

TurkeyPoint34SLRPEm Resource

From: Comar, Manny
Sent: Thursday, March 28, 2019 11:36 AM
To: TurkeyPoint34SLR Resource
Subject: FW: WO 3751 Turkey Point
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From: Martinez, Nancy
Sent: Monday, March 25, 2019 4:35 PM
To: Comar, Manny
Subject: FW: WO 3751 Turkey Point

From: Martinez, Nancy
Sent: Monday, June 25, 2018 8:26 AM
To: James, Lois <Lois.James@nrc.gov>
Subject: FW: WO 3751 Turkey Point

FYI

From: Burton, William
Sent: Thursday, June 07, 2018 4:46 PM
To: NRR_DMLR_MENB Distribution <NRRDMLRMENBDistribut@nrc.gov>; Adams, Darrell <Darrell.Adams@nrc.gov>; Lea, Edwin <Edwin.Lea@nrc.gov>; Burnell, Scott <Scott.Burnell@nrc.gov>; Turk, Sherwin <Sherwin.Turk@nrc.gov>; Wilson, George <George.Wilson@nrc.gov>; Billoch, Araceli <Araceli.Billoch@nrc.gov>
Subject: FW: WO 3751 Turkey Point

Hi Everyone,

Attached are the transcripts from the Turkey Point public meetings last week.

Butch

From: Stefen Styrsky (NRGCO) [<mailto:stefen@nealrgross.com>]
Sent: Thursday, June 07, 2018 4:42 PM
To: Burton, William <William.Burton@nrc.gov>
Cc: Andrea Bauguess (NRGCO) <andrea@nealrgross.com>
Subject: [External_Sender] WO 3751 Turkey Point

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Stefen Styrsky

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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Public Scoping Meeting for the Environmental Review of the Subsequent License Renewal Application for Turkey Point Nuclear Plants Units 3 and 4 - Session 2

Docket Number: (n/a)

Location: Homestead, Florida

Date: Thursday, May 31, 2018

Work Order No.: NRC-3751

Pages 1-62

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

+ + + + +

PUBLIC MEETING

+ + + + +

PUBLIC SCOPING MEETING FOR THE ENVIRONMENTAL REVIEW
OF THE SUBSEQUENT LICENSE RENEWAL APPLICATION FOR
TURKEY POINT NUCLEAR PLANTS UNITS 3 AND 4

+ + + + +

THURSDAY,

MAY 31, 2018

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The meeting was convened in City of
Homestead City Hall, 100 Civic Court, Homestead,
Florida 33030, at 5:00 p.m., William Burton, NRC,
facilitating.

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NRC STAFF PRESENT:

WILLIAM BURTON, NRR/DMLR/MRPB

LOIS JAMES, NRR/DMLR/MRPB

MICHELLE MOSER, NRR/DMLR/MENB

GEORGE WILSON, NRR/DMLR

SCOTT BURNELL, OPA

EDWIN LEA, Region II

ARACELI BILLOCH-COLON, NRR/DMLR

KEVIN FOLK, NRR/DMLR, MENB

DARRELL ADAMS, OCA

BEN BEASLEY, NRR/DMLR/MENB

DANIEL ORR, R-II/DRP/RPB3/TPRO

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P R O C E E D I N G S

(5:02 p.m.)

MR. BURTON: Good evening, everybody. Appreciate you coming out. Just real quick, how many people are here that were here at the earlier session?

Oh, gee. Okay. I think that's probably half or maybe even a little more. Okay. So you guys kind of know the drill. My name's Butch Burton. I'm from the U.S. Nuclear Regulatory Commission, NRC. And I work in our Office of Nuclear Reactor Regulation.

And I want to welcome all of you to the second public meeting for the Subsequent License Renewal Application for Turkey Point Nuclear Units 3 and 4, submitted by Florida Power & Electric.

I'm a project manager for the NRC Staff's Environmental Review, but today I'll be serving as your facilitator. My role as facilitator is to ensure that today's meeting is informative, productive and stays on time.

Before we get started, I'd like to a few minutes to go over some logistics. First of all, no food, beverages or smoking in the room. If you have anything that rings, beeps, buzzes, talks back to you, if you could turn it off or mute it, that would be good.

For those of you who don't know how to get

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1 to the restroom, the men's room is on this side, as
2 you come out those doors. Ladies' room is on this side,
3 as you come out those doors.

4 If, for some reason, we're asked to
5 evacuate the building, we'll ask you to follow the
6 instructions and some of the security personnel here.
7 We'll muster outside and make sure that we can account
8 for everyone.

