a question concerning
 14 existing impact.

15 MR. CAMERON: Don Moniak.

16 MR. MONIAK: My name is Don Moniak, M-O-N-
 17 I-A-K.

18 Did you evaluate the impact that SRS would
 19 have if they were to -- say in their emissions if they
 20 were to release as much air pollution as they're
 21 permitted to, or did you evaluate what they are
 22 releasing? And the same with waste water discharge.
 23 Because their permit levels, what they're permitted to
 24 release is very different than what they do on an
 25 average. And some of the permit levels are very high.

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43 Then I had one other question regarding
 1 the NRC role.
 2
 3 MR. CAMERON: Why don't you -- why don't
 4 you put that before us now.
 5 MR. MONIAK: Okay, the other question is,
 6 is the Nuclear Regulatory Commission responsible for
 7 making sure that the Atomic Energy Act is followed?
 8 And I'm referring to the provision on foreign
 9 ownership, control, and influence of a U.S. nuclear
 10 facility. And is the current determination on foreign
 11 ownership, control, and influence valid, considering
 12 Framatone bought out Duke Engineering a year ago?
 13 Thanks.
 14 MR. HARRIS: The answer to the last
 15 question is: Yes, we do enforce the Atomic Energy
 16 Act. Those issues, ownership issues, are discussed in
 17 the safety evaluation report. And Dave could provide
 18 some information. But that's -- they're not really
 19 germane to the environmental impact statement.
 20 MR. CAMERON: Okay. If we need to get
 21 more on that, we'll go to Dave. Can you answer
 22 Don's...
 23 MR. HARRIS: Yeah, let me -- let me work
 24 -- let me work backwards.
 25 The waste water issues I think we looked

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44 at because the waste from the proposed MOX facility
1 would go to existing SRS facilities. We looked to see
2 if -- if processing that waste would violate permits.
3 For the air quality, to be honest, Don,
4 I'm not sure whether we looked at existing emissions.
5 I want to say we did, but -- I see Ed nodding. I
6 think that's the case. We looked at what they are
7 currently emitting, not what they're permitted to
8 emit. But, again, we looked at that in terms of would
9 the MOX facility cause them to be out of compliance
10 with any of their air permits, and we thought the
11 answer was no.
12 MR. CAMERON: Okay. Great.
13 We're going to let Dave Brown tell us a
14 little bit. But the reference to Ed is Ed Pentecost,
15 who's back here. Ed, identify yourself. He is one of
16 our expert consultants that is helping with the
17 preparation of the environmental impact statement.
18 Dave, on the question of Don's on foreign
19 ownership.
20 MR. BROWN: Well, you know, just to give
21 you some context, we anticipate issuing our draft
22 safety evaluation report next month, in April. And in
23 there I can tell you our draft determination is we've
24 looked at the foreign influence and control
25

45 information and we have advised and find there's no --
1 no issue there.
2 MR. CAMERON: All right, thank you.
3 Let's go to this gentleman right here.
4 Please give us your name.
5 MR. SUTHERLAND: I'm Jim Sutherland. I've
6 got a question. I noticed in the book
7 (indiscernible). Did you all send the EIS to anybody
8 (indiscernible) first time I've seen the document, and
9 that's on this list? I mean, like sitting
10 (indiscernible) first time I've seen the document, and
11 some of the data in here is not correct
12 (indiscernible).
13 MR. HARRIS: I'll take that as a comment
14 and hope that you'll provide some -- a written comment
15 showing where the datas are inaccurate and what the
16 datas should be.
17 MR. SUTHERLAND: My question is...
18 MR. HARRIS: Whether we contacted...
19 MR. CAMERON: Yeah, can -- can we -- do we
20 know if we sent a copy of the environmental impact
21 statement to local government officials?
22 MR. HARRIS: Yeah, we sent it -- we sent
23 it to about 500 people, and I don't remember whether
24 New Ellington was on the -- on that list.
25 MR. CAMERON: Okay. Let's make sure is

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46
1 there -- are any local government units that did not
2 get a copy, that people know about, or don't think you
3 got a copy, please give us that address and we'll send
4 them a copy.

5 MR. HARRIS: Actually, if you let Adrienne
6 know in the back table, she can make that happen and
7 we'll...
8 MR. CAMERON: And, Adrienne, just wave to
9 us.
10 All right, that's Adrienne back there. If
11 we can...
12 MR. HARRIS: But we'll take as an action
13 item, Chip, to make sure that New Ellington gets a
14 copy.
15 MR. CAMERON: Great. Okay. We'll put
16 that up on the board.
17 Let's go to Glenn Carroll.
18 MS. CARROLL: I actually thought he was
19 talking about something else. He didn't get his copy,
20 but do you have corrected data that you'll be getting
21 to us?
22 MR. HARRIS: Correct.
23 MS. CARROLL: You put some figures up
24 there tonight which were, you know, not very detailed.
25 But are those final figures?

47
1 MR. HARRIS: Yes.
2 MS. CARROLL: So you do have the final
3 data?
4 MR. HARRIS: Yeah. Actually, the -- the
5 information that's in your handouts that talks -- the
6 numbers there are corrected numbers. But -- but
7 not...
8 MS. CARROLL: Are they just not attached
9 to the agenda?
10 MR. HARRIS: It's attached to the agenda;
11 correct. But not all the numbers that are in the EIS
12 are in there. That's why we're going to issue errata
13 sheets with -- you know, there are several huge tables
14 and other references. So we'll issue errata sheets
15 hopefully next week, so that you'll have those.
16 MS. CARROLL: Do you plan to hold public
17 meetings following the issuance of the correct data?
18 MR. HARRIS: I don't think that's
19 currently in the plan. But if you're making a
20 request, we would consider it, as always.
21 MS. CARROLL: I'm making a request.
22 MR. HARRIS: Well, thank you.
23 MR. CAMERON: And I would imagine that the
24 -- that issue might turn on whether the corrected data
25 would lead to or could lead to a different conclusion.

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48
1 MR. HARRIS: Well, again, as I stated in
2 my remarks, the corrected data does not change the
3 NRC's conclusion, you know. If the impacts associated
4 with operation, even though they're twice as much, are
5 still less than one millirem. The accident
6 consequences changed, but they're still large numbers.
7 So -- so the -- you know, whether the number was 20 or
8 400, it doesn't change the fact that they're
9 significant. So -- so even though the numbers
10 changed, it doesn't change our -- our conclusions.
11 MR. CAMERON: Okay. Thank you.
12 And let's go to this gentleman, and then
13 after that, down here, and we're working our way.
14 MR. CLEMENTS: My name is Tom Clements.
15 Just two -- couple issue of questions. As
16 we all know, four reactors have been chosen to do this
17 mission, which are mentioned in the draft EIS. But
18 four reactors are not enough to carry out the
19 irradiation of 34 tons. Where are the other two
20 reactors? Where does that stand? At least two more
21 are needed.
22 MR. HARRIS: The other two reactors would
23 be selected by either DCS or DOE. What we did in our
24 draft environmental impact statement was evaluated
25 impacts to reactors generically. So that would apply

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1 to whether the reactors near Charlotte ultimately
2 would become part of the program, or whether another
3 reactor in the nation would become. So we looked at
4 it generically so it's not a specific evaluation. And
5 also keep in mind that if and when a reactor requests
6 to use the MOX fuel, that requires an additional site-
7 specific review by the Nuclear Regulatory Commission
8 to determine whether it's safe to use that fuel at
9 that reactor.
10 MR. CLEMENTS: Also, because you -- you
11 mentioned the -- eliminating the immobilization
12 alternative because of the position of Russia. Has --
13 and this is -- may be more of a DOE thing. But has
14 the agreement with Russia been changed to dictate to
15 the United States what disposition options we choose?
16 I have a copy of it here and...
17 MR. HARRIS: I'm not aware that the
18 agreement has changed since...
19 MR. CLEMENTS: Well, let me just...
20 MR. HARRIS: ...2001.
21 MR. CLEMENTS: ...clarify this, and I will
22 make a comment. Because a mythology has been created
23 that we -- Russia is dictating to us that we do MOX.
24 And that is not true. The Article 3 of the agreement
25 says, "Disposition shall be by one of the following

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50 methods: irradiation, immobilization, or any other
 1 method agreed to by the parties in writing. So we
 2 appreciate it if you'd correct the document to reflect
 3 what is actually in the agreement. It allows
 4 immobilization, and the Russians can't dictate to us
 5 what we do with the material.

48-1
 cont.

7 MR. CAMERON: Let's get some -- let's get
 8 some clarification on that for you from the Department
 9 of Energy. And, Ken, if you'd just introduce yourself
 10 and... .

11 MR. BROMBERG: My name is Ken Bromberg
 12 from the Department of Energy. You are correct, the
 13 2000 agreement with Russia plutonium (indiscernible)
 14 disposition agreement does not dictate. It allows
 15 either party to use immobilization and/or MOX.
 16 However, Russia has made it known in
 17 negotiations with the U.S. over several years that
 18 they would not proceed to dispose of their surplus
 19 weapon grade plutonium if the U.S. used MOX -- rather,
 20 used immobilization only. The Russians feel that
 21 immobilization, to use their words, is another form of
 22 storage, because immobilization does not degrade the
 23 weapon grade plutonium so it can't be reused in
 24 weapons. As a result, the Russians have refused to go
 25 ahead and dispose of their plutonium. For that

51 reason, the U.S. is proceeding, of course, as it is
 1 currently.
 2
 3 The other thing is that there have been a
 4 number of technical problems with immobilization in
 5 terms of the high level waste barrier, with the in-
 6 tank precipitation problem, and there are currently
 7 additional technical studies that have called into
 8 question the can and canister immobilization approach
 9 that we have been working on for many years. That's
 10 not to say it couldn't be fixed or corrected in the
 11 long-term, but right now there are a number of
 12 technical problems that MOX does not have.
 13 MR. CAMERON: Thank you very much, Ken.
 14 We've got a couple here, and then we're
 15 going to come back here, and then we'll work over that
 16 way.
 17 Yes, sir? Please give us your name.
 18 MR. TEESE: Greg Teese from Aiken, South
 19 Carolina.
 20 Tim, you stated that the numbers that were
 21 in the handout are the correct numbers?
 22 MR. HARRIS: Yes, sir.
 23 MR. TEESE: The numbers in the handout for
 24 the radiological accidents for continued storage, the
 25 no-action alternative, the dose that it has on the

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52 handout is 6.6 person rem; the dose that's in the
1 draft environmental impact statement is 6.6 person
2 sieverts. There's a difference of a factor of 100.
3 Which is the correct number?
4
5 MR. HARRIS: Without looking at the
6 document, I believe the information -- those numbers
7 didn't change. So whatever's in the draft
8 environmental impact statement is correct. And if --
9 if, in fact, the handout used the wrong units, I
10 apologize.
11 MR. TEES: If the handout used the wrong
12 units for that, on the same line as the proposed
13 action, the explosion event, it's showing 91,000.
14 What is the correct units for 91,000?
15 MR. HARRIS: I believe that person rem.
16 MR. TEES: Not person sievert?
17 MR. HARRIS: Not person sievert. We -- we
18 had both units, and we decided to convert them to rem
19 since that's what most people understand in -- in the
20 United States.
21 MR. TEES: Okay, thank you.
22 MR. CAMERON: And I guess that the implied
23 comment there is that we should really check these
24 carefully to make sure that it's correct.
25 MR. HARRIS: Comment received.

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1 MR. HARMON: My name is Harry Harmon.
2 On your waste management slide you
3 mentioned that the operation of the MOX plant would
4 generate certain percentages, in addition to waste.
5 My question is: Are those numbers for the total site
6 or for "F" area?
7 MR. HARRIS: I believe those numbers are
8 for the total site. Those are percentages above what
9 are currently being generated by the Savannah River
10 Site.
11 MR. HARMON: Is that on an annual basis
12 or...
13 MR. HARRIS: Correct, annual basis.
14 MR. HARMON: Annual basis. All right.
15 MR. CAMERON: Thank you very much.
16 I think we have two questions right here;
17 or one.
18 Yes, sir?
19 MR. WALKER: My name is David Walker. I'm
20 from Aiken.
21 Tim, you keep mentioning mitigating
22 consequences regarding environmental justice. What
23 exactly are those mitigating consequences?
24 And the second question is: Will the
25 corrected EIS statement from your department be

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54 available prior to the May 14 deadline for submitting
 1 comments?
 2 MR. HARRIS: Yeah, we hope to get that
 3 information out to you next week. Obviously the mail
 4 will take a little bit of time to get it to you. But
 5 we're also going to post that on the -- on our
 6 website. So if you want it quickly, you can access it
 7 that way. And yes, it will be available before the
 8 May 14 comment period.
 9 Your question was: What are the
 10 mitigation measures that are proposed? Is that...
 11
 12 MR. WALKER: Yes.
 13 MR. HARRIS: The Nuclear Regulatory
 14 Commission -- there's a number of mitigation measures
 15 discussed in the EIS, some of which were proposed by
 16 the applicant, DCS, and some of which were proposed by
 17 NRC.
 18 These were proposed by the NRC, and they
 19 include focused public information campaigns to
 20 provide technical and environmental health information
 21 directly to low income and minority populations, or to
 22 local agencies and representatives for those groups.
 23 Also, additional programs directed at
 24 local communities providing emergency response
 25 services or other emergency facilities to incorporate

55 additional measures to protect low income and minority
 1 populations. So it's to EDC and also to proved some
 2 additional focus on environmental -- I'm sorry,
 3 emergency responses.
 4 We received some comments last night from
 5 a Mr. Cutter on -- on some specifics, and that's
 6 really some of the things that will be helpful to us,
 7 is -- is as you review these mitigation measures, if
 8 you can provide some more details or additional ways
 9 that you think mitigation could happen, we're very
 10 receptive to that.
 11
 12 MR. CAMERON: Okay. Follow-up?
 13 MR. WALKER: Follow-up. Will these
 14 measures take effect before an accident or after?
 15 MR. HARRIS: They would -- they would
 16 happen before the accident. Certainly -- certainly
 17 the information can...
 18 MR. CAMERON: You may want to rephrase
 19 that.
 20 [Laughter.]
 21 MR. HARRIS: Am I still beating my wife?
 22 I don't know.
 23 [Laughter.]
 24 MR. HARRIS: The information campaigns
 25 would happen if and when a license was granted, before

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56 any hypothetical event happened. So that -- you know,
1 we're not going to wait for an accident to decide, oh,
2 we better go to mitigate it. That mitigation needs to
3 happen before an unlikely event happens.
4
5 MR. CAMERON: Okay. Thanks, Tim.
6 MR. HARRIS: Is that better, Chip?
7
8 MR. HARRIS: Sounds better.
9
10 MR. CAMERON: Okay. Brendolyn, do you
11 have a question?
12 MS. JENKINS: Good evening. My name is
13 Brendolyn Jenkins and I'm from Aiken, South Carolina.
14 I want to piggyback for a second on the
15 question that Reverend Walker asked. If it's done
16 before, you said that you would give technical
17 information in a public information campaign. Would
18 those campaigns be held specifically in the impacted
19 community?
20 MR. HARRIS: I think the answer would be
21 yes. But if -- but if you think that they should be
22 in other areas, you know, we're receptive to that.
23 MS. JENKINS: Heretofore, until last
24 Thursday, it was the first meeting we've had in our
25 community. So that's pointedly why I asked.

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1 MY question is, with the waste management,
2 300% more TRU waste; 32% more low level; 60% more
3 solid waste. Will new or existing facilities be used
4 to handle that waste? And if it's coming from around
5 the site and not this facility, how, then, does these
6 numbers specifically address MOX?
7
8 MR. HARRIS: Those numbers represent the
9 percentage increase that the MOX facility would have
10 relative to what's currently being produced at the
11 Savannah River Site. That is, if you look at the
12 number of cubic meters or volume of waste, say TRU
13 waste that the MOX facility will create annually, and
14 divide that by what the Savannah River Site already
15 does, you get 300%, about. So those numbers relate to
16 that.
17 Your question also related to whether new
18 facilities would be built. Most of the waste would be
19 processed by existing Savannah River Site facilities.
20 And, as I mentioned, those facilities have the
21 capacity and are permitted to manage that waste. I --
22 we also talked about the waste solidification
23 building. And that will be a new facility that will
24 process waste from the proposed MOX facility and also
25 the pit disassembly and conversion facility. So that
would be new construction.

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1 MS. JENKINS: And did you look at the
2 additional impacts, environmental impacts, on these
3 waste streams?

4 MR. HARRIS: Yes, ma'am, we did. And as
I stated in my presentation, we concluded that the
effort of processing the waste from the proposed
action would not change significantly the permitted
effluents from those waste process facilities at the
Savannah River Site.

5 MS. JENKINS: One last question. On the
readjusted or recalculated figures shown, I understand
how you made the readjustments and came up with the
new conclusions. But what does DOE, NRC, and DCS
consider an acceptable death or disease number?

6 MR. HARRIS: I don't know that we have an
-- a definition for that. Certain numbers of latent
cancer fatalities that are very small are generally
acceptable, but I don't think there's a hard-and-fast
number on that.

7 MR. CAMERON: And I think that Tim used
the word "we." You said DOE, DCS, NRC. And I think
Tim is just speaking for -- for the NRC at this point.
But it's a very pertinent question for the regulatory
agency.

8 Lawrence?

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1 MR. KOKAJKO: We don't consider any death
2 acceptable, first of all. Let -- first, we're talking
3 about latent cancer fatalities, and it's not an actual
4 death. Although we have...
5 [Laughter.]

6 MR. KOKAJKO: ...although we have come up
7 with...
8 [Laughter.]

9 MR. KOKAJKO: Sir, please.
10 Although we have come up -- we have done
11 a bounding analysis to see what possible could happen
12 in terms of these hypothetical accidents. The other
13 part of that -- our job is to insure -- assure that
14 they don't happen. That's what the safety review is
15 for. We want to make those things highly unlikely.
16 But the NEPA process asks us to take a look at the
17 broad bounding case, and so we have done that. But we
18 do not -- we don't find any death acceptable. We
19 never have, and we never will.
20 MR. CAMERON: Okay, thank you.
21 We're going to go to this side, questions,
22 and then we're going to get started with public
23 comments. And, Jen, I see your hand. We'll go to you
24 before we get public comments.
25 Gerald?

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1 MR. RUDOLPH: I'm Gerald Rudolph from 60
2 Columbia. I have a few questions. 1
3 One is about memorandum of understandings. 2
4 Do you -- where can we get a copy of the memorandum of 3
5 understanding between the Department of Energy and NRC 4
6 about the security for materials, about the transfer 5
7 of materials between the -- within the complex 6
8 commercial process for MOX. And where are we going to 7
9 find the memorandum of understanding for who is or is 8
10 not a MOX factory worker, for purposes of this 9
11 accident analysis? That's the first question. 10
12 And you want me to go through all the 11
13 questions first? 12
14 MR. HARRIS: No, please. 13
15 I'm going to ask Dave to talk about the 14
16 MOU. I think as far as -- I didn't quite understand 15
17 your last question about what was a MOX facility 16
18 worker. Certainly... 17
19 MR. RUDOLPH: Who is -- who is a MOX -- 18
20 for the benefit of accident analysis, who is or is not 19
21 a MOX factory worker or a MOX facility worker. 20
22 MR. HARRIS: Well, those would be workers 21
23 that -- that operate within the footprint of the 22
24 proposed MOX facility. 23
25 MR. RUDOLPH: I mean, but some of them may 24
 25

1 be working on the DOE when they -- when the material 61
2 is in the hands of DOE, and when it's transferred to 1
3 the NRC license facility, are you only considering the 2
4 -- so there's no memorandum of understanding for 3
5 identifying... 4

6 MR. HARRIS: Well, I think MOX workers 5
7 would be employed by Duke Cogema Stone & Webster, and 6
8 other workers at the Savannah River Site are employed 7
9 by -- by other various DOE contractors. 8
10 MR. RUDOLPH: So there's no -- there's no 9
memorandum of understanding for that? 10
11 MR. HARRIS: Not that I'm aware of. But 11
12 I'll let Dave talk about the memorandum of 12
13 understanding for security of material, if you can. 13
14 MR. BROWN: Let me just try to address 14
15 your question with regard to who's a worker. For 15
16 Savannah River Site employees who -- who would not be 16
17 working at the MOX plant, DCS has committed to meeting 17
18 a certain section of our regulation that says we're 18
19 going to train those people about the risks at the MOX 19
20 plant, and we're going to provide both posting -- 20
21 postings and notices. And if they do that, then our 21
22 regulations allow that they be treated as workers for 22
23 the purposes of the safety evaluation. That's their 23
24 proposal, and that's what we're evaluating as part of 24
25 25

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the safety review.

MR. RUDOLPH: So that allows you to exclude them from the submission of off-site impact? If they -- other -- if they -- more people -- how does that work? How do you define who's on-site and off-site from the MOX facility?

MR. BROWN: It does -- there is a little bit of a complication. For the purposes of a safety review, when we're looking at potential accidents, we're considering those Savannah River Site employees who are within the site boundary to be workers. When we're looking at normal operation, if the facility is constructed and operating, the question of who's a member of the public and who's a worker really is determined by what does that person do for a living. Are they already working at the Savannah River Site in an occupation where they're exposed to radiation? If they are, then they're workers. If they're not, then they're members of the public. And the NRC's position is: Yes, there can be members of the public on the Savannah River Site, even employees of the plant. And the radiation dose limits for those individuals would be NRC's limits for members of the public.

Is that answer your question (sic)?

MR. RUDOLPH: Perhaps. Not

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satisfactorily, though. Let me go to the next question.

MR. BROWN: Okay.

MR. RUDOLPH: You have -- from what I understand, the NRC says that the throughput rate at the factory could -- could (indiscernible) about 10 years or 20 years. What is that -- what is that discussion about? And you showed us a 20-year license period for the operations, but -- but then you used 10 years of operations for the analysis. What -- can you explain?

MR. HARRIS: Yeah. Basically we assumed that the license would be a 20-year period. And that would include they would have to have a license for initial startup and then processing. But the actually throughput we estimated it would take about ten years.

So we looked at things on a annual basis, and the maximum throughput I think was 3.5 metric tons, number comes to mind, on an annual basis. So we look at the impacts annually. So if they didn't produce, if the period of operation was longer than that, the throughput would be less. There's only so much plutonium that's going to be put through the facility.

MR. RUDOLPH: So you're assuming the

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impact is the same?

A. We assume that the impacts are bounded by -- assuming a ten-year operation period, with a maximum throughput of 3.5 metric tons.

MR. RUDOLPH: One more question. You say that the -- that the impacts of the -- of 40% MOX or a 100% flow of enriched uranium would be the same; is that -- how do you support that?

MR. HARRIS: There's details in the environmental impact statement. But essentially, the conclusion that was drawn was on a generic basis. The emissions would be about the same from normal operations, whether it used -- the reactor used a mixture of MOX fuel or 100% low enriched uranium.

MR. RUDOLPH: Does it consider the temperature difference between...
MR. HARRIS: That segment's based on effluents that would come out of the plant, not internal safety operations, which would, as I mentioned, would be evaluated on a site-specific basis.

MR. RUDOLPH: So you're assuming that -- that the hotter MOX fuel would have the same parameters or have the same impact, the same...
MR. HARRIS: No, not the same -- not the

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same parameters, but the emissions from the reactor would be the same.

MR. RUDOLPH: And is there a study for that, or did you just assume that?

MR. HARRIS: We looked at some information that the Department of Energy had, and the references are provided in the environmental report -- I mean, environmental impact statement, excuse me.

MR. CAMERON: Thank you, Gerald.
Did you have a question, sir?

MR. WATSON: My name's Darrell Watson. I'm from Columbia. Got a couple of questions for you. First, has a safe, efficient, and successful use of MOX fuel been -- fuel made with weapons grade plutonium ever been accomplished?

MR. HARRIS: Do you want to answer that, Dave?

MR. BROWN: Could you repeat the question, please.

MR. WATSON: Has the safe, efficient, and successful commercial use of MOX fuel made with weapons grade plutonium ever been accomplished?

MR. BROWN: No, there -- there is no history in the United States of using weapons grade MOX fuel in a commercial nuclear power reactor.

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66 MR. WATSON: Is there any record of that
1 being done anywhere in the world?
2
3 MR. BROWN: Not except on a test or
4 experimental basis. No, not that I'm aware of.
5
6 MR. WATSON: So South Carolina's going to
be the first test, so to speak, for the MOX program in
7 the world?
8
9 MR. BROWN: The -- the...
10
11 MR. WATSON: In this -- in this regards of
it being made with weapons grade plutonium.
12
13 MR. BROWN: With respect to weapons grade
plutonium. And the distinction you're making is
important. Because certainly there are countries in
the world that do reprocess nuclear fuel, recover the
14 plutonium, and put that back through a mixed oxide
fuel plant to put back into reactors. France, of
course, being the notable example, and the fact that
15 Cogema is a partner in the consortium that's the
applicant for this plant, reflects their experience in
this.
16
17 MR. WATSON: Okay, that leads to my second
question about Cogema. Given that Cogema's part of
the consortium to handle the MOX process in the United
States and South Carolina, given its bad safety and
environmental record, especially in La Hague at the
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1 processing plant in France, why would DOE even bring
2 a licensing consideration with Cogema involved?
3
4 MR. HARRIS: We have looked at some of the
information that the applicant has provided us, that
5 includes their experience in France, especially with
6 regard to environmental effluents or emissions, if you
will.
7
8 MR. WATSON: What's the status of Russia's
MOX program currently, and does it use weapons grade
9 plutonium like ours?
10
11 MR. BROWN: The Russian program, what
we're working to here is -- what DOE's plan is, is to
12 maintain parity between the U.S. and the Russian
13 programs. Of course, their program is also about
14 surplus weapons grade plutonium.
15
16 MR. WATSON: Okay, I'm -- correct me if
17 I'm wrong, but I thought their program was currently
18 at a stall. They're not processing MOX currently, as
19 we speak.
20
21 MR. BROWN: Oh, no, they -- they were --
22 there is no Russian MOX facility constructed or
operating at this time; that's true.
23
24 MR. CAMERON: Right. We really need to
get going to hear all of your -- your comments. We'll
take one question here; we'll go over to Jen; and then
25

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1 we're going to start public commenting.
2 Yes, sir?

3 MR. GUILD: My name is Bob, and I have a
4 couple of questions. I think maybe an appropriate
5 observation in response to the environmental justice
6 question, that consequences are high for having
7 significant facilities, whether it be 20 or 2000. But
8 that consequence has to be taken into account of risk
9 of that consequence, which is a probability
10 (indiscernible). How likely is the fact -- assume the
11 accident would happen that would lead to those cancer
12 deaths.

13 Yet, I find the EIS completely devoid of
14 any effort at putting a number on that probability
15 function, which is a key to your conclusion which is
16 that the risk is acceptable. So you use a very
17 precise number for the number of deaths, and then
18 acknowledge an error and correct that error and create
19 the impression that you know what the consequence
20 would be. Yet I don't see any serious effort at
21 trying to project what the actual probability of that
22 accident in that occurring. And can you enlighten us
23 on why you didn't do that; and if you did do that,
24 didn't express in the EIS what that -- what that
25 chance of a serious accident is at the facility.

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MR. HARRIS: Do you want to answer that,
Dave? Dave's involved with the safety review, and
these really relate to -- because the measures to make
those accidents highly unlikely are in the safety
report review. So I'll let Dave discuss what they're
doing there.

7 MR. BROWN: In the handout and one of
8 Tim's slides we showed like a fine line of the safety
9 review and the environmental review. One thing you
10 see right away is the safety review extends for a
11 couple of years from now. And so one of the things
12 we're going to be doing, as we go through that
13 licensing review, is trying to get a much better
14 understanding of what the applicant thinks the
15 likelihood of those accidents are. And more
16 importantly, what's the reliability of the equipment
17 that's going to be -- be used to prevent those
18 accidents.

19 MR. GUILD: I'm sorry to interrupt. But
20 you're going to make the decision now as to whether or
21 not the National Environmental Policy Act requirements
22 are met, whether you should authorize going forward
23 with this as a matter of cost benefit. You're telling
24 us you don't know the answer as to the likelihood of
25 that accident occurring?

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1 MR. BROWN: We're -- right now we're going
2 to issue a draft report next month that's our
3 consideration of the likelihoods for a construction
4 authorization. My point is we're going to continue to
5 look at those likelihoods as we continue through
6 looking at their application to possess and use this
7 plutonium in the plant.

8 MR. CAMERON: Could we get -- could we let
9 Lawrence speak here, because you're raising an
10 important point as to where is the supporting data for
11 the conclusion you've requested.

Lawrence?

MR. KOKAIKO: Yeah, part of it, as -- as I mentioned earlier, the -- is the NEPA process, itself. It said to take a look at...

UNIDENTIFIED: Can't hear you.

MR. KOKAIKO: Some of the -- the problem I know is with the NEPA process, itself. It told us to take a look at the bounding conditions and the parameters of what these consequences are. Our regulations say these accidents will be made highly unlikely. And the DCS has to submit an integrated safety assessment which takes a look at the probabilities of these accidents occurring. And, as Dave pointed out, reliability of equipment,

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72 consequences. And we know that the regulations are
going to require that those accidents be made highly
unlikely.

MR. GUILD: All right. The last question.

I heard some -- a useful question earlier about
license term and the projected expected throughput
term, if you will, for the processing of the surplus
plutonium. You know, I have a very strong concern
that we're going to end up with a MOX fabrication
facility that's -- that processed its surplus weapons
plutonium, and then is going to be available for
commercial mixed oxide fuel production for you know,
the wonderful, long-promised, never realized closed
commercial nuclear fuel cycle in this country. And
that, like those facilities you mentioned in Europe,
we're going to suddenly have commercial mixed oxide
fuel promoted with weapons non-proliferation as the
foot-in-the-door.

So can you tell us what would be required
in order to convert this facility, at the end of its
license life, into a facility that does those things
that I'm concerned about, and that is becomes a
commercial fuel production facility.

