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Title: Nextera Energy Seabrook LLC,
Seabrook Station Unit 1

Docket Number: 50-443-LA2

ASLBP Number: 17-953-02-LA-BD01

Location: Rockville, Maryland

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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

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ATOMIC SAFETY AND LICENSING BOARD PANEL

HEARING

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In the Matter of:	:	Docket No.
NEXTERA ENERGY	:	50-443-LA2
SEABROOK, LLC	:	ASLBP No.
(Seabrook Station	:	17-953-02-LA-BD01
Unit One)	:	

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Thursday, June 29, 2017

Nuclear Regulatory Commission
Hearing Room T-3 B45
11545 Rockville Pike
Rockville, Maryland

BEFORE:

RONALD M. SPRITZER, Chair

NICHOLAS G. TRIKOUROS, Administrative Judge

DR. SEKAZI MTINGWA, Administrative Judge

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P-R-O-C-E-E-D-I-N-G-S

(10:03 a.m.)

JUDGE SPRITZER: Good morning everyone. We can see you. I trust you can see us. If you can't see us, please let me know. Very good. We are here this morning in the matter of NextEra Energy Seabrook LLC, concerning Seabrook Station Unit 1.

This is NRC docket number 50-443-LA2, also ASLBP number 17-953-02-LA-BD01. And we are here to hear oral argument on the questions of standing and contention admissibility in this matter.

My name is Ronald Spritzer. I am an administrative judge here at the NRC. I am an attorney. I've been here for approximately nine years and before that I was with the Justice Department in the Environment Division.

I'll ask my colleagues to my right and left to introduce themselves briefly.

JUDGE MTINGWA: Good morning. I'm Judge Sekazi Mtingwa. I am a nuclear physicist and retired from MIT about five years ago. Currently, I am a principal partner in a consulting firm called TriSEED Consultants in Hillsborough, North Carolina, and I've been an administrative judge here for the last year.

JUDGE TRIKOUROS: Good morning. My name

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1 is Nick Trikouros. I am also an administrative judge
2 for about the last 11 years. I am a nuclear engineer.
3 Prior to becoming an administrative judge, I was a
4 nuclear energy consultant for a number of years,
5 running my own consulting company.

6 JUDGE SPRITZER: Very good. Can we ask
7 the party's representatives to introduce themselves.
8 Let's start with the petitioners.

9 MS. TREAT: Good morning. I'm Natalie
10 Treat. I'm the executive director of the C-10
11 Research & Education Foundation. We are from
12 Newburyport, Massachusetts near Seabrook Station.

13 Would you like me to introduce -- so I'm
14 going to lead on the standing part of it, and I've got
15 a few of my board members, who will make comments on
16 contentions. Would you like them to introduce
17 themselves now?

18 JUDGE SPRITZER: Yes, that would be
19 helpful.

20 MS. TREAT: Here you are, Chris.

21 MR. NORD: Good morning.

22 JUDGE SPRITZER: Good morning.

23 MR. NORD: I'm Mr. Nord. I live in
24 Newbury, Massachusetts and am a longtime board member
25 and founding member of C-10.

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1 MS. DOENMEZ: Good morning. I'm Sarah
2 Doenmez. I am the academic dean of the Dublin School
3 in Dublin, New Hampshire, and I am a member of the
4 board of C-10.

5 MS. SKIBBEE: Good morning. I'm Pat
6 Skibbee, a longtime, probably 30 years' member of C-10
7 and president of the board of directors. Nice to meet
8 you.

9 JUDGE SPRITZER: Thank you. All right.
10 We've covered C-10. Let's move on for the NRC staff.
11 Who are the representatives for the staff who will be
12 speaking?

13 MR. HARRIS: Good morning, Your Honor.
14 This is Brian Harris. I'm the lead attorney for the
15 staff and with me I have co-counsel that will be
16 off-screen. I imagine I'll be doing most of the
17 talking for this argument, but with me is Ms. Anita
18 Ghosh and Mr. Jeremy Wachutka.

19 JUDGE SPRITZER: Very well. And for
20 Seabrook, NextEra Energy?

21 MR. LIGHTY: Thank you, Your Honor. This
22 is Ryan Lighty with Morgan, Lewis, and I will be the
23 primary spokesperson today. I'm also joined by my
24 fellow representatives Paul Bessette, also with
25 Morgan, Lewis and Steve Hamrick with NextEra.

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1 JUDGE SPRITZER: Very good. That about
2 covers it, I believe. We think we have people
3 listening on the phone. Unfortunately, we don't know
4 precisely the number, but a number of people did call
5 in and indicate they were planning on listening in,
6 but I understand their phones are muted so we
7 shouldn't be interrupted.

8 In the event anyone is presently on the
9 line, let me at least give a brief explanation of what
10 this case involves. The petition filed by the C-10
11 Research & Education Foundation is challenging a
12 license amendment request, which you may hear referred
13 to as the LAR, which seeks to adopt a particular
14 methodology for analyzing a problem called the
15 alkali-silica reaction and its effect on concrete at
16 the safety-related structures at the Seabrook plant.

17 Petitioners are challenging the adequacy
18 of that methodology, and we will be hearing argument
19 first about their standing, which basically means
20 whether they have alleged a legally sufficient injury
21 to be entitled to bring the case.

22 And then second, we will be hearing
23 argument about their contentions, particularly whether
24 those contentions satisfy the criteria adopted by the
25 Nuclear Regulatory Commission for proceeding to the

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1 next stage of the case, which would involve
2 potentially an evidentiary hearing or at least a
3 decision on the merits of their claim.

4 As far as time limits for argument, we've
5 indicated those in our order. We will adhere to those
6 to the extent possible, but the primary purpose of
7 this argument is for you to answer our questions, so
8 we're not going to interrupt anybody in the middle of
9 an answer. We will allow you to speak as long as
10 necessary to get the answers to our questions.

11 If you're getting close to your time
12 limit, I will attempt to give you a warning. I don't
13 think we can use the cards that we normally use at an
14 in-person oral argument, but I'll try and give you a
15 warning if we're getting close to your time limit.
16 But, as I said, we will allow you the time you need to
17 answer our questions.

18 If, at some point, you need to confer with
19 someone else who's with you, and you don't want us to
20 hear what you're saying, which I suspect would be the
21 case, you'll need to mute your phone. I think they
22 can also turn off the camera. Correct? So you can
23 mute both those things.

24 Just let us know you need to confer, and
25 we'll take a break, a short break, not leaving the

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1 room, but we'll give you adequate time to do that, and
2 we won't hold any time you take for that against you.
3 That is, it won't count against your time limit.

4 We will take a full break, that is leaving
5 the courtroom, probably about halfway through. I
6 would guess that would be around 11:30, although it
7 depends on what the most convenient time is. I think
8 that covers the administrative matters. Does anyone
9 have any questions before we get started?

10 Hearing none, we will proceed. We will
11 hear first from the petitioners, and I take it the
12 first argument will be on standing presented by Ms.
13 Treat.

14 MS. TREAT: That's correct. Okay. Well,
15 thank you everyone. Good morning, Chairman Spritzer
16 and Judge Trikouros and Mtingwa. Thank you for the
17 opportunity to come before you today. As mentioned,
18 I'm Natalie Treat, executive director of the C-10
19 Research & Education Foundation, Incorporated. And as
20 you heard, I'm here with members of my board of
21 directors, who will speak on the contentions that we
22 raised in our April 10th petition.

23 As you see, we are seeking to intervene
24 pro se. I began this position here at C-10 in March,
25 and as you've heard, my board of directors has been at

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1 it for a lot longer, tracking safety issues at
2 Seabrook for decades. So we thank the board for your
3 forbearance as we share the job of presenting today.

4 The C-10 Foundation has maintained our
5 standing as a legitimate voice of concern for public
6 health and safety within our reactor community, where
7 we have monitored both the radioactive emissions and
8 the general operation and condition of the plant since
9 well before NextEra assumed Seabrook's ownership.

10 Born out of a group of citizens who live
11 within the ten-mile radius of Seabrook Station and
12 were concerned with the viability of emergency
13 evacuation plans, the C-10 Research & Education
14 Foundation, Incorporated was established in 1991.

15 We have operated a real-time airborne
16 radiation monitoring network under contract with the
17 Commonwealth of Massachusetts since the plant went
18 online, and we have expressed a concern about ASR
19 since 2010.

20 It is worth noting that the C-10
21 Foundation is the only organization seeking to
22 intervene in this important docket. Several state and
23 local leaders are on record with NRC expressing their
24 concern with Seabrook's concrete and the possibility
25 of a failure would cause grave harm to the public,

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1 which includes their constituents and our members.

2 So here are the reasons why we believe we
3 should be granted standing before the board. NRC has
4 acknowledged that the concrete at Seabrook Station is
5 failing due to alkali-silica reaction or ASR and that
6 there is no known remedy. That is why NextEra was
7 compelled to file a license amendment request and
8 that's why we are here today.

9 NRC has admitted that you cannot know the
10 true rate or extent of the concrete degradation,
11 therefore cannot know when a catastrophic failure may
12 happen. Reasonable assurance of adequate protection
13 for the public is NRC's ultimate responsibility.

14 The concrete walls and containment dome at
15 Seabrook that are experiencing ASR are what separates
16 C-10, its members and the public-at-large from
17 exposure to some of the most deadly toxins on earth.
18 C-10 Foundation's office and my home are both within
19 the ten-mile radius of Seabrook Station thus in harm's
20 path should there be a significant release of
21 radiation.

22 The majority of our members and board live
23 within the ten-mile emergency planning zone and no one
24 believes that a catastrophic event, such as Three Mile
25 Island, Chernobyl or Fukushima can happen until it

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1 does. But, as we know, accidents can and do happen.

2 While the NRC claims our alleged injury is
3 merely hypothetical, by acknowledging in its response
4 to our April 10th petition that we have made a viable
5 contention, NRC has also effectively admitted that
6 C-10 and our members are exposed to the risk of harm
7 due to radiological contamination resulting from the
8 concrete degradation.

9 If this license amendment request is
10 granted, C-10, our members and the public-at-large
11 will remain at heightened risk of physical and
12 financial harm should the degraded concrete ultimately
13 fail.

14 The facts alleged in our findings to date
15 have satisfied both traditional and proximity-based
16 standing requirements. The organization of C-10 would
17 be harmed if failing concrete at Seabrook's
18 containment structures contributed to a radiological
19 release that caused us to evacuate our office and
20 cease operations.

21 Given the choice of staying or fleeing the
22 area with my young child, I would of course evacuate
23 and be unable to perform my job as contracted with the
24 Commonwealth of Massachusetts Department of Public
25 Health.

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1 Likewise, our board of directors and
2 members would be forced to evacuate their homes with
3 a potential for serious physical and financial losses.
4 As NRC staff knows, the fact that our petition did not
5 also include a separate affidavit laying out these
6 facts is not a fatal deficiency.

7 To quote from the U.S. NRC Staff Practice
8 and Procedure Digest number 15, "If an official of an
9 organization has the requisite personal interest to
10 support an intervention petition, her signature on the
11 organization's petition for intervention is enough to
12 give the organization standing to intervene."

13 JUDGE SPRITZER: What was the citation,
14 you said the NRC Practice and Procedure Digest and --

15 MS. TREAT: The U.S. NRC Staff Practice
16 and Procedure Digest Number 15, Page 165. It was
17 pre-hearing matter 78, dated January 2010. And we're
18 happy to follow up on this and do written comments of
19 our oral statements if that's helpful, Judge.

20 JUDGE SPRITZER: Only if we ask you to, I
21 think.

22 MS. TREAT: Great. So I'm the executive
23 director, who signed the petition under direction from
24 my board. To restate, Seabrook's concrete is failing.
25 The rate, extent and point of failure remain unknown.

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1 NextEra's LAR seeks to prove that the concrete will
2 continue to perform as designed.

3 Our contention is to ask NRC regulators to
4 consider if that is true. We have demonstrated
5 standing in this docket and that the organization of
6 C-10, I and our members, along with the general public
7 will be harmed if the concrete fails and triggers a
8 radioactive release.

9 NRC staff has admitted that the C-10
10 Foundation made admissible contentions. So we are
11 asking you, the agency whose mission it is to protect
12 people and the environment, to carry out this duty.
13 We do not believe we should be the ones defending
14 ourselves for the right to speak. The burden should
15 be on NextEra and NRC to ensure ongoing public health
16 and safety. Thank you.

17 JUDGE SPRITZER: Very well. We'll next
18 hear, as I understand it, from Mr. Nord on the
19 contentions?

20 MS. TREAT: Yes.

21 JUDGE MTINGWA: Before we proceed, could
22 I as a quick question about what she just --

23 JUDGE SPRITZER: Certainly.

24 JUDGE MTINGWA: Ms. Treat, could I ask you
25 a question? So you are claiming both organizational

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1 and representational standing, is that correct? You
2 didn't say it explicitly, but it's sort of implicit.
3 So are you claiming both?

4 MS. TREAT: Yes.

5 JUDGE MTINGWA: Okay, thank you.

6 MS. TREAT: Thank you.

7 MR. NORD: So thank you, everyone, once
8 again for the opportunity on behalf of C-10 to address
9 this court and the other participants here on this
10 hugely important matter. If you all are ready, I will
11 go ahead with my first comment on the contentions.

12 I'm not alone in addressing contentions,
13 I'm one of three, but I'll be first up. So --

14 MR. HARRIS: Your Honor, if could
15 interrupt. This is Brian Harris of the staff.
16 There's an echo going on on the audio.

17 MR. NORD: It's just the way I talk.

18 MR. HARRIS: That was better.

19 MR. NORD: And if I look like I'm chewing
20 on something, it's because I've got a cough drop in my
21 mouth, so my apologies for that. So are you all ready
22 for me to present?

23 JUDGE SPRITZER: Absolutely, go ahead.

24 MR. NORD: Very good. While C-10 is
25 generally amenable to NRC staff's reconfiguration of

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1 the contentions within our petition for leave to
2 intervene, we do wish to raise some important points
3 of disagreement with staff concerning their objections
4 to aspects of specific contentions.

5 First, is Contention B. Contention B
6 argues, this is a quote from NRC staff from their
7 answer to us on 5-5-2017, "Contention B argues that
8 expansion occurring within a reinforced concrete
9 structure due to ASR is not equivalent to a
10 pre-stressing effect.

11 This argument is not material to the
12 findings that NRC must make, because the LAR depends
13 on limits derived from the MPR/vessel large-scale test
14 programs, such that as long as the test program was
15 bounding of the Seabrook concrete then the limits
16 would also be bounding" et cetera, I'm not going to
17 read the whole thing.

18 C-10 must take issue with staff's rebuttal
19 as tidy as it presents the potentially fatal flaw
20 embedded here has to do with the health and safety of
21 nearby residents. The Ferguson data may appear to
22 show a pre-stressing effect for ASR-attacked
23 reinforced concrete, but according to Dr. Brown, who
24 is our expert witness on this matter, the change in
25 strength of such concrete is temporal and dynamic only

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1 in one direction, toward failure.

2 Since the timing of the failure of
3 ASR-attacked reinforced concrete cannot be anticipated
4 with accuracy, and because such concrete may be within
5 the supporting structure of the spent fuel pool, it is
6 incumbent of the NRC not to treat such ASR-attacked
7 concrete as "equivalent" to pre-stressing.

8 To do so is to turn a blind eye to the
9 potentially dangerous degradation that is really at
10 work at the atomic power facility that you are
11 responsible for in a community to whom you are
12 accountable.

13 For these reasons, the importance of the
14 distinction between the changing impact of ASR and the
15 appearance of equivalence to pre-stressing is
16 certainly germane to NextEra's license amendment
17 request. And the citation that we have for Paul Brown
18 is from our C-10 petition, Page 5, Paragraph 5 through
19 7.

20 My next comment is on Contention C. Oh,
21 I'm sorry. This is where I step out and one of our
22 other board members is going to address the question
23 of petrographic analysis. So, this is will be Sarah
24 Doenmez.

25 MS. DOENMEZ: Good morning.

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1 JUDGE SPRITZER: Good morning.

2 MS. DOENMEZ: The presence of ASR in all
3 buildings of the Seabrook Nuclear Power Station is
4 assumed by NextEra. The fact of cracking in
5 containment and the spent fuel pool is recognized.
6 That ASR is a progressive and irreversible condition
7 is established.

8 That Seabrook is operating outside its
9 current license is established. That there is no
10 remedy for ASR is known. Since ASR has never before
11 been dealt with in a nuclear power station in the
12 United States, all possible measures and an abundance
13 of caution should be employed in handling the question
14 of the future of the Seabrook Nuclear Power Station.