9 Today's meeting is a Category 3 meeting.

10 For those of you who are not familiar with the NRC's
11 meeting categories, a Category 3 meeting is typically
12 held with representatives of non-governmental
13 organizations, private citizens or interested parties
14 or business or industry to fully engage them in
15 discussion.

16 These meetings provide an opportunity for
17 the NRC and the public to work directly together to
18 make sure that the issues and concerns are understood
19 and considered by the NRC.

20 The objective is to provide a range of
21 views, information, concerns and suggestions with
22 regard to regulatory issues. Now today's meeting will
23 be transcribed. So when you're speaking, if you can
24 either come up to the podium or we can bring you one
25 of the hand-held mics, if you provide your name and

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1 affiliation and then please speak.

2 Now we do have meeting feedback forms
3 available, so after today's meeting, we'd like for you
4 to take a few minutes to fill out the form and return
5 it to us, or you can provide feedback directly through,
6 to the NRC, to our website. And so you can provide
7 it electronically. We do take your feedback very
8 seriously. We use the feedback to help improve future
9 meetings.

10 Now for those of you who have taken a look
11 at it the agenda, you say, you know, we have a lot to
12 talk about today. We are going to try to stay on
13 schedule. We're going to try and do that a little
14 better than we did first session.

15 We want to make sure we hear from everyone,
16 and we want to make sure that everybody gets sufficient
17 time to make their comments. But we do ask that,
18 because time is limited, we're going to ask you to be
19 very concise with your comments and, hopefully,
20 everybody will get an equal shot to share what they
21 want to share with us.

22 If anyone is using recording devices,
23 that's fine. We're perfectly okay with that. But we
24 would like to make sure that everyone else knows who's
25 recording and who's not. So one of the -- it's

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1 permitted. If anyone is going to be recording the
2 meeting, if you could kind of raise your hand and let
3 us know.

4 (Off-microphone comment)

5 MR. BURTON: I'm glad you brought that up
6 because after the first --

7 PARTICIPANT: Could you repeat the
8 question? Repeat the question on the microphone.

9 MR. BURTON: One of the -- some of the
10 feedback that we got from the first session was that
11 some people couldn't hear very well and our transcriber
12 was one of those people. So we do want folks, when
13 they do come up to speak, to speak loudly and make that
14 sure everyone in the room can hear you and the
15 transcriber can pick up. So, thank you. I
16 appreciate that.

17 Any other questions? Okay. We have a
18 number of NRC staff here today, and they're here to
19 address any questions you may have on our processes.

20 But I do want to point our presenters for today. Our
21 first speaker's going to be Ms. Lois James, who heard
22 from a little bit, just a minute ago. She will provide
23 an overview of the NRC staff's Safety Review process.

24 After her will be Ms. Michelle Moser,
25 standing right next to her. Michelle will provide an

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1 overview of the staff's environmental review. And
2 finally, to close out the meeting, we'll have Mr. George
3 Wilson, our director of the Division of Materials and
4 License renewal in NRR.

5 So I think we'll go on and get started with
6 Lois.

7 MS. JAMES: Thank you, Butch. I don't
8 want to have problems with anybody hearing me. Let
9 me know if you can't hear.

10 Good evening. My name is Lois James. I'm
11 the Safety Project Manager for the Turkey Point
12 Subsequent License Renewal. Our goals today are
13 two-fold. First, to provide you with an overview of
14 the subsequent license renewal process, both safety
15 and environmental. And then, two, to get your input
16 as to what environmental issues that NRC should consider
17 in our review. Next slide, please.

18 The agenda for today's meeting begins with
19 the staff providing an overview that I just spoke about.

20 After the NRC's presentation, attendees can ask
21 questions about the presentation and the process.

22 In order to match my time to the public
23 to comment on and try to provide their comments for
24 the environmental review, we'll only address questions
25 about the process itself. The final part of the meeting

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1 is the most important. You provide your thoughts and
2 comments on what should be included in the NRC
3 environmental review. Next slide, please.

4 The license rule review proceeds in
5 parallel reviews, a safety review and an environment
6 review. Across the top of the slide is the
7 environmental review, and Michelle Moser will discuss
8 this in a little bit.

9 Along the bottom is the safety review.
10 The safety review has two components, the staff safety
11 review and then the review by the advisory committee
12 on reactor safeguards.