MR. CAMERON: And you may -- You may not
know, in terms of physical adaptation, what needs to

73
1 happen. But I think that the question would be: What
2 would the NRC require in terms of new licenses,
3 et cetera, et cetera, if that ever did happen. And we
4 don't know if that's even feasible.
5
6 But, Lawrence, can you shed some light on
7 that? I don't know if you can or not.
8
9 MR. KOKAJKO: I'm not sure I can proved a
10 full response to your -- your question. Anything that
11 would be involved in fuel fabrication would be
12 licensed under 10 CFR -- excuse me, Title X, Code of
13 Federal Regulations, Part 70. And those regulations
14 do allow that any facility that fabricates and
15 enriches fuel for use in commercial nuclear power
16 plants, that it meet certain safety and environmental
17 standards.
18
19 MR. CAMERON: The license would be very
20 specific about what the facility could do.
21
22 MR. KOKAJKO: Correct.
23
24 MR. CAMERON: And if there was going to be
25 any major change to that, it would be a new license.
26
27 But let me see if we can get the
28 Department of Energy to shed some light on this. Ken?
29
30 MR. BROMBERG: Very simply -- this is Ken
31 Bronberg again. That facility that's being designed
32 and planted and built at the Savannah River cannot be
33

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1 used as a commercial facility. The entire facility,
 2 the shielding in it, is designed for the low radiation
 3 for weapon grade plutonium. It's entirely impossible
 4 to use for reactor fuel grade plutonium.

5 UNIDENTIFIED: Impossible?

6 MR. BROMBERG: Yes. Without just
 7 completely basically tearing out all the piping in the
 8 entire facility, and redesigning and rebuilding it.
 9 The facility just can't be used for that purpose.

10 Furthermore, the facility will be shut
 11 down at the end of the approximately ten-year
 12 plutonium disposition mission.

13 MR. CAMERON: Great. Thank you very much,
 14 Ken.

15 Okay, we're going to go to one last
 16 question over here, and then we're going to go to hear
 17 some more from all of you a bit more formally.

18 MS. KATO: I'm Jen Cooch Kato. I'm with
 19 the Sierra Club in Georgia. I have actually three
 20 questions that will be answered very quickly.

21 The first one is an extension of this
 22 gentleman's question, and it's very direct and has a
 23 very simple answer. And the question is: Was the
 24 probability of one used in assessing the human health
 25 think, reflects a good estimate of the wind conditions

74 impacts of any accident scenario?
 1 MR. BROWN: When you're looking at the
 2 consequences of the accident that's summarized, yes,
 3 it's a probability of one. In other words, the event
 4 was assumed to have occurred. Those are the
 5 consequences we've estimated.
 6
 7 MS. KATO: When I -- when I look at the
 8 doses and the -- and the (indiscernible), for example,
 9 for an explosion, which would undoubtedly involve
 10 plutonium, these figures are so minuscule that it
 11 seems like what you have done is actually risk-
 12 informed calculations. And risk-informed calculations
 13 do not assume a probability of one when you actually
 14 go out as far as latent cancer fatalities. They have
 15 been diluted by the probability of the accident
 16 occurring, and then further diluted by the probability
 17 of it occurring in a given day.
 18 MR. BROWN: I understand your comment.
 19 That is not what we did.
 20 MS. KATO: Okay, thank you.
 21 Second, why not a 20-year windrows instead
 22 of a five year, since we're dealing with a possibly
 23 20-year mission?
 24 MR. BROWN: The five-year windrows, I
 25 think, reflects a good estimate of the wind conditions

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1 at the Savannah River Site. But if you have 76
2 information about, you know, updated data or something
3 you'd like us to know about, we'd be happy to hear
4 about that.

5 MS. KATO: Well, the dose reconstruction
6 is looking at a 20-year windrow, so it's available.
7 I know DOE has it.

8 And my last question is: What is the
9 current NRC plan? This doesn't really have to do with
10 this DEIS, but I'm really curious about it. What's
11 the current NRC plan for continued supervision of the
12 MFFF? And I'd like to feel like the guys in the white
13 hats are out there on a daily basis or a very frequent
14 basis.

15 MR. CAMERON: And could you just enlighten
16 all of us on that acronym.

17 MS. KATO: MOX fuel fabrication facility.

18 MR. HARRIS: Fabrication facility.

19 Was your -- was your question, Jen, what
20 are we going to do . . .

21 MS. KATO: On the provision of ongoing
22 oversight.

23 MR. HARRIS: Yeah. I think -- I think, if
24 I understand your question---and I know you'll correct
25 me if I didn't get it right---is what are we going to

1 do in the future. You know, are we going to issue 77
2 this license and walk away.
3 MS. KATO: I just want to know what your
4 plan . . .
5 MR. HARRIS: The plan would be that, you
6 know, again, we're going to look at the construction
7 decision. We talked about the EIS. We're going to
8 look at the operation. In the event that we do issue
9 a license, we do inspections at the facilities, the
10 current plan is to have an onsite resident there who
11 is there on a daily basis to look at the operation of
12 the facility. So, yeah, we will be there.
13 MR. CAMERON: If the NRC licenses it,
14 we're going to regulate it; right?
15 MR. HARRIS: I think if we license it, we
16 are regulating it; right?
17 MR. CAMERON: And -- you know what I mean.
18 MR. HARRIS: I know what you mean.
19 MR. CAMERON: All right. Okay, thank you
20 for those questions.
21 We're going to go to -- to speakers. We
22 have about 25 people. So I really need to ask you to
23 try to be concise and -- and don't go any longer than
24 five minutes. Of course, we want to stay and hear
25 what everybody has to say. But it would help us all

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if -- if you could try to keep it in that window.

And the first four speakers, so that you have an idea of when you're coming up here, we're going to go to -- to Bill Robinson, then Camille Price, Mal McKibben, and Thomas Williams.

So, is Mr. Robinson here? Oh, Mr. Robinson. There he is. All right.

MR. ROBINSON: I'm Bill Robinson from Allendale County, Vice Chairman of the county council.

I'm certainly proud to be here to express our support for the MOX fuel facility at SRS. As we went back and looked at our history, Allendale County has always supported our nation's effort to keep us strong and secure. Now, if you go back 50 years ago--and I think we all can remember--now, this country was called upon to develop one of the most devastating weapon known to mankind. And we did it basically, not because we wanted to be the world powerhouse, so to speak; we did it simply because -- to protect this country. And we did it, also, to discourage the misuse of that most powerful weapon by other nations.

Now, as we look today, to me the scenario is the same. We have different players. In fact, we have more players. The technology for weapons of mass destruction is available to any nation. And what's

1 scary, weapon grade plutonium, the supply is
2 plentiful. I think Russia looked at it, extended a
3 hand to us to come and help. Again, I think we see
4 our nation's security at risk..

5 We support the MOX initiative, simply
6 because we feel what we face today is as great as what
7 we faced 50 years ago. I thank you.

8 MR. CAMERON: Thank you very much, Mr.
9 Robinson.

10 And we're next going to go to Camille.
11 Camille Price.

12 Is Camille still here?

13 (No audible response)

14 MR. CAMERON: Okay. Mr. McKibben. Mai
15 McKibben.

16 MR. MCKIBBEN: Thank you very much.

17 My name is Mal McKibben, and I'm a native
18 of North Augusta and have an office over in Aiken as
19 Executive Director of Citizens for Nuclear Technology
20 awareness, CNFTA.

21 We are the nation's largest citizen-based
22 pro-nuclear education group with about 2,400 members.
23 We strongly support the pit disassembly and conversion
24 facility and the MOX facility, and we have been
25 encouraging that for a long time.

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However, when we look at the -- the draft environmental impact statement, we do find quite a number of inadequacies and quite a number of flaws. I'm only going to talk about one of those tonight, but in the written statement I'll address some of the others, which have to do mainly with the lack of sufficient data so that you could analyze it.

The guidance that is given to NRC -- by NRC and DOE to the people who write environmental impact statement and who are required to evaluate accidents says that those accidents should be reasonably foreseeable. Unfortunately, it doesn't tell you what that is. Is that -- is that a once-in-a-million-year frequency for that accident, or is that a once-in-a-billion-year frequency for that accident; or is that once in a trillion? You know, the earth's only a few billion years old, so I'm not quite sure how silly we want to get with that.

But the hypothetical accident in the draft EIS is a fire that takes place in a plutonium glove box in the pit disassembly and conversion facility. There is also one in the MOX plant that I just saw tonight, I guess, for the first time. But it assumes that the fire in that plutonium cabinet or glove box gets out of control; it releases tritium and plutonium

1 from its glove box confinement. The tritium and
2 plutonium are soon to be expelled out of the
3 ventilation stack of the building. And some fraction
4 of that, then, gets disbursed and deposited on
5 farmers' products that are intended to be eaten by
6 people and not animals.

7 And then it further assumes that those
8 products are eaten 100% by people with 100% of that
9 radioactivity still on it. And it goes out for 50
10 miles. And it contains both a tritium component and
11 a plutonium component, but unfortunately the EIS
12 doesn't give you enough data to figure out how much of
13 each one.

14 The scenario contains a lot of
15 uncertainty. And it is CNTA's opinion, based on what
16 we've looked at so far, that this pathway through the
17 food chain simply is an accident scenario that does
18 not meet the reasonably foreseeable criteria. And I
19 want to talk a little bit about why we think that is
20 so. And also we don't believe that the fluid pathway
21 should be considered or put into the final
22 environmental impact statement for that reason. It is
23 not a viable or reasonably foreseeable incident.

24 The scenario, as I said, has a lot of
25 unreality. Let me go through some of that reality,

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1 just quickly. First of all, the fire -- for the fire 82
2 to occur is a very unlikely event, for just a little 83
3 fire to start. During -- just a little history might
4 be of value here. In the 1950s and 1960s, when we
5 were starting up plutonium processing facilities here
6 and in other places around the country, there were, in
7 fact, some fires in plutonium processing facilities.
8 They were small. And they taught us a lesson. They
9 taught us why they happened, and we made changes to
10 the design as well as to the administrative controls,
11 to keep those from ever happening again. And -- and,
12 by golly, it worked. We haven't had anymore since
13 then.

14 But one other thing that happened that --
15 that is more important and more relevant to the -- to
16 the DEIS that we're talking about, in 1957, and again
17 in 1969, serious fires occurred in plutonium glove
18 boxes in Rocky Flats in Colorado. Now, these were
19 glove boxes that were connected in a train, one glove
20 box connected to another. And these glove boxes
21 contained a number of combustible materials, including
22 they were made -- some components of them were of
23 wood. And the glove boxes today are designed quite
24 differently. They're made of stainless steel. And
25 the amount of plutonium and the amount of combustibles

1 in a glove box is strictly limited by procedure and
2 requirement.

3 At Rocky Flats there was no fire
4 suppression system and there were no fire barriers
5 between the glove boxes. Today there are fire
6 barriers and there are fire suppression systems. The
7 Rocky Flats glove box ventilation system pulled air
8 from one end of the train all the way down through,
9 and exhausted on the other end. It spread the fire
10 very quickly from one glove box to another. Today we
11 have each box ventilated separately, and barriers
12 between them.

13 But not only that, these glove boxes in
14 question, both in the PDCF facility and in the MOX
15 facility, are inserted. There is no air there for
16 combustion to take place.

17 MR. CAMERON: Mr. McKibben, can you sort
18 of summarize for us.

19 MR. MCKIBBEN: Okay.

20 MR. CAMERON: We really appreciate your --
21 your comments, but if you could -- could finish it.

22 MR. MCKIBBEN: All right, I'll rush
23 through it real quick.

24 MR. CAMERON: All right.

25 MR. MCKIBBEN: Those fires, which were far

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84

1 worse than any fire that we could have today, had an
2 interesting result that is relevant to this draft
3 environmental impact statement. In one of those fires
4 no plutonium left the facility, left the building. In
5 the other one, there was a breach by the fire of the
6 -- of a filter, and there was a small amount that got
7 outside the building, but none of it could be detected
8 more than two miles away. My point there is that
9 because plutonium is not a volatile component, it is
10 very dense, heavier than lead oxide, it does not
11 migrate easily. So it stays put. So, assuming that
12 plutonium is going to be scattered for 50 miles and
13 land on farm products is not reasonably foreseeable.
14 Let me just quickly summarize, then, and
15 close this out. The tritium in this accident would,
16 indeed, go up the stack. It would, indeed, be
17 deposited. But I think the amount that is assumed to
18 have -- to be there and the amount that is assumed to
19 deposit is grossly in excess of what it would be in
20 reality.

21 But there are a lot of -- several other
22 assumptions here in this that don't come close to
23 reality. One of them is that the -- this only occurs
24 -- or this will occur when the food is ripe and ready
25 to pick. Now, that's interesting. But the tritium,

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1 if it landed any other time, would dissipate and not
2 be in the food. It exchanges with the water vapor in
3 the atmosphere and it evaporates as water. It assumes
4 there's no rain before it's picked, because that would
5 wash it away. It assumes that -- that food, once
6 picked, is not washed by the packing house, by the
7 wholesaler, by the retailer, by the housewife. At
8 least in my house, that probability is zero. It also
9 assumes that the food is eaten immediately, because if
10 you sit it -- leave it sitting around in your
11 refrigerator for a while it will evaporate and go away
12 and there won't be any of it there.

13 Finally, and most importantly, it assumes
14 that the government would not collect that
15 contaminated food so that people couldn't eat it.
16 Now, what do you think the probability of that is?
17 Bottom line is, this is a hypothetical accident that
18 was not occur, cannot occur, and it shouldn't be
19 included in the draft EIS.

20 Thank you.

21 MR. CAMERON: Thank you very much, Mr.
22 McKibben. And we'll look forward to your -- your
23 written comments on this.

24 Is Mr. Williams -- Thomas Williams . . .

25 Hi, Mr. Williams.

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1 MR. WILLIAMS: My name is Thomas Williams,
 2 and I'm from Barnwell, South Carolina. Chairman of the
 3 Barnwell County Council.

4 The Barnwell County Council has passed a
 5 resolution in support of the new MOX facility being
 6 built at the Savannah River Site. Some of us have
 7 reviewed the Nuclear Regulatory Commission's draft
 8 environmental impact statement on the MOX facility,
 9 and believe NRC's preliminary conclusion that the
 10 facility should be constructed is the right
 11 conclusion. We feel strongly that the MOX facility
 12 can be constructed and operated safely and efficient.
 13 The companies involved are known expert in the nuclear
 14 arena (sic) and has many years of experience. In
 15 addition, the facility will be regulated by NRC.
 16 NRC has federal responsibility to insure
 17 the nuclear facility is designed and operated safely,
 18 with no current or future danger to the public or the
 19 environmental. This independent regulatory oversight
 20 should give the public confidence.
 21 After almost a year of study and
 22 evaluation of the MOX facility, NRC says the benefit
 23 of MOX facility outweighs the disadvantage. The
 24 biggest benefit is to the world to get surplus weapons
 25 grade plutonium out of harm's way, out of circulation.

87

1 This facility should be built. There is no major
 2 impact to the public or the environment from normal,
 3 routine operations. We think moving forward with this
 4 program would help insure a safe environment for years
 5 to come, and we feel that the construction and
 6 operation of this facility at Savannah River Site will
 7 truly be a benefit.
 8 Thank you.
 9 MR. CAMERON: Okay. Thank you very much,
 10 Mr. Williams.
 11 I'm going to -- to assume -- Mr. Mareska?
 12 There was someone who signed in to speak, and there
 13 was just Sierra Club with that. Was that -- was that
 14 you?
 15 MR. MARESKA: That -- that wasn't me.
 16 MR. CAMERON: Was it Mr. Hooker? All
 17 right.
 18 We're going to go to -- to Mr. Hooker.
 19 And amazing coincidence, Don Moniak is right after Mr.
 20 Hooker. And then Richard -- is it Richard Canty?
 21 Okay, we'll figure that out.
 22 Mr. Hooker?
 23 MR. HOOKER: Okay. Thank you for letting
 24 me speak tonight. Appreciate the opportunity.
 25 First I'd like to have this put on record.

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Appendix L

1	MR. CAMERON: Great. Thank you.	88	52-1 cont.
2	(Mr. Hooker hands certain material to the		2 Absence of offsite emergency plan by DCS
3	court reporter.)		3 for any accident scenario -- scenario a severe
4	MR. HOOKER: I'm William Hooker, Chair of		4 oversight. Either compounding the effect of the lack
5	the Savannah River Group of the Sierra Club,		5 of an emergency must be evaluated by the EIS or the
6	representing over 500 citizens of this area. We		6 emergency plans must be present.
7	oppose the MOX fuel fabrication facility, and support		7 The environmental impacts and human --
8	immobilizing of plutonium as an alternative. Many		8 human health risks waste management of the PDCF and
9	aspects of the MFFF make it mostly risky, least cost		9 MFFF must be specifically evaluated. Latent cancer
10	beneficial option of plutonium management or disposal.		10 facilities associated with the proposed WSB and all
11	MR. CAMERON: Mr. Hooker, can you just		11 substantial handling and transport are significantly
12	speak up a little bit.		12 portions of the real cost of this mission are
13	MR. HOOKER: This thing -- I can't see		13 minimized in the DEIS. This must be corrected.
14	with my bifocals.		14 With operation data from the PDCF and the
15	MR. CAMERON: Oh, that's one of -- yeah,		15 MFF not currently subject for review, the range
16	I know about that.		16 considered for operational life of 10 to 20 years is
17	MR. HOOKER: Due to the high alert level,		17 huge. The arbitrary use of the ten-year figure is RC
18	all shipments to and from SRS have been halted. That		18 analysis of a default low-end assumption that doesn't
19	the threat of terrorism inspires this action is		19 offer conservative estimates necessary to protect
20	commended. The highlights -- this highlights the DEIS		20 human health. A 20-year figure for operating life
21	deficiency is not addressing a terrorist or sabotage		21 must be used in estimating dose and risk cost benefit
22	set of action scenarios. Dose and risk cost benefit		22 analysis.
23	analysis must be evaluated for PDCF, MFFF, WSB,		23 DOE has a very poor history of caring for
24	plutonium transport to and from the site, and offsite		24 those American citizens it has exposed outside
25	fuel transport for terrorism sabotage accident		25 possible military, and that's questionable. And

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90
 1 that's from -- from me. The NRC has the opportunity
 2 now to require that -- that proper care be taken to
 3 prevent or mitigate any harm or expenses to the
 4 stakeholders.
 5 I'm going to give a couple of examples --
 6 examples of fraud committed and covered up of exposure
 7 to subcontractors and employees to heavy metals,
 8 tritium, by DOE-Savannah River and its contracts to
 9 the Savannah River Site is clearly shown in both my
 10 congressional investigation I have, and the following
 11 information submitted tonight with -- which will show
 12 that they are still -- Savannah River Site is still
 13 covering up and committing fraud. The information
 14 submitted tonight is -- was sent to Dr. J. J. Stucker,
 15 who is over the governor's Nuclear Advisory Council in
 16 Columbia, South Carolina, certified receipt #7002 0510
 17 0000 0205 2433, which includes an Email concerning
 18 USCA reading room material being removed, Freedom of
 19 Information Case #VFA-0749, a final replay from DOE
 20 letter dated July 30th, 202 (sic), concerning my
 21 freedom of information from DOE-Savannah River. Work
 22 clearance permit signed on 2/22/1999, at 12:00, by
 23 Westinghouse manager not identifying any hazardous
 24 material in Four Mile Creek, from -- a reply from GSDL
 25 hair analysis from three employees of Georgia

91
 1 Bowhunlers Supply Company, information from ATSDR
 2 concerning toxins: antimony 125 and 145, nickel,
 3 arsenic, and mercury. The last item is a claim of
 4 lien filed under miscellaneous Volume 1107, Page 281,
 5 on 1/9/02 in the RMC office, County of Aiken, South
 6 Carolina.
 7 The draft report NUREG-1767 clearly shows
 8 additional exposure path examples. We trusted
 9 Westinghouse and the Department of Energy at the
 10 Savannah River Site to tell us what we had been
 11 exposed to from 2/10/1992 through 12/31/1999 while
 12 working in high, medium, and low risk sites at the
 13 Savannah River Site unprotected, and they -- all they
 14 could do was laugh and make jokes out of what we had
 15 been in while we were working for the U.S. Forestry
 16 Service, slash, Savannah River Institute on 3/20, 21,
 17 22, and 2000 -- of the year 2000, during a NIOSH
 18 investigation. Lie and coverup is the name of the
 19 game at Savannah River Site, and safety and health of
 20 the employees or the general public is not the
 21 interest. How can we trust the prime contractor and
 22 its partners, let alone the U.S. Department of Energy
 23 now with anything such as a MOX facility at the
 24 Savannah River Site?
 25 I included those three samples from -- for

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1 the analysis from the three individuals. And I'd also 92
2 like to say that I've -- I have eight dogs. Five of 93
3 them's been on the Savannah River Site; three of
4 them's not. The three that I have at the house,
5 alive; the five that worked on the Savannah River
6 plant is dead. I have -- I have these dogs that used
7 at the Savannah River Site, all these dogs are also
8 dead. And I believe it was from the exposure they
9 received from hunting them in these active waste sites
10 listed on the EPA Drawing GCO-1999, rev. no. Five area
11 Savannah River Site approved 4/6/1999 by Ed Campbell.
12 BSRI environmental -- this is the same units as EPA
13 drawing, except BSRI environmental management has
14 ranked the units -- numbers and units name risk
15 factors as low, medium, and high. These records also
16 show the Unit 29, Hp-52 pond as high risk, and per
17 Westinghouse presentation to NIOSH that was printed by
18 -- was presented by Sandy Hunan and Steven Johns, both
19 Westinghouse managers, that also committed fraud on
20 3/20/2000 to NIOSH.
21 MR. CAMERON: Mr. Hooker, you may want to
22 give us those numbers in -- in writing and just....
23 MR. HOOKER: They right there.
24 MR. CAMERON: ...give us your substantive
25 point. But could you try to wrap up for us now?

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94 portion of your request and found no
1 responsive documents to your remaining
2 request numbers 2 through 12. Also,
3 regarding these non-existing records, the
4 freedom of information does not require
5 compensation (sic) or creation of record
6 for purpose of satisfying a request for
7 records. Therefore, SRS does not -- did
8 not locate any responsive documents to
9 your request or what caused the
10 failures."

11 MR. CAMERON: And, Mr. Hooker, are you...
12 MR. HOOKER: I'm through.
13 MR. CAMERON: That's it?
14 MR. HOOKER: Yeah.
15 MR. CAMERON: All right.
16 MR. HOOKER: Yeah, I -- I submitted...
17 MR. CAMERON: And you've got this for the
18 record? Great. Thank you very much, Mr. Hooker.
19 [Applause.]
20 MR. CAMERON: And we're going to -- we're
21 going to go to Don Moniak now, and then we're going to
22 hear from Ed Presnell.
23 MS. CARROLL: Are you going to explain
24 your crack about the "by coincidence thing"?

95
1 MR. MONIAK: Yeah, that was a crack.
2 MS. CARROLL: What does that mean?
3 MR. CAMERON: It wasn't a crack. It was
4 just that the next name on the list was Don Moniak.
5 MS. CARROLL: And you were standing right
6 next to him?
7 MR. MONIAK: By coincidence.
8 MR. CAMERON: Yeah. I mean, it's on the
9 list. I mean, you can look at it.
10 Don, go ahead.
11 MR. MONIAK: I'll let you go. Just a
12 second.
13 My name is Don Moniak, and I'm here
14 representing the Blue Ridge Environmental Defense
15 League on behalf of Janet and Lou Zeller, who couldn't
16 make it tonight. Janet had replacement hip surgery
17 this week.
18 Want to talk first about risk. It's
19 probability times consequences. Consequences are
20 economic and cultural. The stigma attached -- the
21 stigma attached to the consequences of a radiological
22 accident are difficult to measure, but they have to be
23 addressed. This was raised repeatedly in Texas during
24 the surplus plutonium disposition EIS by people who
25 farm for a living. Accidents that may have no
53-1

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96 measurable human impact can put a farmer out of
1 business because nobody wants his product -- their
2 product. That's fact. There are other consequences
3 that have to be considered.

4 The only consequence that's considered in
5 here is latent cancer fatalities. If that is the only
6 health consequence that is going to be addressed, at
7 least say why other consequences are not being
8 addressed, what you know and what you don't know about
9 the impacts of ionizing radiation.

10 There's not much in here about what is the
11 hazard of radiation. We're presenting this chart all
12 the time about what the average natural background is
13 in this country. And Tim was wrong, in that the
14 natural background averages about 290 millirems per
15 year, and it was presented as 360. The 360's
16 including X-rays and things. Not everybody gets X-
17 rays. A Christian Scientist does not get X-rays.
18 Certainly not to my -- I don't get many X-rays. I
19 don't let me dentist X-ray me every time I go in.
20 That is not part of natural background. You need to
21 say what is natural background around here, not what
22 it is at a national level, because around here, at
23 lower elevation, radon levels are low, there's very
24 few basements around here because there are such sandy
25

97 areas. What is it around here? That needs to be
1 addressed in this. And what harm does natural
2 background radiation cause? We know what the benefits
3 are. Without solar radiation we'd be nowhere. Solar
4 radiation, the sun, solar energy is still our number
5 one power source. It just isn't on the grid. It
6 still provides us with almost all of our energy needs,
7 and always has and always will. And when it doesn't,
8 we won't be sitting around here talking about
9 plutonium.

10 What is not in this document is what the
11 radiological impact is. They tell us what the
12 potential radiological dose is, but not what the
13 impact is in terms of concrete measurements, curies or
14 becquerels. Whereas with the chemical hazard we're
15 told concrete numbers. We're told this many tons a
16 year of nitrous oxide or this many tons a year of this
17 or that will be released. But there's no equivalent
18 numbers for radiation impact. So that needs to be put
19 in this.

20 The NRC reported annual air pollutants for
21 select non-rad chemicals and elements at Savannah
22 River Site. And for the affected area they chose this
23 very arbitrary figure of one ton per year being
24 released of a chemical. Well, that doesn't have much
25

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 1 to do with what the hazard of that chemical is,
 2 because at SRS they release quite a bit of mercury
 3 into the environment, but they don't get up to one ton
 4 very often. More like anywhere from 100 to 600 pounds
 5 in the last ten years, which is a lot of mercury.

6 So what you need to do is, in the affected
 7 environment part, is say what kind of impacts are
 8 there, not which chemicals are being released at a
 9 rate of more than one ton per year. There's an
 10 absence of discussion on americium in here, because
 11 americium is the radioisotope that has to be separated
 12 from plutonium in order to make plutonium MOX fuel.
 13 And this poses a risk that's disproportional to
 14 plutonium, in general; and there will be a large waste
 15 stream of americium contaminated material. I asked:
 16 Why not just put all that americium into some smoke
 17 detectors and use it like a product, like we're trying
 18 to use plutonium to recycle. Tell us why that
 19 couldn't be done. What are the hazards of americium?
 20 The units in this document are not
 21 consistent. You go from cubic meters to gallons, back
 22 and forth. I think the liquid radioactive waste
 23 stream should be reported in liters and gallons, like
 24 it has been all along.
 25 Sort of like to get along to the changes

99
 1 that have occurred since January 2000, three years
 2 ago, to this facility when the design cost was \$56
 3 million. Today the design cost is \$171 million. And
 4 I'll bet you that it rises higher than that. The size
 5 of the facility has increased from 120,000 square feet
 6 of hardened space to 366,000 square feet of hardened
 7 space. Essentially, they're building a new canyon out
 8 there that will replace the capabilities of the
 9 existing canyons. That is a huge change from the
 10 Department of Energy's analysis. The amount of liquid
 11 radioactive waste has increased to about 500 gallons
 12 a year, to more than 400,000 gallons per year. And
 13 the decision was based to go forward with MOX instead
 14 of immobilization on this faulty analysis that
 15 occurred. The latent cancer fatalities that DOE said
 16 in a worst case accident, which would be an
 17 earthquake, it was much less risk of an explosion at
 18 a MOX fuel facility back then because it was all dry
 19 processing. They said we wouldn't need to do liquid
 20 processing. Now it's 200. There's a lot of other
 21 changes that have occurred, too. And the Department
 22 of Energy was very dishonest in their analysis.
 23 355,000 gallons a year liquid radioactive
 24 waste. Yeah, that's not much compared to what
 25 Savannah River Site goes through every year. If it

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100 was at a Greenfield facility people would be up in
1 arms. It's still a waste stream that is unnecessary
2 if immobilization was implemented. And it's not a low
3 impact. That's a lot of waste that has to be treated
4 at the effluent treatment facility, and what is left
5 from that is going to end up in the streams of the
6 state and the rivers of the country.
7 The tritium accident, they don't list the
8 number of curries that are postulated to be released
9 in an accident, and don't say what the routine
10 releases will be at the pit disassembly and conversion
11 facility. Three years ago it was about 1000 curies
12 per year tritium being released. That's a drop in the
13 bucket for SRS, because they have released so much
14 tritium over time that an average day at SRS would be
15 an accident at any other sites. Like Lawrence
16 Berkeley, they actually do occurrence reports if they
17 release, like, a millicurie. Here a millicurie is
18 just nothing.
19 The non-rad toxins, as I addressed before,
20 SRS currently is permitted to release 253 toxic air
21 pollutants. Approximately 180 of these are permitted
22 only at the consolidated incinerator facility.
23 There's mention of the consolidated incinerator
24 facility in here, but it's not operating right now.
25

101 If it was to operate, the air emissions out there
1 would be much, much higher than as what's been
2 reported. And until the decision is made on that, you
3 need to address that, because then the current impacts
4 at SRS are higher than what is being said.
5 Why MOX? This is a political issue. This
6 is a political decision here. The sole justification
7 for this project is the U.S.-Russian agreement. The
8 NRC did fail to address the status of the agreement.
9 And as we know, as we speak, George Bush is
10 antagonizing Russia by accusing them of providing
11 military aid to Iraq, and Russia is accusing us of
12 many other things. Vladimir Putin is a tyrant. He's
13 just another communist, tyrant, authoritarian, bad
14 person who cannot be trusted. Things are going
15 downhill. And to move forward on this project without
16 -- while pretending that things are just steady and
17 we're getting along with Russia is crazy. Russia's
18 Minatom is described as the last -- as the stronghold
19 of the last regime, the most conservative elements
20 within Russian society. Russian people despise
21 Minatom. 80% of them generally vote against new
22 nuclear projects. Minatom is an autonomous rogue
23 agency that hopes to export plutonium fuel if they get
24 an infrastructure to build it. And their trading
25

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1 partners are Iran, Pakistan, generally the ones that
 2 are on our export control list.