15 NextEra contends that its visual
16 monitoring of the surface of Seabrook structures is
17 sufficient, that it has put extensometers in place and
18 that the Texas test has shown that ASR conditions at
19 Seabrook do not compromise the operability of the
20 buildings there. It states that it will start to
21 collect data to study trending from 2016 to 2030 using
22 these extensometers, which I believe are not yet in
23 place.

24 C-10 recognizes and is fully aware that
25 ASR exists at Seabrook and that NextEra monitors its

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1 progression by visual inspections in accordance with
2 an NRC schedule. But we are not asking that ASR
3 merely be detected. What we need is full disclosure
4 of the extent of ASR throughout the station, and the
5 evaluation of that condition that can be independently
6 assessed by impartial experts, as well as of the rate
7 of progression since the ASR was first detected in
8 2009.

9 The only meaningful question in
10 considering the future operability of the Seabrook
11 Nuclear Power Station is when the ASR condition will
12 render the station dangerous to the public. When will
13 the walls crack through? When are buildings likely to
14 be able to collapse? When will the rebar
15 reinforcement corrode? How can we project this point
16 of deterioration?

17 In order to get to that kind of an
18 understanding, thorough petrographic analysis of core
19 samples must be done in conformance with standards,
20 I'm sorry, ACI 349.3R and ASTM 856-11.

21 JUDGE SPRITZER: One of our questions for
22 C-10 was to explain what you mean by petrographic
23 analysis. Can you provide us some --

24 MS. DOENMEZ: What we mean by petrographic
25 analysis is the evaluation of the core sampling for

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1 the interior of the concrete. As Paul Brown states,
2 the microcracking in rebar-reinforced concrete may not
3 be visible on the surface. The core sampling and the
4 analysis of those core sampling by chemical means and
5 for tensile strength are part of an analysis of
6 petrography that is not just a visual looking at core
7 samples.

8 NextEra has stated that it has taken some
9 samples and looked at them visually, but not subjected
10 them to that thorough analysis that is necessary to
11 evaluate the strength of the interior of the building.

12 JUDGE SPRITZER: You also say that NextEra
13 plans to discontinue, this is in your petition, that
14 NextEra plans to discontinue core sample testing or is
15 attempting to avoid such testing. What's the basis of
16 that statement?

17 MS. DOENMEZ: NextEra took some samples in
18 2015 that were supposed to be submitted to the NRC for
19 further inspection. Some of those samples were given
20 to the NRC, others were not. They then concluded that
21 there were going to be further core samples taken when
22 the extensometers were going to in place, which was
23 supposed to happen in 2016.

24 To the best of our knowledge, some of
25 those extensometers were in place and some core

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1 samples may have been derived at that time. The
2 reporting on core sampling that we have seen to date
3 is one paragraph in a February 2017 report. It's very
4 clear that despite a call for core sampling, NextEra
5 has preferred other methods and not followed through
6 with analysis beyond a visual inspection of core
7 samples.

8 I have further text on that if you'd like
9 me to go to that point.

10 JUDGE SPRITZER: All right.

11 MS. DOENMEZ: The full extent of the
12 information given to us on core sampling done by
13 NextEra came in an email from Fred Bower to Debbie
14 Grinnell in 2015, where he says, "Our conclusions
15 regarding NextEra's core sampling and testing
16 activities are described in NRC inspection reports,
17 which were claimed to be available on the website. I
18 was unable to find them.

19 For affected structures, NextEra staff
20 assessed structural design attributes using bounding
21 values for assumed ASR degradation derived from core
22 industry test data. These evaluations were informed
23 using the material property test results from core
24 samples from various Seabrook ASR affected and
25 nonaffected structures." That was in 2015. It's an

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1 email from Fred Bower to Debbie Grinnell.

2 There is not a lot of detail communicated
3 here, but it does suggest some use of core sampling.
4 There were also mentioned in this email the fact that
5 there were 30 cores, 20 of which seemed to have been
6 reviewed, ten of which were not. And it appears to be
7 the case that NextEra changed their mind about handing
8 over five of the core samples to the NRC at that time.

9 JUDGE SPRITZER: Is this email you're
10 referring to, has this been submitted to us? I'm not
11 familiar with it.

12 MS. DOENMEZ: To you, it is in, I believe
13 it is in ML14112A323.

14 JUDGE SPRITZER: All right.

15 MS. DOENMEZ: I guess my time is up, and
16 I will turn it over to Pat Skibbee for attention to
17 other contentions.

18 JUDGE SPRITZER: All right. Thank you.

19 MS. DOENMEZ: I'm sorry, to Chris Nord.

20 MR. NORD: So on to Contention D. Quoting
21 from NRC staff answer to C-10 from the 5th of May,
22 "Contention D is not admissible in and of itself,
23 because it does not explain why its representative
24 argument is within the scope of the proceeding or
25 material to any of the findings its staff must make.

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1 Contention D merely asserts in the
2 abstract that the test program is not representative
3 of the Seabrook concrete and does not explain what
4 effect this lack of representativeness has on the LAR
5 or on the findings that staff must make on the LAR."

6 So our response is as follows. Contrary
7 to the assertions made by staff with regard to their
8 claim of inadmissibility of C-10's Contention D for
9 not explaining why representativeness is within the
10 scope of the proceedings, C-10 very specifically
11 addressed this point.

12 Both staff and NextEra seem to want to
13 make the concept of representativeness something we
14 have introduced on our own. In fact, we make plain
15 that representativeness of new Texas concrete as the
16 source of testing data to be used for the strength of
17 Seabrook's three-plus-decade old concrete is a concept
18 that NextEra made central to their license amendment
19 request.

20 Because NextEra's contractor for the
21 Ferguson project, MPR Associates, made so succinctly
22 their understanding of the central importance NextEra
23 has given representativeness to the issue of how
24 Seabrook's concrete strength may be analyzed and their
25 understanding of why they were contracted for testing

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1 and analysis at Ferguson by NextEra, C-10 quoted from
2 their LAR supporting document, MPR-4288, in our
3 petition for lead to intervene.

4 And just to take one sample of that, "The
5 application of the conclusions from the literature to
6 structure at Seabrook Station can be challenged by
7 lack of representativeness. As a result, for selected
8 structural limit states, NextEra commissioned MPR to
9 perform large-scale structural testing using specimens
10 that were designed and fabricated to be representative
11 of structures at Seabrook Station."

12 Obviously, NextEra uses nearly identical
13 language concerning representativeness within the body
14 of the LAR itself. And I have three examples. First
15 example, "The specimens that were used in testing were
16 structurally representative of concrete used in
17 constructing Seabrook." That's Page 15, Paragraph 1.

18 The second one, "Although structural
19 testing of ASR-affected test specimens has been
20 performed, the application of conclusions to the
21 specific structure can be challenged by lack of
22 representativeness in the data." And that's Page 15,
23 Paragraph 3.

24 And then the last one, "The large-scale
25 test programs included testing specimens that

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1 reflected the characteristics of ASR-affected
2 structures at Seabrook Station." That's on Page 15,
3 Paragraph 4.

4 C-10 elected to quote from MPR Associates
5 in our petition to establish that the firm in charge
6 of the testing program that forms the experimental
7 basis of the LAR, and I want to emphasize that this is
8 experimental, clearly understood that the appearance
9 of representativeness was a goal of the project and
10 therefore central to the LAR.

11 And in its turn, this appearance of
12 representativeness that is central to our opposition
13 to LAR, NextEra has attempted a kind of sleight of
14 hand in creating a facade of legitimacy around testing
15 purpose-formed Texas concrete for strength data in
16 place of their own New Hampshire salt marsh variety
17 while calling the use of Seabrook Station concrete
18 impractical without justification.

19 MPR was not blind to the pitfalls of a
20 test program that, in their own words, "is unique in
21 the industry and purpose, scale and methodology",
22 which is why we're calling it experimental. They name
23 the criterion, which they and NextEra understand must
24 be met in order for the LAR to have merit. "The
25 application of the results of the vessel test program

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1 requires that the test specimens be representative of
2 reinforced concrete at Seabrook Station." And that is
3 in our C-10 petition for lead to intervene Page 9,
4 Paragraph 2.

5 Because NextEra and MPR have repeatedly
6 stated the significance of representativeness as a
7 criterion of the applicability of the Ferguson project
8 to Seabrook's ASR degradation, the burden of proof is
9 not on C-10 to establish how representativeness may be
10 germane to the proceedings.

11 NextEra must defend how the Ferguson
12 project can in any way represent the ongoing ASR
13 degradation here on the New England coast. In C-10's
14 judgement, it does not.

15 JUDGE SPRITZER: Our second question on
16 contention of admissibility was what would satisfy
17 C-10 that the limits derived from the LSTP results are
18 bounding of the Seabrook Unit 1 concrete. Can you
19 answer that?

20 MR. NORD: I could. We're a little out of
21 order here. I don't mean as far as your process goes,
22 but our intention was to go all the way through our
23 presentations concerning contentions and then go with
24 the questions. We want to make sure that we don't go
25 over our time for the presentation part. But, if you

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1 want us to answer directly now according to those
2 questions that were submitted, I'd be happy to do it.

3 JUDGE SPRITZER: Yes, that would be
4 helpful. That's our primary interest here. All of us
5 have read your petition in detail.

6 MR. NORD: So you would like me to go
7 ahead and answer the question?

8 JUDGE SPRITZER: Yes.

9 MR. NORD: Okay.

10 MS. TREAT: Do you have that question in
11 front of you?

12 MR. NORD: I'm trying to find it.

13 MS. TREAT: Okay, it's right here, number
14 two.

15 MR. NORD: Number two, good. Okay. What
16 would satisfy C-10 or staff that the limits derived?
17 Understood. Okay. C-10's answer is as follows. If
18 large-scale testing was needed to establish data for
19 comprehensive monitoring of Seabrook Unit 1's ASR, why
20 was such testing of concrete sections cut from Unit 2
21 considered impractical while purpose-formed relatively
22 short-lived concrete with rapidly propagating ASR from
23 entirely different sources are to be accepted as
24 representative?

25 Unit 2's concrete is for all intents and

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1 purposes the same age, subject to the same conditions
2 of weather and water without the radiation exposure of
3 course, which we cite in our petition as known to have
4 a further deleterious effect, and which would
5 therefore have to be factored in.

6 C-10 has asked this question concerning
7 why Unit 2 wasn't used literally for years now in
8 every official form available to us with virtual
9 silence in response. The most important quality which
10 NextEra and MPR have failed to quantify is one they
11 themselves have highlighted, representativeness, as I
12 just mentioned.

13 Because the concrete used in Texas has so
14 little in common with the in situ concrete of Seabrook
15 Station, as C-10 lays out all through Contention D,
16 the data derived has only the most general
17 relationship to Seabrook in terms of ASR progression.

18 And how then can its applicability be
19 reliably quantified in a way that is useful for
20 Seabrook's problem. The relevance of the data derived
21 from the Ferguson study is unknown, and for the sake
22 of the health and safety of the community surrounding
23 Seabrook, this should be considered inapplicable.

24 As to the specific question about
25 bounding, I want to point out that, you know, bounding

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1 has been used in a couple of different ways and
2 apparently means a couple of different things.

3 Bound can mean to exceed and that's how
4 NextEra has used it. Bound can also mean to
5 encompass. And in the sense that the Ferguson test
6 encompasses Seabrook for all of the reasons that we
7 have stated and that NRC staff had actually bundled
8 together so eloquently in their response to us, we do
9 not consider that the Ferguson test is bounding of or
10 is encompassing of the Seabrook ASR problem. That's
11 as detailed as I can get it.

12 MS. TREAT: That wasn't the question.

13 MR. NORD: That wasn't the --

14 MS. TREAT: The question is what would
15 satisfy --

16 MR. NORD: Oh, what would satisfy C-10, as
17 we have attempted to say repeatedly in every forum as
18 I have mentioned, is that we see thorough petrographic
19 analysis of the concrete at Seabrook in order to have
20 a basis to compare the data from Texas to see that it
21 has any relationship to what is going on at Seabrook.

22 And if for some reason that is judged to
23 be impossible with the active Unit 1, then you
24 certainly have a reactor sitting right next door
25 that's all closed up that could be used. The concrete

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1 from that could certainly be used. It's all
2 reinforced exactly the same way as the one next door.

3 It seems to us an obvious treatment of
4 this problem and unless and until that's done, this is
5 not bounding. And I wanted to go back to something
6 that was said a little earlier by Ms. Doenmez about
7 petrographic analysis, just to say that none of us are
8 engineers. I'm sure that's obvious to all of you.

9 We're simply lay people who are trying to
10 get this task done because of the extreme importance
11 of it. So we're following the lead of our expert, Dr.
12 Paul Brown, who has made very clear that the ACI and
13 ASTM standards that we have already cited for you are
14 the ones that he believes should be followed.

15 And to just take one piece of that, for
16 instance, testing crack width indexing and using
17 extensometers is not in itself to be considered
18 thorough petrographic analysis. It's a part of, but
19 to call that petrographic analysis is not to get us
20 the whole picture of the degradation of Seabrook.

21 JUDGE MTINGWA: Is it your understanding
22 that the concrete used in Unit 2 precisely the same as
23 the concrete used in Unit 1?

24 MR. NORD: My answer to that is, you know,
25 again, I'm not a concrete expert. I just know that to

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1 the best of my knowledge, the concrete was gotten from
2 generally the same site for both units. They were
3 poured within a matter of years of each other, as
4 opposed to a 30-year difference.

5 Both of those units have stood out in the
6 weather, have been subject to degradation having to do
7 with inundation from the salt marsh. They've been
8 subject to brackish water. All of those things that
9 have happened to Unit 1's concrete has happened to
10 Unit 2's concrete, except for the radiation exposure,
11 which according to NRC's own documents, which we have
12 cited in our petition, indicate that radiation can
13 have a deleterious impact. And that that impact will
14 actually be magnified by ASR.

15 So it's going to be a much closer fit than
16 the concrete that is purpose-formed that is relatively
17 short-lived that was used in Texas for the Ferguson
18 study subjected to 28-day tests. It can't get any
19 closer than that.

20 I'm getting hand signals from my boss over
21 here. We want to just make sure that we're not way
22 over time. We have one more important presentation
23 that we want to make --

24 JUDGE SPRITZER: Before you do that, Judge
25 Trikouros has a question.

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1 MR. NORD: -- so, you know, I'm trying to
2 answer them, but hopefully, you're going to give us
3 the time we need to get through all this.

4 JUDGE TRIKOUROS: We'll give you the time.

5 MR. NORD: Okay, thank you.

6 JUDGE TRIKOUROS: In the cover letter that
7 accompanied Dr. Brown's analysis --

8 MR. NORD: Yes.

9 JUDGE TRIKOUROS: -- basically it said
10 that C-10 and UCS have reviewed Dr. Brown's analysis,
11 and they urged the NRC to deny the license amendment
12 until certain things happened.

13 There were three specific things that were
14 called out. One was that appropriate tests be carried
15 out, which you've been discussing now. Two, to
16 develop a specific system for monitoring Seabrook's
17 structures. And, three, to develop a specific plan
18 for responding to the future progress of ASR.

19 Now, of those three, is the appropriate
20 testing the only one that concerns you at this point?

21 MR. NORD: Well, I'm a little stumped
22 trying to answer this question, because my
23 understanding of this hearing was that our point was
24 to speak in opposition to adoption of the LAR. And
25 you're asking questions that are leading us beyond the

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1 license amendment request itself. Can we have a
2 minute to discuss between us?

3 JUDGE TRIKOUROS: Well, let me point out
4 that one of the major purposes of the LAR was to
5 develop a specific monitoring system, so many of the
6 tables in the LAR are dealing specifically with
7 monitoring.

8 MR. NORD: Absolutely.

9 JUDGE TRIKOUROS: All right.

10 MR. NORD: Correct. So, you know, is the
11 -- okay, I'm seeing taps that I should not say another
12 word until we have a chance to speak, so we're going
13 to mute for a minute.

14 JUDGE SPRITZER: All right, go ahead.

15 (Whereupon, the above-entitled matter went
16 off the record at 10:43 a.m. and resumed at 10:44
17 a.m.)

18 MS. TREAT: I'm sorry, was that Judge
19 Spritzer that asked the question or was it about the
20 cover letter? Were you referring to the batch of
21 board comments that were submitted on March 9th or
22 about our petition to intervene on April 10th?

23 JUDGE TRIKOUROS: Yes, this was October
24 21st letter to Justin Poole from the then executive
25 director of C-10.

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1 MS. TREAT: Okay, that was before. So it
2 was the October letter. Okay, it was about submitting
3 the comments.