13 The dotted lines in the middle of the flow
14 chart highlighted the opportunity for a hearing in
15 accordance with the Atomic Energy Act. The lines
16 blocked at the far right is the NRC decision on whether
17 to renew the operating licenses. As you can see, this
18 is based on several factors. Next slide, please.

19 The principles in license renewal safety
20 review have not changed since the initial subsequent
21 initial license renewal. And they are the regulatory
22 process provides adequate insurance the plant's current
23 licensing basis will maintain an acceptable level of
24 safety.

25 Number two, each plant's current licensing

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1 basis is required to be maintained during the renewal
2 term in the same manner and to the same extent as during
3 the initial licensing term.

4 The NRC ensures the adequate protection
5 of public health and safety and the environment through
6 our regulatory process. This chart shows the different
7 aspects of the regulatory process. The blue arrows
8 and gray boxes show the current and continued regulatory
9 processes.

10 The red block and arrow show the aging
11 management activities which were added by the initial
12 license renewal. As part of the subsequent license
13 renewal review, the staff will review the
14 effectiveness of the applicant's aging management
15 activities.

16 Okay, the next slide, actually, I think
17 the previous slide. One slide fell out of order. Yes,
18 the safety review. The focus of the safety review is
19 to identify the aging effects that could impair the
20 ability of systems, structures and components within
21 the scope of the license renewal to perform their
22 intended functions and then to demonstrate that these
23 aging effects will be adequately managed throughout
24 the period of extended operation.

25 This focus has not changed from initial

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1 license renewal. Since that location contained
2 proprietary information, the NRC conducted a
3 proprietary review and issued its proprietary
4 determination on that information on April 3rd.

5 In order to be more effective and efficient
6 with time and resources, the NRC has divided its review
7 into sections. The first part is the operating
8 experience audit which was conducted May 7th through
9 the 18th. This audit review, the applicant's operating
10 experience information and corrective action system
11 for data applicable to aging related issues.

12 The second section of the review is the in-office
13 review and the in-office audit where the staff will
14 review documents and references in the application in
15 more detail.

16 Finally, the NRC will conduct an onsite
17 audit of the plant facility and additional documents,
18 as needed. The staff would like to make its review
19 in a Safety Evaluation Report, or SER. In the past
20 the staff has issued safety evaluation reports with
21 open items. For subsequent license renewal, our goal
22 is to issue the safety evaluation report once with no
23 open items.

24 And that conclude the discussion on the
25 safety review. And I will hand it over to Michelle.

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ENVIRONMENTAL REVIEW

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MS. MOSER: Thanks, Lois. Good evening.

My name is Michelle Moser, and I'm a biologist working on the Turkey Point environmental review.

The environmental review is conducted in accordance with the National Environmental Policy Act of 1969, commonly referred to as NEPA. NEPA requires federal agencies to follow a systematic approach in evaluating potential impacts from the proposed action and alternatives -- thank you -- the proposed action.

Can everyone hear now? All right.

Fellow participation is an important aspect of the NEPA process. Environmental review bio-stems on the above slide are highlighted green. That included public participation.

The environmental review begins with a scoping process which includes today's public scoping meeting. Scoping is a process by which the NRC staff identifies specific impacts and significant issues to be considered in the environmental impact statement.

The NRC staff will consider all of the scoping comments presented here today as well as in writing within the draft's environmental impact statements. The staff will also conduct an independent assessment looking at new and significant information

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1 including an environmental site project.

2 The NRC staff will publish its findings
3 within a draft environmental impact statement that will
4 be issued for public comments. That public comment
5 will be the second opportunity for you and other members
6 of the public to participate in the environmental review
7 process.

8 Again, the NRC staff will consider all
9 comments received in preparing and updating the final
10 environmental impact statements.

11 I'd like to take a few minutes to discuss
12 what we mean by scoping and your role in this process.

13 The NRC staff uses scoping to determine the range of
14 issues and alternatives to be considered in an
15 environmental impact statement.

16 In addition, scoping comments help
17 identify significant issues that will be analyzed in
18 greater detail. Scoping is also intended to ensure
19 that concerns are identified early and properly
20 evaluated throughout the review.

21 You are an important part of the scoping
22 process. Because you are familiar with your community,
23 your comments will help to facilitate a thorough review.

24 You can assist this process by telling us, for example,
25 what aspects of your local community we should focus

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1 on, what local environmental, social and economic
2 issues the NRC should examine during our review and
3 what other major projects are in progress or planned
4 in the area.