3 MR. CAMERON: Don, could you sum up for
 4 us?

5 MR. MONIAK: Yes.

6 The final issue is that I asked about the
 7 foreign ownership and control and influence. And this
 8 is a French project. This project primarily benefits
 9 the French government at this point. Now, whether
 10 that's right or wrong is irrelevant. The French -- if
 11 anybody is to do the MOX, the best person for it's --
 12 best company for it is Cogema, because we certainly
 13 don't want BNFL to do it with their falsified quality
 14 assurance data and an inability to get an plant
 15 license there.

16 However, France is now on our enemy list,
 17 essentially. We're boycotting French kissing, French
 18 fries, everything but French nuclear fuel. And this
 19 is controlled by them. I don't know how they arrived
 20 at the conclusion that this was not a French-run
 21 operation. Chairman Richard Meserve of the Nuclear
 22 Regulatory Commission, a year-and-a-half ago, was
 23 lobbying Dick Cheney and the Congress to remove
 24 foreign ownership and control rules, weaken them and
 25 lessen them. This is in a letter he wrote. This is

53-10
cont.

1 before the world started to change.
 2 The Atoms for Peace is the biggest
 3 casualty of this war in terms of political situation.

4 If the UN is irrelevant, then the IAEA is irrelevant,
 5 then the NRC is irrelevant when it comes to this
 6 project. Because this project is an international
 7 verification and inspection project. It's not all
 8 about making power. And if you don't address the non-
 9 proliferation impacts and say to the Congress, as an
 10 independent agency, things have changed. DOE's
 11 analysis might have been okay. Then you're not doing
 12 your job. You have a responsibility just as a
 13 government employee to do this.

14 Thank you.

15 MR. CAMERON: All right. Thank you.
 16 [Applause.]

17 MR. CAMERON: Ed Presnell.
 18 MR. PRESNELL: Thank you.
 19 My name is Ed Presnell, and I'm the
 20 President of the Augusta Metro Chamber of Commerce.
 21 The Augusta Metro Chamber of Commerce,
 22 with member businesses from across our two-state
 23 community, supports the MOX project. Our chamber has
 24 followed the progress of the project since the
 25 beginning. And with the release of the Nuclear

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104 Regulatory Commission's draft environmental impact
1 statement stating minimal environmental impacts, we
2 believe NRC should issue a license for construction,
3 and eventually for operation of the MOX facility.
4 Aside from being the right thing to do for the safety
5 of our planet, support of this international effort
6 will have the side effect of great economic benefit
7 for our community.

8 We believe any concerns of safety have
9 been answered. The safety of the process and the
10 facility, itself, has been evaluated for years by many
11 different groups. Every conclusion is the same. The
12 MOX facility can be constructed and operated safely
13 with minimal impacts.

14 With the question of safety satisfied, we
15 now hope that our citizens can now recognize the
16 economic boost the MOX project will have in the
17 regional economy. When focusing on some of the
18 numbers listed in the draft EIS for the construction
19 and operation of the MOX facility and its associated
20 facilities, the pit disassembly and storage facility
21 and the waste solidification building, it's easy to
22 see the positive impact.

23 For example, in the peak year of
24 construction, 1,820 workers will be required for the
25

105 proposed action. On average, 1,000 jobs will be
1 created for the proposed facility. During operations,
2 1,260 employees will be required each year. Income
3 for workers during construction will be \$350 million.
4 Income during operations will be over \$600 million.
5 The proposed facilities will produce approximately
6 \$110 million in tax revenues from state income and
7 sales tax. And finally, the proposed facilities will
8 produce \$1,850 million for gross regional product.
9
The Central Savannah River Area will be
10 proud to be home for the mission to reduce weapons
11 plutonium. This project is one of great importance to
12 the security of the world. That reason alone should
13 be enough to see this MOX succeed. But it is also
14 positively impacts (sic) the CSRA in more ways than
15 expected. It shows that by doing the right thing and
16 supporting our country, our citizens will receive
17 benefits they never expected.
18
The Augusto Metro Chamber supports the
19 licensure of the MOX facility, and looks forward to
20 both the global safety and local prosperity that it
21 will create. Working together, the Central Savannah
22 River Area and the Department of Energy are making the
23 world a better place.
24
25 Thank you very much.

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106

MR. CAMERON: And thank you, Mr. Presnell.

Is Richard -- is there a Richard Cantly?

All right, Reverend Walker. And after Reverend Walker, Mary Kelly.

MR. WALKER: Good evening. My name is David Walker. I am President of the Aiken Branch of the NAACP, and I'm the Regional Coordinator for Region 2 of the NAACP which include the branch in North Augusta, Wagoner, Salley, Edgefield, and Saluda.

I am here tonight to state that the NAACP still fully support the MOX facility at Savannah River Site. After seeing the draft environmental impact statement released by NRC, I've noted a few things. One is that in their report the NRC has stated that they would most likely issue a construction license to DCS. I think that NRC feels that they are doing this because they have some degree of confidence in DCS.

While we continue to support the MOX facility, we are awaiting the corrected EIS statement from NRC to compare that statement with the statement from DOE and from DCS. We feel that our support is necessary because one of the economic impact that it will have in this area. While there are some concerns regarding the environmental justice portion of the EIS statement, we will review all three EIS statements and

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1 submit a written report prior to the deadline.

2 But we come tonight to say that we

3 unequivocally -- the Aiken Branch NAACP supports the

4 MOX facility. The MOX plant should come to SRS and

5 DOE, and we are expecting DOE, SRS, and DCS to keep

6 its citizen (sic) updated on the plant. Before I take

7 my seat, I am making one request on behalf of the

8 Aiken Branch NAACP. In the past all of these meetings

9 have been held outside of the communities that will be

10 mostly affected should an accident occur. I am

11 requesting at this meeting that NRC, DOE, and DCS make

12 a considered effort to hold a meeting in the African

13 American community, the community that will most

14 likely be affected. But at this time we still

15 strongly support the MOX facility.

16 MR. CAMERON: Okay, thank you, Reverend

17 Walker.

18 We're going to go next to Mary Kelly. And

19 is there a -- is it Charlie Kleiss?

20 Okay, Mary Kelly, and then Charlie.

21 Let's see if we can make sure that this

22 microphone works for you, Mary.

23 MS. KELLY: Thank you. Short people.

24 MR. CAMERON: Yeah. See if -- see how

25 that is. Let's see if we can hear you.

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1 MS. KELLY: Okay. My name is Mary Kelly,
2 and I'm representing the League of Women Voters of
3 South Carolina. Some of what I was going to say is
4 repetitious, but I'm going to repeat anyway because I
5 think it's just so extremely important.

6 We question the wisdom of concentrating so
7 much plutonium on one site. SRS has to be the world's
8 most inviting terrorist target, even without the added
9 plutonium. And as the old saying goes, "Never put all
10 your eggs in one basket." Having such -- so much
11 plutonium in one place also increases the prospects of
12 a criticality accident.

13 We find it difficult to understand how you
14 can justify not including considerations about
15 terrorist acts or criticality accidents in this
16 document. The whole issue of homeland security hasn't
17 been well handled, I -- I think most of us would
18 agree. The public needs to know about the
19 possibilities of such accidents, and be given
20 information that will empower them to do something to
21 help themselves in such an event. There's a great
22 deal of danger in ignorance.

23 In addition, should you be transporting
24 plutonium and uranium around the country in a time of
25 war and international hostility to the United States?

108 Some of that plutonium will be in the form of
1 plutonium oxide powder, a highly reactive and
2 flammable substance. Depleted uranium in the form of
3 gaseous uranium hexafluoride, a nasty substance, will
4 be transported probably from Ohio to a processing
5 plant in Wilmington, North Carolina, where it will be
6 solidified as uranium dioxide and then transported
7 back to SRS.

8 There should be more discussion about the
9 backgrounds of the entities composing DCSW, Duke
10 Cogema Stone & Webster, from the standpoint of their
11 financial stability and history, and their
12 environmental and safety records. It is extremely
13 troubling that one party to this consortium is Cogema,
14 a French company, owner and operator of sites like La
15 Hague that have bad environmental and safety records.
16 It may not be possible to get adequate information
17 about Cogema, since France is far less open than the
18 United States about its nuclear operations.

19 Another point on the subject of health
20 effects. It's really distressing that the study that
21 was underway about the -- the Dosimetry construction
22 project proceeded to a certain point. They had
23 collected a lot of data, organized it and so forth,
24 and then the money was not forthcoming to analyze that
25

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110 data. That project should be completed and the
 1 information made available to all the people in this
 2 community and throughout South Carolina. It is most
 3 important.

5 The other -- another problem that I see in
 6 this DEIS is the weather discussion. You only discuss
 7 five years. It doesn't take into account some special
 8 South Carolina background. On a totally different
 9 kind of project in Columbia, we've been fighting
 10 against a big developer who wanted to put a
 11 development in a flood plane. Well, his information
 12 simply didn't go back far enough on the flooding that
 13 had taken place in the Columbia area. It took
 14 university people and interested people in the
 15 community who could remember or who had fathers and
 16 grandfathers who could remember the fact that there
 17 had been tremendous flooding in the Columbia area
 18 along the Congaree River.

19 The same thing is true with the
 20 possibility of the effects of hurricanes. Now, that
 21 all has by dismissed. But those of us who lived
 22 through Hurricane Hugo know that what happened there
 23 was that the hurricane came in just north of
 24 Charleston and followed the water courses up to
 25 Columbia; then went up the river, the Wateree River,

111 to Charlotte. Charlotte was heavily impacted by
 1 Hurricane Hugo. You really need to have a more
 2 expansive idea of what weather patterns have occurred
 3 in this area and in South Carolina.
 4
 5 You also seem to only be concerned about
 6 the impact on the health of citizens within a 50 to 60
 7 mile radius. Well, if you have a major accident here,
 8 it will cover a far, far greater area than 60 miles.
 9 When Chernobyl -- the accident at Chernobyl occurred,
 10 people in Norway were affected. It just isn't true
 11 that you can consider such a limited area.
 12 Another point has been brought out, and
 13 it's been about the Russian MOX program, which is not
 14 proceeding according to plan. Another factor
 15 involved, according to the Global Security Newswire
 16 that comes out from the -- well, it's the NTI, and I
 17 can't remember what that stands for. But,
 18 nevertheless, they're talking about the difficulties
 19 of adequately monitoring weapons of mass destruction,
 20 including nuclear, in Russia. It just doesn't seem
 21 that this program should be going ahead justified by
 22 what the Russians are going to do, until the world
 23 settles down a little more.
 24 And I appreciate being able to make these
 25 comments, and I hope that will receive -- get to a

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112 satisfactory resolution of this whole issue. But
1 there are just these -- some of these very pertinent
2 facts that are like elephants in the garden. They
3 just aren't going to go away, and you really need to
4 pay attention to them.

5 Thank you.

6 MR. CAMERON: Okay. Thank you, Mary.

7 Next we're going to hear from Mr. Charles
8 Weiss, and then we're going to go to Tom Clements.

9 MR. WEISS: Thank you very much. Good
10 evening. My name is Charlie Weiss, and I am President
11 of the Greater Aiken Chamber of Commerce in Aiken,
12 South Carolina. We represent approximately 730
13 businesses in the region. It equates also to roughly
14 30,000 employees who really depend on a sound and
15 stable economy.

16 I am pleased to see that the NRC has taken
17 into account the substantial economic benefits that
18 the MOX project provide, and the plutonium disposition
19 program in general will offer to our area. I'm also
20 proud to be in a community that has the opportunity to
21 contribute to such an important national mission. SRS
22 and the local community have a long history of such
23 contributions.

24 I am here this evening to convey that the
25

1 Greater Aiken Chamber supports -- support for the MOX
2 project, for what it can do for our country, and what
3 it will offer to our entire region.

4 In the draft EIS, the NRC says it does not
5 see any significant health or environmental impacts,
6 and that the risk to public health is, indeed, very
7 small. With tighter, more stringent federal and state
8 regulatory controls, environmental safety should not
9 really even be considered a factor in deciding the
10 location for the MOX project. It is vital we all
11 remember that the economic boom of the '90s cannot be
12 counted on to sustain the quality of life that each
13 one of us have come to enjoy. MOX, ladies and
14 gentlemen, is not a four-letter word. On the
15 contrary, it equates to improved education, parks and
16 recreation, health care, and other very important
17 attributes that contribute to a well-balanced
18 community.

19 I believe that NRC should make it their
20 final decision to locate the MOX facility at the SRS,
21 and that we, the citizens of the CSRA, should support
22 this program of immense important for the continued
23 safe of continued quality of life (sic) and economic
24 growth.

25 Thank you for allowing me to speak to you

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114

this evening. Very much appreciate it. Thank you.

MR. CAMERON: Thank you, Mr. Weiss.

Let's go to Mr. Tom Clements, now, and then we're going to go to Caroline Rivard.

MR. CLEMENTS: My name is Tom Clements, and I work for Green Peace International based in Washington, D.C., and I represent over two million of our members with offices in about 35 countries worldwide. And I'm a native to this area.

I just want to make some comments on the process. I'm going to submit some written comments about some accident scenarios and other issues, but I just want to hold my comments to a couple more of process and political points.

I found this draft EIS very confusing because it attempts to also present environmental data on two other facilities, in addition to the MOX plant; those being the pit disassembly and conversion facility, and the waste solidification building, which, to my knowledge, DOE has never stated or written publicly that that facility must be built. I've been trying to get answers from DOE about the facility, but so far there has been no response.

I'm also trying to find out if this document is also the environmental impact statement

115

for those other two facilities, and I have not heard the question answered here tonight if this document is going to serve as the EIS for two other major facilities that are going to cost a lot of money and could have substantial environmental impact. One of the facilities is covered in this document to a very minor degree. It was also covered in a 1999 EIS on the plutonium disposition program. But the waste solidification building, to my knowledge, DOE has never done any NEPA analysis on its own. I think there are going to be some legal questions raised under NEPA if this document is substantial enough to stand in for two other full environmental impact statements which must be prepared.

Also, I can't determine now that there's any legal basis for disposing of 34 metric tons in the MOX program, and that's what this document basically addresses. The department has never shifted the plutonium that's being shipped from Rocky Flats from long-term storage into the MOX program. We've been waiting many, many months for a supplement analysis to come out on that. We feel it should be -- that they should prepare a supplemental EIS. So the program right now only has about 27 metric tons in it. With a wave of the pen, they could transfer the plutonium

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48-2
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48-2

48-3

116
1 into this MOX program. But we want to know how much
2 plutonium is coming from Rocky Flats, what the
3 impurities are in that plutonium, how some of it's
4 going to be disposed of if it's not going to be
5 disposed of as MOX. Rocky Flats has -- has clarified
6 that some of this is going to go to Whip. But we
7 don't know exactly what's going to happen to the
8 plutonium that's being shipped from Rocky Flats.
9 Just a couple more things, one related to
10 cost. The cost information presented in the document
11 is very confused and vague. They -- it gives a -- an
12 overall cost to the MOX program of \$3.8 billion, I
13 believe. But it doesn't break down this cost into
14 research and development, construction cost, operation
15 cost. There's a little discussion on the
16 decommissioning cost which gives a range. But the
17 people who wrote the document need to go back and
18 present very clearly what these costs are,
19 particularly given the budget crisis in this country
20 right now and the poor economy, and that \$75 billion
21 was just requested as a down payment on the war in
22 Iraq. The fact the DOE is trying to get \$415 million
23 in fiscal year 2004 is going to draw some attention.
24 The budget is going to be very tight. The \$650
25 million requested for the overall program is going to

117
1 get some scrutiny.
2 We also believe that because of the
3 problems in the budget and the problems that have --
4 some of which have been pointed out with Russia, that
5 this money that's going to building the MOX plant in
6 the United States and Russia could be more efficiently
7 spent in protecting and securing nuclear materials in
8 Russia. There's a dearth of funds going into the
9 program to make sure that all the nuclear materials in
10 Russia are secured, and there's no need to rush into
11 building a MOX plant now--which we're opposed to---in
12 Russia unless the nuclear materials have been secured.
13 And I think that that's going to be something that
14 Congress is going to be watching very closely.
15 I'll submit the rest of my comments in
16 writing. Thank you.
17 MR. CAMERON: Okay, thank you very much,
18 Tom.
19 Caroline Betsy Rivard, and then we're
20 going to go to Brendon Jenkins, and then Dave
21 Cowfer.
22 MS. RIVARD: Good evening. Two weeks ago
23 tonight I was actually in Hiroshima and I visited the
24 peace museum for the first time. And I was startled
25 to see that on a tableau that's there, part of the

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118 museum is a list, half of it's in Japanese and half of
 1 it's in English, listing accidents that have happened
 2 since the dropping of the bombs on Hiroshima and
 3 Nagasaki. And there's only like 21 items listed, and
 4 one of the items mentioned SRS, which I was surprised
 5 about. And it says that in 28 years -- they have a
 6 date on it, 1988. September 30th, 1988. In 28 years,
 7 30 major accidents at the Savannah River nuclear
 8 weapons plant in the United States. I'm not sure
 9 where they -- you know, what information it
 10 says, but it certainly sent a chill up my spine.

11 I disagree with the DEIS, because the
 12 possibility of accidents was not adequately addressed.
 13 One of the related documents mentioned in the DEIS is
 14 the -- this final EIS from the Yucca Mountain -- the
 15 geological repository. And in here they managed to
 16 actually consider this terrorist possibility, and in
 17 -- it says, "In response to public comments, and to
 18 provide further information about accident risk, DOE
 19 analyzed an accident scenario in which a large
 20 commercial jet aircraft would crash into the
 21 repository facilities.
 22 Now, you know, kind of raised the question
 23 in my mind, reading the DEIS, what -- you know, what
 24 probability would they have considered a plane
 25

58-1
58-2

119 crashing into the Twin Towers, or two plane crashes
 1 into the Twin Towers. Is that like highly unlikely?
 2 Not predictable? Not considered? But, anyway, it did
 3 happen. So just wanted to consider that. It says,
 4 "If the accident occurred, the estimated consequences
 5 would include a dose of 4.5 rem to the maximally
 6 exposed offsite individual and a corresponding
 7 likelihood of .0023 that this individual would incur
 8 a fatal cancer.
 9 Anyway, my point is that they were able to
 10 consider that, and I don't understand why -- their
 11 quote is that -- how is it? Will not address -- the
 12 EIS will not address impacts of terrorism because
 13 these impacts are not considered to be reasonably
 14 foreseeable as a result of proposed action -- of the
 15 proposed action of delivering 34 metric tons of
 16 weapons grade plutonium to the SRS plant and
 17 processing it. I -- I think that there's bad
 18 reasoning here. Is not the transportation, storage,
 19 and processing of 34 metric tons of plutonium
 20 reasonably foreseeable -- a reasonably foreseeable
 21 target for terrorism?
 22 And I also disagree with the DEIS because
 23 it does not consider the immobilization alternative.
 24 And if the -- if the object is the disposition of
 25

58-3

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120 weapons grade plutonium, immobilization needs to be considered. Russia's concerns don't really seem to be an adequate reason to not do it. And I also think that adverse economic effects -- I know that everybody is talking about the wonderful economic effects of building and having this MOX plant. I think we need to consider the adverse economic effects of a significant accident on the community.

Thank you very much.

MR. CAMERON: And thank you, Betsy.

Brendolyn, and then David -- Dave Cowfer.

MS. JENKINS: Good evening. And I thank you for this opportunity to speak regarding the draft EIS.

In an -- in an economy that can be described in my community at best as being depressed, I stand to support the growth and development of the economy of the community. This project can represent future jobs, professions, and careers for the youth of my community. This project can represent economic stability to the CSRA. This project can also represent the continuation of missions at the SRS.

But, comma, however, although I am in favor of all of these positive aspects, I have grave concern over the environmental impact portion of the

121

1 draft EIS. Although it's been stated that NRC
2 miscalculated their figures, and that an event is
3 highly unlikely and improbable, there may have been a
4 number of inadequacies found that causes even more
5 concern to me about the concreteness of the data, and
6 if it is likely to change again.

7 I'm also deeply concerned because we as a
8 community, a nation, and now an entire world live now
9 in the land of "what if." We never thought that a
10 space shuttle would explode on liftoff, and we
11 certainly never thought that one would disintegrate
12 upon reentry. I never thought, after having lived in
13 New York a number of years, that the magnificent Twin
14 Towers would be felled, or that the icon of national
15 security and defense would be attacked, or even that,
16 on the other Monday evening, we would have an
17 earthquake in Aiken. But we live now in the land of
18 "what if." And although we can talk all day long
19 about wind patterns and wind shifts, we still remain
20 when it settles, it settles, wherever it settles, in
21 a community of disenfranchised, poor, and minority.
22 One of the Youth at a meeting the other
23 evening pointed out to me, when it was talked about
24 the wind shifts and wind patterns, that we also live
25 on a spinning ball called earth. We are called to

58-3
cont.

59-1

59-2

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122 think critically about putting projects over people,
1 and jobs over lives. I'm deeply disturbed that so
2 much of the time and effort that my organization has
3 spent was challenging the DOE and Westinghouse
4 Savannah River Company about this issue, when both the
5 NRC and Duke-Cogema should have been more forthcoming
6 in their roles that were to be played.

7 I, as well as many of my members of my
8 community and the four or five members of the SRS
9 Alliance that was present at a meeting for the first
10 time ever in a disenfranchised community in Aiken,
11 we're very appreciative for Tim Harris attending the
12 meeting last week with members of that impacted
13 community that is spoken about in that draft EIS. We
14 are also, however, quite disenchanted, and perhaps
15 even insulted, that Duke-Cogema refused to meet with
16 members of the SRS Alliance or, instead -- or even
17 attend that meeting. But, instead, to go hundreds of
18 miles last evening and be present---although not
19 vocal---in Savannah, and present this evening, when
20 the community that is spoken about in the
21 environmental justice portion is not even the
22 community in the faces of those of you that are
23 present this evening.

24 So I don't want to be seen as -- seeming
25

123 as unpatriotic for the questions that I raise that
1 call us to be critical prophets in a time of "what
2 if." I support the efforts of -- of the community, of
3 this project, and of the SRS. You've been very good
4 corporate neighbors that have empowered and impacted
5 the communities around my community and the families
6 of which I serve. But I also am called to critically
7 think and critically look at any issue and any impact
8 that would adversely affect the people that I serve.
9

10 Thank you.

11 MR. CAMERON: Thank you very much,
12 Brendelyn.

13 Dave? And the next three speakers are
14 going to be Glenn Carroll, Ed Arnold, and Ernie
15 Chaput.

16 And this is Mr. Cowfer.

17 MR. COWFER: Yes, Dave Cowfer. I chair
18 the Savannah River Site Retiree Association. I would
19 like to say, first of all, that I and the association
20 I represent strongly support the MOX facility
21 My background, my 40 years in industry,
22 I've been retired three years now. I have worked
23 three-fourths of that under the jurisdiction or
24 actually the regulation of the NRC, and I'm very
25 confident the NRC will do a job -- a good job, an

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124 excellent job on this project, both in the
1 authorization of the construction and operation, and
2 the regulation of the facility once it goes into
3 operation.

125 I believe that the MOX facility can be
4 constructed and operated safely. But I've got a
5 concern about the EIS I'd like to -- some concerns I'd
6 like to mention. Having reviewed the EIS and talked
7 to some independent -- folks independent of the EIS
8 development, I would like to say or make the concern,
9 certainly, that the EIS is very conservative, and it
10 makes some assumptions that I think are incredible.
11 Particularly, and most particularly, on the worst case
12 scenario.

13 I'm concerned that a perception of this
14 kind of evaluation generates in the public eye -- that
15 this kind of evaluation generates in the public eye
16 with respect to perceive dangers at the facility are
17 inflated. I think the NRC's postulating an accident
18 that would breach at least two levels or more of
19 containment, site boundary monitors, and go undetected
20 for a year is just not -- not plausible. The scenario
21 disregards the facility engineering safety features
22 and operating procedures mandated by federal
23 regulations that would prevent this sort of scenario
24
25

1 from even occurring. I've worked at SRS, and I can
2 tell you the redundancy and certainly the safety basis
3 for this facility, like others out there, would --
4 would bear out the fact that this is not a -- a
5 credible scenario.

6 Over the years we've seen opponents of
7 nuclear technology overstate the risks associated with
8 the technology, and certainly we know that the NRC is
9 neither a proponent or a proponent, but they're an
10 objective regulator. I would expect the NRC to be
11 even-handed and not overly -- be overly dramatic in
12 the assessments of that facility. Even if they
13 acknowledge that the assumptions they used are
14 conservative, and if they acknowledge that the --
15 their evaluation does not give credit for protection
16 that we know will be in place to prevent this accident
17 scenario from happening, the statements gets lost in
18 the cloudiness of what's generated in numbers -- we've
19 heard a lot of that discussion tonight -- that fall out
20 of these conservative evaluations. So I would hope
21 the NRC heeds this concern and would insure that their
22 final analysis portrays the risks associated with this
23 program in a proper context.

24 Thank you.
25 MR. CAMERON: Thank you very much, Mr.

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126
1 Cowfer.
2 Glenn Carroll, and then Ed Arnold and
3 Ernie Chaput.

4 MS. CARROLL: Hello. My name is Glenn
5 Carroll. I represent Georgians Against Nuclear
6 Energy. We are intervening in opposition to
7 construction authorization for the MOX facility, so
8 we've been studying it pretty hard.
61-1
9 I'm carrying this image tonight because
10 it's a Native American thunderbird, but it sure looks
11 like a nuclear waste symbol; doesn't it? And I just
12 think -- I put this out here and share it because I
13 really believe that we can finish this business we
14 started. That we can finish with the nuclear genie
15 which we've let out of the bottle.
16 Oh, could I ask you to put Slide 6 up.
17 Thank you.
18 One of the things I want to say is we have
19 something in common. This is our plutonium. If you
20 have ever paid federal taxes, you bought this
21 plutonium. You bought this facility, Savannah River
22 Site, and you're buying whatever we do with this
23 plutonium.
24 I want to celebrate that we are arguing
25 about what to do with weapons grade plutonium. Now,

127
1 this is a really good place to be. It's progress.
2 I request an additional meeting. I didn't
3 quite follow what happened with the revised data you
4 furnished us tonight, but it sounds like we just
5 really could use something -- what you put out next
6 week, and we could really use to review it, and we
7 could really use a public forum to discuss it, because
8 this document is vast, and I really wonder what
9 individual knows everything that's in here. And it's
10 really important. And so I think we really benefit
11 from having a public meeting to hear from each other
12 about it. And I think the minimum is to come to this
13 community, which is going to be the most affected.
14 Okay, I'm sorry, this gets tiresome. I
15 say this every time we come out. There's a basic
16 problem with what we're doing with this EIS process.
17 Can I have your walk-around-with-it mic so that I can
18 use the slides?
19 MR. CAMERON: Are you going to give it
20 back?
21 MS. CARROLL: Did you hear about that?
22 You weren't here. I was beating up DOE that night.
23 Okay. What we have here -- where do we
24 have it? Well, it was kind of an interesting layout.
25 Okay, we're not even discussing a license. Let's be

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1 clear on that. We're discussing construction
2 authorization. This isn't even defined in NRC
3 regulations, so we're pretty much making it up as we
4 go, which sort of leaves it open to challenge. We'll
5 have to see what happens with that.

6 So what you've got here, what we're
7 talking about here is a construction authorization
8 request. We want to consider whether to construct
9 this facility. Now, usually when you consider whether
10 you're going to construct a facility that's up to
11 something like -- Don Moniak said 360,000 square feet,
12 that's going to process is it 27 tons or is it 34
13 tons? I mean, that's another interesting point.
14 There isn't even officially a mandate to consider that
15 kind of plutonium. It hasn't been put in the MOX
16 program yet; right? Okay, so that's interesting.
17 And I heard a man from DOE say something
18 interesting tonight which is, well, you know, the
19 public out here, the people that are litigating this
20 have a record we have to refer to. We have to cite
21 it, you know, and we're beating each other up with our
22 citations out there. But you're saying, "Oh, well, we
23 kind of got the impression, talking to the Russians,
24 that they really don't like immobilization." I mean,
25 put it on paper. We're the public.