4 JUDGE TRIKOUROS: And it attached the Dr.
5 Brown analysis.

6 MS. TREAT: Okay. Was that sent as an
7 appendix to our filings this spring or it just stood
8 alone as an earlier submission?

9 JUDGE TRIKOUROS: One second.

10 MS. TREAT: You don't know? As I
11 mentioned, I'd come on board here in March and our
12 board has been leading the effort, as you can see, on
13 the contentions. So it's the October 2015 that Sandy
14 submitted.

15 JUDGE TRIKOUROS: Yes, you did not send us
16 that document, but you did reference it, and we were
17 able to find it in --

18 MS. TREAT: It was referenced in our
19 comments, and it was what -- yes.

20 MR. NORD: Okay, so it's October 15th,
21 correct? Of what year, October 15th?

22 MS. TREAT: Did you say that was 2015 or
23 '16?

24 JUDGE TRIKOUROS: October 21st of '16.

25 MS. TREAT: '16, last fall. We'll try to

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1 keep it brief. Thank you.

2 (Whereupon, the above-entitled matter went
3 off the record at 10:46 a.m. and resumed at 10:47
4 a.m.)

5 MR. NORD: My apologies to you all, we
6 have not been able to find the specific document so
7 that we can see it. I'm going to try to state as
8 simply as possible that our interest is to see the
9 Nuclear Regulatory Commission and, through the Nuclear
10 Regulatory Commission, the licensee follow existing
11 well-established standards for petrographic analysis
12 that are the standards from ACI and ASTM that we
13 mentioned above, those apply specifically to nuclear
14 plants.

15 That's what we would like to see. That's
16 what our expert witness has called for. And we're
17 going to get much closer to knowing what's actually
18 going on with the ASR problem at Seabrook if that
19 happens. And unless and until that happens, the
20 results that we find from the Ferguson study are not
21 bounding of the Seabrook ASR problem for the reasons
22 I've already stated.

23 JUDGE TRIKOUROS: Okay. The logic I'm
24 trying to get through is this. There is a monitoring
25 program in place identified in the LAR. That

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1 monitoring program has certain limits, acceptance
2 criteria that are derived from the large-scale testing
3 program.

4 And your contention is, and Dr. Brown's
5 comments are specifically stating that that test
6 program data is not representative of Seabrook.
7 Therefore, anything associated with it would not be
8 appropriate for Seabrook.

9 However, you also state, and I believe Dr.
10 Brown also states that the large-scale testing program
11 would be acceptable if there were appropriate testing
12 done on the Seabrook concrete itself. Such, and I'm
13 drawing a conclusion here, such that there would be
14 let's say a benchmarking of the testing program to the
15 plant. Is that correct?

16 MR. NORD: As I said before, the testing
17 that was done at Ferguson, its applicability to
18 Seabrook is unknown. It's unknown. Because we don't
19 know, as you said benchmarking, we don't know what its
20 relationship is to Seabrook.

21 We need a study done that involves actual
22 Seabrook concrete in order to have any idea what
23 relationship the Ferguson test has to Seabrook
24 concrete, first of all. Second of all, we need to
25 know in the kind of testing that was done at Ferguson,

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1 where the tipping point is, where the failure point is
2 beyond the tipping point, because the Ferguson test
3 did not test out that far.

4 And we have comments that we want to make
5 that I am not prepped to do, but one of our presenters
6 today is set to do that when we have a chance to get
7 to that. But, you know, there are certain things that
8 we have called upon you all to institute, so we're
9 trying to get to that. I'd like to turn over the
10 chair here to Sarah Doenmez, who is going to try to
11 complete your answer.

12 JUDGE TRIKOUROS: Before you do that, it
13 appears that, if appropriate tests were done to your
14 satisfaction, then you would consider -- and assuming
15 the answers were of an appropriate benchmark to the
16 test data, then you would consider the testing program
17 representative and therefore, the LAR monitoring
18 program would be acceptable. Does that logic follow
19 correctly?

20 MR. NORD: I think, based on the questions
21 that have been put before us as far as certifying the
22 LAR or not certifying, we're going to remain standing
23 in opposition to the LAR as it was presented to us.
24 So I'm going to relinquish the chair here to Ms.
25 Doenmez.

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1 MS. DOENMEZ: Thanks. I just want to
2 address the aspect of your question that has to do
3 with the testing as proposed in the LAR. First of
4 all, I'll just make it clear that we only saw a
5 nonproprietary version of the LAR so that the test
6 data was blanked out in certain places.

7 But, I will say that the LAR envisions a
8 program of visual monitoring of the structures of
9 Seabrook on a tiered program of Tiers 1, 2 and 3.
10 They list even the containment building, which is
11 known to have severe outer cracking and building
12 deformation as a Tier 1 problem, the least of the
13 severe problems, which means monitoring, I think, only
14 on the scale of time of every year.

15 We would not view external visual
16 monitoring, even if it does use the cracking index, as
17 sufficient testing whether of Ferguson or of Seabrook
18 concrete unless we have some kind of thorough
19 petrographic testing that uses core sampling over
20 time, petrochemical analysis for shearing and for
21 tensile strength.

22 None of Seabrook's current comments or
23 NextEra's current comments on Seabrook talk about the
24 tensile strength of that building. Until we have
25 testing that looks at the strength of the rebar, we

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1 would not be satisfied with the testing program
2 outlined in the LAR.

3 JUDGE SPRITZER: Let me ask this, Question
4 number 11 on contention and admissibility, we asked
5 you whether you have requested access to the
6 proprietary versions of the LAR documents, the License
7 Amendment Request documents. Have you done that? And
8 if so, what's the status of that?

9 MS. DOENMEZ: We have done that, and Pat
10 Skibbee can speak to that more thoroughly in a moment.
11 I just want to also mention that ultrasonic testing is
12 another form of petrographic analysis that we would
13 consider called for.

14 In other words, the whole point being that
15 we need to know what is going on in the interior of
16 the concrete, damage that may not be visible on the
17 surface via surface cracking. So I will turn this
18 over at this point to Pat Skibbee to address that
19 question about our requesting the more proprietary
20 data. Thank you.

21 MS. SKIBBEE: Hi, Pat Skibbee. So I'll
22 try to answer, which is a yes or no question, have we
23 attempted to get a non-proprietary version of the LAR,
24 and the answer is yes. We filed a 2.206 in order to
25 do that. It's May 12th, it's actually 2.204, sorry.

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1 And we have not had a response to that, to
2 Mr. Victor McCree, director of operations. We have
3 not had a response to that. So yes, we have attempted
4 to do that.

5 JUDGE SPRITZER: All right.

6 JUDGE TRIKOUROS: Well, once again, I just
7 want to clear this up before we move on. The focal
8 point seems to be that if appropriate tests were done,
9 that the majority of your concerns would disappear,
10 assuming the appropriate tests showed that the large
11 scale test program was adequate. Is that a correct
12 statement?

13 MS. SKIBBEE: I think that's not a correct
14 statement. I think as other people have already
15 spoken to, the idea of using formed concrete in Texas
16 as a stand-in for concrete in a disintegrating nuclear
17 power plant is absolutely not appropriate.

18 I think this is what should happen. I
19 think the LAR should be rejected, and what should
20 happen is that the NRC should take on the
21 responsibility which I believe should belong to the
22 NRC for creating a test protocol for ASR that would
23 apply to all nuclear facilities in the country.

24 I mean, what we have now is we have the
25 Applicant, NextEra, creating or attempting to create

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1 regulations to control itself.

2 JUDGE TRIKOUROS: Well, when I say
3 appropriate tests, I'm not talking about experimental
4 tests. I'm talking about tests on the actual concrete
5 at Seabrook itself. Okay, so I'm not referring to the
6 FSEL program.

7 All right, and that's, in reading the
8 material that you've provided us, it sounds as if that
9 was what you wish to happen, assuming it's not
10 happening. That is what you wish to happen. And that
11 would give you confidence that the large scale test
12 program is acceptable, or let me say representative.

13 MS. SKIBBEE: No, I can't see how those
14 things are related to each other actually.

15 MS. TREAT: I would say that it's not only
16 the testing, but the sharing of the information, the
17 results of the tests with the public as appropriate so
18 that we know where is the point of danger.

19 JUDGE TRIKOUROS: Well, let's say for the
20 sake of argument that that information was available
21 to you. Would that satisfy it?

22 MS. SKIBBEE: You would have to explain
23 what you mean by the relationship between testing the
24 actual concrete in Seabrook compared with testing, you
25 know, preformed concrete.

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1 MS. TREAT: He's talking about testing in,
2 he's talking about testing in --

3 MS. SKIBBEE: No, I think you're talking
4 about if there were adequate testing at Seabrook,
5 would that convince us that the Ferguson Structural
6 Engineering Laboratory tests are valid, is that right?
7 Is that the question?

8 JUDGE TRIKOUROS: Right. Well, that was
9 your contention, that it would not be valid until such
10 testing were done.

11 (Off microphone comments.)

12 MS. SKIBBEE: No, that would render the
13 FSEL testing irrelevant, which I believe we contended
14 is irrelevant. Somebody else want to jump in here?

15 MS. SKIBBEE: Am I answering your
16 question? Does someone else want to speak to this

17 JUDGE SPRITZER: We have obviously kept
18 you there with questions passed the 30 minute limit.
19 Do you have any other of our questions that anybody is
20 going to address?

21 MR. NORD: There's two other contentions.

22 JUDGE SPRITZER: Two other contentions,
23 all right. Then is one person going to speak to
24 those?

25 MS. DOENMEZ: Yes.

1 JUDGE SPRITZER: Okay, why don't we hear
2 from that person, and at that point I think since we
3 have run over, we'll take a break. Let me just
4 quickly ask the staff at NextEra, we didn't provide a
5 specific order for you. Which of you, have you
6 discussed among yourselves who will speak first, staff
7 or NextEra when we do get to you?

8 MR. HARRIS: This is Brian Harris for the
9 staff. We had not discussed amongst us who would go
10 first. I would probably defer to NextEra if they
11 wanted to go first since it is their license amendment
12 that's at issue.

13 JUDGE SPRITZER: I think that makes sense.
14 Is that all right with NextEra?

15 MR. LIGHTY: We're fine with either, Your
16 Honor. We thought it might make sense for the staff
17 to go first to respond to the Board's question about
18 their proposed reformulated contention so that we
19 could follow them and respond to those remarks. But
20 we're fine with either order.

21 JUDGE SPRITZER: Well that does also have
22 a certain appeal. Is that all right with the staff
23 for you to go first and discuss your reformulated
24 contentions and then NextEra can address their
25 objections to both the original contentions and your

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1 reformulated contentions?

2 MR. HARRIS: That's fine with the staff,
3 Your Honor.

4 JUDGE SPRITZER: All right. As I said,
5 we'll try and finish up with the Petitioners now, and
6 then we'll take a short break and come back and start
7 with the staff. All right, Petitioners with the last,
8 you said you had two additional questions you wanted
9 to, two additional contentions you wanted to talk
10 about?

11 MS. SKIBBEE: Yes, please. Yes, this is
12 Pat Skibbee speaking. So good morning. I think we've
13 sort of done our good mornings, but I do want to say
14 that we appreciate the opportunity to bring these
15 things to light.

16 The NRC has kindly suggested that C-10
17 combine it's ten submitted contentions into one
18 general contention. C-10 has done that to some
19 extent, and I want to continue in that vein while
20 stressing two specific areas of serious concern in
21 this section of our testimony.

22 The purpose of this proceeding from C-10's
23 perspective is to support our position that the NRC,
24 through its Atomic Safety Licensing Board, should
25 reject NextEra's license amendment request on the

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1 grounds that it does not fulfill the critical function
2 of providing adequate testing and monitoring
3 procedures for the ASR damaged concrete structures of
4 the Seabrook Nuclear Power Plant.

5 I'll begin by using the NRC's wording to
6 restate our major and inclusive contention, "The
7 MTR/FSL large scale test program is not bounding of
8 the Seabrook concrete because of the age of the
9 Seabrook concrete, the length of time that ASR has
10 propagated in the Seabrook concrete, the effect of
11 water at varying levels of height and varying levels
12 of salt concentration on the Seabrook concrete, the
13 effect of heat on the Seabrook concrete, and the
14 effect of radiation on the Seabrook concrete.

15 As a result, the proposed monitoring
16 acceptance criteria and inspection intervals are not
17 adequate." C-10 maintains that the testing is not
18 bounding of the Seabrook concrete for the reasons
19 stated above because at this point testing that has
20 been done, and the testing and monitoring proposed in
21 LAR-1603 is insufficient to establish the actual
22 status of the 40 year old concrete at Seabrook
23 Station.

24 Therefore, it is impossible to know
25 whether the testing is actually bounding of the

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1 situation at Seabrook or not. In support of this
2 position, the following information is offered.
3 First, the concept of tipping point in failure of any
4 sort.

5 Have you read the responses to this area
6 of our contention in the NRC response? I feel need to
7 explicate the concept. Tipping point is the point at
8 which failure is inevitable. Therefore, it precedes
9 actual failure.

10 The amount of time at which, excuse me,
11 the amount of time and margin by which it precedes
12 actual failure depends on the circumstances and the
13 materials in question. This concept is totally
14 missing from the LAR.

15 There is a definite lack of acknowledgment
16 that such a tipping point or a following failure could
17 ever be reached. It is impossible to know that the
18 plant is operating within a margin of safety when
19 neither margin is known.

20 LAR in Section 2.51 lays out limits to ASR
21 damage that are acceptable. The percentages are
22 redacted. "The ASR expansion limit stays are
23 summarized in Table 4." The LAR then states that the
24 test program did not, "test out to ASR levels where
25 there was a clear change in limit state

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1 capacity/failure," Page 16 of 73.

2 Instead, the LAR states that, "Maintaining
3 these limits is assured by periodically measuring
4 through thickness expansion areas affected by ASR."
5 The point here is that repeatedly the LAR purports
6 that the structures at Seabrook are operable but
7 degraded as long as ASR damage remains below the
8 higher degradation limits found or imposed on the
9 "representative" test samples in Texas which are
10 stated to be higher and more severe than the actual
11 damage at Seabrook.

12 But it is acknowledged by all the ASR is
13 progressive and non-self-limiting. Therefore, what is
14 the future scenario when the monitored ASR damage at
15 the actual plant exceeds the percentages in Table 4.
16 This is the area that is completely ignored by the
17 ASR.

18 JUDGE SPRITZER: Well, my understanding,
19 and the staff or NextEra can correct me if I'm wrong
20 when we get to their presentations, but my
21 understanding is the ASR limits in Table 4 are
22 essentially intended to make sure you never get to the
23 so-called tipping point, that is they kick in at a
24 point before there would be the type of very serious
25 degradation that you're referring to. Is that your

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1 understanding also?

2 MS. SKIBBEE: But my question is --

3 JUDGE SPRITZER: We just, we didn't hear
4 your answer.

5 MS. SKIBBEE: Your opinion and mine are
6 the same. But the question is ASR doesn't stop
7 because limits are reached, because it exceeds Table
8 4. The ASR continues.

9 JUDGE SPRITZER: What's your understanding
10 of what they'll do when we get to the limits in Table
11 4? My understanding is they will basically have to
12 reevaluate at that point. Is that your understanding
13 also?

14 MS. SKIBBEE: I don't think reevaluation
15 answers the danger of crumbing concrete. And that's
16 exactly my point about the LAR, it does not address
17 what the real issue is. This is a progressive non-
18 self-limiting, rate unknown situation that's going on
19 at Seabrook. And because you write a limit in Table
20 4 doesn't mean the ASR stops. It doesn't stop. It
21 keeps right on going.

22 JUDGE SPRITZER: So it sounds to me like
23 your real complaint is you don't know what's going to
24 happen next if you ever do get to the ASR limits in
25 Table 4, is that a fair statement?

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1 MS. SKIBBEE: That is a fair statement,
2 and that should be the concern of all involved.

3 JUDGE SPRITZER: All right.

4 MS. SKIBBEE: That is the chief concern,
5 exactly. Shall I go on?

6 JUDGE SPRITZER: If you have anything
7 further.

8 MS. SKIBBEE: I do.

9 JUDGE MTINGWA: Let me ask you a question,
10 ma'am. How would you go to the tipping point? What
11 would you do to do what Dr. Brown called turning the
12 concrete into mush and it just crumbles.

13 What would you do? Suppose there is no
14 tipping point anywhere in the -- by stretching things
15 even far beyond where they are now because you're
16 talking about radiation damage, heat damage and so
17 forth. How would you get to the tipping point?

18 MS. SKIBBEE: Well, we don't have to get
19 to the tipping point. The concrete damaged by the
20 alkali-silica reaction gets to the tipping point all
21 by itself.