5 The NRC issues the following documents in
6 association with the environmental scoping process.
7 The NRC initially issues a Notice of Intent to prepare
8 the environmental impact statement and to inform the
9 public about the scoping process.

10 The notice identifies the federal action,
11 the comment period and the methods by which comments
12 can be provided. We have copies of the notice at
13 today's meeting at the front table by the door.

14 The NRC also issues scoping letters to
15 federal, state and local agencies as well as tribal
16 nations in press releases and newspaper advertisements
17 to advance public meetings and the scoping process.

18 At the conclusion of the scoping process,
19 the NRC will prepare and issue an environmental scoping
20 summary report that describes comments received during
21 the scoping period.

22 Within the environmental impact statement,
23 the NRC evaluates the potential impacts to a broad range
24 of environmental resource areas including human health,
25 air quality, wetlands and threatened and endangered

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1 species.

2 The NRC conducts this review by building
3 upon decades of previous experience analyzing
4 environmental impacts for power plant operations. We
5 will focus our review on site-specific impacts by
6 reviewing the best available current information.

7 In conducting our environmental review,
8 we will be coordinating with other federal, state and
9 local officials as well as tribal leaders. This
10 coordination helps to ensure that local resource
11 specialists are involved in the review.

12 Some of the agencies we are coordinating
13 with include the U.S. National Park Service, the U.S.
14 Fish & Wildlife Service, the U.S. Environmental
15 Protection Agency and Miami-Dade County.

16 Ultimately, the purpose of the
17 environmental review is to determine whether or not
18 the environmental impacts of license renewal could be
19 so great that reserving the action of license renewal
20 for decision makers would become unreasonable.

21 The environmental impact statement will
22 be considered in conjunction with the NRC staff's safety
23 related reviews in recommending to the commission
24 whether to renew the Turkey Point operating license.

25 In summary, these are the factors that will

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1 be considered by the commission in deciding whether
2 to renew the Turkey Point licenses. It is the goal
3 of the NRC staff to complete its license renewal review
4 and reach a decision on renewing the operating license
5 in 18 months for the time the application is accepted.

6 This schedule can be extending to accommodate a
7 hearing, if granted.

8 This slide shows important milestones for
9 the safety and environmental review process. It is
10 important to note that these dates are tentative. And
11 I'd also like to note that the safety evaluation report
12 will be a publicly available document.

13 And you are welcome to attend the Advisory
14 Committee on Reactor Safeguards, or ACRS, meetings
15 which are open to the public and will be held at the
16 NRC Headquarters outside of Washington, D.C.

17 The citing of information on how to submit
18 comments after the meeting concludes. Again, we will
19 treat comments spoken during the meeting the same as
20 written comments received after the meeting. Comments
21 will be accepted through June 21st, and they can be
22 submitted by mail or through regulations.gov.

23 Lastly, this slide shows the website where
24 you can find additional information regarding the
25 Turkey Point review including FPL's application. I've

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1 also listed the contact information for the two project
2 managers that are here today, Butch and Lois.

3 This concludes the staff's formal
4 presentation, and I will now turn it back over to Butch.

5 MR. BURTON: All right, thank you, Lois.

6 Thank you, Michelle. What we want to do now is take
7 a few minutes to open it up to folks if anyone has any
8 questions or comments of anything that they just saw
9 in the presentation about our process, how we conduct
10 the safety and environmental review. Anyone have any
11 questions or thought on that?

12 Okay, hearing nothing, I think we'll go
13 right into what we're all really here for, which is
14 to give you an opportunity to provide your comments
15 on the environmental issues for the staff's review.

16 Now couple of things. Those of you who
17 want to speak, have filled out yellow cards indicating
18 that you do have comments. Some people, on their yellow
19 card, marked that they were at the prior session and
20 this session. If you marked both, I took that to mean
21 that you wanted to speak at both. So if you don't,
22 when I call your name, just let me know and then we
23 can -- I can go on ahead and just skip you and we can
24 move on.

25 If there's anyone who didn't somehow fill

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1 out one of the yellow cards but would like to speak,
2 please let me know and we'll get you a card and you
3 can fill it out.

4 One thing from the earlier session, we do
5 really want to try to stick to the allotted time.
6 Because what we found is that some folks took longer
7 than the allotted time and we tried to be understanding
8 about that, but then some of the folks, later on, kind
9 of got short-changed in their time. So we don't want
10 to do that this time, if we can avoid it.