128
129
1 And I want to tell you something else.
2 This is our document. This is for us. Now, I love
3 Dave, I love Tim, I love Chip, I like John Hull -- I
4 love John Hull, I like that man over there, Peter.
5 But this is kind of hard to read. Sorry. And I have
6 a basic problem. I mean, one of the main issues GANE
7 is interested in here is the waste issue. And it has
8 been characterized differently in every single one of
9 these really hard to use -- and I want to say this
10 compares very favorably with the SBB EIS, which is
11 like...
12 MR. HARRIS: Do you like it more or less,
13 Glenn?
14 MS. CARROLL: I like it more. But, yes,
15 please convert your waste to gallons. It would be
16 helpful if you'd just use the same table that DCS used
17 unless, you know, you need to differ from it. It
18 would just make it a whole lot easier, because it
19 almost looks like maybe something's being hidden on
20 this waste issue, the way the language keeps changing
21 that we're talking about. Okay.
22 Trying to figure this out. So we got a
23 construction request. This is what we're talking
24 about. And this EIS is going along with this
25 construction request. Now, you notice this arrow

61-3
61-4
61-5

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1 here, this is when this starts. Maybe the layout
2 would be clearer if this box was over here. Okay,
3 now, it says in the EIS that they might give a
4 license, they expect to give a license, unless
5 compelling safety issues would suggest otherwise.
6 But look at this. We're done. We are
7 done. This starts. And this is the main event. I'm
8 here to tell you. This is where the plutonium is. We
9 are not talking about plutonium in this construction
10 thing. We're planning to add the plutonium to the
11 game here. But we're finalizing this EIS.
12 Now, there's some promise, but it doesn't
13 look binding enough. That's what bothers us. I mean,
14 you have acknowledged this and you have said, "We'll
15 capture it." But you're not bound to. That bugs us.
16 We have a law. We had a hard time getting this law.
17 You know, this little public law, this National
18 Environmental Policy Act that generates a document
19 like this for us.
20 So here you are, you're finishing the
21 safety analysis. And let me tell you, I think it's
22 pretty good. I actually thought the SER finished
23 here, and it was news to me. Here I am litigating
24 plutonium for four years, and I just figured out that
25 there's going to be an operation SER. I think that's

131 really great. But, I'm sorry, your only real solution
1 here, you can either do another EIS or you can extend
2 the EIS. But you cannot construct this facility until
3 you've got this -- until you've got this review and
4 you've done the EIS on it. That's how we're reading
5 NEPA. And so I've clued you in.
6 MR. CAMERON: I wish I could be as
7 dramatic as you are with this thing. And, Glenn, I
8 got to -- you know, if you can just...
9 MS. CARROLL: Hurry up?
10 MR. CAMERON: Yeah, because we -- we have
11 a lot of people who want to -- want to speak, too.
12 MS. CARROLL: Okay, the next thing we'd
13 like to talk about, then, and I'll touch on two
14 topics: immobilization and waste.
15 Your reason for not reviewing
16 immobilization was not accurate. And I actually think
17 you might have been given a bum steer from the DOE in
18 some conversations I had tonight. But Russia declined
19 to immobilization itself, but accepts the United
20 States immobilizing. NEPA requires an affirmative
21 alternative to be analyzed if there's a reasonable one
22 available. And immobilization is reasonable because,
23 unlike storage, it would address the proliferation
24 concerns. And it's positive because, unlike storage,

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13
1 it provides jobs. And, unlike storage, and certainly
2 unlike MOX, would not generate waste, and would
3 actually employ waste.
4
5 And I hear what you say about the
6 vitrification problems. That vitrification facility
7 that's DOE's best success story. And I just really
8 believe we can solve that problem with solvent
9 extraction and ion exchange. That's what we'd like.
0 So we really are going to make a case that
1 immobilization should be analyzed, that NEPA requires
2 it.
3
4 On the waste, we got a problem with the
5 fact that we haven't heard anything from DOE yet on
6 this waste solidification building. There's no
7 budgets. And so we really think the analysis needs to
8 reflect any possible -- you know, a possible outcome
9 that a MOX facility is up and operating and the waste
0 solidification building -- what...
1
2 MR. CAMERON: Okay, Glenn, is that -- is
3 that it?
4
5 MS. CARROLL: Does it for me.
6
7 MR. CAMERON: Thank you very much.
8
9 MS. CARROLL: Thank you. Thank you.
0
1 MR. CAMERON: Ed Arnold?
2
3 MS. CARROLL: We look forward to seeing

1 you again when you come back.
2 MR. HARRIS: Okay, thank you, Glenn.
3 MR. CAMERON: Ed Arnold and Ernie Chaput.
4 And I apologize for obviously running late. And we'll
5 stay and hear everybody. But I apologize for -- for
6 going over.
7 Ed?
8 MR. ARNOLD: Thank you for the opportunity
9 to address our understanding, which I have to say is
10 -- is limited and confused.
11 My name is Ed Arnold, and I'm the Director
12 of the local group of Physicians for Social
13 Responsibility. We have over 500 physician and health
14 care professional members and supporters in Georgia
15 and Alabama. I come here from Atlanta, but we have
16 members in the Augusta area, and downstream we have
17 members in Savannah, as well.
18 This reiterates something I've said in the
19 past at these meetings. I would hope that -- I was
20 pleased to hear that you considered this a public
21 health document. And I would encourage you to think
22 about your visit to your physician. One thing that we
23 always like to do is have enough time with our
24 physician. And we're being told tonight that we don't
25 really have enough time to discuss this fully. So I

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1 would urge the NRC to arrange for appropriate public
2 discussion that won't rush us.
3 Full disclosure is something that you
4 want. Your physician wants it from you; you want it
5 from your physician. This is really confusing. I
6 don't feel as though I have full disclosure from this
7 document. This is -- we're trying to understand the
8 risks, and frankly I don't -- I -- I won't say it
9 again.

10 Let me read something directly from the
11 document that was alluded to a couple of times earlier
12 this evening, just this one example. I'm going to
13 submit more comments in writing, but it's one example.
14 "The EIS will not address the impacts of
15 terrorism because these impacts are not
16 considered to be reasonably foreseeable
17 as a result of the proposed action."

18 Well, how about a range of what might be
19 foreseeable. How about a worst case scenario, which
20 I think most public work is -- is required to provide
21 on a statement like that. Now, for me it doesn't cut
22 it. We were told tonight something more about some
23 kind of a safety evaluation that will be provided next
24 month. Well, what's the public procedure connected
25 with that? And is it part of this? Is it separate

62-1
cont.

134
from this? Will there be public participation once
2 that's released? Will we have an opportunity to
3 discuss it with you all? I -- these are -- this is a
4 big mystery to me.

5 So as someone who works regularly -- I'm
6 not a physician myself, but I work regularly with
7 public health officials and physicians, this document
8 doesn't look like any medical report I've ever read.
9 And I encourage that you make an attempt to step up
10 the standard.

11 MR. CAMERON: Thank you very much, Ed.
12 Mr. Chaput? And then we have two more
13 flights of three, I think. Robert Guild, Peggy Roche,
14 and Darrel Watson, next trio.

15 MR. CHAPUT: Good evening, and thank you
16 for the opportunity to provide comments on the draft
17 EIS work, the mixed oxide fuel fabrication facility.
18 I'm Ernest Chaput, and I am the Manager of Special
19 Projects for the Economic Development Partnership of
20 Aiken and Edgefield Counties in South Carolina.

21 Construction and operation of the mixed
22 oxide fuel fabrication facility is an important part
23 of our nation's international non-proliferation
24 programs. It is important we do all possible to make
25 surplus United States and Russia nuclear materials

62-3
cont.

63-1

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136 unusual for future use in nuclear weapons. We believe
1 the United States should continue to demonstrate moral
2 leadership by expeditiously preparing to make these
3 materials unsuitable for use in modern nuclear
4 weapons. We are pleased that the preliminary
5 conclusion of the NRC staff that the overall benefits
6 of the MOX facility outweighs disadvantages. Unless
7 safety issues mandate otherwise, the action called for
8 is issuance of the proposed license. We agree the
9 proposed facility can be operated safely, and urge the
10 NRC to issue the construction authorization request in
11 a timely manner.

12 We've reviewed the draft EIS, and offer
13 three comments which result in additional support for
14 your primarily conclusion. First, the safety and
15 environmental risks associated with the no-action
16 alternative have been significantly understated.
17 These are comments that we have previously provided to
18 DOE in their -- in their EIS statements on the surplus
19 plutonium disposition. The no-action alternative
20 assumes that DOE's surplus plutonium would remain in
21 storage at seven DOE sites. The DEIS does not state
22 the period of storage, and it appears the impacts that
23 are included therein are near-term and based on
24 maintaining the status quo. We believe current
25 methods of storage are only valid for limited and
1 finite lifetimes. Storage without subsequent actions
2 is not realistic for time frames of 100 years plus.
3

63-1
cont.

1 At some time in the future, action will be required to
2 either repackage or to disposition the stored
3 materials. The no-action alternative should assess
4 the incremental added risk resulting from actions to
5 periodically reprocess and repackage materials in
6 long-term storage; and secondly, actions to eventually
7 remove the materials from storage and prepare them for
8 disposition. You can't babysit this stuff forever.
9
10 Something's going to have to be done with it sooner or
11 later.

12 Second comment. The risk to offsite
13 population in the hypothetical accident is
14 significantly overstated. Again, I don't have the
15 benefit of the revised analysis, but my sense, from
16 looking at the numbers, has not significantly changed
17 as far as the -- the assumptions made.

18 In analyzing the impact to offsite
19 population from a hypothetical tritium release from
20 the PDCF, the draft EIS assumes and calculates a dose
21 by ingestion during a one-year post-accident period.
22 The scenario is simply not possible. An assumption
23 that the South Carolina Department of Health and
24 25

63-2
cont.

63-3

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1 Environmental Control and that the Georgia
 2 Environmental Protection Division would ignore
 3 contamination -- ignore contamination of agricultural
 4 products for one year is incredulous, and it's an
 5 insult to their training, demonstrated performance,
 6 and professional status. The impossible assumption
 7 must be eliminated and the analysis revised.
 8 Third, the DEIS places unwarranted
 9 emphasis on impacts associated solely with the PDCF
 10 facility. And it's also sometimes called connected
 11 actions. I think that's what you called it in your --
 12 in your presentations. The PDCF is not necessarily
 13 solely required to support the MOX facility. The PDCF
 14 has a broad capability support of a variety of storage
 15 and disposition options for surplus nuclear weapons
 16 pits. For example, the PDCF was to have prepared the
 17 plutonium. That was included in the cancelled
 18 plutonium immobilization project. There has also been
 19 discussion that PDCF may convert surplus weapon
 20 plutonium components currently being stored as pits to
 21 oxide for long-term storage. By coupling MOX and PDCF
 22 facilities in a draft EIS, NRC creates the implication
 23 that impacts from PDCF will not occur if the MOX
 24 construction authorization is denied. That is not the
 25 case. PDCF and MOX are two separate actions. And the

138

1 draft EIS should only analyze -- draft EIS for MOX
 2 should only analyze and include the combined accidents
 3 which result from the unique requirements associated
 4 to fabricate MOX fuel. Disassembly of the pit is not
 5 required solely to fabricate MOX fuel, and that's the
 6 primary impact that comes out of PDCF.

63-3
cont.

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cont.

139

1 DOE has previously prepared an
 2 environmental impact statement for the PDCF---that was
 3 a question that was asked earlier--with a finding
 4 that the facility provides adequate protection to the
 5 public and the environment. NRC should not subject
 6 the PDCF facility to NEPA -- to NEPA double jeopardy.
 7 Thank you for the opportunity to provide
 8 comments.

9 MR. CAMERON: Thank you very much, Ernie.
 10 And our next speaker is Mr. Robert Guild.
 11 And then we'll go to Peggy Roche and Darrell Watson.

12 Mr. Guild?

13 MR. GUILD: Good evening. My name is
 14 Robert Guild. I'm from Columbia, South Carolina. I'm
 15 an environmental lawyer by training, but I appear as
 16 a member of the Executive Committee of the South
 17 Carolina Chapter of the Sierra Club to speak in
 18 opposition to the proposed licensing of the MOX fuel
 19 fabrication facility and allied facilities included in
 20 64-1

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140

1 this draft environmental impact statement.

2 The South Carolina Sierra Club has over
3 5,000 members in South Carolina. As you know, we're
4 a national conservation organization with over 100
5 years of history of advocating for the protection of
6 our environment. Our governing body, the executive
7 committee, passed by unanimous resolution last year a
8 statement opposing the mixed oxide fuel fabrication
9 facility as an element in the management of our
10 surplus weapons plutonium, and alternatively supported
11 the pursuit of the now apparently abandoned
12 immobilization program as the prudent and preferable
13 alternative to more safely and appropriately manage
14 this surplus weapons material.

15 We are supportive of the objective of
16 managing this weapons material and converting it into
17 a non-weapons accessible form, but believe the
18 environmentally preferable as well as the security
19 preferable alternative of immobilization is
20 inappropriately not properly assessed in this draft
21 environmental impact statement.

22 My view, NEPA does not -- simply does not
23 permit the Nuclear Regulatory Commission to assume the
24 unavailability of immobilization as is apparently done
25 in order to avoid assessing the cost of the

64-1
cont.

1 immobilization alternative. I won't repeat the I
2 think eloquent observations, quoting from the actual
3 language of the Russian-United States plutonium
4 disposition agreement, which obviously is contrary to
5 the representations made by the authors of this DEIS
6 with respect to the binding character of the -- of the
7 MOX alternative. But, suffice it to say, that
8 regardless, NEPA requires you to assess the costs of
9 that alternative.

10 DOE, even if they are the decision-maker,
11 deserves, and the American public demands a full
12 assessment by the Nuclear Regulatory Commission of the
13 environmental costs and benefits of this action, as
14 well as available alternatives. It's fine for you to
15 say that an alternative has been rejected by your
16 sister agency. It's simply not adequate for you to
17 fail to assess that alternative so that the public
18 will understand that it is environmentally preferable.
19 And we urge you to do that.

20 Several other comments. We like to echo,
21 without repeating, the written comments submitted by
22 the Nuclear Information Resource Service which
23 submitted some useful comments on procedural issues,
24 particularly with respect to the what appear to be
25 segmentation problems with regard to the way the NRC

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141

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1 has chosen to evaluate this particular action; that
 2 is, failing to evaluate the necessary connected action
 3 such as the effects of accident sequences at the
 4 McGuire and Catawba reactors which will be using the
 5 MOX fuel.

6 It simply seems incredible to say that you
 7 used a generic reactor and assumed the consequences of
 8 accidents in generic reactors, when I reviewed studies
 9 that indicate that because of the proximity of the
 10 high population concentration of Charlotte, North
 11 Carolina, to the reactors, out of all in the country
 12 that we've chosen to use as the MOX fuel facilities.
 13 Early cancer fatalities from -- from -- early
 14 fatalities and latent cancer fatalities from beyond
 15 design-based accidents at those very reactors exceeded
 16 virtually every other reactor site in the country
 17 because of the population concentration at Charlotte.
 18 And why you haven't acknowledged that in this -- in
 19 this review is beyond me.

20 Let me touch briefly on a couple of
 21 points. We believe fundamentally at the Sierra Club
 22 that the Savannah River Site should be required to
 23 honor its commitment to the people of South Carolina
 24 to focus principally on its environmental restoration
 25 mission. In conducting the 50-year mission of weapons

142 production at the Savannah River Site, we had turned
 143 the Savannah River Site into literally a national
 sacrifice area. The number of -- of Super Fund sites,
 the number of high level and low level rad waste
 contamination sites are legion at the facility. The
most optimistic version of DOE's views say it'll be
until the year 2025 before we clean up the ground
water contamination at a number of these sites. And
yet this action contemplates a renewed waste
production mission at this facility before we have
completed a satisfactory plan for environmental
restoration of the damage we've already done. That is
simply unacceptable.

14 With respect to environmental justice, the
15 NRC has appropriately complied with the executive
order by at least analyzing the disproportionate
impacts that the credible accident scenarios at this
proposed facility will have on communities of color
and of low income. That really reflects the dynamic
that really has been at work at the Savannah River
Site from its inception; and that is that the people
in this area of South Carolina represent the path of
least resistance with respect to doing what no one
else in the country finds environmentally acceptable.
Is it a surprise that Rocky Flats and its neighbors no

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1 longer will tolerate being responsible for managing
2 weapons plutonium, and instead are sending it to the
3 Savannah River Site in South Carolina?
4 So you've acknowledged the fact that if
5 there is an accident, disproportionate numbers of
6 African Americans and poor people will die. But
7 you've been glib in characterizing the numbers which
8 you claim to be precise about in other regards. And
9 I would strongly urge you, in your DEIS at Section
10 4.3.7.3.3, to not simply give us a map at in grainy
11 terms shows where those concentrations of
12 predominantly African American, low income populations
13 are. But to give us an actual table, as you do in
14 some of the other places when the data supports your
15 action, and tell us how many black people and poor
16 people will die in that accident scenario that you
17 assume. Tell us where they live. Tell us which
18 census blocks they live in, because you know that
19 data. That's the data source that generated the maps.
20 Let's give us the numbers so that the public can
21 transparently see what cost they're being asked to
22 bear.
23 And finally, as I tried to suggest in a
24 question, it's simply unacceptable for you to tell us
25 in this document, which purports to assess the costs

64-5

1 and benefits of a proposed major federal action, and
2 assures us that risks are small and acceptable, that
3 you refuse to put a number on the probability of the
4 accident scenarios that you say will not happen. You
5 just refuse to tell us what that number is.
6 Now, I know EPA, when it says we're going
7 to release dioxin into the environment from an
8 incinerator, will tell you that the chances of a death
9 from cancer are, you know, 1 in 100,000 or 1 in
10 1,000,000. And they'll make an explicit judgement
11 that it's acceptable to expose the population to that
12 level of risk. We should expect no less of the
13 Nuclear Regulatory Commission when they tell us that
14 the risk of an accident at this facility is
15 acceptable, without giving us a value that represents
16 that acceptable risk.
17 And the last point I'd like to make with
18 regard to environmental justice impacts is you
19 acknowledge that more black people and poor people are
20 going to be down wind, essentially, from that plume,
21 from that accident location in the plume exposure
22 pathway. And yet you fail to acknowledge what seems
23 obvious to me, and that is poor people are largely
24 going to be far more dependent on subsistence
25 agriculture and dairy product consumption, the

64-6

64-7

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1 dominant ingestion pathways that you assume in your
 2 cancer risk scenarios, without telling us that in the
 3 EIS. I mean, the fact of the matter is it's very
 4 likely that poor people will be the ones who will
 5 continue to consume the vegetables that they're
 6 growing in their garden or the dairy products that
 7 come from the cow that eats the grass that's exposed
 8 to the deposition of contaminants in the accident.
 9 And you should be explicit about what those enhanced
 10 risks are exposed -- that are -- that those -- that
 11 those populations, communities of color and low
 12 income, are -- are exposed to. One moment, I'll wrap
 13 up.

14 That's all. Thank you very much.

15 MR. CAMERON: Thank you. Thank you very
 16 much.

17 Our next speaker is -- is Peggy still --
 18 Peggy? There's Peggy. And is it -- is it...
 19 MS. ROCHE: Peggy Roche.

20 MR. CAMERON: ...Roche? All right.

21 MS. ROCHE: Thank you for allowing me to
 22 speak tonight. I'm down to just a few remarks. So
 23 one thing I'd like to address is the hearing process,
 24 itself. We ask for more hearings to be held so we
 25 wouldn't run this late. We'd ask for them to be -- I

47-3

1 mean, this is a lovely area with friendly people, but
 2 it's not the most centrally located area in the state.
 3 We'd ask for them to be held in Columbia and
 4 Charleston and other places around the state. And I
 5 think that it would be very advantageous. You would
 6 get a lot more input from the public. And that is
 7 supposedly what you're wanting.

8 One point that I want to make, and one of
 9 the charts in your EIS, it's on the East Coast, the
 10 air flows in a northeasterly direction. But on one of
 11 the charts--and I'm sorry, I don't have the page
 12 number but it is in there--all the air quality
 13 monitoring systems are located in the northwestern
 14 section of the Savannah River Site. So you would be
 15 gathering data from air not affected by the MOX
 16 facility.

17 Then I also made some -- on a couple of
 18 your charts I did your calculations with your formula
 19 for the latent cancer fatalities, and I won't -- in
 20 the interest of time, and I know other people are
 21 wanting to speak. I won't go by them line-by-line.
 22 But the numbers were mathematically astronomical in
 23 the difference between short-term and the one-year-
 24 later.

25 And I want to make mention of the fact

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1 that a MOX fuel processing facility is actually a
2 plutonium breeding facility. That when you -- when
3 you are -- you're actually increasing the amount of
4 plutonium you eventually end up with. Because as
5 uranium that it's mixed with is irradiated by the
6 plutonium, the irradiation of the mixture converts the
7 uranium into plutonium; therefore giving you plutonium
8 that you -- more plutonium than you started out with.
9 Recently there was a tremendous public and
10 official outcry about moving six tons of plutonium
11 into the State of South Carolina. Now you're talking
12 about move 34 metric tons into the state, which is
13 approximately 75,000 pounds of plutonium. Put some
14 perspective on that, the bomb that was dropped on
15 Nagasaki had approximately 20 pounds of plutonium.
16 With today's refinery numbers, it would take less than
17 20 pounds to get more bomb for the buck. And we're
18 talking about 75,000 pounds of plutonium being located
19 in one site here in South Carolina, when it took less
20 than 20 pounds to drop that bomb on Nagasaki.

21 I think more attention needs to be
22 addressed to if there was an accident, how would you
23 deal with it. Talked about a remote way. I don't
24 understand how that would work if you had an explosion
25 or you had a fire. Whatever remote facility was in --

148
1 you know, remote control, whatever, was in the
2 facility, it's going to be fried when they had the --
3 and with plutonium being, you know, much hotter than
4 uranium, it would be much worse than the Chernobyl
5 incident. And the people that went in to shut down
6 that reactor at Chernobyl knew that they would be
7 incinerating themselves when they went in to do it.
8 And so it would be -- it would not be possible to go
9 into a MOX facility physically and do it. You'd be
10 incinerated before you could get to it to shut down
11 the reactor.
12 And any equipment that you had in there at
13 the reactor, the reactor would be so hot that it would
14 be -- we don't have anything that's capable of
15 shutting it down. It would be incinerated. If
16 there's an explosion or fire, then the reactor got so
17 hot that it needed to be shut down, any equipment that
18 we could put in there would be so hot that it wouldn't
19 work. So I would like, you know, to have that issue
20 addressed.
21 And the other thing is -- my last point is
22 the language, the way the language is worded in this
23 really bothers me. "Workers would be monitored as
24 appropriate..." As appropriate to whom?
25 insure the radioactive doses are maintained at levels

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150 as low as reasonably achievable. What is "reasonably
 1 achievable"? You know, a scientists idea of what is
 2 reasonably achievable? To me that leaves a lot of
 3 human beings as collateral damage.
 4
 5 Thank you.

MR. CAMERON: Thank you, Peggy.

And I know it's -- it's late. And perhaps
 7 we can answer some questions after we're done.
 8

Did you want to say something quickly in
 9 summary, Mr. Robinson?

MR. ROBINSON: No, no, no, no.

MR. CAMERON: Okay. All right. Thank you
 12 very much.

Darrell Watson?

MR. WATSON: I just have a few quick
 15 comments. A lot of what I'm going to talk about has
 16 already been said, so I'm going to keep it short.
 17
 18 I've got four main issues with this.

Number one is the transportation of the plutonium.
 19 According to your diagram here, 95% -- this is -- this
 20 is going to be Section 1-8, Figure 1.3. 95% of the
 21 surplus weapons grade plutonium in this country is
 22 located west of the Mississippi River. Now, to bring
 23 in 95% of the plutonium in this country all the way
 24 pretty much across the country to South Carolina I
 25

65-1

think is a very, very bad idea, exposing that much
 1 plutonium to possible interception by exactly the
 2 entities you want to protect this plutonium from
 3 apparently in your MOX program, and that's terrorists
 4 and rogue states. I think that really needs to be
 5 considered. That's 34 metric tons of plutonium.
 6
 7 That's almost 75,000 pounds to move across the country
 8 to our backyard, as it is.

Number two, I think terrorism really needs
 9 to be addressed in the draft EIA (sic). I think
 10 nowadays that's definitely to be something that you --
 11 you'd be completely irresponsible not to include.
 12 That's a facet of our everyday life now, and that
 13 needs to be addressed. It's no excuse for not -- that
 14 not being addressed.
 15
 16 Third topic is, this is an experimental
 17 process. This has been done nowhere in the world.
 18 South Carolina is the test bed for this project. This
 19 has not been done in Russia, this has not been done in
 20 France. This has been done nowhere except in labs and
 21 experimental settings and controlled settings. So
 22 we're going to find out firsthand the consequences of
 23 possible side effects of this.

Also the very last comment I have is I'm
 24 fully opposed to Cogema being involved in this
 25

65-2
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 65-4

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1 project, given their track record in France. Let's
2 see. Matter of fact, they have just a bad track
3 record, especially at La Hague or La Hague
4 (pronouncing), I guess is how you pronounce it, in
5 France. To me it proves that they are an
6 irresponsible company and they should not be involved
7 in this project in any shape or form if this project
8 does go forward. I think that needs to be addressed.
9 There needs to be more transparency in the histories
10 of the countries that are involved in this project.
11 And that's -- that's all I have. Thank
12 you.

13 MR. CAMERON: Okay, thank you, Darrell.

14 We have four speakers, and if I -- I think
15 I've gotten everybody. But if there's someone who I
16 don't have on my list, please tell me. We're going to
17 start with Jen Kato, then we have Tom Howell, Adele
18 Kushner, and Joanne Steele. And I'm sorry if I
19 mispronounced any names.

20 Jen Kato?

21 MS. KATO: I hope I didn't write my notes
22 in the same invisible ink that I wrote my name on that
23 list with.

24 MR. CAMERON: I hope not, either.

25 MS. KATO: Anyway, I'm Jen Kato, and I'm

153
1 a local. I'm with the Georgia Chapter Sierra Club.
2 I represent the Executive Committee of the Georgia
3 Chapter of the Sierra Club. And we represent 14,000
4 people in the State of Georgia; 45% Republican, 55%
5 Democrat. And we have grave concerns about the MOX
6 fuel fabrication facility. We would like to see this
7 entire process canned, and would be more likely to
8 support the immobilization alternative, although we'd
9 just have to see what the figures were that would come
10 out of that.

11 The cost benefit analysis does not include
12 the cost of any accident scenarios for victim health
13 recovery or clean up to public property. This must be
14 corrected. The estimated public collective offsite
15 health impacts for accidentally scenarios are only
16 considered for one year after an accident, and only
17 for the standard man. Any accident would not likely
18 create a uniform offsite dispersion among the
19 population limited to a 160 pound man with effects
20 stopping at one year. The very use -- well, the use
21 of FRG-13 does not consider gender, race, or age
22 differences in response to radiation exposure, and the
23 radiation involved is hazardous for 240,000 years
24 plus, and their effects are cumulative. The DEIS must
25 be corrected to reflect these concerns. Further, an

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154 actual accident may cascade into several of the
 1 scenarios illustrated in the EIS, compounding health
 2 effects. And this must also be considered in the EIS.
 3
 4 And some sections in the back, human
 5 health risk states statistically no fatalities during
 6 normal operations will occur. Yet, according to your
 7 own figures, 50 people -- and these figures I -- I
 8 contest, but I don't have all of the -- I don't have
 9 all the information to corroborate them. But yet you
 10 say 50 people will die by latent cancer fatalities.
 11 And they -- these will only be standard men, of
 12 course, during the 20-year operating period.
 13 Also any impact -- you state any impacts
 14 associated with the transportation of fresh MOX fuel,
 15 including impacts on property values, will be minimal.
 16 Did someone even do an Internet search on this topic?
 17 It doesn't seem like it was very seriously addressed
 18 at all in the EIS, whatsoever, as a cost. And it will
 19 be a cost.
 20 This, as well as transport of plutonium,
 21 will affect populations throughout Georgia, including
 22 property values. This must be just seriously looked
 23 at and evaluated in the EIS. The DEIS has -- has
 24 insufficient detail regarding how these calculations
 25 were arrived at. This has been brought up by several
 66-4
 66-5

155
 1 people. And I think Tim has done a great job trying
 2 to help me arrive at one portion of the calculation at
 3 the region of influence. This prevents corroborating
 4 of human health impacts figures which are important to
 5 a lot of people. For this reason, and because of the
 6 inclusion of the WSB and the PDCF, it makes a document
 7 very, very deficient and suspect, and we need to have
 8 additional and corrected data to evaluate this EIS and
 9 offer comments on it. The distribution of this
 10 additional data must be followed by a lengthened
 11 public comment period and public meetings. Let me
 12 see. Not -- not going to invisible ink.
 13 Well, right now Savannah River Site is
 14 actually curtailing TRU waste from other sites which it
 15 hopes to process -- characterize, process, and
 16 package. The TRU waste generated by your mission will
 17 just accumulate there behind all that other, waiting
 18 to go to Whip. And right now there's a WIR (phonetic)
 19 lawsuit against -- that's halting tank closer at
 20 Savannah River Site. And when you're looking at
 21 133,000 gallons of high level aqueous waste and what
 22 it -- actually 355,000 gallons of low level waste per
 23 year. If something like WIR persists, this -- this
 24 waste will also accumulate. And in general, the human
 25 health facts, the human health impacts have not been
 66-6
 66-7

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1 evaluated with regard to waste in the EIS. And
2 especially not in consideration of the variability of
3 the handling of the waste at Savannah River Site.
4 I have sought to give comments that were
5 not given by other people before, but I do want to
6 stress that I am in -- we are -- the Sierra Club is in
7 complete accord with very large concerns about
8 terrorist activities and that they have not been
9 evaluated at all with regard to any accident
10 scenarios, latent cancer fatalities, costs in the EIS.
11 This is a tremendous oversight. We need another EIS,
12 we need another -- we need to lengthen comment period,
13 and we need more meetings.
14 Thank you very much.

15 MR. CAMERON: Thank you, Jen.

16 Mr. Howell?

17 MR. HOWELL: My name is Tom Howell. I'm
18 from Columbia.

19 I'm concerned about several issues. There
20 are already millions of gallons of radioactive nuclear
21 waste stored in this country. I understand that
22 radioactive liquid waste is highly corrosive, and
23 there have been problems with such wastes degrading
24 their containment vessels. Liquid waste is projected
25 to be produced when plutonium is polished in the MOX

156 process. Do we know how much liquid waste is
66-7 anticipated? Do we know how long it will be necessary
cont. to store this waste? Do we know what the long-term
67-1 costs will be for storing this waste?
157
I understand that U.S. reactors are not
6 designed to handle MOX. I'm concerned about how U.S.
7 reactors will be modified to handle MOX, and how those
8 reactors will be monitored. Will there be independent
67-2 auditing of such a monitoring system? If there might
9 be problems with the reactors that use MOX, does it
10 make sense to build a MOX processing facility?
11 Shouldn't problems with the reactors be solved before
12 a MOX processing facility is approved?
13 a MOX processing facility is approved?
14 I am also concerned about how the MOX will
15 be safeguarded to prevent theft or loss at all points
16 in its processing, use, and storage. Radioactive
17 material has gone astray in the past. Is there an
18 inventory system capable of tracking all the plutonium
19 involved? If so, is this inventory system capable of
20 tracking the other radioactive materials involved,
21 including all waste? Will there be independent
22 auditing of such an inventory system?
23 Thank you.
24 MR. CAMERON: Thank you, Mr. Howell.
25 We have Adele Kushner.

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1 MS. KUSHNER: Thank you. My name is Adelle
 2 Kushner. I represent Action for a Clean Environment,
 3 which is based in Northeast Georgia. We have a few
 4 representatives here. And this is very short, and
 5 you've all been very patient.

6 People in this country expect to trust
 7 their government. After all, it is a democracy.
 8 Under other forms of government people know not to
 9 trust official government statements. Those
 10 governments could be telling lies.

11 In this case, the Nuclear Regulatory
 12 Commission is telling us that there is very little
 13 danger from exposing people to accidentally emissions
 14 produced by a MOX plant. Then it turns out that the
 15 draft EIS contains large computer errors, and that
 16 there would be far fewer than the estimated 400 deaths
 17 in a population living within 50 miles of the plant.
 18 And, anyhow, this was a minority, low-income
 19 community. And furthermore, the new data will not be
 20 available until after the public meetings. But trust
 21 us. We are your democratic government. Would we lie
 22 to you?