22 JUDGE MTINGWA: No, but I mean what would
23 you suggest that NextEra does to test some sampling of
24 concrete toward the tipping point?

25 MS. SKIBBEE: Well, what the LAR says is

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1 that the testing that was done at the Ferguson
2 Structural Engineering Laboratory, it says that they
3 did not have sufficient samples and it was impractical
4 to test to the tipping point or point of failure.

5 We really don't understand if they had a
6 lack of samples why they couldn't make more samples,
7 or why it would be impractical to keep on testing
8 until you get to a point of failure because logically,
9 and this is covering some of what I'm going to read,
10 I mean, logic will tell you that it's going to get to
11 the point of failure.

12 The question is when is it going to get to
13 the point of failure? And the testing that was done
14 at the lab on the, sorry, artificial concrete
15 manufactured for that purpose, it wasn't even tested
16 to that point.

17 JUDGE MTINGWA: Okay, but --

18 MS. SKIBBEE: We don't understand --

19 JUDGE MTINGWA: But you have problems with
20 the large scale test program. So even if they reached
21 the tipping point there, why should you believe that
22 would be applicable to the Seabrook Unit 1?

23 MS. SKIBBEE: That is a very good
24 question. And the presumed answer is correct, it's
25 still irrelevant. But our job today is to explain why

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1 this license amendment request should be rejected, why
2 it is not adequate.

3 And therefore we're trying our best to
4 focus on that. So that is a fault in the LAR. I
5 mean, it's obviously a more general fault in the whole
6 situation. But for purposes of this proceeding, it's
7 a false in the LAR.

8 JUDGE SPRITZER: Let me ask this of you,
9 and again maybe the staff and NextEra can help me with
10 this also. If they did get to the Table 4 limits,
11 wouldn't they then be outside their current licensing
12 basis even if the LAR is approved? That is they can
13 only go out to those limits --

14 MS. SKIBBEE: Right.

15 JUDGE SPRITZER: -- and then they're back
16 outside, or they're back to square one essentially,
17 they're back outside their current licensing basis,
18 isn't that right?

19 MS. SKIBBEE: That's right. That's right.
20 And so --

21 JUDGE SPRITZER: At which point the NRC
22 staff, the NRC would have to decide what action is
23 appropriate, wouldn't they?

24 MS. SKIBBEE: Yes. And while all those
25 things are true, they do not stop the progression of

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1 the LAR and the concrete.

2 ASR, what did I say? Sorry, ASR. Let me
3 see if I can skim through the rest of this because
4 some will be repetitive of our conversation. Well I
5 just, this is repetitive but I'm going to say the
6 sentence anyway.

7 The LAR does not address the end stage
8 scenario even though it is logically clear that
9 someday it will occur. There is no way to stop ASR,
10 it will keep eroding the plant, not only through its
11 operational license but for the foreseeable future and
12 beyond.

13 Let me summarize for time's sake. The
14 rate of progression is unknown. We don't know if it's
15 linear, we don't know if it varies, we don't know if
16 it can increase or decrease. These things are just
17 not known at this point.

18 There's another vital omission from the
19 LAR and supporting MPR documents which relates
20 directly to the overall question of representativeness
21 of the Texas manufactured concrete to the actual
22 Seabrook concrete.

23 There is no chart or table or text
24 comparing the chemical and molecular composition of
25 the two concretes. It is stated in the MPR testing

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1 that all concrete used in the large scale Texas test
2 was exactly the same. Elsewhere it is stated that
3 Seabrook concrete is inhomogeneous which I believe
4 means heterogeneous, that is different mixes were used
5 in different parts of the plant.

6 There were 12 different mixes used in
7 Seabrook according to MPR 4153 Page 22 Section 3.3.1.
8 Therefore, representativeness has not been
9 demonstrated in the LAR. In a number of areas in the
10 LAR, NextEra states that the concrete made for testing
11 was, "designed to be as representative as practical of
12 the concrete at Seabrook Station including
13 reinforcement detail."

14 It is not explained what this means or how
15 the several concretes differ. What are the practical
16 considerations that prevented FSEL from replicating
17 rather than making it representative of the Seabrook
18 concrete?

19 What are the factors that presented FSEL
20 MPR from testing to the point of failure? LAR states
21 that it was the number of samples, at least in part,
22 that prevented such testing. Again, could they not
23 have made more samples? Let me see if I can skim
24 through this part.

25 From the extent science and information,

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1 C-10 believes there is no way to completely accurately
2 predict the tipping point or point of failure.
3 However, it is clear that this LAR fails to even
4 attempt to get to that final finding.

5 This area of our contention is within the
6 scope of the proceeding and it directly addresses
7 stated parameters of the LAR. It is material to what
8 the NRC staff must find to determine the validity of
9 the LAR since it goes directly to the stated testing
10 protocol of the LAR.

11 It is supported by citation to the LAR,
12 MPR 40153, concrete expert Dr. Paul Brown, and oral
13 statements by NRC staff at the June 15th, 2017
14 meeting.

15 The second, and this is way shorter, the
16 second specific area under the general contention I
17 want to comment on is the lack of soundness of the
18 LAR's proposed structural monitoring program
19 inspection intervals.

20 Table 5 in Section 2.5.1 proposes a fixed
21 schedule monitoring based on current crack index
22 observation. The intervals vary from 6 months to 30
23 months, depending on current visual observation. But
24 at this time, there is no evidence or knowledge on the
25 speed of disintegration of the concrete or the

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1 anticipated rate, steady, increasing, decreasing of
2 ASR progression.

3 Given current technologies, including
4 petrographic examination and the potential for wider
5 than proposed use of extensometers, the LAR should
6 have proposed an ongoing monitoring schedule of all
7 parts of Seabrook Station.

8 To not look at any part for 30 months is
9 not sensible. Due to this inadequate monitoring
10 schedule and due to the lack of current knowledge of
11 the speed of progression ASR at the plant, LAR 1603
12 needs to be rejected because it does not adequately
13 account for the probable changes to the actual
14 Seabrook concrete.

15 Therefore, it does not fulfill the NRC's
16 stated mission of protection of public health and
17 safety in the lack of adequate monitoring result in
18 leakage of radioactive materials from any structure of
19 the plant. The health of those within the ten mile
20 proximity of the plant is threatened by that leakage.

21 Rejecting the LAR addresses that injury
22 because it that is a better monitoring system, could
23 foresee and prevent such leakage. This contention is
24 within the scope of this proceeding and it addresses
25 directly the structural monitoring program of the LAR.

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1 It is material to what the staff must
2 decide in order to determine the validity of the LAR
3 since it points out a serious flaw in it. Citations
4 are used from the LAR itself, and this part of the
5 contention raises a genuine dispute with the proposed
6 LAR.

7 JUDGE SPRITZER: All right, let me ask my
8 colleagues if they have any further questions at this
9 point. Otherwise we'll take a break and then hear
10 from the staff.

11 MS. SKIBBEE: Wait, so just a sec.
12 Somebody wants to say something here.

13 MR. NORD: There was one more comment on
14 contention, which you can read if you want to. I mean
15 --

16 MS. SKIBBEE: Oh, it turns out we have one
17 more comment on contention which I hadn't realized.
18 You want to do it?

19 MR. NORD: Yes, I can do it. It's very
20 short.

21 MS. SKIBBEE: Okay, Chris Nord is going to
22 do it and he says it's very short.

23 JUDGE SPRITZER: All right.

24 MR. NORD: I promise.

25 MS. SKIBBEE: He promises.

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1 MR. NORD: Thank you for your indulgence,
2 gentlemen. It will only take a minute or two. On
3 Contention F, Contention F, this is a quote from NRC
4 staff's answer to C-10 on Page 42.

5 "Contention F is outside the scope of the
6 LAR because Seabrook has an existing structures
7 monitoring program under the maintenance rule of its
8 current license.

9 "This program already inspects for
10 evidence of rebar corrosion through routine visual
11 inspections for corrosion products on the concrete
12 surface and through opportunistic visual inspections
13 of exposed rebar.

14 "C-10 does not identify any evidence of
15 potential rebar corrosion to support its assertion
16 that the rebar is undergoing corrosion. The LAR does
17 not propose to change the methods for monitoring rebar
18 corrosion."

19 So our answer to that is contrary to
20 staff's assertion that we have not identified, "any
21 evidence of potential rebar corrosion," C-10 must
22 point out that the known presence of ASR is evidence
23 that rebar corrosion is underway.

24 Within this contention, that is contention
25 F, Dr. Brown lays out the basic chemistry involved

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1 which I will not repeat, but it leads him to conclude
2 that, "Given the service environment at Seabrook, I
3 think there is a reasonable basis to anticipate that
4 the reinforcement at some locations is likely to have
5 undergone significant corrosion." That's of our
6 petition Page 13 Paragraph 1.

7 Furthermore, as is the case with ASR-
8 attack itself, the reliance on visual inspection noted
9 by staff as the primary inspection tool cited above is
10 not sufficient for a determination of the presence of
11 corrosion, nor is it sufficient for a determination of
12 the presence of ASR as we also know.

13 As described by Dr. Brown, "The
14 accumulation of chloride which is an agent of
15 depassivation and corrosion in the Seabrook concrete
16 can be established by petrographic means using
17 scanning electron microscopy." And that is in our
18 petition, Page 12 Paragraph 9.

19 NextEra has made the presence of the
20 reinforcing steel a component of the rationale for
21 needing the experimental testing program at Ferguson
22 that is central to the license amendment request.

23 Furthermore, their characterization of
24 the, "pre-stressing effect" that they use to
25 rationalize the voracity of the test data derived from

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1 Ferguson relies on the continued strength of the
2 embedded reinforcement.

3 Therefore, the apparent insufficiency of
4 the corrosion monitoring program should be addressed
5 as part of the license amendment request.

6 JUDGE SPRITZER: All right, let me see if
7 my colleagues have any further questions. All right,
8 we'll take a, follow my own rule about silencing the
9 cell phones. We'll take a 15 minute break at this
10 point. We'll come back at 11:30 and start with the
11 staff.

12 MR. NORD: We'll find you, thank you.

13 MS. SKIBBEE: Thank you.

14 (Whereupon, the above-entitled matter went
15 off the record at 11:17 a.m. and resumed at 11:31
16 a.m.)

17 JUDGE SPRITZER: All right, looks like we
18 have everyone back and we're ready to move on and hear
19 from the NRC staff. And that would be from Mr.
20 Harris.

21 MR. HARRIS: That's correct, Your Honor,
22 and thank you. There are a couple of issues I wanted
23 to address before getting into the main presentation
24 just to cover a couple of things that came up in C-
25 10's presentation.

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1 The first thing that I want to emphasize
2 is that a lot of the arguments that you were hearing
3 earlier was about the NRC staff's review and the NRC's
4 requirement to make NextEra perform a particular
5 analysis.

6 The issue in this proceeding is the
7 adequacy of the license amendment, not the adequacy of
8 the staff's review. We had a chance --

9 JUDGE SPRITZER: While you're on that, if
10 you could, if I could just interrupt for a second,
11 what is the status of the staff's review at this
12 point? Are you able to enlighten us about that?

13 MR. HARRIS: The staff has begun its
14 review. There is still a lot of outstanding review
15 that needs to be done, including some additional
16 information that the staff is seeking that will help
17 to inform its review.

18 I think right now the anticipated time for
19 when the staff might make a decision on this license
20 amendment is towards the fall of 2018.

21 JUDGE SPRITZER: Fall of 2018?

22 MR. HARRIS: That's correct, Your Honor.
23 There is a number of calculations that remain
24 outstanding that the staff needs in order to complete
25 its review.

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1 JUDGE SPRITZER: All right, please
2 proceed.

3 MR. HARRIS: With that, proprietary axis
4 that came up earlier it's not, we believe that C-10
5 was referring to a 2206 petition that they had filed
6 previously. That 2206 petition has been denied.

7 In this proceeding there was a NRC notice
8 for the Federal Register that provided the
9 instructions for how to obtain proprietary information
10 in this license amendment proceeding. The staff is
11 not aware and did not receive any request from that
12 notice about obtaining proprietary information.

13 However, should the Board grant the
14 petition, we would expect that a protective order
15 would be put in place for access to that proprietary
16 information going forward.

17 JUDGE SPRITZER: Okay, thank you.

18 MR. HARRIS: And then the one other issue
19 that came up is the practice and procedure digest. We
20 had a chance to go examine that case during the break.
21 It refers to a Georgia Power case that was Atomic
22 Safety and Licensing Board. The cite for it is 34 NRC
23 138.

24 That case found standing because of an
25 affidavit that was submitted in a very recent related

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1 case. However, since that case was originally
2 decided, it's been superseded by a Commission case CLI
3 1007 which states that standing can only be determined
4 based on the pleadings in the case at hand. So it was
5 not just from the signature on the pleading in that
6 case.

7 Moving on to the main presentation, the
8 first thing I would like to address with standing is
9 that petitioners in an Atomic, in an NRC proceeding
10 for a license amendment have a number of different
11 ways that they can establish standing as an
12 organization.

13 They can establish it through their own
14 organizational interest, or through their
15 representational interest. And then separately, you
16 can show standing either through a proximity
17 presumption or through the traditional judicial
18 concept of standing.

19 In this particular case, and consistent
20 with the Commission case law, is license amendments
21 generally aren't entitled to a proximity presumption
22 with the exception of a few cases that have come out.

23 That was being of course original EPU's,
24 additional packing of spent fuel pools where the
25 Commission has determined that there is an obvious

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1 potential for offsite consequences from those kind of
2 license amendments to show in a standard license
3 amendment proceeding you would need to show that the
4 proximity presumption applies by showing that there's
5 an obvious potential for an offsite consequence from
6 this license amendment.

7 And it's the staff's position that this
8 license amendment is not going to result in an obvious
9 potential for offsite consequences is that the
10 concrete that is being used is not being proposed to
11 be modified in any way.

12 The actual analysis of record that is
13 being applied to the concrete is remaining the same
14 and that all NextEra is attempting to do is to provide
15 sufficient technical analysis to show that they can
16 analyze the ASR loads within the concrete structure
17 using those code cases which I believe are HCI 341,
18 I'm sorry, I just -- it was mentioned earlier, which
19 those code cases don't have a way to analyze the ASR
20 issue currently.

21 Without that obvious potential for offsite
22 consequences, the proximity presumption does not
23 apply. Therefore, C-10 needed to show the judicial
24 concept of standing which are traceability, I'm sorry,
25 the ATI code case I was referring to is 318.

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1 The traditional concept of standing which
2 is, I'm sorry, injury in fact, traceability, and
3 redressability. It is --

4 JUDGE SPRITZER: Before you go on to that,
5 let me ask a question about the proximity presumption.
6 Most cases, at least most that I've seen involve
7 individuals who reside within a particular distance of
8 a facility that's at issue, nuclear power plant that's
9 either being licensed or has a proposed license
10 amendment.

11 Does it make any difference in this case
12 we're talking about a corporation? I mean, suppose we
13 disagree with you and think there is an obvious
14 potential for offsite consequences, does it matter
15 that C-10 is an organization as opposed to an
16 individual?

17 MR. HARRIS: So it would depend. And
18 that's because an organization itself could show that
19 it is entitled to standing based on its
20 representational standing for its members who are, you
21 know, are entitled, you would evaluate their standing
22 based as persons so that it's not any different when
23 you look at it from that particular perspective.

24 However, they could also show based on
25 their own interest in this proceeding. We think that,

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1 you know, an organization is different than a person
2 in terms of that proximity presumption in that they're
3 not entitled to that same type of analysis that they
4 would need to show that their harm is to the
5 organizational interest.

6 That has been the traditional way that the
7 federal courts have taken it if they need to show some
8 particular harm to the actual organizational interest
9 itself.

10 JUDGE SPRITZER: Federal courts don't have
11 a proximity presumption, or at least I've never seen
12 one. In the context of the proximity presumption,
13 let's suppose hypothetically that the petitioner is a
14 brick laying company, but they're within the ten mile
15 area, whatever area is alleged to have an obvious
16 potential for all offsite consequences, wouldn't that
17 be sufficient to establish their standing of whether
18 their particular organizational interests have to do
19 with, you know, making a profit on laying bricks, or
20 in the case of C-10, monitoring activities at
21 Seabrook.

22 In terms of the proximity presumption,
23 does it make any difference?

24 MR. HARRIS: Well it does, just like it
25 does for people is that a person could be entitled to

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1 proximity presumption based on their business interest
2 within the -- if we just use the traditional 50 mile
3 range.

4 So if they show that they have significant
5 business interest, a person could establish, or a
6 significant transit across that area could establish
7 a proximity presumption.