11 So what we're going to do is, I'm going
12 to call the first three speakers names so the folks
13 know when they're on deck. And as we go through, I'll
14 just keep doing that. So let's start with Albert
15 Gomez, followed by Zach Cosner and then Matt Schwartz.

16 MR. GOMEZ: Thank you for accommodating.
17 Albert Gomez. I'm a resident. I'm actually going
18 to a planning meeting for Biscayne Bay Marine Health
19 Summit, which I'm on the steering committee of, critical
20 issue.

21 One thing that I would ask, based on what
22 your intake was from the morning session, is, my
23 understanding is, when the upgrade occurred during the
24 last operation, they did have to go through an emergency
25 authorization request to keep the facility operating

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1 at higher temperatures, above the standard operating
2 temperature.

3 And if they are going to operate at that,
4 from that upgrading, there was a Delta on a whole slew
5 of metrics. That Delta is measured. It all gets
6 listed. And if there was that, it's, that is the
7 constant.

8 If they are going to reauthorize it and
9 go to immediate upgrade, will those Deltas be taken
10 into account, into the AIS as a standard operating
11 reality that we're going to have to go to another
12 emergency authorization, another function of
13 upgrading. And I'm wondering if that's part of what's
14 being considered as a function of the AIS that would
15 be pretty or --

16 And then I want to get a little deeper on
17 the body, the Process for Ongoing Assessment of Natural
18 Hazard Information. That is required. That is part
19 of the requirement for this type of reactor now. And
20 it is alluded to both on, I feel did allude to it on
21 both their -- and it was referenced on the approval
22 notice that the NRC released for their 67.

23 And I believe it's in, referenced lightly,
24 on their renewal application. But I'm going to circle
25 that. I'd like to see if that's, if that is referenced

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1 and, if so, part of that body means that they have,
2 they ensure us that the staff proactively and
3 routinely aggregates SS new natural hazard information.

4 That new natural hazard information was
5 present as standards for the sea level rise projection.

6 So if -- I want to make it not so much about the sea
7 level rise projections. It's more over about those
8 have stated common knowledge and standard through the
9 County, through the compact, through various
10 municipalities.

11 And it was not applied. Instead, POANHI,
12 its old prevention was applied. And I'm wondering
13 why, if the, one, it very clearly states that it ensures
14 that the staff brought the matter to the NRC. And this
15 is new natural hazard information. So they're going
16 to old information versus new information, so I'd like
17 to know that.

18 Then also, all, most mayors, Mayor Gimenez,
19 Mayor Suarez, Dan Gelber -- Mayor Gelber, three that,
20 off the top of my head, have all referenced rain bombs
21 as a new event that occurs down here which has much
22 higher output of rain in a very centralized location.

23 I don't think that natural hazard was talked about
24 or addressed in their reauthorization. It's something
25 that they should consider.

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1 And then, in closing, the last statement
2 I would say is that, as another function of the POANHI
3 related that our compounded projections of king tide
4 and maximum storm surge during hurricane-related
5 events, which happens to coincide in October, applied
6 to the scope of the new AIS. I appreciate your time.

7 Thank you.

8 MR. BURTON: Thank you, Albert. For the
9 speakers, just so you know, when you have one minute
10 left, I'll be standing back here. I'm going to put
11 up one finger so you know. And when you're out of time,
12 I'm going to put up a fist. And at that point, please
13 just try to wind it up, and I think we can keep it moving.

14 Okay, Zach?

15 MR. COSNER: Hello there. I had the
16 privilege to address you during the morning session,
17 so I'll keep my comments brief because I only would
18 like to complete some of the thoughts that I introduced
19 during that session.

20 When I last spoke to you, I raised my final
21 point, the specter of a Category 6 storm. As you know,
22 under a regime of climate change, storms have become
23 more and more intense in the Atlantic Ocean and could
24 potentially wreak massive havoc, massive storm surge
25 in this area, in the vicinity of Turkey Point, which

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1 is compounded by the seal level which FPL, right, which
2 FPL has critically under-represented in their
3 environmental report.

4 And to form a note, that during Hurricane
5 Irma, there's never been said, the water levels actually
6 over-topped the top of the berm of the canal. This
7 canal, or this berm, is barely above sea level, if it
8 is. And if the mixing of waters of Biscayne Bay, waters
9 of the L-31 E Canal, which are a water of the State,
10 is not a public -- with a base to open industrial sewer
11 is not a health hazard, I would not know what is.

12 Now what is a major alternative, like great
13 alternative, that FPL can put in place? Cooling
14 towers. This is the only way to make sure that this
15 cooling system operates and managed -- does not
16 jeopardize public health and environmental health.