23 This reminds me of another campaign also
 24 concerning radioactive materials. Years ago the NRC
 25 told us that a little bit of radioactivity in our

1 cooking pots, our bicycles, our paperclips, our
 2 appliances would not hurt us one bit. The level of
 3 radioactivity would be so low, it would be, quote,
 4 "below regulatory concern," end quote. We found out
 5 there is no way you could tell how much radioactivity
 6 people would be exposed to once they were surrounded
 7 by such little bits, if the little bits were scattered
 8 around randomly. I once adopted a cat that the owner
 9 said was just a little tiny bit pregnant. That cat
 10 produced four good-sized kittens right on schedule.
 11 It is hard to believe that the Savannah
 12 River Site, already the most radioactively polluted
 13 Department of Energy site, would even be considered
 14 for a process that can only produce more radioactive
 15 pollution. Especially when there is an alternative.
 16 Would you rather live and work near ancient tanks
 17 already leaking radioactive nitric acid attractive
 18 only to saboteurs and terrorists, or near glass logs
 19 in which nuclear waste is immobilized, out of reach
 20 for any reuse, providing safe jobs, leaving no mess
 21 behind? How about a real comparison of the pros and
 22 cons, NRC, before a decision is made on this DEIS.
 23 Think about the perils of transporting
 24 plutonium across the country, then taking the MOX fuel
 25 to reactors, all of which subject to accidents and the

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1 possibility of spreading radioactive stuff in city
2 centers and people's backyards. Think of a weapons
3 grade plutonium out there waiting to be grabbed. A
4 conscientious examination of the facts might produce
5 a decision that would restore some of our trust in our
6 government. That is a conclusion devoutly to be
7 wished.

8 Thank you for your patient.

9 MR. CAMERON: Thank you for those

10 comments, Adele.

11 And is it Joanne -- is it Steed?

12 MS. STEELE: Steele.

13 MR. CAMERON: Steele. Sorry. I can't

14 read writing.

15 MS. STEELE: I probably didn't write it

16 well.

17 I'm also a member of Action for a Clean

18 Environment in Northeast Georgia -- in Northeast

19 Georgia. And I work on looking after some of the

20 activities going on at the Oconee Nuclear Power plant

21 which is also a Duke Energy facility. And what -- the

22 phenomenon that is going on is that so many old plants

23 that were only designed to go for 30 years of

24 licensing, or 40 years, are now being relicensed for

25 another 20 years. And they weren't -- really weren't

1 designed to go that long. And there've been problems,
2 and there's been repairs of this part and that part of
3 these plants.

4 So they've got old vessels starting to get
5 new tops on them. And -- and the ways of monitoring
6 these -- these facilities weren't -- weren't designed
7 to look at 60 years of use, and surely weren't
8 designed to look at MOX fuel being used in them. And
9 so the whole MOX program is -- is dangerous to me. It
0 just doesn't make sense. And when you consider that
1 nuclear energy only provides 20% of the energy that we
2 have in our country, and we're going to all of these
3 risks of the unknown with this dangerous fuel, MOX
4 fuel, and the whole development of MOX fuel is
5 questionable, it just doesn't make any sense to me.

6 I'm a mother and I'm a grandmother, and
7 I'm ashamed that our generation is -- and the
8 generation before me is looking at this type of
9 electricity production and the dangers of -- that it
0 -- inherent dangers that it has, that it's leaving to
1 my children and my grandchildren and to their
2 children. And I'm just totally opposed to this. I
3 think we have -- immobilization seems like the best of
4 the worst situations that we've got with nuclear
5 energy and messing with this stuff to begin with. And

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1 so I'm opposed to the MOX fuel facility. I'm in
 2 better support of the immobilization plan. But I just
 3 think this is very irresponsible behavior for the past
 4 50 years, and it's time for it to stop.

5 MR. CAMERON: Thank you, Joanne.
 6 And real quickly, we have Mr. Charles
 7 Utley who is just going to share a brief moment with
 8 us.

9 MR. UTLEY: Good evening. I'm Charles
 10 Utley, and I'm from the (indiscernible) Improvement
 11 Committee. Also I work with (indiscernible) and with
 12 Reverend Jenkins out of Aiken.

13 I just -- I wanted to just say briefly
 14 that let us not forget those communities that are
 15 impacted, and that is those communities in -- and
 16 we've talked about them being socially, economically
 17 deprived. But -- and we talk about wind shifts. And
 18 -- and all of us know how the wind blows because that
 19 even the Bible tells you that, so if you're a good
 20 Bible student you would know which way it's going to
 21 blow.

22 However, I want to remind you that,
 23 irregardless of race, creed, or color, there's -- if
 24 there's a fallout, it doesn't care about any of the
 25 above. But what I do want you to -- not as an NRC or

162 69-2
 cont.

1 regulatory commission, I don't want you to take what
 2 President Bush has said about affirmative action and
 3 apply it to these neighborhoods. And no matter -- I
 4 know Georgia and South Carolina are at the bottom of
 5 our scholastic aptitude tests. But these are human
 6 beings that we're talking about.

7 Thank you very much.

8 MR. CAMERON: Thank you, Mr. Utley.
 9 There's at least one thing I think --
 10 thank you all for your patience and your comments. I
 11 think the NRC got some great, very thoughtful,
 12 specific comments tonight.

13 One thing that we probably should just
 14 emphasize again, and I'm going to ask Lawrence to do
 15 that for us, is -- is that, even though terrorism
 16 isn't part of the EIS, can you tell us how that is
 17 factored in in our evaluation, and just close the
 18 meeting out for us, Lawrence?

19 MR. KOKAKO: Okay. I'd like to -- to
 20 make several comments before I get to that, Chip.
 21 First of all, we are not going to forget
 22 environmental justice. We are not going to forget it,
 23 and we will look into that.

24 A couple of comments. Fuel is accounted
 25 for, by the way, under a materials control and

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1 accountability program. And there is monitoring at
2 the facilities. And that's also part of our
3 regulations.

4 MR. CAMERON: If you could just make sure
5 you get that on the mic. I think it's -- it may be
6 hard to hear you.

7 MR. KOKAJKO: Also the use of MOX fuel is
8 generally considered acceptable. However, before they
9 can even put a lead test assembly in, it has to be
10 evaluated by both the licensee, who wants to do it, as
11 well as us. And unless found to be acceptable by them
12 and they submit that application to us for our
13 approval, it does not happen.

14 Finally, there was two more items. One is
15 the draft environmental impact statement for the -- is
16 for MOX only. It is not for the PDCF or the WSB.
17 That would have to be done separately. That would be
18 another EIS. DOE would have to do another
19 environmental report for that, and that would not --
20 since that is not regulated by the NRC, that would be
21 under their authority.

22 And finally, the security concerns. I'd
23 like to point out that security concerns are going to
24 be considered in the safety review of the proposed
25 facility. The safety review will consider all aspects

164
1 of safeguards, security, terrorist threats,
2 vulnerability assessments. And that will be a
3 determination made by the fuel cycle -- Fuel Cycle
4 Safety and Safeguards Division at the NRC. And I
5 think that's about it, Chip.

6 I would like to point out that Adrienne
7 Lester, is she -- Adrienne. This meeting, by the way,
8 would not have happened if it wasn't for the work of
9 Adrienne Lester. She put on a dynamite effort to get
10 everything and all the meeting rooms and the space
11 here, and I'd like to -- to make a public
12 acknowledgment for her help for the last month or so.
13 [Applause.]

14 MR. KOKAJKO: With that in mind, I have no
15 further comments, Chip.

16 MR. CAMERON: I think we're -- we're
17 adjourned, and thank you.
18 (Whereupon, the hearing was concluded at
19 10:50 p.m.)

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NUCLEAR REGULATORY COMMISSION

UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

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PUBLIC MEETING ON PROPOSED MOX FACILITY
DRAFT ENVIRONMENTAL IMPACT STATEMENT

Title: Public Meeting on Proposed MOX Facility
Draft Environmental Impact Statement

Docket Number: (not applicable)

Location: Charlotte, North Carolina

Date: Thursday, March 27, 2003

Work Order No.: NRC-801 Pages 1-120

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Appendix L

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
I-N-D-E-X												I-N-D-E-X												
<u>SPEAKERS</u>												<u>SPEAKERS</u>												
LINDA ODOM	•	•	•	•	•	•	•	•	•	•	•	MARY OLSON	•	•	•	•	•	•	•	•	•	•	PETER SIIPP	•
MARY OLSON	•	•	•	•	•	•	•	•	•	•	•	PETER SIIPP	•	•	•	•	•	•	•	•	•	•	GREGG JOCOY	•
MARY OLSON	•	•	•	•	•	•	•	•	•	•	•	LINDA ODOM	•	•	•	•	•	•	•	•	•	•	JUDY AULETTE	•
MARY OLSON	•	•	•	•	•	•	•	•	•	•	•	LEW PATRIE	•	•	•	•	•	•	•	•	•	•	MARY OLSON	•
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BILL KEISLER	•	•	•	•	•	•	•	•	•	•	•	CATHERINE MITCHELL	•	•	•	•	•	•	•	•	•	•	MARY OLSON	•
DAVID AYRES	•	•	•	•	•	•	•	•	•	•	•	MARY OLSON	•	•	•	•	•	•	•	•	•	•	GREGG JOCOY	•
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LOU ZELLER	•	•	•	•	•	•	•	•	•	•	•	LINDA ODOM	•	•	•	•	•	•	•	•	•	•	BILL KEISLER	•
LINDA ODOM	•	•	•	•	•	•	•	•	•	•	•	DAVID AYRES	•	•	•	•	•	•	•	•	•	•	LOU ZELLER	•
DAVID AYRES	•	•	•	•	•	•	•	•	•	•	•	LOU ZELLER	•	•	•	•	•	•	•	•	•	•	(Index, cont.d)	•
BILL KEISLER	•	•	•	•	•	•	•	•	•	•	•	BILL KEISLER	•	•	•	•	•	•	•	•	•	•	LOU ZELLER	•
LOU ZELLER	•	•	•	•	•	•	•	•	•	•	•	LOU ZELLER	•	•	•	•	•	•	•	•	•	•	MARY OLSON	•
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P-R-O-C-E-D-I-N-G-S

MR. CAMERON: Okay. Good evening, everyone. My name is Chip Cameron. I'm the Special Counsel for Public Liaison at the Nuclear Regulatory Commission, and I welcome you all to the NRC---that's one acronym we'll be using tonight for Nuclear Regulatory Commission---I want to welcome you to the NRC's public meeting tonight.

And our topic is the draft environmental impact statement that the NRC has prepared to assist the NRC in evaluating the application that we've received from a consortium, Duke Cogema Stone & Webster, better known as DCS; an application to construct a mixed oxide fuel fabrication facility. And it's my pleasure to serve as your facilitator for tonight's meeting. And in that role, I'm going to try to help all of you to have a -- a productive meeting tonight.

And before we get into the substance of the discussion tonight, I usually like to go over some -- some items about the meeting process, why we're here tonight, what the format and ground rules are for the meeting, and to just briefly talk about the agenda.

The agenda does not have a lot of moving

parts, so it's a simple agenda tonight. And in terms of the purpose, one purpose is we want to make sure that we clearly explain what the NRC's process is for evaluating the DCS application, and to also talk about the findings in the draft environmental impact statement, and to answer any questions you have about the process or the findings.

Second purpose and most important purpose is to hear any comments that you might have on the draft environmental impact statement. And it may be that the information you hear tonight from the NRC or any of the other people in the audience will help you to prepare any written comments that you might want to submit on this draft environmental impact statement. And the NRC staff will be explaining in a few minutes what that process is for submitting written comments. But I just wanted to emphasize, anything that you say tonight will carry the same weight as a written comment. We are transcribing the meeting, and your comments tonight will be essentially in writing because they will be on a transcript. It'll be a written transcript. And we will make that available to whomever wants to have that -- that transcript. The ultimate goal is to use the comments that we hear tonight, in the other public meetings, and the written

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6 comments, to -- to illuminate our decision-making on
7 this application.

8 In terms of format, we're going to have a
9 couple of brief NRC presentations to give you
10 background; question and answers from you. I know
11 you'll have questions, and hopefully we'll have
12 answers, good answers. And the second part of the
13 meeting is to give any of you who wish to do so an
14 opportunity to come up to the podium and give us some
15 -- some formal comments. And I think we -- we have a
16 nice turnout tonight, but I don't think that we'll
17 have to worry too much about length of time speaking,
18 but I would like you to hold it to ten minutes, at the
19 most. We were in North Augusta last night. We had a
20 lot of people. And I think we got out of there at
21 11:00. And, although that's -- that's okay with us,
22 we want to hear everybody, in fairness to all of you
23 we would like to make sure that the meeting ends at
24 the time that we had promised it would end. So try to
25 be concise, if you can.

26 And in terms of ground rules, if you have
27 a question, when we get to the question and answer,
28 just signal me and I'm going to bring you -- we don't
29 have our usual talking stick, we have -- I don't know
30 what you would call this, but . . .

1 UNIDENTIFIED: A lapel. 7
2 MR. CAMERON: A lapel mic. Thank you,
3 Mary. A lapel mic. I will bring this to you and get
4 your question, and the NRC staff will answer it.
5 When we go to the formal comments, I would
6 just ask you to come up here to the podium. And we
7 want to make sure everybody gets a chance to speak.
8 And I would ask that only one person speak at a time
9 so that we can get a clean transcript and, more
10 importantly, pay attention to whomever has the floor
11 at the time.
12 We do want to keep it informal and have a
13 discussion with you, so I would just say relax and
14 speak what's on your mind tonight. We have people
15 here from different parts of the -- the NRC. In
16 addition to the NRC staff who are in charge of
17 evaluating this application, we have people from our
18 Office of General Counsel, from our regional office.
19 And after the meeting is over, take advantage of
20 talking to them about any pertinent questions you
21 might have.
22 I wanted to -- to ask Adrienne Lester, who
23 is -- did all to logistical arrangements for these
24 meetings, to just come up and tell us about any
25 logistical details that you think people should know

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1 about.

2 Adrienne?

3 MS. LESTER: Good evening. I would like
4 to you thank you all for coming out tonight. And I
5 just want to briefly go over the information that you
6 picked out -- picked up out on the desk out there.
7 The first thing is the agenda. And behind that you
8 have a facts sheet which tells you what the NRC
9 is, what it does, and also gives you some information
10 on the MOX facility. And behind that is a very
11 important sheet, because it has where you can send
12 your comments to, which are due back by May 14th. And
13 the additional sheets behind that are just a
14 representation of the posters back there. So you can
15 just take that home with you and look over that.

16 The next sheet you should have picked up
17 would be the slides that Lawrence and Tim are going to
18 present tonight. And lastly is the public feedback
19 form. And you can just mail that back to us, because
20 the postage is already on there, or either you can
21 give it back to me tonight.

22 So thank you. And we hope to hear from
23 you very soon.

24 MR. CAMERON: Okay. Thank you very much,
25 Adrienne.

1 Our two NRC presentations are -- first

2 we're going to go to Mr. Lawrence Kokajko, who is
3 right here. And he is the acting Branch Chief of the
4 Environmental and Performance Assessment Branch at the
5 NRC. It's in our Office of Nuclear Materials, Safety,
6 and -- and Safeguards. And Lawrence's staff is
7 responsible for evaluating the environmental aspects
8 of this -- this application. And before he assumed
9 this acting Branch Chief position, he was the -- the
10 Section Chief of something called the Risk Task Group
11 at the agency, which was looking at how risk should be
12 factored into NRC decision-making. He's been involved
13 in the reactor world, the spent fuel world at the NRC,
14 so he has a wide breadth of -- of knowledge that he
15 brings to his present position. And were -- were you
16 a licensed reactor operator?

17 MR. KOKAJKO: A senior licensed.

18 MR. CAMERON: Senior licensed reactor
operator. And Lawrence is going to give you the broad
19 overview on this project, and then we're going to go
20 to Mr. Tim Harris, who is right here. Tim is the
21 Project Manager for the environmental review on the
22 construction authorization application. He's been
23 with the agency for about nine years now. And his
24 expertise is in civil engineering, I believe. And Tim
25

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1 is going to walk you through -- walk us through the
2 findings in the draft environmental impact statement.
3 Those are the two presentations.

4 We also have Dave Brown, right here. Now,
5 Dave is the Assistant Project Manager on the safety
6 evaluation on this construction authorization. And
7 he's here to answer any questions on the -- the safety
8 side of the evaluation. So it's very important to
9 understand that the NRC's review of this application
10 has an environmental component and it has a safety
11 component. And, although our focus is on the
12 environmental tonight, we do know that you're
13 interested or might have comments on the safety side,
14 so Dave is with us to -- to help us out with that.

15 And with that, I'll turn it over to -- to
16 Lawrence.

17 MR. KOKAJKO: Good evening. My name is
18 Lawrence Kokajko. I'm the acting Branch Chief for the
19 Environmental and Performance Assessment Branch in the
20 Division of Waste Management in the Office of Nuclear
21 Materials, Safety, and Safeguards at the Nuclear
22 Regulatory Commission. And I'd like to welcome you to
23 this meeting on the NRC's draft environmental impact
24 statement for the proposed mixed oxide or MOX fuel
25 fabrication facility.

1 I'd like to thank you for taking your time
2 out of your busy day and evening to be here this
3 evening, and we look forward to hearing from you.

4 This meeting is one of a series of meetings---in fact,
5 this is the third one this week---which are designed
6 to inform the public about the draft environmental
7 impact statement for the proposed facility, and to
8 solicit public comment.

9 As Adrienne said, there are several
10 handouts. One is a set of slides, the agenda, facts
11 sheet, and comparison of alternatives, as well as the
12 feedback forms. And we are especially interested in
13 getting the feedback forms from you as well, this
14 evening, besides your comments on the draft
15 environmental impact statement. We would use this
16 information to try to improve these meetings in the
17 future. And you may either hand it back to an NRC
18 staff member. And, once again, could I have the NRC
19 staff members raise their hand. You can give -- give
20 it to one of those people and we will take it back, or
21 you can mail it in the -- back to us. And it's
22 already self-addressed, and postage has been paid.
23 Also, if you'd like a copy of the draft environmental
24 impact statement you may obtain one here. We have a
25 limited number available. And if we run out, we will

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1 mail you a copy. Next slide.
 2 Tonight there will be two presenters,
 3 myself and Tim Harris of my staff. And we've included
 4 our phone numbers and Email addresses. And please
 5 feel free to contact us if you have any questions
 6 after the meetings.

7 As I indicated, the purpose of tonight's
 8 meeting is to get your comments on the draft
 9 environmental impact statement. Before we hear your
 10 comments, we'll provide some information on NRC's role
 11 in the proposed project, and describe the National
 12 Environmental Policy Act and the EIS process, and how
 13 the EIS fits into the NRC's decision-making. Tim will
 14 give an overview of the draft environmental impact
 15 statement, and there will be time to answer some
 16 questions before we begin to take your comments.

17 The proposed MOX facility would take
 18 surplus weapons plutonium and depleted uranium and
 19 make nuclear reactor fuel. Congress, in the Defense
 20 Authorization Act of 1999, gave NRC a role in the
 21 proposed MOX project. Specifically, the NRC has the
 22 licensing authority over the MOX facility, so our role
 23 is to make a licensing decision regarding the safe
 24 operation of that facility.

25 The NRC is an independent government

1 agency, and our mission is to protect the public
 2 health and safety, and the environment, in the
 3 commercial uses of radioactive material. Our role is
 4 different than the Department of Energy's. The
 5 Department of Energy's role in this project relates to
 6 implementing the United States nuclear non-
 7 proliferation policy, including the disposition of
 8 surplus weapons plutonium.

9 The Department of Energy also has a
 10 responsibility to design, build, and operate two
 11 facilities that support the proposed MOX facility.
 12 And these two facilities are the pit disassembly and
 13 conversion facility, also known as the PDCF, and the
 14 waste solidification building, or the WSB. While the
 15 pit disassembly and conversion facility and the waste
 16 solidification building are considered in NRC's
 17 environmental review, it is important to note that
 18 these -- that the NRC does not have regulatory
 19 licensing authority over these two support facilities.

20 That responsibility rests with the Department of
 21 Energy. The NRC only has authority over the proposed
 22 MOX facility.
 23 I'd like to briefly describe the
 24 environmental impact statement process. The National
 25 Environmental Policy Act requires government agencies

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1 to prepare an environmental impact statement for
2 proposed major federal actions such as the potential
3 licensing of the proposed MOX project. An
4 environmental impact statement presents environmental
5 impacts (sic) of the proposed action, along with
6 reasonable alternatives to that proposed action. Note
7 that the bolded areas are opportunities for public
8 involvement in the process, and we consider this a
9 very important part of the EIS.

10 NRC's involvement with the MOX project
11 started when Duke Cogema Stone & Webster, or DCS, the
12 applicant, submitted an environmental report and
13 requested to construct the MOX facility. We published
14 a notice of intent to prepare an EIS in the *Federal
Register* in March of 2001. During the scoping
15 process, the public helped determine what issues would
16 be addressed in the environmental impact statement.
17 We have completed the draft environmental impact
18 statement, and we sent copies to approximately 550
19 people in February.
20 We are currently in the public comment
21 period for the draft environmental impact statement.
22 This meeting is being transcribed, and comments made
23 here tonight will be included in the official comment
24 record. And the last slide that Tim will show this
25

1 evening will show you ways you can submit public
2 comments. We will review and consider the public
3 comments and finalize the environmental impact
4 statement.

5 As I mentioned earlier, NRC's role is to
6 make a licensing decision regarding the proposed MOX
7 facility. I'd like to take some time to describe the
8 licensing process just briefly, and how the EIS we're
9 discussing tonight fits into NRC's decision-making
10 process. First, there are two decisions that the NRC
11 will have to make for the proposed MOX project. The
12 first decision is whether to authorize construction of
13 the facility, and the second is whether to authorize
14 operation of the facility. These decisions are shown
15 in the middle of the slide. The NRC's environmental
16 review is shown at the top portion of the slide, and
17 consists of preparing the final environmental impact
18 statement. The final environmental impact statement
19 will be used by NRC to decide whether to authorize
20 construction, and later whether to issue a license to
21 operate the MOX facility.

22 And I need to point out that the
23 environmental impact statement does not cover
24 everything that would normally be covered in the
25 safety review. For example, response to terrorists

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16 activities, which is a security and safeguards matter,
1
17 is -- would be considered in the safety review, not
2 the environmental impact statement. It is not that
3 it's not going to be considered, it's just that the
4 forum for that will be in the safety review and not in
5 the environmental impact statement.

7 The NRC's safety review is shown at the
8 bottom portion of the slide. The safety evaluation
9 report for the construction authorization request
10 focuses on a safety assessment of the proposed design
11 bases to determine if it meets NRC's requirements.
12 NRC's final environmental impact statement and safety
13 evaluation report for the construction authorization
14 request will be the basis for making a decision on
15 whether to construct the proposed MOX facility. And
16 we anticipate making that decision later this year.
17 Duke Cogema Stone & Webster plans to
18 submit a license application to operate the proposed
19 facility around October of 2003. The safety
20 evaluation report on the operating application and the
21 final environmental impact statement will form the
22 basis for making a decision on whether to allow DCS to
23 operate the proposed MOX facility.
24 I also want to point out that there will
25 be at least -- there will be another opportunity for

1 hearing on the operation of the facility. John Hull,
2 with our Office of General Counsel, is here this
3 evening, and he can answer questions related to the
4 hearing process.

5 To summarize, a single environmental
6 impact statement will be used to support the decision
7 to construct and later operate the proposed MOX
8 facility. And let me also stress, once again, the
9 environmental impact statement has a separate mission
10 than the safety review. And the safety review will be
11 -- will be used to determine if it meets the
12 regulatory requirements as outlined in Title X, Code
13 of Federal Regulations, Part 70.

14 Now, I would like to turn the presentation
15 over to Mr. Tim Harris of my staff. Mr. Harris it
16 lead for the environmental review for the MOX project
at the NRC.

17 Tim?
18 MR. CAMBRON: And Tim is going to cover a
19 lot of material for you. And let's let him get
20 through that material and go for questions. So if you
21 could mark any questions that you have on your -- your
22 view graphs, then -- so that we make sure and get
23 them.
24 Tim?
25

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1 18
2 MR. HARRIS: Thanks, Chip. Thanks,
3 Lawrence.

The document we sent out is a culmination
of approximately two years of effort. And I would
like to provide an overview of that document. It's
quite lengthy, so I'm going to try to focus the
discussion on several issues. And if one of the
issues we don't talk about is important to you, please
ask a question and we can provide some additional
detail.

I'll describe the alternatives that we
analyzed in detail, and also alternatives that we
considered but did not analyze in detail. And then,
as I stated, I'll go through a summary of the
alternatives we did analyze in detail.

To understand how we did, that---that is,
which alternatives we analyzed in detail and those
that we just considered but did not do a detailed
analysis of---it's very useful and helpful to
understand the purpose and need associated with the
environmental impact statement. As we stated in the
notice of intent that Lawrence noted was published
back in March of 2001, the purpose and need for the
MOX facility relates to a larger surplus plutonium
disposition program that, as Lawrence mentioned, is

1 19
2 administered by the Department of Energy. So the
3 purpose and need for this, our draft environmental
4 impact statement, is essentially the same as used by
5 the Department of Energy in its programmatic EIS's for
6 the surplus weapons plutonium disposition program.

The purpose and need relates to agreements
between the United States and Russia to reduce the
threat of nuclear weapons by insuring that those
materials are converted into proliferation-resistant
form. And also to reduce the risk that that plutonium
might fall into the hands of terrorists or rogue
states.

The draft environmental impact statement
evaluates two alternatives in detail. These are the
proposed action and the no-action scenarios. The no-
action alternative would be continued storage of
surplus weapons plutonium at existing Department of
Energy sites. The no-action alternative is used as a
comparison -- as a baseline for comparing different
alternatives.

The proposed action includes impacts from
constructing, operating, and later decommissioning the
proposed MOX facility. And it also considered impacts
of other connected actions that are things that are
closely related to the operation of the MOX facility.

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These would be transportation of various nuclear materials, feed stocks, fresh fuel, spent fuel. And also, as Lawrence mentioned, DEIS includes impacts associated with those two DOE support facilities. And again, those were the pit disassembly and conversion facility and the waste solidification building.

The pit disassembly and conversion facility would take weapons material in a classified form, declassify the form, and convert it from a metal into a plutonium powder. That powder would go to the MOX facility where it would be mixed with depleted uranium in order to make reactor fuel. The waste solidification building would take waste from the proposed MOX facility and the pit disassembly and conversion facility and process that waste. The impacts associated with the proposed action also includes the potential use of MOX fuel in reactors. For the proposed action, we also evaluated differences in using a sand filter versus HEPA filters. The idea of using sand filters was raised at a scoping meeting in North Augusta.

As I said before, the purpose and need is used to determine which alternatives we considered to be reasonable and were analyzed in detail, and those that were not. In addition to siting and technology

options that were evaluated by DCS in its environmental report, several alternatives were raised during scoping, and also at public meetings that we had last fall.

Immobilization was initially considered to be a reasonable alternative. However, following DOE's -- excuse me, the Department of Energy's amended record of decision, DOE believed that an immobilization-only approach would not meet the U.S.-Russia agreements. Therefore, it did not meet the purpose and need, and we did not analyze that alternative in detail.

Deliberately making off-specification MOX fuel was also raised during meetings we had last fall. This alternative involves not removing impurities that are in the -- the weapons plutonium that would make it less useful to use in the reactor fuel. They have to remove the impurities in order to make it useful in a reactor. This alternative would not remove those impurities, so you wouldn't get the waste associated with the removal, and also they would make the fuel, but it would not be used in a reactor. Instead, the off-specification MOX fuel, under this alternative, would be stored at spent fuel pools at existing reactor sites prior to disposal in a geologic

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repository. The impacts of this alternative are addressed qualitatively in the draft environmental impact statement. The monetary costs of the off-specification MOX alternative would be about the same as the proposed action. That is, you would still build the facility. Those costs would still be there. However, the off-specification MOX fuel alternative would generate less waste than the proposed action. However, the benefits would be lower because you would not produce electricity. Therefore, the off-specification MOX fuel alternative was not obviously superior to the proposed action. And also, this alternative did not fulfill the U.S.-Russia agreements.

For the proposed action and no-action alternatives, the impacts associated with the following list were evaluated. In order to allow time for public comment, I won't go through the -- the exhaustive list. I'll focus on the impacts on the left, which are human health, air quality, hydrology, waste management, and environmental justice. I'll also talk about the impacts associated with transportation and potential MOX fuel use. And I'll also summarize the cost benefit analysis discussed in

23

the EIS.

First, I'd like to summarize the impacts associated with the no-action alternative. The impacts of this alternatives (sic) were previously evaluated by the Department of Energy, as I mentioned, the programmatic EIS's that they did. They evaluated the impacts of continued storage. And the impacts that are included in our draft environmental impact statement are essentially the same as DOE had previously evaluated.

The information packet that Adrienne mentioned includes tables which shows numerical differences. So if you want to compare the differences for a particular resource area, like how much groundwater would be used or what the air quality impacts would be, you have that information in your handouts. I'll just summarize those quickly. The impacts to the public and workers from this no-action alternative--that is, continued storage--are considered to be low. There would be no significant water quality or air quality impacts associated with this alternative. As you can imagine, if you're storing material in a warehouse or other type of facility, you're not going to generate a lot of air emissions or -- or water impacts. Also, there

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would be no significant waste management impacts or environmental justice concerns.

The next series of slides summarize impacts associated with the proposed action. And again, the proposed action includes the impacts from three facilities: the proposed MOX facility; the pit disassembly and conversion facility; and also the waste solidification building. I've presented the impacts on the slides in terms of increase or decrease relative to current conditions at the Savannah River Site. And again, if you want to see the actual numerical numbers, those are on the handouts. There would be no adverse chemical or radiological impacts during construction. From operating these three facilities, the annual public collective dose would increase by about 11%. But as I'll show in the next slide, we'll put that in perspective. There would also be no significant chemical exposures during normal operations. Thanks.

This slide shows the radiation dose from several sources, and also, importantly, NRC's annual public dose limit. The average annual dose from natural background is about 360 millirem. And a millirem is just a unit of radiation exposure, to kind of give you a benchmark. If you looked at the -- the

important thing to note is NRC's annual public dose limit, which is 100 millirem. And if you -- if you provide context, if you got a chest x-ray you'd receive about six millirem. The annual dose to the public from normal operations of the three facilities would be less than one millirem. So that, while the increase is 11%, it's still less than one millirem. Accidents have the greatest potential consequences of the impacts that we evaluated. Two conservative scenarios were evaluated in the draft environmental impact statement for a number of potential accidents. The short-term scenario assumes that people would be exposed by inhaling contaminant material from a plume that would be generated following the accident. We have also evaluated a long-term scenario. And these would include the impacts from the short-term scenario, as well as potential impacts from eating crops that could become contaminated.