8 So you would need to look at that
9 particular corporation's interests within that 50 mile
10 range. So if it's merely a postal address, that might
11 not entitle it to the proximity presumption. If it
12 was a, you know, more substantial action that's
13 located there, that would be I think a different
14 analysis.

15 JUDGE SPRITZER: I mean, the case of C-10
16 they say, and I don't understand you dispute, that
17 their office is located within approximately ten miles
18 of the plant. Am I correct that that's not an issue
19 here, that their office is located approximately ten
20 miles from Seabrook Unit 1?

21 MR. HARRIS: If I understand the question,
22 we're not disputing that their office is located so
23 close to the Seabrook Plant.

24 JUDGE SPRITZER: And it seems that based
25 on what they have provided us in the way of

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1 information, that they're, it's more than a post
2 office address. It's where their executive director
3 works, it's where their only office as far as I can
4 tell is located.

5 They also say they do monitoring under
6 contract with the State of Massachusetts, they do
7 radiation monitoring of the plant. That seems like a
8 good deal more than a post office address. Wouldn't
9 that be sufficient to, if the proximity presumption
10 applies, if there is an obvious potential for offsite
11 consequences, wouldn't that be sufficient to, for them
12 to be able to use the presumption as an organization?

13 MR. HARRIS: So while not agreeing that
14 the proximity presumption applies, you know, we think
15 that it's somewhat of a test that it's not an issue
16 that has come up previously where most organizations
17 have sought it through representational standing and
18 provided the appropriate affidavit.

19 It is potentially a fair reading of the
20 regulation. But I think that because the regulations
21 do put out, account for corporations being treated as
22 person within the regulation. So it is a difficult
23 distinction to make.

24 However, we're not sure that they even
25 made it because they needed to show that initial set

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1 that in a license amendment proceeding that the
2 proximity presumption applies to them.

3 JUDGE SPRITZER: All right.

4 MR. HARRIS: Moving on to the judicial
5 concept of standing, here you need to show an injury
6 in fact from this license amendment proceeding. And
7 the staff's position on this license amendment
8 proceeding is that C-10 has failed to plead any injury
9 in fact to itself in its initial pleading, and that
10 the additional supplementation that occurred in the
11 reply should not be form the basis of any standing
12 finding for C-10.

13 The Board had asked us to review two
14 cases, Bell Bend and South Carolina, and the staff's
15 position on those cases is that they are neither
16 controlling and they are distinguishable from the
17 issue here.

18 Both South Carolina and Bell Bend do
19 contemplate that in the reply --

20 JUDGE SPRITZER: Sorry, let me just ask
21 first, are those still, I understand your argument
22 that they were distinguishable, but have either of
23 them been overruled by the Commission? I wasn't able
24 to find that, but maybe you know more than I.

25 MR. HARRIS: No, we weren't saying that

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1 they're overruled, but we don't think that they're
2 controlling in this case under these facts.

3 JUDGE SPRITZER: Okay, explain why that's
4 the case.

5 MR. HARRIS: South Carolina and Bell Bend
6 both contemplate that petitioner can supplement their
7 standing in the reply. But in both those cases, the
8 supplementation was in direct relationship to the
9 arguments that were made in the initial pleading. So
10 they were merely expanding on arguments that they had
11 already made.

12 If you go to, I'm sorry, ELI 0819 which is
13 what the staff cited, the Commission has stated that
14 you can't expand an argument or create new arguments
15 in standing in your reply.

16 And we feel that C-10's arguments during
17 the reply arguing for these particular injuries that
18 they had never brought up before, arguing for
19 representational standing based on Ms. Treat's address
20 and Ms. Treat's child, cannot be supplemented into the
21 reply and cannot form the basis of that, and they
22 should be stricken. To know why there's not an injury
23 in fact --

24 JUDGE SPRITZER: Let me ask on that just
25 one further question. Ms. Treat provided her specific

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1 location in the reply I think saying she actually
2 lives 3.5 miles from Seabrook. I understand your
3 position about representation withstanding.

4 But that is also potentially relevant to
5 impact to the organization if their executive director
6 has to move out of the area, that could certainly
7 impact the organization. Is that something we can
8 consider in the context of organizational standing,
9 because they certainly raise that in the petition.

10 MR. HARRIS: Well, I don't know that that
11 actually addresses that issue. She did not provide
12 her address. She provided a general location. It is
13 incumbent on the petitioners to provide the very
14 specific details.

15 There is no way for the staff or for
16 NextEra to evaluate that statement for the truth of it
17 to provide any argument that it's not true. It's
18 vague and undefined. So they really have not provided
19 an opportunity for the staff or for NextEra to make an
20 argument that was opposed that particular part.

21 In terms of the organizational standing,
22 while she might need to be evacuated should you have
23 an accident of some kind, I don't believe that that
24 means that she couldn't perform her duties as an
25 executive director.

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1 Of course, it could impact their office
2 location. But that doesn't mean that the duties still
3 cannot be performed. This happens to, you know, if
4 you do have the untoward event of an accident and
5 offsite release, people would, you know, would be
6 expected to be evacuated.

7 But that doesn't mean that their job speed
8 -- in this particular case they're performing real-
9 time monitoring, education and information. That
10 could continue despite, you know, having to be
11 evacuated.

12 JUDGE MTINGWA: But if there's a
13 catastrophic accident, they could lose their
14 monitoring equipment, they could lose vital records
15 which is probably more important. That could
16 definitely be substantial damage to the operations.

17 MR. HARRIS: I don't believe that I would
18 dispute that the monitoring equipment might be damaged
19 from a catastrophic accident, or that records that
20 have not been backed up could be lost. But that is
21 when you look at the accidents that they've proposed
22 in their reply as the reason why they might be harmed,
23 they assume that of course the ASR is occurring and
24 the concrete is losing its structural capacity.

25 But then they layered on that an

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1 unexpected earthquake. The staff interpreted that to
2 mean an earthquake that Seabrook has not been designed
3 for, so a beyond design basis earthquake. That is
4 simply outside the scope of the license amendment and
5 what Seabrook is required to do.

6 Of course there is an earthquake that we
7 can assume that is large enough that could cause, you
8 know, structural damage. But Seabrook is only
9 required to protect up against the design basis
10 earthquake.

11 JUDGE MTINGWA: No, but I'm thinking in
12 terms of they make the argument that the concrete
13 could turn to mush, and the whole building collapses.
14 And that kind of a catastrophic accident which they do
15 refer to in their original petition, they could, the
16 organization would suffer substantial damages.

17 MR. HARRIS: Right, but the license
18 amendment itself, the requirements for the concrete
19 that has been impacted by ASR are not being changed.
20 So they're going to continue to perform their same
21 intended functions should that concrete at some point
22 exceed its ability to maintain its structure and
23 protect the equipment within, there are limited
24 conditions of operation that would require the plant
25 to shut down before you were allowed to continue to

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1 operate with a concrete that was not in compliance
2 with its licensing basis, putting aside the small
3 caveat that right now we consider the concrete to be
4 operable but degraded.

5 So we know it's outside its licensing
6 basis, and this is what this license amendment is
7 attempting to change so that it would come back within
8 its licensing basis. So for example in the
9 containment enclosure building, should you lose its
10 functionality, the plant's required to shut down
11 within 12 or 30 hours depending on the particular
12 nature of how you lose that function in being cold
13 standby.

14 So you can't assume that the concrete is,
15 that they're operating well outside their license, and
16 then also assume another accident because their
17 license would require them to shut down once they lost
18 that function of the concrete.

19 JUDGE SPRITZER: Let me see if I'm
20 following this. If the license amendment request is
21 denied, they would have, Seabrook Unit 1 would have to
22 shut down, is that right?

23 MR. HARRIS: That is not what I'm saying.
24 What I'm saying, the concrete right now is considered
25 operable but degraded. So that means we see the

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1 concrete that's been impacted by ASR to continue to
2 perform its design function.

3 However, it is technically not in
4 compliance with its licensing basis because the ASR is
5 not accounted for in the analysis of record that ACI
6 318. It does not provide for a way to analyze ASR
7 issues. But the concrete itself continues to perform
8 its design basis function.

9 At a point where that concrete no longer
10 could perform that design basis function, and the
11 reason I'm being a little general is that there are a
12 lot of different structures that are impacted and each
13 one has a different, potentially a different function,
14 is those have limiting conditions of operation on
15 them.

16 So if you lost that function for that
17 structure, there are requirements to potentially shut
18 down the plant in hot standby and cold standby within
19 certain time periods. I brought up the containment
20 enclosure building because that's one of those with a
21 limiting condition of operation attached to it.

22 JUDGE SPRITZER: I mean, the petitioner's
23 position, and for standing we're not going to decide
24 the merits, we're simply taking their position. Their
25 position is the concrete's degraded, it's going to

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1 continue to degrade and the methodology proposed by
2 NextEra is inadequate to show that that degradation
3 will not progress further or won't create a dangerous
4 situation at the plant.

5 They think there is a risk, in other
6 words. So assuming we have to accept for purposes of
7 standing their allegations, at least certainly where
8 they're supported by an expert's affidavit, to say,
9 you seem to be saying that we should just assume
10 everything's fine, but that's not their position.

11 Don't we have to take their theory of the
12 merits of the case for purposes of standing and say
13 does this show an obvious potential for offsite
14 consequences?

15 MR. HARRIS: So I would not describe it
16 that way is that you can't just take their theory for
17 how the merits might proceed for standing. One, it's
18 incumbent on them to establish their standing and
19 plead it at this stage of the proceeding, and that
20 cannot be based on a mistake of fact, you know, a
21 mistake in terms of how they're analyzing it.

22 Putting aside the merits, and I recognize
23 that this does, it does, you know, there are some
24 overlapping issues with that. But standing needs to
25 be established by them.

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1 In this particular case, assuming the
2 license amendment doesn't proceed, this license
3 amendment does not increase the likelihood of an
4 accident. This license amendment is simply, you know,
5 allowing an analysis that had not previously accounted
6 for ASR to, for them to keep that analysis of record
7 can account for the forces ASR would impose on the
8 concrete in terms of its structural capacity.

9 So the concrete is going to perform the
10 same both before and after the license amendment,
11 regardless of the license amendment.

12 JUDGE SPRITZER: Yes, but at least part of
13 their argument is directed at the concrete not being
14 adequate to mitigate the effects of an accident if it
15 were to occur. Isn't that sufficient to establish --

16 MR. HARRIS: That would --

17 JUDGE SPRITZER: Let me finish. Isn't
18 that sufficient to establish an obvious potential for
19 offsite consequences, even if the amendment itself
20 won't increase the likelihood of an accident? But in
21 their view, the amendment is insufficient to ensure
22 that there will be adequate mitigation if an accident
23 were to occur.

24 Isn't that sufficient to demonstrate an
25 obvious potential for offsite consequences?

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1 MR. HARRIS: If the license amendment was,
2 they're making a change to the licensing basis that
3 that license amendment somehow made the plant less
4 conservative, making an accident more likely from that
5 license amendment.

6 I believe that I would agree with your
7 statement. But here those issues that they raised
8 weren't raised until the reply. They were never
9 addressed in the initial pleading.

10 And in the reply, they combined the ASR
11 effect with a beyond design basis earthquake. That
12 beyond design basis earthquake is clearly outside the
13 scope of the licensing basis. The structures
14 themselves are designed, you know, right now to deal
15 with the design basis earthquake, and that's why we
16 consider them still operable at this point.

17 This license amendment is not going to
18 change whether or not those structures, the earthquake
19 that they have to withstand or their ability to
20 maintain their structure during that earthquake.

21 JUDGE SPRITZER: All right.

22 JUDGE MTINGWA: But it seems to me the
23 main point they're trying to make is that they don't
24 know where the tipping point is. Right? I mean, you
25 could be very near the tipping point now and not know

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1 it based upon your past experiments.

2 So outside of an earthquake, I mean, there
3 could be a tipping point there. And if there is a
4 catastrophic accident because of that, they would be
5 impacted. I mean, doesn't that give them standing?

6 MR. HARRIS: Well, you can't, you can't
7 assume an earthquake beyond the design basis of the
8 plant. So the concrete itself needs to be able to,
9 you know, perform its function during the design basis
10 earthquake.

11 JUDGE MTINGWA: Right. Just outside of
12 the earthquake. You know, just forget about the
13 earthquake. Suppose just the ASR is putting you now
14 even very close to the tipping point. They're worried
15 that just the ASR outside of any earthquake could lead
16 to a catastrophic accident. And in that case, they
17 would have standing.

18 MR. HARRIS: It needs to be related to the
19 license amendment. And perhaps I'm not quite
20 understanding the question is that the , we think
21 that, I think that that's not quite equivalent
22 analysis is that the ASR is not going to lead to a
23 catastrophic accident. It's going to slowly degrade
24 over time.

25 The license amendment of course proposes

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1 to monitor that and put in place a method to, you
2 know, calculate the structural capacity of the
3 building so that if we move a little bit from standing
4 into the contention because I don't want, is that that
5 tipping point is a function of the representativeness
6 of the testing that was done.

7 So if that representativeness was
8 appropriately bounding, then the limits that were
9 established by it in terms of the expansion in the
10 concrete, you would not get close to that tipping
11 point. And because of the licensing basis for the
12 plant, you would not expect an accident to cause the
13 plant to fail, those structures to fail to perform
14 their functions.

15 So there's not an obvious potential for
16 offsite consequences there. To get there based on
17 this license amendment, you have to impose,
18 essentially impose an accident of some type, some
19 initiating event that is beyond the design basis of
20 the license of the plant.

21 If that answers all the questions on
22 standings, I'll move on to contentions. The first
23 thing I would like to address is that the staff's
24 answer did not add additional information fact to our
25 arguments why the Board should admit a modified

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1 contention.

2 And while the staff's position in this
3 case is that the petition should be denied for lack of
4 standing, if you read the entire set of ten
5 contentions holistically and understanding that they
6 were written by pro se petitioners and they did not
7 necessarily incorporate portions of the other
8 contentions the way we would expect counsel to by, you
9 know, stating explicitly incorporation by reference,
10 the staff read the pleadings to make several cross
11 references to each other, especially dealing with the
12 representativeness through the other contentions A
13 through C and G through H.

14 The staff maintains however that had just
15 Contention B been pled and none of the other
16 contentions been pled, that Contention B without being
17 added to the portions of A through C, that the staff,
18 you know, suggested should be admitted as an
19 admissible contention and G through H would not form
20 the requisite challenge to the issue that the staff
21 must decide is that representativeness by itself,
22 without applying it and challenging some other aspect
23 of the license amendment, is not material.

24 JUDGE TRIKOUROS: Mr. Harris, does that
25 have to do with the connection to the monitoring

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1 program?

2 MR. HARRIS: It has a connection to the
3 monitoring program. It also has a, you know,
4 connection to the type of inspections that are being
5 done. It could potentially impact the actual
6 acceptance criteria for how much through-wall
7 expansion has occurred.

8 This is because part of what that test,
9 the large scale testing program did was to help try to
10 establish how much expansion occurs through wall prior
11 to the putting in extensometers in it. So that
12 through-wall expansion that occurs prior to the
13 installation of extensometers is unknown.

14 And so we need a way to account for that
15 expansion that occurred prior to being able to monitor
16 the actual expansion.

17 JUDGE TRIKOUROS: All right.

18 MR. HARRIS: Now, sorry, I just got an
19 echo when I was speaking, so maybe it's my issue for
20 the echo. While the staff's requirement of consenting
21 finding parts of the -- if they had actually
22 established -- if C-10 had actually established
23 standing, we think that the portions that they could
24 combine Contention D of any of the admissible portions
25 and Contentions A through C and G through H

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1 individually.

2 So it doesn't require that you actually
3 admit all of A through C or all of G through H to form
4 an admissible contention. However, we think that
5 specifically those particular issues that are worth
6 calling specific attention to is the visual
7 inspections, the crack indexing, the use of
8 extensometers with what we had just talked about, the
9 fact that the through-wall expansion can't be measured
10 until occurs prior to the extensometers being put in
11 place.

12 And then that also impacts as a tipping
13 point where if you're not representative, you know,
14 then it's hard to know how close you might be to the
15 potential edge and that there might need to be more
16 conservatism applied to where we think that the data
17 provides.

18 You had asked us to address what the
19 actual requirements that the staff is going to use to
20 evaluate this particular proceeding. And that is a
21 little bit of a difficult issue. Of course the staff
22 had to make its requisite findings of reasonable
23 assurance of adequate protection, and there are a
24 number of codes that are put into place by the
25 regulations identified in 50.40 and 50.55(a).

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1 It would also be looking at what the
2 licensee has done in terms of what they're proposing
3 which deals both with the general design criteria.
4 But part of the staff's difficulty in being able to
5 provide a full and complete answer to this is that the
6 staff is still awaiting some structural calculations
7 of each of the different buildings.