17 A cooling tower can be constructed at
18 elevation. It cannot be overtopped easily by a storm
19 surge. There were plans when they were projecting the
20 development of Units 6 and 7 that they would create
21 a fill base, a base of fill to place to the cooling
22 tower on top of.

23 That would basically provide an effective
24 means of shielding the plant from, and the cooling
25 system, from the effects of climate change. I would

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1 urge you to try and compel FPL to construct this very
2 common sense safety mechanism. Thank you.

3 MR. BURTON: All right. Thank you, Zach.

4 Next we'll have Matt Schwartz, followed by Erik
5 Gonzales and then Kerry Black.

6 Well, all right, I guess we have too many
7 here. Erik Gonzales, Kerry Black and then we'll have
8 Jennifer Allman.

9 MR. GONZALES: Okay, good afternoon. My
10 name is Erik Gonzales, and I'm a Nuclear Reactor
11 Operator at Turkey Point. I've been an operator at
12 Turkey Point for over ten years. I'd like to thank
13 the NRC for the opportunity, and everyone here involved,
14 for the opportunity to discuss a few things.

15 First, obviously, I'd like to encourage
16 the NRC to allow a license extension. I believe it's
17 very important. I have a few reasons here.

18 Units 3 and 4 have provided power to just
19 under a million homes for over 44 years with a hundred
20 percent carbon-free footprint, with a particular focus
21 on the health and safety of the public it serves and
22 the area in which it's located.

23 Turkey Point tries to maintain a respect
24 for the unique environment in which it resides. A great
25 temple of that would be a safe haven for the American

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1 crocodile that they've provided. It's one of the few
2 environments where both crocodiles, alligators --
3 American crocodiles and American alligators are able
4 to co-exist.

5 And since Turkey Point has taken over the
6 custody -- or not the custody, but the maintenance of
7 that area, the population has gone from somewhere in
8 the neighborhood of 40 to over 400 and they essentially,
9 give or take a fifth of the alligator, of the crocodile
10 population there, which is great.

11 I think that speaks to the health of --
12 the healthy condition of the canal alone. Also, we
13 continue to improve every aspect of the plant, every
14 day, in everything we do, from the equipment that we
15 operate, the equipment we used to control the plant
16 and the personnel that we use to run the plant.

17 I, myself, am required to pass a
18 requalification process every five weeks to ensure that
19 I'm at my best every time I'm at the controls. As a
20 reactor operator, I've been licensed and charged with
21 safeguarding the public which I serve. And that
22 includes my family, my friends and the land I love.

23 My family and I live less than 15 miles
24 away from the plant. And we've never felt safer.
25 Often I'm asked if there's something I should be

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1 concerned with or if people should be concerned with
2 anything about my job. And I can't think of a better,
3 safer place to work than Turkey Point.

4 During Hurricane Irma, I was at the
5 controls in the control room. And the consideration
6 that management took for the health and safety of the
7 public and for the personnel left me with a strong
8 impression. I was impressed with their decision making
9 process and the things that they were focused on --
10 obviously, the safety of the public and maintaining
11 the plant.

12 So, in conclusion, I'd just like to implore
13 the NRC to strongly consider renewing the license.
14 For me, it's very important, and thank you again for
15 your time.

16 MR. BURTON: All right. Thank you, Erik.

17 Next we have Kerry Black, followed by Jennifer Allman
18 and then Mark -- I hope I'm getting this right --
19 Bromkey? Apologize if I got that wrong.

20 MS. BLACK: My name is Kerry Black. I'm
21 the CEO of the South Bay Chamber of Commerce. I'd like
22 to comment for a couple of moments on the statistics
23 of the impact -- leading on the impact that Turkey Point
24 operating system on Miami-Dade County region, in a
25 particular cell, Miami-Dade County.

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1 Turkey Point supports Miami-Dade around
2 the clock. It preserves clean air and addresses
3 climate change. Turkey Point includes two
4 zero-emissions nuclear-generating units, Unit 3 and
5 Unit 4, and one high-efficiency natural gas unit, Unit
6 5.

7 Turkey Point operations generate an
8 estimated \$1.7 billion of economic output annually,
9 employ more than 800 full-time employees and hundreds
10 of contract workers who live in nearby South Florida
11 communities.