The potential accident impacts are evaluated in terms of risk. The classical definition of "risk" is you take the probability of an event times the consequences equals the risk. In keeping with NRC's mission to protect public health and safety, we want to insure that the resulting overall

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1 risk to the public from an accident is very small.
2 Therefore, events that could have significant
3 consequences are required to be made highly unlikely
4 through design safety features. And I think Lawrence
5 touched on that. With the safety evaluation report is
6 where those safety features are addressed. The safety
7 features are not defined in the EIS. Those are
8 covered in a separate document.

9 In March we notified a number of
10 stakeholders that we had identified an error in the
11 accident consequences that was due to a computer code
12 bug. And we felt it was very important to get that
13 information out to the public in a timely manner. I
14 think I got a phone call on Monday afternoon notifying
15 me of the error, and by Thursday we had sent out a
16 letter to over 500 people notifying them that, hey, we
17 think there's an error. We think the numbers are
18 going to change. We'll provide more information.

19 During our review, we also found an
20 additional error, and that was related to wind data
21 that Duke Cogema Stone & Webster had provided in its
22 environmental report. This error would essentially
23 double the impacts associated with normal operations
24 and potential accidents. However, we reviewed the
25 impacts associated with these errors and determined

1 that they did not change NRC's conclusion or
2 preliminary recommendations. That is, if you double
3 a number that was significantly less than one
4 millirem, that number's still going to be less than one
5 millirem from normal operations, and we didn't
6 consider that to be significant. If you looked at the
7 accident impacts, if you double, say, 10 and get 20,
8 10 is significant, 20 is significant. That didn't
9 change our conclusions that potential accidents have
10 significant consequences.

11 We also promised in the letter that we
12 sent out in March that we would provide you additional
13 information. And hopefully we'll have those errata
14 sheets prepared next week. And those will be mailed
15 out. We're also going to post those on the Web site.
16 Hypothetical events caused the highest --
17 that caused the highest consequences were an explosion
18 event at the proposed MOX facility. For the one-year
19 scenario that I talked about, this would have an
20 estimated result of less than 50 latent cancer
21 fatalities. And then, for the long-term scenario, we
22 estimated less than 200 latent cancer fatalities. And
23 again, these numbers are one significant figure. So
24 the -- the actual impact that was calculated
25 numerically was less, but we reported 200 to be

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28

1 significantly accurate. These estimates for the long-
 2 term impacts do not credit any interventions that
 3 might be taken to reduce long-term exposures from
 4 eating contaminated crops. That is, it's assumed that
 5 the crops are contaminated shortly before harvest,
 6 that the people harvest the crops, eat the crops. So
 7 intervention that would follow an accident, such as
 8 not allowing people to eat crops and other things, are
 9 not credited in our analysis.

10 The probability -- getting back to risk,
 11 the probability of these hypothetical events is
 12 considered to be highly unlikely through preventative
 13 and mitigative features that are being developed in
 14 the safety review. The consequences of these highly
 15 unlikely events are significant; however, the overall
 16 risk---that is, consequences times probability---we
 17 believe is very small to members of the public.
 18 I'll walk through these rather quickly.
 19 Air quality relates to compliance with national
 20 ambient air quality standards for chemical pollutants.
 21 Air quality at the Savannah River Site already exceeds
 22 one proposed standard, which is the particulate matter
 23 2.5 micron or PM 2.5 standard. The proposed action
 24 would increase the PM 2.5 by about 0.1% during
 25 construction, and that's primarily from earth-moving

29

1 activities; and 0.01% increase from normal operations.
 2 Now, as I mentioned, this is a -- a proposed standard.
 3 EPA has delayed implementing the PM 2.5 standard. And
 4 if and when attainment plans are developed by the
 5 State of Georgia and South Carolina, SRS could be
 6 required to reduce PM 2.5 emissions or develop
 7 measures to -- to mitigate those.

8 Surface water would not have a significant
 9 effect -- or surface water would not be significantly
 10 affected during construction through the use of
 11 sedimentation control measures. And there would be no
 12 direct discharges during operation. Waste from the
 13 proposed MOX facility would be managed by existing
 14 Savannah River Site facilities. And discharges from
 15 those facilities are not anticipated to change
 16 significantly as a result of processing this waste.
 17 Groundwater would be used during construction and
 18 operation, and the figures are shown there. But
 19 existing well capacity exists to allow this water to
 20 be used. And it would not have a significant impact
 21 on the aquifer.

22 There would be no significant impact on
 23 the Savannah River Site waste management capability
 24 from processing the waste from the proposed action.
 25 Operation of the three facilities would generate about

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30 300% more transuranic waste than is currently being
31 generated at the Savannah River Site. This TRU waste
1 is planned to be disposed of in New Mexico at the
2 Waste Isolation Pilot Plant. And the volume of the TRU
3 waste that would be generated would be about 3% of the
4 Waste Isolation Pilot Plant disposal capacity.
5
6 Operation of the three facilities would increase low
7 level waste by about 32%, and non-hazardous solid
8 waste by about 60% above what is currently being
9 generated at the Savannah River Site. But, again, the
10 current Savannah River Site waste infrastructure can
11 accommodate these waste volumes.
12
13 In an executive order issued by President
14 Clinton in 1994, it directed federal agencies to
15 address any disproportionate or high adverse human
16 health impacts to low income and minority populations.
17 And this is commonly referred to as environmental
18 justice. The impacts from construction and operation
19 from the three facilities are not high or adverse;
20 therefore, there would be no environmental justice
21 concern associated with operating the facility or
22 constructing the facility. However, due to prevailing
23 wind directions, we believe that there is a potential
24 impact to low income and minority populations in the
25 highly unlikely event that an accident might occur.

31 The risk associated with that accident, as
1 I mentioned, is considered to be very small to all
2 populations. NRC felt it was important to include
3 mitigation measures to help mitigate those potential
4 impacts to low income and minority populations. And
5 those are addressed in Chapter 5.
6
7 Transportation of material was raised
8 during scoping as an important issue to many
9 stakeholders. And the transportation analysis is --
10 the transportation analysis includes shipping the
11 surplus weapons material from the various DOE sites to
12 the Savannah River Site, and also includes shipping
13 depleted uranium from an enrichment facility where it
14 would be converted to a powder form and then go to the
15 Savannah River Site. The analysis also includes
16 shipping of fresh MOX fuel to a generic Midwest
17 reactor. Transport of spent MOX fuel is also
18 discussed generically in the EIS.
19
20 To summarize the impacts, there would be
21 less than one latent cancer fatality from routine
22 transportation to members of the public living along
23 transportation routes, and also to transportation
24 crews. The hypothetical accidents that were evaluated
25 did not result in significant impacts.
25 The potential impacts of -- associated

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32 with using MOX fuel are also discussed generically in
 1 the draft environmental impact statement. The
 2 collective dose to members of the public from normal
 3 operations would be about the same, whether you used
 4 conventional, low enriched uranium fuel, or a mixture
 5 of MOX fuel and low enriched uranium fuel.
 6 We also looked at various design-based
 7 accidents, and found that the risk of developing a
 8 latent cancer fatality, comparing the two fuel types,
 9 ranged from about 6% lower to 3% greater. And we also
 10 looked at beyond design-based accidents, and found
 11 that the risk was about 7% lower to 14% greater. And,
 12 again, it depended on the actual scenario event tree
 13 that was looked at, which is why in some cases the
 14 impacts were actually lower.
 15 We have received an application from Duke
 16 Power to place lead test assemblies in either the
 17 Catawba or McGuire plants. We will do additional
 18 site-specific evaluations before these lead test
 19 assemblies are placed in a reactor. That is, we will
 20 determine whether or not they can be safe -- that can
 21 be safely done. And also, before MOX -- we'll do
 22 additional analysis before MOX fuel is placed in any
 23 reactor.
 24 The draft environmental impact statement
 25

33 includes a cost benefit analysis of the proposed
 1 action on both a national and regional scale. The
 2 cost benefit was used in helping determine staff's
 3 preliminary recommendation. The national cost would
 4 be about \$3.85 billion, and the national benefits
 5 would be the safe use of excess weapons plutonium, and
 6 also employment and income. The regional numbers
 7 include a 15-county area surrounding the Savannah
 8 River Site. And those numbers are provided for your
 9 review.
 10 In conclusion, the impacts of the proposed
 11 action are generally not significant. Accident
 12 impacts from the pit disassembly and conversion
 13 facility and the proposed MOX facility are
 14 significant. However, the probability of such an
 15 accident is considered to be highly unlikely. And
 16 again, that's -- part of our job is to make sure that
 17 those accidents are highly unlikely. Therefore, the
 18 overall risk to the public is considered to be very
 19 small. There is a potential environmental justice
 20 concern should these accidents occur. And we've
 21 provided mitigation measures to do that. Also, we've
 22 been engaging communities around the Savannah River
 23 site to help refine those mitigation measures.
 24 Staff's preliminary recommendation is the
 25

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34 proposed action, again with appropriate mitigation measures to reduce potential impacts in all areas. Before making any decision, NRC will consider comments on the draft environmental impact statement, and we'll prepare a comment summary document, and we'll revise the environmental impact statement as appropriate. That is, comments that you make in writing and here tonight we will review and determine whether or not the analyses need to -- need to be changed, whether we need to consider additional information. And that will be documented in the final environmental impact statement.

When DCS submits an operating license application, NRC will review that application and prepare a second safety evaluation report. NRC will only grant authority to operate that facility if it can be shown to be safe.

The last slide shows ways that you can submit comments, and these are either by mail to Mike Lesser, you can Email me, you can provide comments directly through the Web, or you can fax me. And again, I think our phone numbers are up there if you -- if you have questions. We really want to hear your comments.

And with that, I'll conclude my

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presentations and hope that that was succinct enough, Chip, for a document that was two inches.

MR. CAMERON: Very, very good, Tim. Thank you. Good summary. A lot of material there. Let's go out to you for -- for any questions that you might have about the presentation. And I'm going to go back here, and then I'll come up front. And if you could just, again, give us your name and affiliation, if appropriate.

MS. ODOM: Okay. My name is Linda Odom. I have no affiliation other than I'm from the Savannah River Plant area.

I wanted to ask you, all the accidents, potential hazards that you have used are hypothetical. Why not look at the actual accidents, like I said to you earlier? When you were talking about the radioactive millirem that people are exposed to, in 1973 the accident from the Savannah River plant, it was estimated that the average person in the way received over 300 millirems of radiation. Now, how -- if that happens here, hypothetically, how would that affect people for the next 30 years? And also, if just 20 pounds of -- of -- excuse me, 14 pounds of plutonium can cause a bomb destruction as big as Nagasaki, how big of an accident

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1 MR. HARRIS: I guess I can't tell you what
 2 the impacts would be because I'd need a calculator,
 3 and there's a lot of things involved. The EIS does
 4 tell you, if you know how many millirem you were
 5 exposed to, you can convert that to a risk of
 6 developing cancer. And if you have questions on how
 7 to do that, give me a call and I'll walk you through
 8 the steps. But I'm not sure I want to get into
 9 calculating impacts from an accident at a Department
 10 off Energy site that happened years ago.

11 MR. CAMERON: Okay.

12 MR. HARRIS: That's kind of outside our --
 13 our... .

14 MR. CAMERON: But we do, in the -- in the
 15 draft EIS, as you point out, you -- we do discuss the
 16 long-term impacts of the hypothetical?
 17 MR. HARRIS: Impacts associated with --
 18 that are hypothetical, associated with the proposed
 19 action, which is -- which is constructing the MOX
 20 facility.

21 MR. CAMERON: Okay. Thank you.
 22 Mary?

23 MS. OLSON: I actually wrote down three
 24 different types of questions, but I'll do them one at
 25 a time, and you can come back to me again after the

1 first one. Okay.
 2 I want to appreciate that you did look at
 3 the plutonium and uranium transport portion of this
 4 program, because clearly, to do MOX at Savannah River
 5 Site you have to move plutonium. I am curious,
 6 though, because the last time somebody told me that
 7 transportation impacts were not significant, they were
 8 using a population to make that determination that
 9 never occurred to me, which was the entire U.S.
 10 population. So I -- I'd like you to remind me,
 11 anyway, what the base of your compare -- you know,
 12 your group is to be able to say significant or not
 13 significant.

14 MR. HARRIS: I believe that the group was
 15 just people directly next to transportation corridors.
 16 The -- as determining whether or not the public was
 17 significantly impacted. The computer code that's used
 18 to do those estimates, you plot out your route, and
 19 then it has population data along that route, and it
 20 uses formulas and -- to determine, sum up all the
 21 exposures along that route.1
 22 MR. CAMERON: So there were... .

23 MR. HARRIS: And that's -- it's not the
 24 entire nation. It's people directly next to the
 25 transportation corridors.

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1 MR. CAMERON: But there -- there were
2 specific routes that were...
3 MR. HARRIS: No, there were not specific
4 routes.
5 MR. CAMERON: Okay.
6 MR. HARRIS: Living in the new age that we
7 are with terrorism and security, the routes are not
8 plotted. What we did provide in the EIS is the stuff
9 would come from here to here, but we didn't tell you
10 what roads it was going to go on.
11 MS. OLSON: Just a word to the wise.
12 There's currently pending in -- I've forgotten which
13 federal court, a case questioning whether there is an
14 environmental justice issue around the Yucca Mountain
15 shipments. So I guess at this point, since you find
16 no significant impact to anybody, this program doesn't
17 have to worry about that. But should those numbers
18 change, it's fairly evident to the casual observation
19 that, for the most part, low income and minority
20 people are the ones living near those transportation
21 routes, no matter which one they are.
22 MR. HARRIS: Right. Let me -- let me
23 check, but I think we looked at that, Mary. I want to
24 say we did. I'll get you the answer, but I think we
25 looked at that. Again, it's a two-inch thick document

41
1 and I can't remember every word in there, but -- but
2 I'll get you an answer.
3 MR. CAMERON: Do you want to ask your
4 other questions now, or do you want me to come back?
5 MS. OLSON: That's it.
6 MR. CAMERON: I'll go to others, then I'll
7 come back for -- for that.
8 Peter?
9 And that was Mary Olson.
10 And Peter, if you could just give us your
11 name, and then we'll go to...
12 MR. SIPP: Sure. My name is Peter Sipp,
13 Asheville, North Carolina. And I have two questions.
14 First of all, is -- you didn't talk about
15 the Parallel Project on -- on the one page there,
16 alternatives considered but not analyzed in detail.
17 Would you tell me what the Parallel Project is?
18 MR. HARRIS: Sure. The Parallel Project
19 is a Department of Energy-Canadian project which is an
20 experimental project to use MOX fuel in Canadian CANDO
21 reactors. I think the quantity associated is 35
22 pounds. It's a very small amount compared to 34 -- 34
23 metric tons.
24 MS. OLSON: It's a test.
25 MR. HARRIS: It's a test. It's an

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42

experiment. So that's what that relates to. And it's just -- the description, Peter, is in Chapter 2. It goes into a little bit more detail.

MR. CAMERON: Peter, why don't you ask your -- excuse me, Mary, let me squeeze past.

Peter, why don't you ask your second question, and then we'll go...

MR. SIIPP: Yeah. Yeah, sure.

The other question is, Linda asked about how much plutonium is going to be -- you may be answered it, but I didn't quite hear it.

MR. HARRIS: How -- how much plutonium is going to be used?

MR. SIIPP: Well, I don't -- what -- what was that question, Linda?

MS. ODOM: You said that it would be regulated, the amounts that would be used. It would be a safe amount. Actually, you said it would be safe. Well, just 14 pounds from -- according to the scientist at MIT University, he said 14 pounds of plutonium, if there is an accident, a human error, that 14 pounds would cause destruction like a bomb at Nagasaki. And that's where I got that information. So how much -- I mean, 14 pounds is a really small amount to me.

43

MR. HARRIS: But the idea that Dave tried to say is that they use safe amounts in discrete locations. The throughput of the facility annually is about 3.5 metric tons. So 3.5 metric tons would go through the facility in any given year during normal operations. But, again, that -- the amount of plutonium would be in a number of different locations in order to make sure that it was safe.

MR. CAMERON: Okay, let's go to Dr. Patrie. Could you just introduce yourself.

DR. PATRIE: I'm Dr. Lew Patrie, L-E-W, P-A-T-R-I-E, from Asheville. I'm with the Western North Carolina Physicians for Social Responsibility.

I would like to find out -- follow up on Mary's question with regard to the denominator used for the population at risk in the case of an accident. I wonder if you could tell us the magnitude. If it wasn't the total population of the United States, if it was of a population of people along -- within a certain distance of transportation routes, what -- what is that magnitude of denominator of population?

MR. HARRIS: Can we do this, Chip? Dave is going to go over and find the number in the EIS. I'm sorry, I -- I don't have that up here.

DR. PATRIE: Another question, and that

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44

is: What assumptions were you making when you calculated the risks of morbidity and/or mortality from acute or long-term exposure for the... MR. HARRIS: We're talking about transportation?

DR. PATRIE: On any of the risks. Are we -- are you using the base -- assumptions based on studies that were extrapolated from world -- from the Nagasaki and Hiroshima experience?

MR. HARRIS: Yeah, we -- I think you're asking about the conversion factor to convert from exposure to latent cancer fatalities. Is that what you're asking about?

DR. PATRIE: Yes, or latent...

MR. HARRIS: The number that we used was in *Federal Guidance Report 13* which is issued by the Environmental Protection Agency.

DR. PATRIE: And do you know where they came from?

MR. HARRIS: They came from -- I'll let Dave answer that, since he's a certified health physicist.

MR. BROWN: That is -- as I understand, that is the most...

MR. HARRIS: Use your mic right there,

Dave.

MR. BROWN: I don't... That number reflects the more recent recommendations of the ICRP. The kind of data... DR. PATRIE: I don't -- I don't know that acronym.

MR. BROWN: Oh, I'm sorry. The International Commission on Radiological Protection. Which forms the basis for many of NRC's radiation standards, protective guides.

DR. PATRIE: Do you think those standards are primarily derived from data that was extrapolated from the bomb -- bomb experience in Japan in 1945, or do you think they have modified those, considering the studies that were carried out by people like Dr. Alice Stewart and Dr. Steve Wing, who happens to be from North Carolina?

MR. BROWN: I don't know the answer to your question about the latter part. I do know that the Hiroshima and Nagasaki bombs do form a basis for our current understanding of the risk of radiation. I'm not familiar with the latter two studies.

DR. PATRIE: I understand that they have been used as sort of sacrosanct data basis for calculating risks, even though there's other data that

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46 suggests a low level radiation over a long period of
 1 time, and some other kinds of radiation, may not
 2 follow those premises.

4 MR. CAMERON: And I -- I think that
 5 perhaps we -- I think we could say, Dr. Patrie, that
 6 there -- ICRP and other organizations are continually
 7 looking at -- at new data. But whether they're
 8 looking at data from people like Wing or Stewart is --
 9 is something that we don't know. But perhaps we
 10 could...

11 MR. HARRIS: Well, I...

12 MR. CAMERON: ...it's simple to get Dr.
 13 Patrie some information on that.

14 MR. HARRIS: ...I think you -- I think you
 15 can go to the EPA Web site and pull up a copy of
 16 *Federal Guidance Report 13* and look at the basis. And
 17 also I think that was a quasi-comment, Chip, that, you
 18 know, if there's a different basis or additional
 19 information that would be used to develop -- estimate
 20 latent cancer fatalities, that could be a comment.

21 MR. CAMERON: Good. And that's a good
 22 reminder, Tim, is that as we're asking questions here,
 23 there may be comments by implication or explicitly,
 24 and we will evaluate the transcript to make sure that
 25 we -- we capture all those, too.

47

1 Yes, sir?

2 MR. TROZZI: My name is David Trozzi, and
 3 I have no affiliation at this point.

4 I had a question concerning travel safety.

5 And I'll try to -- try to make this as simple as I
 6 can. What protocols surround transportation, number
 7 one?

8 And to qualify that, is -- do -- does DOE
 9 and EPA have a mocked -- a mocked plan? In other
 10 words, if an accident happened, what do they do? And
 11 let me -- let me qualify this a little more in a time
 12 period. Years ago I worked at IBM as a safety auditor
 13 and with the haz com team. And in 1989, at the
 14 Fishkill, New York plant, we had mocked up if we were
 15 bombed, so to speak. Because it was -- it was a semi-
 16 conductive facility that used quite a bit of lethal
 17 elements or chemicals.

18 And during this presentation that we --
 19 that we did, it actually showed where the site was
 20 bombed, and what to do for it and what to do with it
 21 and how to stop that proactively. Again, this is back
 22 in 1989. And I understand this program came up in '95
 23 when Clinton was in the -- when Clinton was in office;
 24 is that correct? So I don't know...

25 MR. HARRIS: '93. But yes.

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1 MR. TROZZI: Okay. I don't know if
2 terrorism, at that point and at that time, really was
3 looked at as it is now. So I'm -- I'll stop right
4 there and let you answer those questions.

5 MR. HARRIS: Just to make sure, you're
6 asking one question? Okay.

7 MR. TROZZI: All right. Yeah. Yes.

8 MR. HARRIS: Okay. The answer is that the
9 NRC is currently looking at design threats and -- the
10 word -- the word just left me, Lawrence.

11 MR. KOKAJKO: The NRC takes its
12 responsibility toward safe transport very seriously.

13 UNIDENTIFIED: Could you get closer to the
14 microphone.

15 MR. KOKAJKO: Certainly.

16 The NRC takes its responsibility for safe
17 transport very seriously, and I know the Department of
18 Energy does, too. There are route controls and
19 approvals, there -- many shipments are monitored by
20 satellite and they're tracked, many have armed
21 escorts. These shipments would qualify for those
22 types of activities. Route approvals are not released
23 prior to shipments. States typically are made aware
24 and -- so that they're -- in case of -- as a shipment
25 is rolling down the -- the highway, so that the state

49
1 governments are -- can provide certain protective
2 features, if necessary.
3 And, okay, the -- the other piece I want
4 to tell you is the NRC is also looking at interim
5 compensatory measures for transportation, as well as
6 other aspects of the regulatory program, to insure
7 that they are responsive to the terrorist threat. And
8 we're also doing vulnerability assessments on certain
9 things that are -- that we regulate, to insure that we
10 understand the vulnerability, so that we can protect
11 against it. And the interim compensatory measures are
12 one step in how we're trying to handle that.

13 MR. CAMERON: I believe -- do you have a
14 follow-up, Mr. Trozzi? And I think Dave has some
15 information for you.

16 Here, other questions? And, Mary, I'm not
17 forgetting. I'm going to come back.

18 Yes, sir?

19 MR. KEISLER: My name's Bill Keissler. I'm
20 a resident of Lexington County, South Carolina, and
21 been active in the nuclear industry for many years,
22 including some standards of (indiscernible)
23 engineering (indiscernible) consulting work.

24 There are a couple of things. Go back to
25 Slide #6 with the process of the environmental impact

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1 statement and the safety review.

2 MR. HARRIS: Dave, go back to Slide 6.
3 Go ahead. I'm... .

4 MR. KEISLER: Okay. It's not clear to me.

5 You have public comment up here with the EIS. Is
6 there no public comment and review for the safety
7 review?

8 MR. HARRIS: That's correct. Public
9 comment is typically not a part of the safety
10 evaluation. Again, that -- those -- the safety
11 evaluation focuses on compliance with NRC regulations.

12 MR. KEISLER: Okay. Because you said --
13 or whoever had this slide, maybe (indiscernible) said
14 that terrorism or whatever would be covered under the
15 safety review and not the environmental impact, and
16 yet the environmental impact speaks to accident
17 analyses, in trying to keep that to a minimum.

18 I was a senior consultant for the Davis-
19 Besse Nuclear Facility in the late '80s following the
20 June '85 event. We all know that there has been a
21 serious problem with the discovery last year of their
22 -- the regulatory failure to that, and there are open
23 issues that cover a broad breadth of culture internal
24 to the NRC. Also throughout the licensee. It's too
25 lengthy now, but there is some relevance, particularly

1 out of the Chicago office as relates to Paducah,
2 Kentucky; Portsmouth, Ohio; the inspectors, same ones
3 overseeing that didn't find a hole in a reactor
4 vessel.

5 I spent 23 years on (indiscernible) boiler
6 and pressure vessel (indiscernible), and the initial
7 chairman of the replacement's working group, subgroup
8 on repairs and replacements, a number of things. It
9 is impossible to get to a hole in a reactor vessel
10 that's leaking. And we all know that. But to
11 conclude (indiscernible) implemented.

12 What we're saying here is -- but I don't
13 know how -- and there's some things still emerging.
14 I will assure you of that. That haven't seen the
15 light of day yet. But it does have a relevance to
16 this, and it was covered in the safety review with no
17 public comment. How does the public make a comment to
18 bring that to bear?

19 MR. KORAKO: Okay, I understand your
20 question.

21 First of all, there -- I'd like to say
22 three things. There are a number of public meetings
23 that have occurred between the NRC and DCS over this
24 process. And those are open, public meetings. And
25 many times those meetings -- people have been --

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52 public members can observe them. And typically you
1 may have the opportunity to comment at them, and
2 particularly if you talk to the person who is in
3 charge of the meeting. They will allow people to
4 speak if you want to say something.

5 Second thing is, there is, as I mentioned,
6 an opportunity for hearing in this. This is a formal,
7 adjudicatory process that -- that may occur if you
8 have a contention. It can be admitted and it will
9 have a hearing on it. So that is a very formalized
10 process and a very legal process that they have to go
11 through if a hearing is requested. I would ask John
12 Hull to perhaps comment on that after I finish.

13 'The latter piece, the safety oversight,
14 NRC does not abdicate its responsibility for safety
15 oversight. I can't speak to the Davis-Besse incident.
16 I haven't been in nuclear reactor regulation in some
17 time, so I don't exactly know. But I do know that
18 there has been a rather scathing report on lessons
19 learned from the Davis-Besse event within the NRC.
20 That is available, I believe. And we've taken
21 ourselves, you know, to the cleaners, so to speak,
22 trying to solve the problems that may have led to
23 that.

24 In this case, the MOX case, I think we
25 are

53 plan to have a resident inspector onsite for the MOX
1 facility. It will be inspected in our post-licensing,
2 and it will be monitored as we would any other fuel
3 fabrication facility.

5 MR. CAMERON: And before we see if John
6 wants to add anything, I guess one question for -- for
7 you, Lawrence, is if anybody wants to find out about
8 the meetings between the applicant and the NRC on the
9 safety side, how would they do that, and are there
10 minutes of those meetings that are publicly available
11 if anybody wanted to tune into the safety side?

12 MR. KOKAJKO: Okay, first of all, the --
13 the meetings are posted on the NRC Web site. And, in
14 fact, those all -- most public meetings are open to
15 the public. There are some that are not, primarily
16 when they deal with privacy act information, or
17 perhaps when they deal with safeguards and security
18 matters. But you can look on the Web site to see what
19 meetings are there.

20 I believe, also, the Davis-Besse incident,
21 in itself, has its own subpage on the NRC Web site, so
22 you can go to the Davis-Besse to find out more about
23 that.

24 MR. CAMERON: And minutes of the -- are
25 there minutes taken that are publicly available?

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1 MR. KORAKJO: Typically....

2 MR. KEISLER: I'm well aware of that

3 process.

4 MR. CAMERON: Okay.

5 MR. KEISLER: I've been involved in that

6 process (indiscernible).

7 MR. CAMERON: Okay, we've got to get you

8 on the -- the record.

9 MR. KORAKJO: Let me finish that, because

10 some other people may not know.

11 We do take -- we do have a meeting summary

12 after each public meeting. Many meetings are

13 transcribed, but I would say most probably are not

14 transcribed. But at least a meeting summary is

15 generated and is publicly available.

16 MR. CAMERON: Okay. And just -- you know,

17 we -- we know that you may know a lot of that -- that

18 part about it. But for other people's edification --

19 and we do have David Ayres here from our regional

20 office, the inspection specialist. And why don't you

21 tell us a little bit in regard to one question, David.

22 MR. AYRES: Okay, I'm David Ayres. I'm

23 the Chief of the Fuel Facility Inspection Branch in

24 Region 2.

25 MR. CAMERON: It's not obvious, yeah. I

1 think that that's -- so people...

2 MR. AYRES: And as was mentioned here just

3 a minute ago, we do plan to have a resident inspector

4 there at the site. If the construction authorization

5 is approved, we would have a resident there from the

6 beginning of construction all the way through startup

7 and -- and beyond. Our plans are to have at least one

8 resident there at all times.

9 And we are going to have fairly extensive

10 region-based inspection program that will include

11 virtually all of the aspects of the safety evaluation

12 report that will come out, such that all of the -- all

13 the commitments and requirements that are in the

14 approved construction authorization that come out of

15 the safety evaluation report would be inspected. So

16 we were going to cover all the bases we possibly

17 could.

18 MR. CAMERON: Okay, thank you very much,

19 David.

20 Let's -- before we go back over to Mary,

21 is there any other -- any questions over here?

22 Okay, Catherine, if you could just

23 introduce yourself to us.

24 MS. MITCHELL: I'm Catherine Mitchell, and

25 I'm here -- I'm not representing any organization.

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1 But my question is: Since this program
2 was initially started as a joint program between the
3 United States and the Russian government to dispose of
4 surplus materials from dismantled nuclear warheads,
5 what plans are in place in the event of -- and
6 certainly, in light of current events, of
7 deteriorating relations with the Russian government?
8 How would that affect the ongoing plan for this
9 particular program?

10 MR. CAMERON: Okay, thank you, Catherine.

11 MR. HARRIS: Those issues, Catherine,

12 really relate to the Department of Energy who has the
13 overall mission for implementing the agreements with

14 Russia and the overall surplus weapons -- weapons --
15 surplus weapons plutonium -- the program. Sorry.

16 As it relates to us, likely what would
17 happen would be, if -- if things did deteriorate. The
18 applicant, DCS, would withdraw their application.