8 And those different buildings have
9 different requirements and different code cases that
10 are applicable to them. And so until the staff has a
11 chance to review those, we would tend to point out to
12 what the NextEra has proposed in its license amendment
13 as a place to start for where the review would be done
14 because the staff hasn't, you know, made up its mind
15 that those particular ones that have been proposed are
16 necessarily correct because the ones that are finally
17 settled on or that there might be something else that
18 comes up as a result of the additional calculations
19 that we receive.

20 JUDGE TRIKOUROS: But those calculations
21 are assuming the ASR loads in the LAR?

22 MR. HARRIS: Yes, those calculations are
23 assuming that what they've done so far can be
24 translated into their code cases as a result of the
25 representativeness. I probably defer somewhat to

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1 NextEra to say exactly how those are being done
2 because we haven't seen them yet, or I don't think
3 we've seen very many of them yet.

4 JUDGE SPRITZER: On the question of the
5 regulations you would apply, if you had your answer to
6 the petition at the top of Page 47.

7 MR. HARRIS: I do, Your Honor.

8 JUDGE SPRITZER: I would assume you stand
9 behind this as an adequate, well at least as
10 representing the basic standards that the staff has to
11 apply. I guess you might call them the overarching
12 standards the staff has to apply in evaluating the
13 license amendment.

14 MR. HARRIS: That's correct is that of
15 course we had to make our finding and that we would
16 apply the same standards for the license amendment
17 that you would apply to an original licensing, you
18 know, as applicable.

19 So in this case you would be looking at
20 the code cases for concrete structures. You would
21 also be looking at, you know, potentially general
22 design criteria. But different structures have
23 different requirements.

24 So it's when you look at the number of
25 structures that are potentially implicated in the ASR

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1 issue, there are about 20-something different, 26
2 different structures that are implicated, and they all
3 have different requirements.

4 JUDGE SPRITZER: Let me ask to you to
5 address the third of our questions on contention and
6 admissibility which relates to the representative in
7 this issue and your claim that that's not material to
8 the findings the staff has to make.

9 MR. HARRIS: So representativeness by
10 itself is simply saying that what was done at the
11 University of Texas, without tying that explicitly to
12 the other portions of the license amendment, would not
13 be material because they could have done that analysis
14 in a number of different ways that would have, that
15 potentially could be acceptable.

16 So you could have done it in a very, very
17 conservative way. It would not necessarily be
18 representative of the Seabrook but be done so
19 conservatively that the data it produces would be
20 potentially acceptable.

21 So it really requires doing more than
22 that. The reason why we said D was not admissible by
23 itself was we were trying to provide sort of a full
24 and complete answer of looking at what was just within
25 the four corners of what they pled without looking

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1 outside of that through that intertwining of
2 representative that shows up in the other contentions
3 because it was not done the way we would expect
4 counsel to do it, incorporating by reference.

5 But when you looked at it as a whole, all
6 those contentions, it appears to us that C-10 was
7 trying to incorporate representativeness into other
8 contentions or those other contentions into D. So we
9 think that it should be admitted as that, not purely
10 as an issue of how representative it is. Once you --

11 JUDGE SPRITZER: If I understand what
12 you're saying, if they had incorporated the other
13 contentions by reference in contention D, then D
14 itself would have been admissible?

15 MR. HARRIS: It's close. What I was
16 saying is that if you look at the way counsel, if
17 they've been representative by counsel, counsel would
18 have done that, would have made specific
19 incorporation, you know, or we would have expected a
20 party represented by counsel to have specifically said
21 I'm incorporating these particular issues into this
22 contention.

23 But when you look at that
24 representativeness, you can find references to that
25 same representativeness in contentions A, B, C, D, and

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1 H where they're sort of tied together.

2 And so we think that they were attempting
3 to incorporate by reference, and that's why the staff
4 rewrote the contention to put all those parts that the
5 staff interpreted as being related together.

6 JUDGE SPRITZER: If the petitioners had
7 simply filed one contention with all their different
8 arguments as sub-parts of that contention, obviously
9 there would be some of those sub-parts you think are
10 inadmissible. But we wouldn't have this problem.

11 We could just say we're going to admit the
12 one contention narrowed down to the specific issues
13 that are admissible in this one hypothetical mega-
14 contention. Is that a fair --

15 MR. HARRIS: That's essentially the
16 staff's position.

17 JUDGE SPRITZER: So basically it goes to
18 the form of their pleading, and you're satisfied that
19 at least for a pro se petitioner we can overlook the
20 defects in the form and admit the modified or
21 reformulated contention you proposed?

22 MR. HARRIS: That's correct, Your Honor.
23 And putting aside whether or not standing was
24 established, so we're not waiving our standing
25 arguments by --

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1 (Simultaneous speaking.)

2 JUDGE SPRITZER: I understand.

3 MR. HARRIS: -- the contention could, you
4 know, can be admitted in a limited form.

5 JUDGE SPRITZER: All right.

6 JUDGE MTINGWA: I have a question about
7 that. You don't think that they have standing. So
8 you would like the petition to be denied, is that
9 correct, on the basis of lack of standing?

10 MR. HARRIS: Yes. The staff believes that
11 the petition should be denied for lack of standing.

12 JUDGE MTINGWA: So why go through the
13 trouble of trying to help them with the admissibility?

14 MR. HARRIS: Well, the staff's obligation
15 is to, you know, both protect, to represent the staff
16 itself and to try to protect the procedures that are
17 in place here. So we evaluated, we're providing both
18 our answer on standing, we don't think that they met
19 standing.

20 But should the board, you know, decide
21 that the staff is incorrect on standing, we think that
22 the petition should be admitted in a limited form. So
23 it is trying to, you know, represent what we believe
24 the rules that have been established for these
25 proceedings and where the staff believes how those

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1 rules should be interpreted in this particular case.

2 We would not want to simply argue that you
3 shouldn't, you know, we wouldn't normally rest on just
4 they don't have standing and then not address the
5 contentions themselves. You know, it's possible that
6 the Board would disagree with our argument on
7 standing.

8 But we would not necessarily believe that
9 the Board should admit issues related to the tone or
10 the proprietary nature or the impact of rebar which is
11 really, rebar corrosion which is really outside the
12 scope of this license amendment proceeding.

13 So we had an obligation to point those
14 issues out where we didn't think that they actually
15 were admissible.

16 JUDGE MTINGWA: But I guess apparently
17 isn't done so often based upon some of the arguments
18 I've seen in the documents. It's rather rare for you
19 to do that. In fact, I think C-10 argued that this is
20 the first time in one of this type of hearings in Part
21 50, number 50 hearing that you've done that.

22 MR. HARRIS: I believe, yes, NextEra said
23 that staff has not done that. I've personally been
24 involved in part two proceedings, three proceedings
25 before the Board where the staff had reformulated

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1 contentions to try to identify the issues that are
2 material for the Board to decide as a result of a
3 proceeding that was ongoing.

4 My most recent experience, you know,
5 experience with that was of course was in Davis-Besse
6 where the staff initially proposed that part of a
7 contention was admissible and reformulated it. By the
8 time the board actually had an opportunity to rule on
9 that contention, that issue had been resolved, and the
10 staff's position at that ultimate argument was that it
11 was no longer admissible because the issue had become
12 moot.

13 JUDGE TRIKOUROS: In your reformulated
14 contention, you include Contention G.

15 MR. HARRIS: That's correct. That's the,
16 I believe it's the intervals for the inspection. And
17 this is --

18 (Simultaneous speaking.)

19 JUDGE TRIKOUROS: No, actually Contention
20 G is this tipping point issue that was brought up
21 earlier and for which there was very strong, there
22 were very strong answers against the admissibility in
23 Contention G. Yet you included Contention G in your
24 reformulated contention that I don't quite understand
25 why.

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1 MR. HARRIS: So if you give me one second,
2 Your Honor. Let me, I'm just going to put you on mute
3 for just a second, Your Honor.

4 JUDGE TRIKOUROS: Very well.

5 MR. HARRIS: I am back, Your Honor. The
6 tipping point issue we think is slightly related, and
7 it's related to how that representativeness is
8 eventually determined. So if when you look at what
9 the license amendment proposes, it has limits that
10 you're not supposed to exceed.

11 I believe it's 0.1 percent of through-wall
12 expansion and then you would be outside those limits.
13 But if you're not exactly sure how representative your
14 testing is to base that limit on, then you need to
15 evaluate whether or not there's sufficient margin at
16 that point.

17 You know, so if the large test scale, or
18 the large scale testing program had sufficient
19 conservatism, then that issue may be resolved by the
20 resolution of the representativeness of the testing
21 program.

22 But the closer you get to it, the more you
23 need to look at where those margins are and how close
24 to failure you might be. We think it's barely in
25 there. We're not taking a position that it would be

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1 ultimately successful, but we think that under the
2 bare minimum of establishing an admissible contention,
3 that there is just enough there.

4 JUDGE SPRITZER: If we disagreed and found
5 G completely inadmissible, and eliminated it from the
6 reformulated contention, would the reformulated
7 contention still be admissible with the other parts
8 but without Contention G?

9 MR. HARRIS: That is correct, Your Honor.
10 The staff believes that you could combine the
11 representatives with each of the other parts
12 individually. So you wouldn't have defined that the
13 parts in A, B, E, G, and H were admissible, but you
14 could look at each one of them individually and it
15 would form an admissible contention.

16 JUDGE SPRITZER: I take it your basic
17 point is there has to be something to tie the
18 representativeness issue to something more specific
19 determination the staff has to make like what's
20 appropriate monitoring or what's an appropriate
21 interval for monitoring.

22 MR. HARRIS: And that's correct. And you
23 know, just to address one issue I believe NextEra
24 raised, the staff's not trying to use this proceeding
25 to review the license amendment. The staff will

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1 continue its review in the normal process through
2 RAIs. So this is not a staff trying to, you know, to
3 basically review a license amendment through a
4 proceeding.

5 I believe that I've covered most all the
6 questions that the Board has proposed. There is the
7 issue about what would the staff, satisfy the staff
8 regarding the limits to the long, large scale test
9 program.

10 And at this point we're not sure. That's
11 part of our review. So I would not want to get out
12 ahead of establishing what those limits should be that
13 would be satisfactory. I think that would be pre-
14 judging the technical staff's opportunity to finish
15 their review.

16 JUDGE MTINGWA: But you've made several
17 comments that the large scale test program results
18 bound the Seabrook Unit 1 reactor. So why do you, how
19 do you make that statement if you're not --

20 (Simultaneous speaking.)

21 MR. HARRIS: -- statement to say bound the
22 reactor. What I was saying is that's an issue that,
23 you know, should you, if you admit the contention and
24 had a proceeding that the issue of whether or not the
25 test program is bounding may resolve many of the other

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1 underlying issues by that finding.

2 It's not for the staff to dictate how a
3 licensee proposes to meet its licensing basis or how
4 a particular license amendment is to go forward. The
5 staff reviews what the licensee's propose and
6 evaluates it for its adequacy in light of the
7 regulations and the licensing basis that currently
8 exists.

9 So for example, and this is merely
10 hypothetically, a licensee could do analysis in its
11 experimental program that was absolutely
12 representative of the Seabrook concrete, but how that
13 was translated into acceptance criteria and limits may
14 be, in the staff's opinion, inadequate.

15 Or it could be completely adequate how
16 they've done it. They could choose to do a very
17 conservative bounding type analysis that produces, you
18 know, good results. But it's not for the staff to
19 tell the licensee that they should do this extremely
20 conservatively for their experimental work that they
21 did in their technical analysis to develop the license
22 amendment.

23 We simply review what they submitted and
24 determine whether or not it meets the current
25 regulations and the licensing requirements.

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1 JUDGE TRIKOUROS: And back again to the
2 tipping point, you indicated you were looking to
3 understand margin to the in plane expansion limits
4 that are established in the LAR, but wouldn't you
5 really look for margin there by seeing how much you
6 would have to increase the in plane expansion limits
7 to actually reach the point where you can't meet your
8 design basis requirements, not whether or not the
9 containment would have some sort of a failure under
10 some assumed pressure condition.

11 I just, it seems to me you could do all
12 that by analysis. If I were doing it, I would
13 increase the in plane expansion limits until I could
14 no longer reach my acceptance criterion for my design
15 basis acceptance right there.

16 MR. HARRIS: I would be remiss to, you
17 know, second judge your engineering. But the, I think
18 what I would say is that there are a lot of different
19 ways you could try to account for that uncertainty,
20 you know, in terms of the data you produced and where
21 you're going to deal with that both the -- yes the
22 uncertainty associated with the type of analyses you
23 did and simply the uncertainty associated with the
24 model that we're using.

25 And so, you know, having that establish

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1 that limit of 0.1 percent expansion, some of that,
2 part of that is that the combination of the
3 extensometer that they measure the expansion after
4 they put it in plus what they've done to correlate I
5 believe crack width indexing to the through-wall
6 expansion that occurred before then, there is an
7 amount of uncertainty there that you want to make sure
8 that your limit for where this license amendment would
9 no longer apply is appropriately conservative so that
10 you could have more through-wall expansion than your
11 program measured because of that uncertainty.

12 And so you could exceed that 0.1 percent
13 as a result of the uncertainty.

14 JUDGE TRIKOUROS: Right. And all of that
15 can be accomplished without Contention G.

16 MR. HARRIS: That's correct, I believe.
17 But I believe that Contention G itself does address a
18 small portion of it. Like I said, that is barely
19 there, but we think that there was sufficient to make
20 it admissible.

21 JUDGE TRIKOUROS: Okay, that's fine. We
22 don't need to go further.

23 JUDGE SPRITZER: All right, Mr. Harris,
24 thank you. I think we can, if everybody's prepared to
25 go on and hear from NextEra, we can do that so we can

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1 hopefully finish by 1 o'clock or at least close to 1
2 o'clock. Does anyone have a problem with that before
3 we hear from NextEra?

4 (No audible response.)

5 JUDGE SPRITZER: Okay, hearing no
6 objection, Mr. Lighty?

7 MR. LIGHTY: Thank you, Your Honor. And
8 may it please the Board, Ryan Lighty for the
9 Applicant. On behalf of NextEra, I appreciate the
10 opportunity to appear before you this afternoon.

11 And as explained in our pleadings and as
12 we will further explain today, we believe the Board
13 should deny the petition in its entirety. And without
14 rehashing the briefings, and before turning to the
15 Board's specific questions, I would like to emphasize
16 just a few overarching points and respond to a couple
17 of comments made earlier today.

18 First, C-10 fundamentally misunderstands
19 and therefore fails to effectively challenge the LAR.
20 The petition doesn't appear to recognize that NextEra
21 is performing mechanical property testings, or to
22 correctly comprehend how the test results or the LSTP
23 data are actually applied here.

24 And this lack of understanding should at
25 least raise some red flags for the Board as to C-10's

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1 ability to demonstrate a genuine dispute with the
2 application because as the Commission has explained,
3 a petitioner's misreading of an application is not a
4 basis for an admissible contention.

5 Second, as recognized in the Board's
6 contention question number five, the petitioner did
7 not identify any findings the staff must make to grant
8 the LAR much less demonstrate that any of its
9 contentions are material to evaluating satisfaction of
10 those unspecified standards.

11 So the fact that the Board even had to ask
12 this question demonstrates somewhat that C-10 did not
13 demonstrate materiality in their petition.

14 Turning to just a couple of comments made
15 earlier today, first by C-10. Mr. Nord stated that
16 the burden was not on C-10 to show that
17 representativeness is germane to the proceeding, and
18 that's simply an inaccurate statement of the
19 contention admissibility requirements.

20 In 2.309(f)(1), the requirement is on the
21 petitioners to demonstrate each element of an
22 admissible contention. Turning also to Judge
23 Spritzer's question about reaching the table four
24 limits, we do believe that if you were beyond those
25 limits it would be outside the CLB and you would need

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1 to reevaluate.

2 But we certainly don't think that the
3 petition offered any explanation as to how that would
4 be material to the LAR that is being currently
5 evaluated. So we'll turn now to the specific
6 questions that were presented by the Board.

7 First on standing, the Board asked how an
8 organization with an office within ten miles of the
9 plant could be found to not have standing under the
10 NRC's proximity presumption. And the brief answer is
11 by not pleading it.

12 The petition doesn't plead standing, it
13 doesn't acknowledge a standing requirement, it doesn't
14 reference any legal standard applicable to the
15 incident proceeding, or plead facts to demonstrate
16 satisfaction of some unspecified standard.