12 Annual reviewing outages require more than
13 2,500 additional personnel to visit the plant,
14 supporting local lodging, restaurants and hundreds of
15 other local businesses. Approximately 38 million of
16 FPL's annual \$102 million in property taxes is due to
17 Turkey Point Units 3 and 4. FPL is the number one
18 property taxpayer in Miami-Dade County.

19 The licenses for existing Turkey Point's
20 unit expire in 2032, Unit 3, and 2033, Unit 4. The
21 application for license renewal for an additional 20
22 years is the most economic option. This renewed
23 license will bridge the gap to the middle of this century
24 as it's not feasible to construct new units at this
25 time.

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1 It offers \$2.8 billion in savings for FPL
2 customers over the next closest alternative, a natural
3 gas unit or plant. It does not add new gas pipelines
4 or transmission lines. It maintains locational data
5 bits to maintain system stability and reliability.

6 It will retain trained and local workforce
7 and supporting businesses. FPL gives over \$1.1 million
8 annually to the Miami-Dade civic, educational
9 organizations and general services. Thank you.

10 MR. BURTON: Sorry. Jennifer Allman
11 followed by Mark Bromley, I apologize, and then Kent
12 Nelson.

13 MS. ALLMAN: Hello. My name is Jennifer
14 Allman. I've moved here in Homestead in 2006. That's
15 when I was hired at Turkey Point. I work in Radiation
16 Safety. I've been in this field for almost 20 years.

17 My personal experience with FPL has been
18 very good. We are one of the safest companies that
19 I've ever worked for. I've worked in a lot of nuclear
20 industries, not just nuclear power, and I raised my
21 family here. And I live about eight miles away from
22 the plant. And I don't have any worries.

23 We also are connected. And I say we
24 because at FPL we are a team, the employees. We have
25 a very strong belief in the environmental and

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1 radiological safety. And I just wanted you to know
2 my opinion. Thank you.

3 MR. BURTON: Thank you, Jennifer.
4 Appreciate it. Okay, next is Mark -- is it Bromley?
5 Okay. Mark Bromley and Kent Nelson and Maria Parra
6 -- I hope I'm pronouncing that correctly.

7 MR. BROMLEY: Hi. Thank you. My name is
8 Mark Bromley, and I too work for FPL's Radiation
9 Protection Department. But before I turn there, I grew
10 up here in the Homestead area and spent my high school
11 years, in the summertime, working for the Park Service,
12 at YTC, growing a huge appreciation for the resources
13 that we do have out in our glades and out in Biscayne
14 Bay and the reefs, coral reefs. It's where we were
15 diving. It's very unique for what we have here in the
16 United States.

17 Anyway, in the 90s, I worked for the State
18 of Florida, with the Department of Health, here at
19 Radiation Control. And in that role, we interacted
20 with FPL as regulatory agent, not with license, but
21 in monitoring the environment surrounding the place.

22 Anyway, to this day, we still, the State,
23 continues to monitor the air, water, the resources in
24 the Bay and surrounding plant. We contain all the bilk
25 and, in general, keep tabs on everything that goes on.

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1 And it continues, as we speak, on a day-to-day basis.

2 In the late 90s and to present, I would
3 come to work with Turkey Point as in a full-time role,
4 and I realized the dedication that they have shown to
5 protect that resources that I've grown to cherish and
6 the due diligence that our lending folks have
7 maintained, the crocodile population.

8 And to the extent that FPL will follow,
9 doing the necessary steps to take care of the medical
10 considerations, is astounding, the resource that we
11 deliver to detect that. So we're a learning
12 organization. We constantly are adjusting and
13 learning.

14 And I found that I have confidence in the
15 company to do the right thing, and we're constantly
16 doing that. And that's about all I have. Thank you
17 very much.

18 MR. BURTON: Thank you, Mark. Okay, next
19 is Kent Nelson, followed by Monica Pria -- is that right?

20 MS. PARRA: Maria Parra.

21 MR. BURTON: Parra -- okay, I'll get it.
22 I'll get it. And then Bryan Paz.

23 MR. NELSON: Good evening. My name is
24 Kent Nelson. I am the Deputy Executive Director at
25 the Florida Keys Aqueduct Authority and Chief Engineer

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1 and Chief Operating Officer for the Authority.

2 I am here on behalf of my own board as well
3 as, unofficially, the Board of Commissioners for the
4 Monroe County, which asked that I take the lead on this
5 issue.

6 Just as a general background, the FCAA or
7 the Aqueduct Authority provides water for all Monroe
8 County, just south of Dade in the Florida Keys. Roughly
9 75,000 permanent residents as well as well over a
10 million visitors a year.