19 MR. CAMERON: Okay, let's -- let's go back
20 to Mary, and then we'll go to -- to Gregg.

21 Mary, you have another question; correct?

22 All right.

23 MS. OLSON: I am Mary Olson, the Southeast
24 Office Director for Nuclear Information and Resource
25 Service.

1 I was really struck, I was really pleased,
2 I must say, that you did give a qualitative review of
3 the off-spec MOX plan that was put forward by Frank
4 Von Hippel and Alice (indiscernible) and others as a
5 way to kind of go down the middle path. I didn't
6 agree with a lot of your analyses, but one of the
7 things that struck me the most is this invocation of
8 DOE's statement that the Russians might not like
9 something that doesn't degrade the plutonium from its
10 current isotopic distribution. And it really bothered
11 me so much, that I had the horrifying experience of a
12 new idea at this late date in the game.

13 But there's reactor grade plutonium lying
14 around in large quantities. I mean, there may not be
15 that much in the U.S., but West Valley operated for a
16 while, and I'm sure there's other degraded plutonium
17 around. We could probably even buy it at a pretty
18 good price from European countries that really don't
19 want to use MOX because it's so expensive. So why not
20 just mix it. Instead of MOX it, let's mix it, and
21 then do any of the other things we might do that
22 wouldn't have the reactor risks associated with it,
23 which I think you way underplayed in your cost benefit
24 on the off-spec MOX, and DOE underplays on the
25 immobilization decision. So, anyway, I'm now

72-1

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advocating mix rather than MOX.

MR. CAMERON: And I think we -- we treat that as a -- as a comment.

MR. HARRIS: As a comment, but let me just make sure I understand, Mary. You're talking about mixing the surplus weapons grade plutonium with reactor grade plutonium and making reactor fuel?

MS. OLSON: No.

MR. HARRIS: Or you're saying mix -- oh, I'm sorry. I got you. Mixing surplus plutonium, reactor plutonium, making off-specification mixed fuel, and storing that and disposing of it. That... cont.

MS. OLSON: What I'm suggesting is isotopic degradation through mixing rather than irradiation.

MR. HARRIS: Okay, got you.

MS. OLSON: It might take a large quantity of reactor grade plutonium, which is why I'm suggesting that other countries might have to be vendors of this stuff. But it could be done. It would isotopically degrade the weapons grade classification. And then you would not have all the reactor-related risks, which I believe you are still underplaying in your analysis.

MR. HARRIS: Okay, that -- thank you,

59

Mary.

MR. CAMERON: Let's go over here to -- to Gregg Jocoy. If you'd introduce yourself to us.

MR. JOCOY: Sure. Thank you, Chip. I'm Gregg Jocoy. I'm here representing the York County South Carolina Green Party.

One question that I have. You talked about these resident inspectors. Now, we've all heard on the radio people -- reports that a listeria outbreak has happened in a meat packing plant and 12 people have died and 40 billion pounds of meat have been recalled and so on like this. They have U.S. DA resident inspectors, as well. How long do NRC resident inspectors stay at any one particular plant, and what steps does the NRC take to assure that the resident inspectors don't develop an unhealthy relationship with the people that they're supposed to be watching?

MR. CAMERON: We're going to go to David for that one.

David? I think you have a sense of... MR. AYRES: Right.

Right now the time frame for resident inspectors at the sites is a maximum of seven years. And they are, you know, extensively trained in not

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60 fraternizing with the licensee, that kind of thing.
61 I've known several personally, resident inspectors who
62 lament about having to, you know, be kind of stand-
63 offish in the community because they can't really
64 interact with a lot of the people that we meet because
65 of their status as an NRC resident inspector.
66 Now, I'm not that familiar with the
67 residents at the reactor sites because I really deal
68 with just the fuel facilities. But that's -- that's
69 the way we've done.
70 MR. CAMERON: Thank you very much, David.
71 MR. JOOY: Have any of the resident...
72 MR. CAMERON: Gregg, we better get you on
73 the transcript. We'll give you a follow-up here.
74 MR. JOOY: Thank you.
75 Have any of the resident inspectors at any
76 of the power plants that have faced challenges like
77 Besse -- I've got my state legislator on my mind. I
78 want to call it Besse Moody.
79 Have any of the resident inspectors at any
80 of the power plants that have experienced difficulties
81 lost their job as a result of dropping the ball and
82 not noticing problems they should have noticed in
83 advance, or have they been kept on? And, in fact,
84 have people who have been resident inspectors been
85

1 hired by the companies that they were inspecting?
2 MR. CAMERON: David, do you have any --
3 any information on that?
4 MR. AYRES: I really don't know about the
5 residents at the reactor sites, whether or not
6 anybody's been let go or whatever. I do know in the
7 fuel facility arena there have been a couple of times
8 where the resident inspectors, after their five to
9 seven years time was up, that they didn't want to
10 move, so they got a job with the licensee. So that
11 has happened.
12 MR. CAMERON: Okay, thank you.
13 Lou, did you have a question before?
14 MR. ZELLER: In your presentation here,
15 Tim, you talked about impacts on public health in your
16 investigation. And largely the discussion is about
17 cancer effects from ionizing radiation. Are you
18 familiar with some of the work of Dr. John Goethman
19 that (indiscernible) on some of the plutonium weapons
20 in the early days before he turned to medicine,
21 produced a report several years ago which point to
22 ionizing radiation in the form of x-rays as a major
23 component of ischemic heart disease, wholly and
24 separate from cancer. And what we have found is that,
25 for example, in Barnwell County, alone, there's a 15%

73-1

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1 elevated level of ischemic heart disease above the
 2 average of the whole State of South Carolina.
 3 MR. CAMERON: Was that considered?
 4 MR. HARRIS: I think -- I think the answer
 5 is your observation was correct, that we only
 6 considered latent cancer fatalities as an impact. And
 7 I don't know if you want to add more to that, Dave, as
 8 far as -- I'm not familiar with the work of Dr. Goth
 9 (sic).
 10 MR. BROWN: I'm a little bit familiar with
 11 Dr. Gothman's work. At this time his conclusions are
 12 not part of NRC's bases for assessing risk from
 13 radiation. I would be interested in the specifics of
 14 the information you have about Barnwell County, if you
 15 could give us a citation, that sort of thing.
 16 MR. CAMERON: And it would be appropriate
 17 if Mr. Zeller wanted to submit the information on Dr.
 18 Gothman's work for us to -- to look at.
 19 MR. ZELLER: We've got it.
 20 MR. CAMERON: Okay, that's -- that's good.
 21 Before I -- and we'll -- we'll take a
 22 couple more questions and then go to comment, and then
 23 we can come back, if we have time, for questions. I
 24 know Linda has one, and Mary. And I just want to make
 25 sure that -- is there anybody else who wanted to ask

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1 a question that we haven't heard from at this point?
 2 (No audible response)

3 MR. CAMERON: Okay. Well, let's -- let's
 4 go to -- Mary, you have one other question?

5 MS. OLSON: I think I'll fold it into a
 6 comment.

7 MR. CAMERON: Okay, good.
 8 Well, let's go to -- we'll go to Linda,
 9 and then we'll -- we'll go over here, and then we'll
 10 get started with the formal comment. All right.

11 MS. ODOM: Tim, can I ask about something
 12 I read in this book that I was concerned about?
 13 MR. HARRIS: Yeah, that -- that's...
 14 MS. ODOM: At Wilmington, North Carolina,
 15 at a GEE plant, I was reading by the conversion of
 16 uranium hexafluoride and uranium dioxide.
 17 MR. HARRIS: Correct.
 18 MS. ODOM: And it said they are changing
 19 their process of converting that to -- from a wet
 20 process to a dry process. I want to know have they
 21 done that.
 22 And also it says discharges are permitted,
 23 are -- they're monitored to insure compliance with
 24 permit requirements. I tried to find what the permit
 25 requirements would be, like how much of a discharge

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64

can they release into the environment.

And I -- can I say one thing about the Russians? By Tali Khizhnyak, he was the head of -- I'm sorry. I can spell it. K-H-I-Z-H-N-Y-A-K, who is head of the Russian nuclear agency, said it will never happen, the MOX project with the United States. And that we are paying their scientists, which I spoke to the DOE, who was kind enough to talk to me earlier. They -- we are still paying their scientists, but I understand why; to keep from the plutonium getting in terrorist hands, or Iraq, or -- which is probably a good thing. But he does say that will never happen.

MR. CAMERON: Okay, this is Section 4 point...
MR. HARRIS: No, I -- I got it, Chip.
MR. CAMERON: ...4 point -- for other people, though, 4.4.2. And I'm glad you know that, too. That's...
MR. HARRIS: You mean not everybody is familiar with the document as I am, Chip?

MS. ODOM: I read it.
MR. HARRIS: Thank you.
I think Dave's going to confirm that, in fact, they have gone over to the dry process. That's my understanding.

65

1 MR. BROWN: I'm going to ask Dave Ayres to
2 confirm that.

3 MR. HARRIS: Oh.
4 MR. CAMERON: Let me bring this to you,
5 David.

6 MR. HARRIS: But -- but it -- but, Linda,
7 it's also important to note that we looked at both
8 processes.

9 MR. AYRES: Yes, the facility at
10 Wilmington converted over to a dry process two or
11 three years ago. I was the inspector during the time
12 of the conversion over to the dry process, and it has
13 happened. The (indiscernible) detail I believe are in
14 Part 20 either (indiscernible) in their license
15 application. And if you need some more information,
16 I'll get my project manager to send you some
17 information on it.

18 MR. CAMERON: Great.
19 Okay, let's go for a final question, and
20 then we'll...
21 MR. HARRIS: Can we thank David for
22 coming? Thank you, David.

23 MR. CAMERON: Okay, here we are.
24 MR. KEISLER: This is Bill Keisler again.
25 In July of 2000 there was one of these meetings in

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Columbia, South Carolina. I attended that one. And I don't think there was a transcript made of that, at that meeting. But I asked a question there and it's never been answered. It was supposed to have been and it never has.

There's an umbrella of protection for the public that is never breached, ever, under the Atomic Energy Act. And yet, when we look now at the NRC-DOE interface, or even state -- State of South Carolina, I believe it indicates there's 199 licenses they have. There are issues in the State of South Carolina, violations of the Atomic Energy Act under 10 CFR 150, issuing licenses. There was one with an issue of a DOE contract for plutonium in a city in violation of that, who was allowed to continue to operate for seven years.

This is a unique situation now where geographically NRC has a facility inside a whole DOE boundary, 350 square miles. How is the hierarchy of authority, in the event of an accident or event, in that situation who holds that? Typically, with the way the Atomic Energy Act is written, it appears, with the Energy Reorganization Act of '74 and the DOE which was in '78, that the DOE exemptions from the NRC -- NRC authority are predicated on certain conditions.

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that would fail the umbrella means, and it would
instantaneously (indiscernible) the NRC.

How -- in this integration of regulatory
authorities, what is the hierachal protocol for
accident events?

MR. KOKAJKO: Okay, I am -- by the way,
'm familiar with certain licensing things that we do
regulate DOE on. For example, the -- the Independent
Spent Fuel Storage Installation at the Idaho National
Environmental and Engineering Laboratory which is
monitoring the old Fort St. Berin spent fuel. We also
regulate them and their storage of the Independent
Spent Fuel Storage Installation at Fort St. Berin. So
that fuel is in two different locations.

This is very comparable to the situation
in Idaho where there is a small regulated area that we
control within the overall site complex at the DOE, at
one -- at the Idaho lab. In that case, DOE had to
set all our regulatory requirements for whether
setting the safety specifications to emergency
planning, everything that -- that they would normally
have to do. And, in fact, we ended up imposing upon
them more stringent requirements in some areas for
that facility and within the DOE complex.
And in this case, we would do the same.

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1 thing. The MOX facility would be regulated according
2 to our safety standards. It would have to meet our
3 standards in terms of emergency planning, procedure,
4 control, configuration control, and a whole host of
5 other things. And we would have that authority over
6 them, whether it was through licensing, inspection, or
7 enforcement. So that is -- that is allowed by the
8 Atomic Energy Act, the Energy Reorganization Act. It
9 is very well understood that once they submit to our
10 licensing program that is what the rules of the game
11 are.

12 MR. CAMERON: And that cannot be
13 delegated, under the Atomic Energy Act, to an
14 agreement spec.

15 MR. KOKAJKO: No, that cannot be delegated
16 to an agreement spec.

17 MR. CAMERON: And, Dave, do you have some
18 things to add on that? And you have a mic there, too.

19 MR. BROWN: I thought I would have. We
20 did have a question last night, I believe. There is
21 a question about, for example, there are many areas
22 that Lawrence outlined. One is radiation safety
23 standards, you know, which ones apply. And we think
24 we've laid that out pretty clearly for DCS, the
25 applicant, with respect to how to treat workers who

1 would be in the Savannah River Site area who are not
2 employees of DCS and that sort of thing. So that
3 issue, I think, has been resolved.

4 MR. CAMERON: Okay, thank you. And if we
5 do have time to follow up on any of this, we will.
6 But I think we should get on with the -- hearing from
7 -- from all of you in terms of what your comments are.
8 We're going to go to Mr. Lou Zeller first. Lou, if
9 you could come up and talk to us.

10 MR. ZELLER: Okay, thank you. My name is
11 Lou Zeller, and I'm on the staff of the Blue Ridge
12 Environmental Defense League. And I appreciate the
13 opportunity to speak tonight.

14 Many of you know my co-worker and my wife
15 of going on seven years, Janet. She had hip surgery
16 this week. She'd love to be here tonight. But she
17 came home from the hospital today and she's recovering
18 quite nicely. So I do want to get into my comments,
19 though, tonight about this facility.

20 I do have to agree with -- with Linda, in
21 that this may seem like a collective whistling past
22 the graveyard, in that the international tensions and
23 the problems between the United States government and
24 the Russian government and the French government at
25 this time could ultimately scotch this project. The

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international agreements required for it to keep
moving forward, the parity requirements explicit in
the agreement may ultimately cause this project to
come to a grinding halt.

The \$309 million increase in fiscal year
2004 budget appropriation for the plutonium fuel
factory alone could be much better spent in some other
area. So, the long and short of my comments is
tonight that the no-action alternative would save us
a great deal of money, and get us back on the right
track on how to deal with dismantling weapons of mass
destruction here in the United States.

One of the problems that we have
identified with regards to safety lapses, false
promises, environmental violations, and public health
hazards, and illegal activities, have to do with one
of the partners of DCS, the "C," which stands for
Cogema over the last two decades. The record reveals
a company which ignores or flouts the law, and which
is oblivious to the dangers to public health and
safety caused by its operations in Europe and in North
America.

Cogema is a French company. It is a lead
partner in DCS, and the sole provider of experience
and techniques regarding the reprocessing of

commercial plutonium into fuel. However, weapons
grade plutonium has never been reprocessed into
commercial nuclear fuel.

While I won't indulge in French bashing,
as is -- seems to be the -- the rage these days, at
least on some of the talk radio stations, the problems
of dealing with a French company which is outside of
United States law is a problem for the Nuclear
Regulatory Commission. So you do have to deal with
that. Cogema's flagship in -- in Europe is its giant
reprocessing facility at La Hague on the north coast
of France. During reprocessing, toxic and
radiological chemicals are released into the air and
the water at that facility. A recent report released
by the European Parliament found that the combined
discharges from La Hague--and the nearby Sellafield
Plant in the United Kingdom--reprocessing sites
correspond in contamination to a large-scale nuclear
accident every year.

Cogema has consistently ignored
international treaties that safeguard the seas from
contamination, and Cogema has chosen to disregard
findings of extreme contamination and health effects
resulting from its own reprocessing activities, and
has refused to abate its discharges as requested by

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1 the European governments, and as mandated by
2 international laws and treaties.

3 The U.S. Nuclear Regulatory Commission
4 simply cannot and must not repeat the failures of the
5 U.S. Department of Energy in this matter. Cogema's
6 track record must be considered by the Commission
7 before issue a license for construction of a plutonium
8 fuel factory. This is entirely proper and permitted
9 under the *National Environmental Policy Act*.

10 We hereby request that, as a function of
11 its environmental review of the mixed oxide fuel
12 fabrication facility, the plutonium factory, that the
13 Nuclear Regulatory Commission investigate the track
14 records of Cogema, as well as Stone & Webster and Duke
15 Energy. I might point out to a -- a quote which comes
16 out of the *Augusta Chronicle* regarding Cogema and the
17 failure of the Nuclear Regulatory Commission thus far
18 to do this very thing. In July 14, 2000, *Augusta*
19 *Chronicle* article, Nuclear Regulatory Commission's
20 Melanie Galloway said that, quote, "Whatever their
21 record, good, bad, or indifferent, it isn't going to
22 affect our decisions," end quote. This assumption
23 that Cogema, Inc., will abide by United States law--
24 that's the American affiliate of Cogema--leaves much
25 to be desired.

72 Two other points which I would like to
73 cover in my time tonight have to do with the
1 contamination from such a facility. We have been
2 commenting and investigating and doing research in the
3 State of South Carolina offices with regards to the
4 Clean Air Act permit which was recently issued for the
5 Savannah River Site. Now, there are 1,500 emission
6 sources, air emission sources located within that --
7 the Savannah River Site reservation emitting a great
8 many radio nuclides, as well as hazardous air
9 pollutants. The national emission standards for radio
10 nuclides, other than radon, from the Department of
11 Energy facilities states that emissions of radio
12 nuclides to the air shall not exceed that which would
13 cause any member of the public to receive a dose of
14 ten millirems per year. Emission measurements from
15 the stacks are stipulated in the existing Title V
16 permit.
17 But the millirem standard for the maximum
18 allowable dose to the public is an ambient standard,
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1 facilities, including the proposed plutonium fuel
 2 factory.
 3 One other point I'd like to go into here
 4 tonight is the fact that it is very difficult to
 5 estimate the emissions because of the problems with
 6 the HEPA filters, the paper filters, the high
 7 efficiency so-called filters which are an unreliable
 8 means of controlling radio nuclide emissions. We have
 9 been in touch with Dr. Peter Richards, who is a former
 10 member of the Centers for Disease Control Advisory
 11 Panel at the Idaho National Engineering Laboratory.
 12 Dr. Richards has outlined the problems with alpha
 13 emitters like plutonium which crept through four
 14 HEPA filters in sequence, the problems with alpha
 15 migration, reentrainment of particles, and alpha
 16 recoil, which is a DOE term for the ability of alpha
 17 emitters, like plutonium, to creep through these
 18 filters.
 19 The bottom line here is no one knows how
 20 much plutonium comes out of the last filter. The
 21 Nuclear Regulatory Commission needs to get to the
 22 bottom of the plutonium releases for this factory
 23 before moving forward. Once again, thank you for the
 24 opportunity to speak here tonight. And we will be
 25 submitting written comments before the comment

74 1 deadline.
 73-4 2 Thank you.
 cont. 3

75 1
 73-5
 cont. 2

MR. CAMERON: Thank you very much, Lou.
 Let's go to Dr. -- Dr. Lew Patrie. And I
 apologize if I'm misspronouncing your name, Dr. Patrie.
 DR. PATRIE: That's -- that's perfectly
 all right, Chip. Everybody else does.
 Appreciate the presentation and the
 opportunity, very studied reports, so many people here
 tonight. I want to just say that from the perspective
 of Physicians for Social Responsibility, I wish to
 cite the dangers and massive costs of the entire
 plutonium bomb fuel experiment, the lesser costs and
 dangers of the option of plutonium immobilization, and
 how such a venture could affect us in North Carolina
 and the general area, and an apparent hidden agenda.
 Dangers stem from this entire plutonium
 fuel experiment. The U.S. portion of the proposal
 involves shipment of plutonium from dismantled nuclear
 weapons sites in Western states, some likely by way of
 Interstate 40 and 26 en route to South Carolina. The
 greatest transportation risk would be an accident in
 which plutonium metal, which rapidly oxidizes when it
 comes into contact with air, would vaporize or burn
 and disburse its deadly particles, contaminating the

71-2
 cont.

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1 air, our citizens inhale, the water upon which we
2 depend, and the soil upon which we grow crops and upon
3 which animals feed.

4 Inasmuch as you've already brought up the
5 subject of terrorism in regard to a presumed reduction
6 of MOX fuel and supposedly reducing the risk of being
7 taken over and used by terrorists, I would also like
8 to say the increased risks of -- the risks of
9 terrorism on the highway create additional concerns.
10 Is there some reason this is making this
11 clicking noise?

12 MR. CAMERON: I was going to make a joke
13 that sometimes a raccoon gets under the podium.

14 DR. PATRIE: I don't know if I had a
15 glottic click in my throat or something. But, anyway,
16 I am sorry if it's disturbing folks.

17 MR. CAMERON: Don't worry.

18 DR. PATRIE: Creating the proposed MOX,
19 mixed oxide fuel fabrication factory, would be
20 counterproductive. Such a facility at Savannah River
21 Site would place workers' health at greater risk from
22 unnecessarily increasing their plutonium exposure. It
23 would greatly increase the radioactive waste generated
24 that are already highly contaminated -- at the highly
25 contaminated bomb-building plant. It places

77
1 populations in nearby areas at increased risks of
2 exposure to plutonium and other byproducts of such a
3 facility as stated.

4 I think that there has to be some
5 consideration of the risks that are presented by the
6 experts for reasons I've already stated in my
7 question. I would feel better about it if there were
8 some carefully carried out, long-term epidemiological
9 studies by impartial, qualified scientists of workers
10 and other potentially exposed people, populations.
11 These should have been conducted on populations which
12 have been exposed through air, water, or food
13 ingestion over the many decades of the nuclear
14 industry. Such scientists should not have their mind
15 sets prejudiced by assumptions that were made as a
16 result of extrapolating the data gathered from
17 Hiroshima and Nagasaki experiences, which are pretty
18 well limited to high levels of acute radiation. I
19 fail to understand why such studies haven't been
20 carried out and publicized; and further, how a DEIS
21 can be adequately carried out without the results of
22 such studies.

23 Inseparable from the proposed MFFF is the
24 fact that once manufactured, plutonium bomb fuel is
25 destined for use at Duke Energy's McGuire and Catawba

71-7
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71-7

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78 reactors within 20 miles of downtown Charlotte.

79 Plutonium fuel is experimental, in that the fuel derived from weapons grade plutonium has never before been used in commercial reactors. These plants are poor choices for an experimental program because their cooling systems depend on constant supplies of ice.

80 In the event of failure for even a few hours, there is a risk of a severe accident. Plants are encased in weaker metal plates than the preferred thicker amounts of concrete. Plutonium bomb fuel is inherently more dangerous than currently used uranium fuel, in that it bombards structures within the reactor chamber with more damaging radioactivity, and would be more difficult to control, increasing the likelihood of a Chernobyl-type disaster. Compared with currently used uranium, should a nuclear catastrophe occur in a MOX fuel reactor, up to twice the number of cancer deaths would result due to the nature of radioactivity produced.

81 The possibility of terrorism should not be ignored, either to the reactor vessel, itself, or to the spent fuel rods that are stored onsite. A worst case scenario would result in the entire Charlotte area becoming a nuclear wasteland for decades to come, with national repercussions, and most of the population becoming refugees. More and more danger comes from vastly increased radioactivity produced through MOX. Promoters deceptively claim it would rid the world of plutonium, making it unavailable for future nuclear weapons use. As you well know, plutonium will be produced while MOX fuel generates electricity. The proposed parallel tract whereby plutonium is presumably converted into fuel in both the U.S. and Russia reactors would markedly increase the availability of plutonium on a global scale. It would work contrary to our national interest. It would favor further nuclear weapons proliferation.

82 Furthermore, MOX would vastly increase amounts of a radioactive waste for which no satisfactory solution has yet been discovered. The railway or highway transportation of increased quantities of radioactive waste to proposed Yucca storage facility in Nevada would create new and extensive dangers which would further increase the risk to large segments of our population because of the risks of terrorism.

83 Finally, when the Yucca facility would be filled to capacity, there would remain at Catawba and McGuire sites almost as much high level nuclear waste as is at present. In addition, these sites will continue to be attractive targets to terrorists due to their

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80 proximity to a large population and financial center.

81 Immobilization is the safest and least expensive alternative to converting plutonium into fuel. Even though this has been discarded as an option, ongoing immobilization was to have been developed along with the MOX program. It would consist of vitrifying plutonium, and made into a safer material for indefinite storage. It would substantially reduce the risks of accidents and terrorist procurement of this deadliest of all elements. Although it is the best choice for a problem like plutonium that we know of today, all funds for this alternative have been deleted from the budget, and the concept of such an alternative appears to have been placed on an indefinite hold. Failure to consider this option has to be considered an abysmal decision. There appears to be a hidden agenda with the decision to continue with the MFFF, despite the risks and uncertainties of proceeding with plans for this facility. The production of quantities of tritium in three of TVA's nuclear reactors which will be processed at Savannah River Site has to have significance. Such quantities of tritium can be used only in the production of nuclear weapons, and MFFF could make plutonium available in sufficient quantities for the production

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82 MR. JOCOY: Chip, are we going to be able

83 to hear from people whose name -- whose faces we don't
2 recognize? I think there are some other people on the
3 list who wanted to speak.

4 MR. CAMERON: Oh, yeah, we're going
5 through the list of people who signed up to talk,
6 Gregg. So we'll hear them and we'll know who they
7 are. And this is Mary Olson.

8 MS. OLSON: I don't mind coming later if
9 somebody needs to leave.

10 MR. CAMERON: I think we're fine. I don't
11 think we have any problems with that, so go ahead,

12 Mary.

13 MS. OLSON: My name is Mary Olson. I'm
14 the Director of the Southeast Office of Nuclear
15 Information and Resource Service. We are a national,
16 and now international organization in our affiliation
17 with the World Information Service on Energy, and have
18 15 offices on four continents.

19 The office in the Southeast has been
20 primarily focused on the MOX issue, and I want to
21 thank the NRC for coming to Charlotte, and I want to
22 also give the information that a number of people I
23 know, in addition to Janet Zeller, are here in spirit
24 because of other health situations and competing

1 events. So I want to emphasize that we appreciate

2 this meeting's being held.

3 It's a little bit unusual for me to do a
4 written statement. I usually like to just talk. But
5 I do have a written statement tonight that I am going
6 to embroider a little bit.

7 That being said, I'm deeply moved and
8 having some difficulty standing here today while
9 people are dying over the question of weapons of mass
10 destruction, as well as power and control of
11 resources. These matters are what ultimately we are
12 talking about here.

13 The Nuclear Regulatory Commission has
14 prepared a detailed analysis of the proposed --
15 proposal by DCS on behalf of their client, the
16 Department of Energy, to build a factory to make
17 plutonium fuel using plutonium from weapons of mass
18 destruction that are being dismantled. NIRS is
19 disappointed that NRC has issued a tentative approval
20 for this project to go forward. We support the no-
21 action alternative.

22 This approval is, however, based on a
23 rather desultory dismissal of any other alternative.
24 We are asked many times, in the introduction to the
25 draft environmental impact statement, to concur that

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84 making MOX will, in fact, prevent plutonium from being
85 used for mass destruction. We are asked to take the
1 Department of Energy's word for it that the Russians
2 will only accept U.S. MOX fuel production to stay in
3 the program, and that NRC, even considering in detail
4 the environmental consequences of any other option,
5 would violate this consummate agreement.

6 Nuclear Information and Resource Service
7 rejects the idea that making plutonium fuel from
8 weapons grade plutonium will safeguard it from use in
9 weapons of mass destruction. In fact, we believe that
10 placing this material into commerce will vastly
11 increase the risk that weapons grade material will be
12 diverted, both in this country and in Russia.

13 Further, since the inception of this
14 program, the U.S. DOE has stated that the weapons
15 grade MOX fuel would be irradiated in other countries,
16 in addition to Russia. First Ukraine was named;
17 later, simply, quote, "Russia trading partners" were
18 added to the list. In case people have failed to
19 notice, many of the countries which the current
20 administration in the U.S. labels "evil" or "rogue"
21 nations are on the list of those who could potentially
22 receive this material.

23 If Russia supposedly will not accept any
24
25

1 alternative that would not degrade the isotopic
2 composition of the plutonium, why would the United
3 States accept a program that would -- could send
4 weapons grade MOX fuel to countries like Iran, Syria,
5 and potentially some day Iraq. And I'm sorry I don't
6 have the full list of trading partners, but I'm sure
7 it's available in the public record.

8 A very simple alternative was never
9 considered by the DOE, and only recently considered by
10 myself, which is to mix---M-I-X---mix weapons grade
11 plutonium with reactor grade plutonium that could be
12 purchased from any number of countries that have a
13 huge plutonium, quote, "waste burden" that will be
14 using it as problematic, expensive, deadly MOX fuel.
15 There's a number of European nations with such
16 inventories, not to mention Japan.

17 This mixed plutonium would then be
18 isotopically degraded, and could be considered for a
19 number of alternatives to MOX, none of which I am
20 specifically advocating, but none of which would carry
21 the risks associated with reactor use.

22 Instead, the U.S. Department of Energy,
23 with lots of help from the U.S. Nuclear Regulatory
24 Commission, is going forward with a program that
25 places Charlotte at unprecedented risk. Plutonium

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1	fuel generates more radioactive activity and more	2	1	
2	deadly radionuclides than uranium fuel. In the event	3	2	ongoing exposures.
3	of an accident, or, heaven forbid, a retaliatory	4	3	Not only is the cumulative and synergistic
4	attack against our government or our corporations, the	5	4	nature of this situation not fully expressed in the
5	health consequences would up to double in proportion	6	5	NRC analysis, but the proposed mitigation steps do not
6	to the MOX fuel in the reactor core. And I will have	7	6	address this ongoing routine and repeated exposure.
7	to spend time with the current document to look at the	8	7	And I will insert here that the work of Dr. Alice
8	estimates that are given there.	72-6	8	Stewart, mentioned earlier, found that the Hiroshima
9	But that could happen on Lake Norman or	9	72-6	and Nagasaki studies are deeply flawed, because only
10	Lake Wiley. We all now agree it could happen. The	10	the survivors of an extremely traumatic and fatal set	72-8
11	question is will it happen, and when will it happen.	11	of experiences are analyzed, and many of those who	cont.
12	We can only hope that Duke Energy, in its	12	were assumed to be outside the area walked into the	
13	international dealings, is making friends. And this	13	center to find their loved ones, or try to find their	
14	is simply the tip of the iceberg.	14	loved ones, the day of and the day after the actual	
15	I want to appreciate that NRC has	15	blast. And so that data has been reanalyzed by Dr.	
16	faithfully analyzed the environmental justice impacts	16	Stewart to show that, indeed, the young and the old	
17	of the proposed factory. At the same time I am deeply	17	are at much higher risk for radiation.	
18	disappointed. The analysis that shows that low income	18	72-7	A millirem is not a millirem, it depends
19	and minority people are disproportionately impacted by	19	72-8	on who got the millirem as to what the dose risk is.
20	the proposed plutonium fuel factory also shows that	20	72-9	And I will also add my other comment here, that the
21	these same people are and have been disproportionately	21	72-7	EPA has begun to adopt a separate set of evaluation
22	impacted by the current and previous missions of the	22	72-8	standards for childhood cancers, and I think the NRC
23	Savannah River Site. There is no recognition that the	23	72-9	should follow suit and not use the standard man. Nor
24	decision to add new radioactive missions to this site	24	72-8	does the evaluation in environmental justice consider
25	will impact a region already weakened by previous and	25	72-8	the long-term impacts of the waste from the MOX fuel
				72-10

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88
1 shell game and moved over the NRC regulatory boundary,
2 but not over the boundary of impact of these very same
3 people.