17 And this places the Board and the parties
18 in the position of applying the potentially applicable
19 standards and then combing through the pleadings in
20 search of arguments in satisfaction of those standards
21 that were never advanced by petitioners themselves.
22 But the Commission has explained in the USEC case,
23 CLI-06-10, that it's not our burden to do so.

24 Now we generally agree with the staff's
25 discussion of the proximity presumption requirement

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1 here, and C-10's petition also is silent as to the
2 standard. So the bottom line is this is a pleading
3 deficiency. Commission regulations require a petition
4 to plead standing, and C-10 did not.

5 So turning to the Board's question number
6 three on standing about the Commission decisions that
7 purportedly allow new information and arguments in
8 reply pleadings, we agree with the staff that these
9 cases are distinguishable.

10 As the Commission explained in the
11 Palisades case, CLI-08-19, there's a difference
12 between an omission that's merely a matter of failing
13 to cross a t or dot an i in their words, versus
14 failing to plead, "an essential ingredient of
15 standing." And C-10's reply attempts the latter.

16 In the Summer case there are the reply
17 required a minor change from pleading membership in an
18 organization to pleading authorization for that
19 organization. The changes that C-10 offers in its
20 reply are much more substantial.

21 And there were other distinctions in the
22 Summer case. There the petitioners, "demonstrated
23 standing in every other respect." That's not the case
24 here. Petitioners there pled an inadvertent omission,
25 also not the case here. So we think that these cases

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1 are distinguishable.

2 MR. LIGHTY: As far as the proximity
3 presumption goes, their petition, while it doesn't
4 have a section labeled standing, or equivalent
5 language, it gives their address, it provides
6 information about what they do in proximity to the
7 Seabrook Plant, and certainly the contentions
8 themselves lay out what at least in their opinion is
9 a potential for offsite consequences.

10 Why does it matter, if the facts are there
11 or the elements of standing are there, that they
12 didn't have a specific argument labeled standing for
13 us to find that they've met the requirements?

14 MR. LIGHTY: Well, because we believe it
15 is a requirement that if they plead that, that offsite
16 consequence, not just a matter of discussing issues
17 somewhere else in the petition that the Board or other
18 parties may somehow be able to stitch together to
19 construe that argument.

20 But they simply didn't plead that that was
21 the case, that the arguments they were advancing
22 evidence and obvious potential for offsite
23 consequences. So --

24 JUDGE SPRITZER: Have you cited in your
25 pleadings a case that will apply this rather, this

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1 standard that you are arguing for to a pro se
2 petitioner? Certainly there are cases which expect a
3 fair amount from somebody represented by counsel. But
4 what about pro se petitioners, aren't they entitled to
5 some leeway as far as technical pleading requirements?

6 MR. LIGHTY: Your Honor, I don't recall
7 specifically whether we pled it in our answer pleading
8 or that we cited a case to that effect. I know that
9 we certainly cited the Board, or I'm sorry, the
10 Commission's Fermi decision that talked about applying
11 requirements strictly to pro se petitioners.

12 JUDGE SPRITZER: All right, thank you.

13 MR. LIGHTY: And so briefly, just a bottom
14 line on the cases cited in the Board's standing
15 question three. One word changes and minor
16 supplemental details are permissible in replying. But
17 offering new, a new particularly vivid scenario to use
18 C-10's words is something far different.

19 Turning now to the contention questions,
20 questions one and two asks for an explanation as to
21 how and whether the LSCP results found the Seabrook's
22 concrete expansion. And just as an initial matter, we
23 would observe that these questions, if material, would
24 go to the merits of the application and not
25 necessarily to contention admissibility.

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1 But to answer this question, we would
2 point to the LAR evaluation discussion at Section
3 3.2.1 where a program confirmed that the specimens
4 experience ASR distress that was more severe than
5 Seabrook. And then the LAR also includes confirmatory
6 analyses for the similarity of the expansion behavior
7 between the LSCP specimens and Seabrook, and that
8 discussion at MPR 4273 at Page VII and Section 6.1.5.
9 Now you would also --

10 JUDGE SPRITZER: If I may interrupt just
11 briefly. The fact, what's your position on the
12 staff's argument that bounding or representativeness
13 by itself is not a material issue? Given that it's
14 discussed in the LAR, doesn't that suggest that
15 whoever prepared the LAR thought it was at least
16 relevant to evaluating whether the license amendment
17 should be granted?

18 MR. LIGHTY: Well, I think first I would
19 point out that there's a difference between something
20 that's representative and something that's bounding.
21 Those are separate concepts. And in fact there's a
22 tension that's discussed in the LAR between these two
23 concepts.

24 Next there are notes that, you know, this
25 difference is significant. If you look at Section

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1 2.4.2 of MPR 4273, there's something of an inverse
2 relationship here. The test designers note that the
3 Seabrook concrete would have been the most
4 representative data source, but would not have
5 provided bounding data because it would merely be a
6 snapshot of existing levels of ASR.

7 Whereas on the other hand the LSTP
8 concrete, the less representative could provide data
9 for more extreme levels of ASR. So these concepts are
10 certainly not one in the same, and in fact there's a
11 tension between them that's discussed and resolved in
12 the LAR that C-10 does not seem to acknowledge or
13 attack that discussion in Section 2.4.2.

14 And so, you know, we again note that the
15 petition does not contain the word bound. This topic
16 was raised for the first time by staff, and appears to
17 conflate these two concepts which have a material
18 difference in the application.

19 And so to the question, to the extent the
20 question considers C-10's representativeness argument,
21 we would again note that C-10 entirely disregarded
22 rather than disputed that discussion in MPR 4273.

23 They didn't acknowledge it, reference it,
24 point to specific assertions within it to offer a
25 meaningful challenge. But as the Commission explained

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1 in the Millstone case, CLI-01-24, the petitioner is
2 required to read the pertinent portions of the
3 application, state the applicant's position and the
4 petitioner's opposing view, and it has not done so
5 here.

6 So it's not possible to raise a genuine
7 dispute on representativeness while at the same time
8 ignoring the very section of the application that
9 discusses that topic.

10 One of the Board's questions was what
11 would satisfy questions on this topic. And I would
12 just briefly note that they reference the standards in
13 the code 349.3(r). And we would just note that this
14 is the subject of their petition for rulemaking that
15 is still pending here.

16 So C-10 acknowledges this is not currently
17 a requirement that's applicable to reactor licensees.
18 And in fact, the imposition of the standard is the
19 subject of a petition rulemaking which makes it
20 outside the scope of this proceeding.

21 JUDGE SPRITZER: You said they had filed
22 a two, a petition under 2.206, did I understand you
23 correctly?

24 MR. LIGHTY: No, I believe it's 2.208
25 which is -- 802, apologies. Petition for rulemaking.

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1 JUDGE SPRITZER: And that petition
2 requests what?

3 MR. LIGHTY: It requests imposition of
4 this code standard for reactor licensees to use that
5 standard to conduct the tests, the tests that they've
6 noted would need to be done to satisfy their request
7 here.

8 JUDGE SPRITZER: Do you know what the
9 status of that petition for rulemaking is?

10 MR. LIGHTY: I believe it is still pending
11 before the staff, Your Honor.

12 MR. HARRIS: Your Honor, this is Brian
13 Harris for the staff. It is still pending before the
14 staff at this time.

15 JUDGE SPRITZER: Okay. I assume in at
16 least one of your briefs there's some citation to this
17 where we could see what the petition includes?

18 MR. LIGHTY: Yes, Your Honor, it was
19 included in our answer pleading.

20 JUDGE SPRITZER: Okay.

21 MR. LIGHTY: So to return to the Board's
22 questions on contentions, question three the Board
23 asks about using LSTP results to calibrate code
24 equations versus just assuming test samples are
25 representative.

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1 And NextEra here notes that the difference
2 lies in the fact that the codes entail embedded
3 margins of safety. And this is a key feature of
4 NextEra's approach, an important driver in their
5 decision to continue using the existing codes because
6 by maintaining the existing code, you maintain its
7 margin of safety, the code accounts for a range of
8 different specimens and concretes, and these ranges
9 are leveraged by using the code.

10 And so the LAR methodology, it also uses
11 mechanical property testing of Seabrook's concrete.
12 And at bottom here, the petitioner does not appear to
13 recognize that either of those is used. And that
14 fundamental misunderstanding of the LAR evidences the
15 lack of a genuine dispute with the actual methodology
16 that's being proposed in the LAR.

17 JUDGE TRIKOUROS: Let me interrupt you one
18 second. There does seem to be some confusion
19 regarding future testing of Seabrook concrete.

20 The LAR does seem to imply that there will
21 be core holes obtained throughout, you know, the
22 future monitoring period, and that testing will be
23 done on those, then elaborate on how frequently that
24 would be done or what specific tests would be done.
25 Can you say something about that?

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1 MR. LIGHTY: Certainly, Your Honor. I
2 would talk about a couple of different things here.
3 First, for the tier three locations, the locations
4 that are affected by ASR that meet the tier three
5 monitoring criteria, there are four samples removed.

6 And mechanical property testing is
7 completed on those samples as part of the program that
8 is proposed here. And in fact the MPR document
9 contains the results of the first set of those tests.
10 So that's one area where it is included.

11 The other is the confirmatory testing that
12 would confirm the expansion behavior at Seabrook is
13 similar to the expansion behavior in the LSTP test
14 specimens. And that's covered in MPR 4273 at Pages
15 VII.

16 There's a chart of the different tests,
17 the different periodicity of those tests, the
18 approaches for those tests. And Section 6.1.5 of that
19 document also discusses those confirmatory analyses.
20 So it's not a matter of just assuming the expansion
21 behavior is similar. There's confirmatory testing in
22 this program.

23 JUDGE TRIKOUROS: All right, thank you.

24 JUDGE MTINGWA: How does the size of the
25 core samples that you extract in comparison to the LS,

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1 the large scale test program samples?

2 MR. LIGHTY: Just to clarify, is this for
3 the samples removed from the extensometer location?

4 JUDGE MTINGWA: Yes, yes. When you
5 extract those samples, what size is that relative to
6 the size for the large scale test program?

7 MR. LIGHTY: If you give me just a moment
8 to confer with my team, Your Honor, I'll see if I can
9 find the answer to that.

10 Okay, thank you, Your Honor, for that
11 opportunity to confer. It's my understanding that the
12 core samples that are removed, the size of what is
13 actually being tested is a cylinder that is four
14 inches in diameter and eight inches long. And that's
15 the test sample. What's removed is slightly larger,
16 but that's the size of the sample that's actually
17 tested.

18 And that size corresponds to the testing
19 that was done for the correlation calculation in MPR
20 4153.

21 JUDGE MTINGWA: Okay, thank you, thank
22 you. Let me ask another question. Is the concrete in
23 Unit 1 and that in Unit 2, are they the same?

24 MR. LIGHTY: They are generally the same.

25 JUDGE MTINGWA: No, I mean specifically

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1 the same. Are they precisely the same concrete?

2 MR. LIGHTY: They are the same
3 specifications and the same original materials.

4 JUDGE MTINGWA: Okay.

5 MR. LIGHTY: I would --

6 (Simultaneous speaking.)

7 JUDGE MTINGWA: And is the -- go ahead,
8 I'm sorry.

9 MR. LIGHTY: That certainly there are
10 differences between the concrete at an operating
11 reactor versus --

12 JUDGE MTINGWA: No, I know. But I'm just
13 worried about the starting point of both because there
14 was a question as to whether or not you could glean
15 information about Unit 1 by taking samples from Unit
16 2. So I just wanted to know at least concrete, you
17 know, the same, is it the same by design?

18 MR. LIGHTY: Yes. I think they started
19 out with the same materials and --

20 JUDGE MTINGWA: Okay. And what about the
21 thickness of the wall, the through thickness, is that
22 the same for the two as they started out at
23 construction?

24 MR. LIGHTY: I believe they would have
25 been the same.

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1 JUDGE MTINGWA: Okay. So the reason I'm
2 asking that is that the methodology that you used to
3 determine the through thickness expansion, you know,
4 you used the LSTP results to be able to calculate
5 using the elastic modulus what the starting point
6 thickness was.

7 It would be interesting if you used that
8 same methodology on the Unit 2 to see if you get the
9 same thickness at the beginning. That could be sort
10 of a check on the methodology. Is that something that
11 you are considering?

12 MR. LIGHTY: It's beyond my knowledge at
13 this point. I think that in the documents that were
14 submitted with the LAR, the test designers considered
15 the possibility of using the Unit 2 concrete. And the
16 analysis there was that it would have some of the
17 downside as harvesting the Unit 1 concrete in that
18 once you cut it out, you lose the structural context.

19 And so that was something that was
20 considered. The analysis is in the LAR documents, and
21 that analysis was not challenged by C-10. It wasn't
22 referenced or challenged.

23 JUDGE MTINGWA: Okay. Can you think of
24 another method of getting the through thickness
25 expansion? I mean, there's a lot of work on this

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1 particular method, but are there other methods that
2 you could use, because there always good, you know, as
3 a scientist myself, to have more than one way to get
4 at the same result. So are you considering other ways
5 of getting it besides this normalized elastic modulus
6 approach?

7 MR. LIGHTY: I can't speak specifically to
8 that. I just have the limited understanding of a
9 lawyer, so I'm not certain on that. But you know,
10 again, I don't believe that's what has been proposed
11 in the LAR.

12 So in other words, the fact that there may
13 be other ways of doing what the LAR proposes to do
14 isn't exactly the same as showing that there's some
15 type of a deficiency in the methodology that is
16 proposed because that's what the staff's being asked
17 to evaluate here.

18 So turning to the Board's Question 7,
19 we're going to ask NextEra to explain why C-10's
20 statement that it plans to discontinue core sample
21 testing, or attempting to avoid such testing is
22 incorrect.

23 We again point to the testing that has
24 been done and documented in MPR 4153 at Page 5.1, the
25 results in Appendix D. So there is core sample

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1 testing that is going on here, as we discussed
2 earlier.

3 And the bottom line again is that the C-10
4 does not seem to acknowledge that this testing is
5 being performed much less understand or dispute how it
6 is being used.

7 JUDGE SPRITZER: Quick question, quick
8 housekeeping question. I think the document you just
9 cited was MPR 4153?

10 MR. LIGHTY: That's correct, Your Honor,
11 4153.

12 JUDGE SPRITZER: All right, is that, it
13 doesn't seem to be on the list of enclosures with the
14 LAR. Or if it is, I'm missing it.

15 MR. LIGHTY: It was included with the LAR
16 supplement.

17 JUDGE SPRITZER: Oh, okay. All right, I'm
18 sorry. Go ahead.

19 MR. LIGHTY: Turning to the Board's
20 question eight, asking NextEra to explain its reasons
21 for arguing that Contention D is devoid of support,
22 given specific reasons that were apparently
23 articulated by C-10.

24 Just to be clear, NextEra was referring
25 specifically to the standard in 2.309(f)(1)(v)

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1 requiring petitioners to provide a concise statement
2 of the alleged facts, expert opinions, specific
3 sources, and documents that support the petitioner's
4 position.

5 And aside from quoting some limited
6 portions of the LAR and its attachments, C-10 merely
7 offers a quote from a NUREG document that it does not
8 explain, and a letter arguing that ASR progression is
9 non-linear without explaining how non-linear
10 progression is related to representativeness.

11 And as the Commission explained in the
12 USEC case, CLI-06-10, references to documents without
13 explanation or analysis as to their relevance does not
14 provide an adequate basis for admitting a contention.

15 Now we went through Contention D and noted
16 that the petition offers six general assertions or
17 conclusions here. And we will walk through and
18 explain that none of these are supported as required
19 by the regulations.

20 First, the general assertion that LSTP
21 data stream in all likelihood misrepresents the
22 progression of ASR. One can only wonder whether the
23 LSTP result has any relevance to Seabrook. There's
24 simply no support to the idea that one can only wonder
25 because to the contrary, one can do more than wonder.

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1 One can perform confirmatory testing exactly as
2 discussed in MPR 4273 Section 6.1.5 and Page VII.

3 This testing includes the very definitive
4 analytical parameters. But C-10 doesn't acknowledge
5 or challenge any of this discussion in the
6 application. So that's an unsupported assertion.

7 Number two, the assertion that ASR is non-
8 linear. Here C-10 at least cites the documents,
9 although it's an advocacy letter of its own creation.
10 Still, the quote does not discuss the topic of
11 representativeness, and it doesn't opine on the LSTP
12 which it pre-dates by a number of years.

13 And in any event, NextEra doesn't dispute
14 that ASR is non-linear. Petitioner simply doesn't
15 explain how this purportedly supports a
16 representativeness contention. And the quote
17 ultimately calls for mechanical testing of extracted
18 cores to establish compressive strength and modulus,
19 and the LAR does both of those things.