4 This is another case of the powerful and
5 the wealthy or the better informed dumping on those
6 with less power or fewer resources, and less
7 information. I have to admit that I have a part in
8 this situation. In the years that DOE was considering
9 where to put the MOX factory, I had working
10 associations with people at the alternate sites under
11 consideration in the West. There was a strong fight
12 from people in Washington, Idaho, and Texas. Nuclear
13 Information and Resource Service opposes a MOX factory
14 anywhere, but we erred in not working more proactively
15 in the Southeast to prevent the siting at the Savannah
16 River Site. And I want to point out, while I'm in
17 this room tonight, that it's rather convenient that
18 the MOX factory, its potential for accidents and the
19 environmental justice dimensions of those accident
20 consequences, are far from Charlotte and Duke's
21 headquarters.
22 Nonetheless, I do not believe that if we
23 had placed our limited resources in the Southeast at
24 that time, it would have been sufficient, since the
25 decision to put the MOX factory at SRS was a fete a

89
1 compli. The Savannah River Site is where DOE has
2 always processed the bulk of the plutonium it
3 generated. Now the MOX factory has been used as the
4 camel's nose under the tent or the cover story for the
5 Department of Energy's long-term plan to return to
6 making new nuclear weapons. This is no longer swords
7 into plowshares.

8 As such, the U.S. MOX program has become
9 a magnet for other plutonium missions. We must turn
10 again to the environmental justice concerns and admit
11 that there will be even more elevated risks of
12 accidents if the modern pitt factory is sited at SRS.
13 There will also be more risk of accidents at the pit
14 disassembly and conversion facility if it is
15 processing twice or greater amounts of plutonium.
16 There will also be more ongoing exposures to the
17 workers and the public. All of this is a direct
18 consequence of DOE siting the pit conversion and
19 plutonium polishing at SRS, ostensibly for, quote,
20 "peaceful MOX."
21 The second cover story for these new pits
22 is that it is simply refurbishment of the existing
23 U.S. nuclear arsenal that is there for deterrence.
24 This statement is no longer credible. First, the
25 current administration has declared deterrents a thing

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of the past and stated its decision to use nuclear weapons preemptively. Secondly, the Oak Ridge Y12 factory has not -- has not only been updated, it has been redesigned to make new nuclear weapons assemblies for small, usable mini-nukes. Third, the production levels of tritium in TVA reactors, as approved by the U.S. NRC, indicate an intention to fuel as many as 60,000 weapons. This astronomical number might seem ludicrous since the current U.S. arsenal has the potential to destroy every population center on earth several times over. On the other hand, the stated U.S. intention to weaponize near space would require a number of weapons on this order. I can only imagine the payoff that Duke Energy must have negotiated to posture disarmament while providing the cover for the most massive arms deployment in the history of the world.

We are asked by NRC to believe that the rejection of any alternatives to MOX is to keep the Russians at the table. Get real. This table has nothing to do with the Russians, except to put them and all other nations in the servile position that they will share once the U.S. has control of near space and can target any site on earth from space. Surgically, of course.

When it comes to the local aspects of all this, it is important to note, for those in this room who live in the Charlotte area, it is entirely possible that the brief consideration given by the NRC in this DEIS to the environmental and health impacts of the reactor use of MOX fuel may be the only environmental impact statement analysis we ever see. This document affirms that other environmental reviews will be conducted for any license amendment to use MOX. This assertion, we hope, means that there will be an environmental impact statement on the upcoming MOX fuel test, or LTA, not mentioned at all in the current report, and also when Duke applies for a license amendment for each of the reactors to begin using MOX fuel, if this program gets to that point. There is no basis for confidence in these environmental impact statements (sic) will, however, ever be written, or that the public will have the opportunity to be involved in these decisions. I am being charitable here, since clearly we have been effectively shut out of this one by the assertion that the Russians can dictate the terms of our program. Duke has four license amendment applications for the 20-year extension of the operating licenses of Catawba and McGuire pending. Duke avoided any consideration

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of their participation in the MOX fuel program in these applications. When Nuclear Information and Resource Service and the Blue Ridge Environmental Defense League brought MOX into the license renewal process, the Atomic Safety Licensing Board first accepted us -- the contentions. But then the ASLB was overridden by the five NRC commissioners on Duke's appeal. Therefore, MOX use is not reflected in the NRC's supplemental EIS for the Duke reactors' license renewal at this time.

The MOX fuel test or lead test assembly program will likely be given only an internal environmental assessment, and finding of no significant impact. NIRS will challenge this amendment in an effort to broaden public participation in the decision to put people in this community at higher risk, not to mention those along the transport routes to and from Europe, and the potential for malicious diversion in transit. Nonetheless, it will be a miracle if we win a full EIS for the test fuel. The U.S. NRC could act in good faith by ordering that an EIS on the test fuel be prepared because the unique nature of this program and the fact that the overall risk environment has changed since the last time such a matter was considered for significance of impact,

which I believe would be the transport across Michigan, which was so heavily opposed by the local population, but nonetheless pursued by DOE.

As for the reactor license amendments to use MOX fuel, we similarly hope that the NRC will require that a full EIS be done for each of the reactors. We are not assured of this, however. In 1991, when then NRC Chairman Meserve was asked directly at a meeting whether the use of MOX fuel would trigger a full EIS he said no. Certainly this was an opinion, and an opinion that NIRS, and we believe the residents of Charlotte and the region, do not agree with. And we hope that the new chair will reverse this point of view.

This brings me, finally, to the concerns I raised in 1996 when then U.S. Secretary of Energy Hazel O'Leary announced the plutonium surplus disposition program in a public press conference. That day I was privileged to ask the Secretary a question that was featured later that evening on the *Leher News Hour*. My question started by pointing out that it is likely that MOX fuel use would increase the amount of plutonium in the so-called low level waste from the operations of nuclear power reactors. My question was: What would the impact of that

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94 additional plutonium be on the newly proposed, so-
 1 called low level radioactive waste dumps? The
 2 Secretary assured me that day, and the viewing public
 3 performed under the National Environmental Policy Act
 4 before the decision to make MOX fuel would be
 5 finalized.

6 The Department of Energy did not analyze
 7 the impact of MOX fuel use on reactor waste in any
 8 depth, let alone any other affiliated nuclear service
 9 such as nuclear laundries, component repair,
 10 decontamination services, or decommissioning. We were
 11 told that the NRC would do this. Today we are
 12 reviewing a draft environmental impact statement that
 13 perhaps appropriately, only a fraction of its
 14 devotees, to the reactor use -- to the reactor use of the
 15 fuel the factory would produce. But is not the reason
 16 for the production of the fuel its use? Is it not
 17 justified, the whole program, because of production of
 18 electricity? The NRC should have done a programmatic
 19 EIS that would encompass the impacts of from what is
 20 known from all phases of this program. Instead, there
 21 are all these cracks. And, barring NRC decision to
 22 close them, my questions will continue to fall
 23 through, right along with the victims. It is -- is it
 24
 25

95 not the reason to not produce this fuel to avoid the
 1 potentially catastrophic impacts that it could wreak
 2 on this very location and a wide radius around here?
 3
 4 Once again, the federal government is
 5 proceeding with decisions made long ago behind closed
 6 doors, and now engaged in a masquerade where their own
 7 employees are told it is their job to play by the
 8 rules that will, in the end, inevitably deliver the
 9 right decision, no matter how thin the stated
 10 justification. In the end, that thin veil reveals
 11 beneath the players who are paid to play this game,
 12 Duke Cogema Stone & Webster, civil servants we like
 13 very much, doing their job. But who is really paying
 14 them? Who is paying them?

15 Us. You and me. Our tax dollars. I'm
 16 almost done. In the end it is left to the victims to
 17 fight for their rights. It is not too late to stop
 18 this mess. And I call upon all those who want to help
 19 to join forces with all the other potential victims
 20 here in Georgia, in South Carolina, to support the
 21 organizations that are intervening in these licensing
 22 proceedings, and ultimately into federal court, if
 23 that's where we have to go. Your time and your money
 24 are needed. It is sad that we must first pay these
 25 folks---it is tax season. Just remember some of your

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72-14
 cont.

96 money goes to DOE and then to DCS and then to NRC.
1 That's how these guys get paid. And then also pay to
2 stop them. But that is the way it is when the so-
3 called protector of the U.S. public health and safety
4 sells out to Minatom and DOE. I sound completely
5 resigned, but I do believe in miracles. NRC, it's not
6 too late to change your mind. We support the no-
7 action alternative, including not transporting
8 plutonium at this time, particularly when this country
9 is at war.

10 NIRS will be submitting written comments.
11 We appreciate this opportunity to speak tonight.
12 MR. CAMERON: Okay, thank you, Mary.
13 [Applause.]
14 MR. CAMERON: Let me go to Peter Sipp, and
15 then we're going to go to Gregg Jocoy.
16 MR. JOCOY: Do you know (indiscernible)?
17 MR. CAMERON: I don't -- I don't know.
18 But we're calling all the people who -- who signed up.
19 There's another person after you; okay?
20 MR. SIPP: Thank you, Tim, and everyone
21 from the NRC, for coming today. And thanks for
22 putting all the work you put into this book. Just
23 didn't happen in five minutes.
24 And you are right about the minorities
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72-15 9
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97 being affected. Because I lived in Georgia for 21 years and I know the area quite well. I can't agree with the numbers part. I know you made a mistake and then you -- and then you changed it. I still can't agree with it. I worked at the SRS in the "K" area for six months, and there's a whole lot of folks over there that would be affected if something was to happen at the -- at this new -- these new places. And then your mitigation plan isn't -- isn't good enough. Sorry, but on Page 515 it -- it doesn't say anywhere where you'll have a meeting, how many meetings you'll have. And you ought to say, "We're actually going to have an actual evacuation. We're going to practice," to give -- to give the locals -- like in school, when we went to school we'd have fire drills where we'd leave our classroom and we'd go down to the other hall and we'd wait or whatever. We -- that's -- that ought to be part of it.

74-1
10 Back to the part about being real familiar with the Georgia and South Carolina area, there's a whole lot of two-lane roads and they would get clogged by people trying to get away. If there was a real accident and everybody was trying to get away, there'd be -- there wouldn't be -- people couldn't get away.

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98 And with Augusta there's nearly a million people. And
 1 they call it the Central Savannah River Area. There's
 2 nearly a million people there. There just -- there
 3 wouldn't be enough people to get away safely.
 4 And for you Cogema employees, you people
 5 from France, I want you to know I'm very proud of your
 6 president, President Chirac. He wanted to take care
 7 of the Iraq situation with inspections and the
 8 President over here wanted to give the Turkey --
 9 Turkish people \$26 billion so that our folks could go
 10 there and our supplies could go there. \$26 billion
 11 could buy a whole lot of inspectors for a very long
 12 time, and wouldn't anybody gotten hurt like -- like
 13 they are right today, people being maimed and cut up.
 14 So the best toast in the world is French toast, and
 15 the best fries in the world are French fries. My --
 16 Mary's and my daughter is engaged to a Frenchman. I
 17 take my hat off to the French people. I can't do that
 18 for -- for the administration over here trying to beat
 19 up on everybody. Doesn't work well. It's not --
 20 people don't accept that.
 21 And just like it doesn't work to -- to
 22 force all the -- all the smiling faces at the PR
 23 meetings that supposedly are going to be had in the
 24 minority communities, all those smiling faces, that
 25

99 ain't going to be good enough to get people away when
 1 there's a -- when there's a mess, when people got to
 2 get away. All them smiling faces, that's not going to
 3 be good enough. You need to actually have evacuations
 4 and have people try to get away so they can get used
 5 to it, what roads they should go on.
 6 And -- and then there's another small
 7 comment. When people say "the environmental," well,
 8 that's almost right. It's our environment. Takes up
 9 the same amount of space in a -- in a paragraph.
 10 "Our," rather -- "our," O-U-R, is three letters, just
 11 like T-H-E. Whereas "the" implies separation, "our"
 12 implies ownership. Can't live here without clean air
 13 and clean water. We just can't do it.
 14 So I thank you, everyone in the NRC, and
 15 you all have a tough job. I don't think I'd want to
 16 be there. But, so thanks for the chance to talk. And
 17 I think it'd be worthwhile to consider mixing the --
 18 the bomb grade plutonium with the other, like Mary was
 19 saying. So if you all would consider that, that'd be
 20 a good -- good option, also. There's still time.
 21 MR. CAMERON: Okay, thank you. Thank you,
 22 Peter.
 23 Our next speaker is -- is Gregg Jocoy.
 24 MR. JOCOY: Thank you, Chip. I'll be
 25

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100 first presenting a statement on behalf of James E.
1 Smith, Jr., who is a member of the South Carolina
2 State House of Representatives, minority leader
3 representing the Democratic Party in the South
4 Carolina State House of Representatives. It's
5 addressed to Michael Lesar, and it says, "Dear Mr.
6 Lesar," is that pronounced right? Lesar, Lesar
7 (pronouncing).
8
9 MR. CAMERON: Lesar.
10 MR. JOCOY: Lesar. Okay.
11 "I write you today in regards to the
12 Nuclear Regulatory Commission's draft
environmental impact statement on the impact of
13 building a new MOX plutonium fuel factory at
the Savannah River Site. I understand that the
14 NRC has held public hearings to have public
input as part of the official record. I
15 respectfully request the Nuclear Regulatory
16 Commission hold a public meeting in Columbia,
South Carolina, prior to the end of the comment
17 period at May 14th, 2003.
18 "Additionally, I respectfully request
19 that my name and address be placed on all
20 mailing lists for any further meetings and any
21 -- and other public forums regarding a new MOX

101 plutonium fuel factory at the Savannah River
Site. Thank you for your valuable time and
consideration. Should you have any questions
or concerns, please do not hesitate to contact
me.

"With kind regards, I remain,

"Very truly yours, James E. Smith, Jr."

MR. CAMERON: Gregg, can we attach that to
the transcript?

MR. JOCOY: Please. It includes the fax
cover sheet.

MR. CAMERON: Okay, thank you very much.
MR. JOCOY: I had been anticipating two to
three minutes, so I trimmed my -- my presentation
down. But apparently I've got more than two or three
minutes, so fortunately I brought the longer version
with me, too.

This is a...

MR. CAMERON: Well, don't get too -- don't
get too carried away.

[Laughter.]

MR. JOCOY: Three pages versus two.
This is a statement of the York County
South Carolina Greens. The Nuclear Regulatory
Commission has issued a draft report for comment. The

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102 York County South Carolina Greens offer this comment
 1 on the environmental impact statement on the
 2 construction and operation of the mixed oxide fuel
 3 fabrication facility at the Savannah River Site.
 4 The Nuclear Regulatory Commission has
 5 stated at public hearings on record that they are a
 6 regulatory agency, alone, and plays no role in the
 7 promotion of nuclear energy. Were the nuclear
 8 industry examined with a careful eye, we are certain
 9 that none of the justifications for nuclear energy
 10 would stand scrutiny.
 11 The environmental impact statement
 12 addresses the question of cost versus benefits
 13 throughout. Because of this dynamic, it is impossible
 14 to believe that the Nuclear Regulatory Commission does
 15 not behave as a promoter of nuclear energy. The
 16 convergence of systems in the production of plutonium
 17 fuel and plutonium triggers for nuclear weapons lays
 18 bear the hydra nature of nuclear energy. Nuclear
 19 weapons cannot exist without nuclear power. The
 20 plutonium fuel program is nothing more than an attempt
 21 to prop up the nuclear energy industry, advance the
 22 production of new nuclear weapons which may well
 23 violate any number of international treaties the U.S.
 24 subscribes to, and line the pockets of those anytime-
 25

103 patriots who benefit from the promotion of war and
 1 misery. Were this an agency which had at its heart
 2 dedicated to regulating nuclear energy, it would be
 3 out of business within a few dozen years. Over that
 4 sort of time frame, almost all the difficulties we
 5 face from nuclear power will be manageable, providing
 6 that the NRC acts in the public interest and shuts
 7 down each and every operational power plant as unsafe.
 8 Instead, the NRC continues to offer a fig leaf to the
 9 nuclear industry, all the while deceiving the public
 10 as to who gets the benefits and who takes the risks.
 11 The simple, naked truth is that those who
 12 benefit from plutonium fuel programs can be counted in
 13 the hundreds, while those accepting the risks number
 14 in the millions. The top shareholders who will get
 15 the financial benefit of this program and the top
 16 managers at the companies involved will get a huge
 17 windfall from this program. New multi-million dollar
 18 homes, top-of-the-line college education, and world
 19 travel will be funded by this program, all for a very
 20 few. These are the ones getting the benefit from this
 21 proposal.
 22 Who takes the risks? These people and
 23 more? Perhaps. And certainly so in the case of some
 24 of the top managers of the companies in question.

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1 However, the stockholders who ownership stake (sic) 104
2 entitles them to profits from the effort are unlikely 105
3 to live anywhere close to the places where risks are
4 the highest. A stockholder who lives in France,
5 Japan, Saudi Arabia, the Bahamas, or any other tax
6 haven, nor one who lives in the swankiest places in
7 the United States is at substantial risk. In short,
8 the rich folks will, by and large, take no direct risk
9 to personal well-being, and millions of average people
10 will be close enough to the action to pay the costs.
11 The risk benefit analysis is unusable, for it assumes
12 that benefits flowing to a tiny portion of
13 shareholders are enough to justify the risks borne by
14 millions of others, almost all of whom will have no
15 chance to get a portion of the benefits.
16 Recently, Fred Rogers died. During a
17 radio appearance before he passed, he took a call from
18 a fellow who had heard him speak at his university's
19 graduation ceremony. During that speech he asked the
20 audience to think about the teachers who had brought
21 them to the point that they could graduate from
22 college. He gave them one minute. That's a long
23 time.
24 I ask us now to take a minute of silence
25 to remember. Remember the children you have raised,

1 the parents who raised you. Think about
2 grandchildren, born and as yet unborn. Think about
3 your loves, your friends, your co-workers. Consider
4 the serious nature of the risks you are considering
5 exposing them to, and think about plutonium fuel with
6 them in mind. Think seven generations down the road,
7 about where we are, how we got here, and how we can
8 get out of this mess. One minute to think.
9 Concentrate on those we love the most, who love us the
10 most.
(Momentary pause.)
11
12 MR. JOCOY: Thank you.
13 MR. CAMERON: Okay, thank you, Gregg.
14 We have another speaker, and someone from
15 the Charlotte Green Party. I'm sorry I didn't, you
16 know, have your name on the list.
17 DR. AULETTE: I wrote it down.
18 MR. CAMERON: Well, why don't you come up
19 and introduce us.
20 DR. AULETTE: Hello. My name is Dr. Judy
21 Aulette, and I'm a member of the Charlotte Area Green
22 Party. I'm here to present our organizations
23 reactions to DEIS.
24 The Charlotte Area Green Party would like
25 to thank the NRC for this opportunity to speak about

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106 the mixed oxide fuel factory proposed for the Savannah
 1 River nuclear site. At first glance, the draft
 2 environmental impact statement appears exhaustive,
 3 even to the point of being overwhelming. However,
 4 there is no overall assessment of the risk which would
 5 accumulate from all of the processes involved in the
 6 MOX production, in its transport, and in its use as a
 7 fuel. Information is presented in such a fragmented
 8 manner that it is very difficult to see the whole
 9 picture. No average citizen can be expected to glean
 10 from the statement the information necessary for a
 11 decision on whether or not to support the plans of --
 12 of Duke Cogema Stone for a MOX factory at the Savannah
 13 River Site.

14 In addition to there being no overall
 15 assessment of risk for humans and the environment,
 16 there are several additional issues we wish to
 17 mention. First of all, there is no environmental
 18 impact information on MOX use in the specific reactors
 19 which will eventually burn this fuel. These reactors
 20 will have to be modified for MOX. The effects that
 21 these modifications may have on performance of
 22 equipment at these reactors has not been considered in
 23 this DEIS.

24 Second, there is no consideration given to

107 the environmental impact of the lead test assembly
 1 program which will impact the Charlotte area as part
 2 of the preparation for the use of MOX. These impacts
 3 include not only the dangers of putting experimental
 4 fuel into a nuclear reactor core, but also the
 5 transport of the plutonium and fresh MOX fuel.
 6
 7 Third, there is not yet an environmental
 8 impact statement on the new plutonium pit factory in
 9 South Carolina that seems to be part of the whole
 10 deal. Such a report may not be an assigned duty of
 11 the NRC, but it is a study that is necessary for a
 12 complete assessment of risk of this ever-expanding
 13 plan.
 14 Fourth, although we were glad to see that
 15 the required environmental justice policy is being
 16 implemented, we do not believe the mitigation measures
 17 suggested are sufficient to achieve environmental
 18 justice for the low income populations in the area
 19 surrounding the SRS. At least these three additional
 20 efforts should be made.
 21 First, we believe there need to be warning
 22 sirens in the area of the facility; second, there
 23 should be free health care for those with health risks
 24 elevated due to the operation of the facility; three,
 25 some economic benefit should be provided for those who

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1 reside near the MOX facility to offset the economic
2 and health disadvantages of living in the area.
3 However, we want to be clear that these efforts do not
4 justify exposing any population to the hazards of MOX
5 production.

6 Fifth, there is no mention of possible
7 security problems at the facilities manufacturing and
8 handling MOX. There's now an undeniably higher risk
9 of domestic terrorism than ever before, and these
10 facilities would be prime terrorist targets. And I
11 know a lot of other people who articulated this very
12 well tonight, but I just thought it was worth
13 mentioning because I think it -- it is a serious
14 issue.

15 Sixth, someone, whether it is DOE or the
16 NRC, needs to do an environmental impact study of
17 waste management in the manufacture and use of MOX.
18 This is a particularly glaring omission of relevant
19 facts.

20 Although the Charlotte Area Green Party
21 appreciates the time and effort of the NRC in hosting
22 these hearings, it is our fear that the NRC is just
23 going through the motions of pretending to listen to
24 public comments, when the decision to build and use
25 the facilities is already being taken for granted by

109

77-8
cont.

1 the companies involved. Why, for example, has Duke
2 Energy already stated its commitment to the use of MOX
3 fuel? It appears they do not intend to pay attention
4 to the concerns of the public.

5 In closing, we would like to urge the NRC
6 not to approve the construction of the MOX factory at
7 the Savannah River nuclear site. The NRC's draft
8 environmental impact statement has failed to convince
9 us that this enterprise involves an acceptable level
10 of risk either to humans or to the natural
11 environment.

12 Thank you.

13 MR. CAMERON: Thank you, Doctor, for those
14 specific recommendations, too. We appreciated that.

15 That's the last speaker that we -- we
16 have. And I want to go out to you again to see if
17 there's any last questions. But I thought that I'd
18 ask Lawrence Kokajko if there's anything that he heard
19 that he might want to clarify for us.

20 MR. KOKAJKO: Thank you very much. I
21 appreciate you all coming out. We did hear some new
22 comments this evening that we have not heard in the
23 previous two meetings, and we do appreciate them. And
24 we also hear some of the same concerns, too, that
25 we've heard at both of the previous meetings, as well.

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1 I'd like to -- to provide a few 110
2 clarifications. One is the -- to use the MOX fuel in 1 details of that, but I do know that that committee
3 the reactors does require license amendment. And that 2 does exist and those things are occurring.
4 is handled by the Office of Nuclear Reactor 3 MS. OLSON: NRC's participating in that?
5 Regulation. And as -- as you may know, for an 4 MR. KOKAJKO: In ISCORES; yes, ma'am.
6 amendment to the operating license there is some type 5 MS. OLSON: Well, I know in ISCORES, but is
7 of environmental assessment done, as well as an 6 it...
8 opportunity for hearing. I do not know the full 7 MR. CAMERON: Let's -- let's make sure we
9 status of that, but I know the licensee has to do a 8 get this on the record. I apologize for the
10 review, and I know we have to do a review, and we have 9 awkwardness of not being able to just have a simple
11 to approve it. The project manager for that, I 10 conversation, but we do need to get it on the record.
12 believe his name is Robert Martin. And if you would 11 MS. OLSON: I appreciate that you're
13 like to contact him to get the details on that 12 telling people about ISCORES. I am aware of ISCORES.
14 amendment... 13 But I was not aware that NRC was participating in a
15 UNIDENTIFIED: I speak with him regularly. 14 consideration of a new way to set standards that would
16 MR. KOKAJKO: Okay. I -- I do not, so -- 15 consider children in a different way than the standard
17 but I do know that those things are done in the normal 16 man. So this is news to me. And let me understand
18 Part 50 process. 17 that you are saying that NRC is proactively seeking to
19 Also, you mentioned about EPA and NRC, 18 participate in this?
20 about the child doses. There is a -- in the federal 19 MR. KOKAJKO: The -- what I can tell you
21 government, a -- something called ISCORES, Interagency 20 is that we are aware of it and we're following the
22 Steering Committee on Radiation Safety. That is being 21 work. I cannot tell you that we have -- we have made
23 -- that is one of the topics that they do discuss, and 22 a -- reached an agreement with the EPA or anyone else
24 the NRC and the EPA are working together to come up 23 as far as what the outcome will be. But I do know
25 with something in that regard. I do not know the 24 that that work is -- is ongoing. That's -- that's
25 what I'm trying to tell you.

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112 One of the things that also was brought up
113 about Cogema, in particular. But the Duke Cogema
114 Stone & Webster consortium would be under our
115 oversight. If Cogema, to the extent that their
116 involvement in this activity, once it is licensed,
117 they would be within our regulatory reach. So Cogema
118 does not exist as this French entity that is beyond
119 our control. Because they've submitted themselves in
120 this consortium, and if this activity does get
121 licensed, that company, DCS, would be within our
122 regulatory reach.

123 And the final thing I want to say is that
124 there has been no approval, tentative or otherwise,
125 that has been made regarding the construction or
126 operation of this facility. DCS can take no action as
127 a result of the draft environmental impact statement
128 or even the final environmental impact statement.
129 That decision is based upon -- both the decision to --
130 to construct and operate the facility can only be made
131 after the safety evaluation is complete, the safety
132 evaluation reports are prepared, and any conclusion of
133 any adjudication, as a result of a hearing request,
134 has been made. So there has been no decision reached
135 anywhere in this process yet.

136 What we're saying in today (sic) is that

113 there is a -- for the environmental review, the
114 tentative conclusion is that we feel we understand the
115 environmental impacts, and we feel we understand it
116 enough that we wanted to come out and solicit public
117 comments. That's why it's a draft. That's why the
118 Congress, in its wisdom, said you will have two
119 processes here. You're going to go out with a draft
120 first and get -- seek other comments, and then you
121 come out with a final. And that's why we're here this
122 evening. So I'd like to make sure that we understand
123 no decision has been reached on the -- the proposed
124 MOX facility.

125 MR. CAMERON: Okay, thank you.
126 Is there anybody who has not had a chance
127 to ask a question or anything, that you've been
128 listening to a lot of us who's -- anybody else who
129 wants to ask a question or say anything?
130 Let me see if there's anybody else first,
131 and then we'll go over there. Anybody? All right.
132 MR. KEISLER: This is Bill Keisler again,
133 in regards to environmental justice. This included
134 this environmental impact statement, but there was a
135 paper given or a speech given I believe in Australia
136 July 2000 by one of the commissioners, stated that the
137 -- being an independent agency, the NRC was not bound

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1 by executive order for the application of
 2 environmental justice standards.
 3
 4 MR. HARRIS: I was at that meeting with
 5 Commissioner Dicus, and I don't believe she made that
 6 statement. I think the point...
 7
 8 MR. KEISLER: Well, it was on the Web site
 9 (indiscernible).
 10
 11 MR. HARRIS: ...I think the point she was
 12 trying to make was that environmental justice could be
 13 viewed in a broader sense.
 14 MR. KEISLER: She stated that it did not
 15 -- that they -- the NRC tried to accommodate it where
 16 they could, but was not bound by that executive order.
 17
 18 MR. CAMERON: Maybe I could...
 19 MR. KOKAJKO: Let me -- let me...
 20 MR. CAMERON: Go ahead, Lawrence, you --
 21
 22 MR. KOKAJKO: Okay, yeah, I -- I think I
 23 know the answer to this.
 24 There is -- we're under a federal system
 25 of government. Once again, the Congress, in its
 wisdom, when it set up the Commission, it -- we are --
 exist as an independent executive agency. And we do
 not follow under the executive branch, as say the
 Department of Energy or the Department of Commerce,

1 where they have to follow the presidential orders.
 2 What we do is, we evaluate them to see
 3 what may be applied to us, and then, you know, we may
 4 take it, we may not. The Securities and Exchange
 5 Commission also does the same thing. That they, as an
 6 independent agency, they can try to be independent of
 7 the executive branch as necessary.

8 The interesting thing is the NRC has said
 9 we would take the executive order on environmental
 10 justice and we would apply it. And we have, in fact,
 11 done so. Environmental justice is a very big concern.
 12 We are -- in fact, I know that our environmental
 13 review group, of which Tim and Adrienne and Stacy are
 14 involved in, take environmental justice very
 15 seriously. And, in fact, I would say that
 16 environmental justice has been one of the -- the
 17 stronger comments and themes throughout each of these
 18 meetings, particularly the first two meetings that we
 19 had on the draft environmental impact statement.
 20 So the answer is we are following the
 21 environmental justice. I believe we did write -- we
 22 did write back to the executive branch and we said we
 23 would follow it to the degree that it applied to our
 24 environmental impact statements.

25 MR. CAMERON: And -- and, in fact, the NRC

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