20 Number three, that the use of wetted
21 absorbent fabric, "strains credulity." There's no
22 support, expert opinion, or explanation that
23 accompanies this statement. I know there's an entire
24 discussion in MPR 4273 explaining the purpose of that
25 method, explaining the confirmatory analyses that were

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1 conducted to ensure that it satisfies that purpose,
2 the conclusion that it did satisfy that purpose.

3 But petitioner doesn't challenge any of
4 that discussion. They simply ignore it and offer
5 their conclusion.

6 Number four, the assertion that there are,
7 "far too many variables" for any test program to ever
8 be representative of Seabrook. That broad statement
9 also is not paired with any authority to back up the
10 claim.

11 Number five, that the effect of radiation
12 on ASR is, "notable." Here C-10 does quote a NUREG
13 document, but they don't offer any explanation for how
14 it might be relevant to the LAR, or much less to
15 contention D. Again, references to documents without
16 explanation of analysis of their relevance is
17 inadequate as a matter of law.

18 And number six, the assertion that no
19 rationale has been given for not load testing the as-
20 built structure at Seabrook. Again, petitioner offers
21 no support for this assertion, and it's not true
22 anyway. MPR 4273's test design justification
23 discussion covers this very topic.

24 Note discussing the comparison of
25 harvested specimens versus fabricated ones and

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1 discussing the consideration of Unit two concrete.
2 But petitioner neither acknowledges nor attacks this
3 very discussion.

4 So the bottom line being Contention D does
5 not reference specific sources or documents or offer
6 reasons, explanations, or analyses to support its
7 supposed specific reasons. These are merely
8 conclusory assertions which are insufficient for an
9 admissible contention.

10 And finally, the Board's questions nine
11 and ten about the staff's proposed reformulation. We
12 again go back to the Fermi case, CLI-15-18, explaining
13 that reformulation authority essentially comes in two
14 varieties, trimming and grouping.

15 Trimming inadmissible content from an
16 otherwise admissible contention and grouping similar
17 otherwise admissible contentions,. And we note that
18 those involve otherwise admissible, fully formed
19 contention.

20 A board may not however add content to an
21 inadmissible contention in order to make it
22 admissible. It's an important distinction here, yet
23 that's exactly what staff promise to do.

24 Staff admits in their answer pleading,
25 "None of C-10's contentions are independently

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1 admissible." Staff then proposes to cobble together
2 portions of inadmissible contentions and then declare,
3 in the words of Mary Shelley, "It's alive."

4 But it cites no authority for this
5 Frankenstein theory of reformulation. It cited
6 several cases on reformulation authority in its third
7 reply, and notably none of them attempted this
8 Frankenstein approach.

9 And controlling case law, in any event,
10 says it's not permissible. The Board's reformulation
11 authority is limited to trimming or grouping otherwise
12 admissible contentions, which is not the case here.

13 Now earlier, staff noted with regard to
14 contention --

15 JUDGE SPRITZER: If that's the case, then
16 you could never take contentions, according to you, if
17 contentions all have to be independently admissible in
18 order to be grouped together, the Board's
19 reformulation authority doesn't really add anything,
20 does it?

21 It first has to find every contention to
22 be admissible, and only then can group them together
23 presumably for purposes of efficiency. But it can't
24 ever take two contentions, each of which might be
25 missing some element that's necessary, and put them

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1 together which to my mind if that's the case there
2 really is no reformulation authority at all.

3 MR. LIGHTY: I would respectfully
4 disagree, Your Honor. The different is inserting
5 content into a contention in order to make it
6 admissible.

7 JUDGE SPRITZER: Well, the staff --
8 (Simultaneous speaking.)

9 MR. LIGHTY: In all of the examples --

10 JUDGE SPRITZER: The staff says they're
11 not doing that. They haven't found any new evidence
12 outside of what's been supplied by C-10. They're
13 mainly concerned with putting the contentions together
14 so that they provide one contention that satisfies
15 their definition of materiality.

16 MR. LIGHTY: Yes, Your Honor. And I think
17 that's an important point because in this Fermi case,
18 CLI-15-18, this was what the Commission considered.
19 There was no nexus pled between two concepts that were
20 otherwise in the same petition.

21 And the Commission said inserting that
22 nexus that the petitioner did not plead was
23 impermissible. And so it's the nexus, it's inserting
24 that connection between concepts where the petitioner
25 itself did not plead the connections, that is beyond

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1 the scope of reformulation authority.

2 And that's also why we don't think this is
3 a matter of form over substance. This is not just the
4 matter of a form of the pleading and an argument that
5 the counsel would have incorporated other contentions.
6 This is material content, pleading connections between
7 concepts that the petitioner did not include in its
8 petition.

9 And that itself is beyond the scope of
10 reformulation. It's the staff's Frankenstein
11 reformulation theory that's impermissible here, and in
12 any event pleads a nexus between concepts that
13 petitioners themselves did not offer.

14 So the reformulation must be rejected for
15 those reasons. And with that we would be happy to
16 take any other questions from the Board.

17 JUDGE SPRITZER: Let me just ask about the
18 business of if you get a table to the ASR limits in
19 ASR, excuse me, in Table 4 of the LAR, my guess this
20 is LAR enclosure 7 which is the non-proprietary
21 version of enclosure 1, you get to those limits.

22 You would then be I think you said outside
23 of your continuing licensing basis at that point,
24 assuming the amendment is approved. Am I interpreting
25 what you've said correctly?

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1 MR. LIGHTY: Yes. If you put limits into
2 your licensing basis and then exceeded those limits,
3 you would be outside of your licensing basis.

4 JUDGE SPRITZER: And at that point you
5 have to get some authority from the NRC staff to
6 continue to operate?

7 MR. LIGHTY: I believe it's an accurate
8 statement that you would have to reevaluate and then
9 do something.

10 JUDGE SPRITZER: Do something. I mean,
11 from the petitioner's perspective, I guess they're
12 concerned that they don't know what that something is.
13 And as ASR continues to progress, that there could be
14 a time gap in there between your whatever your next
15 solution might be and the point at which you go
16 outside your continuing licensing basis. What would
17 be your response to petitioner's concern about that?

18 MR. LIGHTY: I would say it's not material
19 to the LAR that is before the staff right now. In
20 other words, NextEra is requesting authority to do
21 something. And the petitioners are asking what
22 happens beyond the authority that's being requested.

23 But that's not material to whether there's
24 a sufficient basis to grant the authority to do
25 something that's being requested in this LAR. It's

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1 beyond the scope of the LAR, and therefore it's not
2 material to the determination of whether it can be
3 granted.

4 JUDGE MTINGWA: Let me ask you about your
5 monitoring. You track the in plane expansion, right,
6 that's what you're proposing to do in this three tier
7 way of monitoring the degradation.

8 And you don't do the through direction
9 because you say they're connected or they trend sort
10 of in a same way, although the in plane expansion
11 plateaus out at some point. And the through direction
12 takes off actually.

13 So at some point during all of this
14 expansion, the two have some disconnect. So how
15 confident are you that just tracking the in plane
16 expansion is sufficient?

17 MR. LIGHTY: Well, I believe we're doing
18 more than that. We're measuring the expansion in the
19 extensometer locations for --

20 JUDGE MTINGWA: No, that's only after you
21 hit 0.1 percent, right? But suppose when you're at
22 0.09 percent the Z direction has already taken off on
23 you and it may be in a dangerous situation with the
24 concrete integrity.

25 So in other words my question is how

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1 confident are you that just in plane monitoring is
2 sufficient?

3 MR. LIGHTY: If you give me just a moment
4 to confirm with my team, Your Honor.

5 JUDGE MTINGWA: Sure.

6 MR. LIGHTY: Thank you, Your Honor. So we
7 understand that the limits in the table were
8 established by observation of the expansion and the
9 connection between those two directions that were
10 observed in the LSTP.

11 In other words, up to 0.1 or whatever the
12 number was, that they all trended together. That was
13 the observation in the program. So two things on
14 that. First, based on the Seabrook extensometer
15 locations and the modulus testing that was done there,
16 they have not seen anything that would challenge that
17 observation.

18 And furthermore, in the table in MPR 4273
19 Page VII, the confirmatory analyses for similarity,
20 they would specifically look for a disconnect in that
21 trending.

22 JUDGE TRIKOUROS: I have one last
23 question. In the LAR, Section 351, there's a
24 statement that periodic monitoring of in-plant
25 expansion in accordance with the frequencies in Table

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1 5 will ensure that NextEra can take appropriate action
2 before expansion reaches the ASR expansion criteria in
3 Table 4.

4 The expert witness, or the expert I guess
5 I could say witness, for the C-10, Dr. Brown,
6 indicated that there is no action that NextEra can
7 take. So my question is what is the specific
8 appropriate action that can be taken?

9 MR. LIGHTY: I'm sorry, the specific
10 action that can be taken when?

11 JUDGE TRIKOUROS: All right, so again,
12 from Section 351 of the LAR, I'll read it again.
13 "Periodic monitoring of in plane expansion in
14 accordance with the frequencies in Table 5 will ensure
15 that NextEra can take appropriate action before
16 expansion reaches the ASR expansion criteria in Table
17 4."

18 So this implies a mitigating action. The
19 question is what is the specific mitigating action
20 that can be taken?

21 MR. LIGHTY: I'm not sure that it would be
22 a mitigating action. But I think that this would need
23 further review, additional testing, additional
24 analysis to confirm the status of the concrete and the
25 structural adequacy. But I think it would be further

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1 review to determine what the next steps are, not
2 necessarily some type of a mitigating action.

3 JUDGE TRIKOUROS: All right, so this would
4 have nothing to do with changing the rate of ASR
5 progression or anything physically associated with the
6 ASR?

7 MR. LIGHTY: I think that's a generally
8 correct statement, Your Honor, yes.

9 JUDGE TRIKOUROS: Okay. Now the statement
10 in the LAR is confusing. When you read it, it
11 directly implies that there's some mitigating action
12 that would occur before you reach the Table 4 -- all
13 right, thank you.

14 MR. LIGHTY: Yes, Your Honor. And I think
15 we continue to monitor this issue. And I think the
16 assertion there was intended to convey that before you
17 reach that, that you trigger additional analyses that
18 may need to be done.

19 In other words, you don't wait until
20 reaching that, that you do that at some point before
21 reaching that.

22 JUDGE TRIKOUROS: All right.

23 JUDGE SPRITZER: Anything further for Mr.
24 Lighty? Very well. Thank you for your comments. Let
25 me just go back to the staff for one minute, if you

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1 can answer just one question.

2 I would like you to respond to Mr.
3 Lighty's argument that our reformulation authority is
4 limited to trimming inadmissible parts from an
5 otherwise admissible contention doesn't really seem to
6 apply in this case.

7 And then he says that in terms of
8 combining contentions, we only have the authority to
9 combine individually admissible contentions, meaning
10 we would have to find, to admit your reformulated
11 contention, that all the parts that we include are
12 independently admissible. Is that a correct statement
13 of commission law in your view?

14 MR. HARRIS: So I might state it in a
15 slightly different way than the way you stated is the
16 Board cannot add information that was not provided by
17 the petitioner to make the contention admissible.

18 I think in this case, you're not
19 reformulating it by, you know, by substituting stuff
20 that was missing. We were just simply trying to show
21 that if you looked at D without interpreting the what
22 appears to be an intentional cross references by C-10
23 that D, if it had just been submitted by itself would
24 not be admissible.

25 But when you trace through all the

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1 references to all the other contentions that D traces
2 into, that those combine to form an admissible
3 contention. So we are not adding additional
4 information, we are simply reformulating the
5 admissible portions of the contentions into something
6 that is material for the Board to decide, not adding
7 information that was otherwise missing.

8 JUDGE SPRITZER: All right, thank you. We
9 have, we're almost kept to our schedule. Petitioners
10 did not ask for any rebuttal, but we will allow you
11 five minutes. But I do mean five minutes, five
12 minutes only.

13 And I think it would be best advised to
14 keep that to one person if you can do that.

15 MS. TREAT: Thank you, I think we'll be
16 less than five minutes, and thank you for this
17 opportunity. Again, Natalie Treat, Executive Director
18 of C-10 for the record.

19 So the point really that I want to make is
20 that the NRC staff has acknowledged that we have
21 admissible contentions here, however you take it. And
22 that you have admitted them, that our organization,
23 myself, our members, or board, and however you want to
24 take it, are exposed to the risk of harm due to
25 radiological contamination from the concrete

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1 degradation.

2 Therefore, we believe that we have shown
3 that we have standing, and that you have said that we
4 have admissible contentions, Brian. And I'll turn it
5 over to Chris for one more point.

6 MR. NORD: Very simply, the Palisades case
7 law that was cited talks about the purpose of this
8 restriction is to ensure fundamental fairness to the
9 Commission's proceeding for all participants because
10 allowing new claims in a reply would unfairly deprive
11 other participants of an opportunity to rebut new
12 claim.

13 And I simply want to point out that we
14 have not deprived anyone the opportunity of rebutting
15 claims because all we have heard for the last hour,
16 which is fine, are rebuttals to our claim.

17 So it seems to me that that is actually an
18 untenable argument as far as disallowing standing, and
19 clarifications that we try to make as pro se
20 representatives of our standing and contentions for
21 those standing and contention arguments.

22 The last thing that I would just say is
23 having to do with a reference earlier to earthquakes
24 that, you know, we were sort of coming out of the blue
25 with this notion that an earthquake is suddenly be

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1 beyond design basis.

2 And so I went back and looked it up from
3 our petition, and I don't say that the earthquake is
4 beyond design basis. I said greater than expected.
5 It could still be within design basis. I don't expect
6 to have a large earthquake anywhere near us, but I do
7 know that we're close to an earthquake fault.

8 So the idea that we were trying to convey,
9 perhaps not as clearly as staff would have preferred
10 and I understand, is that the combination of some kind
11 of natural phenomenon, in this case an earthquake was
12 what I used, even what is expected within design basis
13 combined with the deterioration of the concrete
14 because of ASR could result in a calamitous
15 consequence. That was the point that I was trying to
16 make.

17 So with that we'll just say thank you for
18 giving us the opportunity to make some further
19 clarifications.

20 JUDGE SPRITZER: Very well. That
21 concludes the argument. Are there any housekeeping --
22 well let me first say we will do our very best to get
23 our ruling out within the 45 day period which starts
24 running today. If in the event we don't meet that, we
25 will issue the order required by the regulations

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1 explaining when we will get the ruling out. But we
2 will give every effort to deal with all the issues
3 we've been presented with in that time period.

4 Are there any other housekeeping matters
5 we haven't, we need to talk about here today that we
6 haven't covered?

7 MR. NORD: Thank you for the opportunity.

8 JUDGE SPRITZER: All right. Just one
9 question for, I guess this is mainly for NextEra. On
10 the documents, the privileged documents or the
11 protected documents, I think for all of them we have
12 redacted versions that we could use what we would cite
13 in our order.

14 If we don't, my understanding is you have
15 blocked out everything we need to not refer to either
16 in red boxes or otherwise. So if we did have to refer
17 to a document that was protected, I would think we
18 could refer to the portions that aren't blocked out or
19 in a red box. But I just want to make sure that I'm
20 correct about that.

21 MR. LIGHTY: Yes, Your Honor, that's
22 correct. All of the proprietary content has been
23 blocked out of the documents.

24 JUDGE SPRITZER: All right, very good.

25 (Simultaneous speaking.)

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1 JUDGE SPRITZER: Unless there's anything
2 further, we will conclude our --

3 Oh, excuse me.

4 MS. TREAT: Just one clarifying question.
5 I believe that Attorney Harris indicated that if we
6 were admitted standing in this docket that we would
7 have privilege to the redacted versions as well, that
8 we missed the previous deadline. What would we be
9 able to see?

10 JUDGE SPRITZER: Well, I think what he
11 said was if the petition is granted, if we admit the
12 petition and proceed with the case, that the Board
13 would then enter a protective order that would allow
14 appropriate access for the representatives of C-10.
15 Am I paraphrasing you correctly, Mr. Harris?

16 MR. HARRIS: You have got me absolutely
17 correct, sir.

18 JUDGE SPRITZER: All right. We'll get to
19 that stage when and if we issue our order. There will
20 be something in our order or at least shortly
21 thereafter about moving forward with a protective
22 order. That would typically I think, probably either
23 the staff or NextEra have some form of protective
24 order that they've used in other cases that they could
25 confer with you and hopefully come up with an

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1 appropriate order that would allow the access you
2 need.

3 Anything else? I think that concludes our
4 proceedings then. Thank you, it's been a very
5 informative, interesting argument.

6 (Whereupon, the above-entitled matter went
7 off the record at 1:13 p.m.)

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