11 The reason why I'm here is that the FP&L
12 canal, our closed canal system with the CCS has been
13 in operation for over four decades. It's been leaking
14 a toxic hyper-saline pool into the Biscayne Aquifer
15 which is our sole water source for all of Monroe County.

16 Our resource well field is roughly ten
17 miles, so West of here, and we've been tracking movement
18 through our well field, monitoring, indicating that
19 movement and that threat.

20 Currently, FP&L is under a consent order
21 to stop and our track movement. And I'd like to call
22 up to -- thanks to Mr. Lee Hefty here from Department
23 of Environmental Resource Management from Miami-Dade
24 County, who has conducted or is under consent order
25 with FP&L as well as the state to help mitigate that.

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1 The concern that we have is that the
2 modeling that was used to build that consent order based
3 on data to date indicates that what FP&L is proposing
4 isn't working. And we have yet to be convinced that
5 it will work in the future.

6 So as a result, at the request of the board
7 and of Monroe County, I ask part of this renewal request
8 we would request also that if an extension is granted,
9 that a couple of conditions be attached to that
10 extension, the first one being that FP&L would mitigate
11 that existing toxic pool by a specified date. And,
12 secondly, that the FP&L decommission the canal system
13 and go to cooling towers which would help prevent and/or
14 exacerbate the existing condition of the county. Thank
15 you very much.

16 MR. BURTON: Thank you, Kent. Next we
17 have Pria Parra -- hope I -- third time's a charm --
18 followed by Brian Paz and then Bryan Stamp.

19 MS. PARRA: Good evening commissioners.
20 Thank you for the opportunity to speak. My name is
21 Maria Parra, a resident of the city of Homestead and,
22 Miami-Dade College student.

23 Today I would like to voice my opposition
24 to the license renewal for Turkey Point and its grant.

25 For it is crucial that the license renewal application

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1 adequately consider the potential impact of sea level
2 rise on the operation of the plant.

3 Sea level rise could increase in the Turkey
4 Point area. My family and I go to Biscayne National
5 Park and the Homestead Bayfront Park often. A few
6 months back, my sister actually went to the beach and
7 to the Biscayne National Park for a cleanup, and the
8 water was rising.

9 So it's evident that sea level rise is an
10 issue. I would like to request that we rise above it
11 and do the right thing for the city in the long run
12 and for our future. While doing my Associate's of Arts
13 at Miami-Dade College, I heard about the tribune in
14 the bay and the aquifer.

15 And while many residents in Homestead can
16 afford purchasing filtered water, many others cannot.

17 It would be a shame if our water continues to be
18 contaminated. We cannot drink dollar bills, money or
19 checks. But we can trust in our government to place
20 the needs of the planet and people over profit.

21 Our aquifer is precious. I learned about
22 it in middle school at the aquifer and lime rock. And
23 it's disappointing to hear the risk and threats of
24 continued contamination. Not only is this an issue
25 about water, but it's also about the animal and the

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1 plant life within the park.

2 There are many risks ahead if this license
3 renewal is renewed. To renew this license means to
4 renew and continue water pollution and places the public
5 health at risk, especially considering the deadly mix
6 of nuclear power plant and strong storms occurring.

7 I would petition you to reject the license
8 renewal for Units 3 and 4. Thank you for the
9 opportunity to comment.

10 MR. BURTON: Thank you, Maria. Next we
11 have Bryan Paz followed by Brian Stamp and Tom Southern.

12 MR. PAZ: Hi. My name is Bryan Paz. I'm
13 a resident of Miami-Dade County. I live in West
14 Kendall. Thank you for allowing me to share my thoughts
15 on the proposal to renew Turkey Point's operating
16 license for an additional 20 years.

17 FPL and the NRC, through their oversight,
18 must consider sea level rise and climate change. We're
19 all standing on Ground Zero for climate change. And
20 in the coming decades, Dade County will face serious
21 changes, more lines will be updated. Flood insurance
22 will go up and more people will likely move inland,
23 away from the oceans.

24 So FPL is asking for license renewals that
25 will go through the Year 2053. 2053, I will be probably

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1 60 -- or 60 by then. So, you know, this is very much
2 a big ask. And so I would urge the NRC to do a lot
3 of soul searching and a lot of research before they
4 approve this because this has massive ramifications.

5 A lot will change from now until 2053 --
6 sea levels, average temperatures and the strength of
7 storms. And if these renewals are approved, there will
8 be numerous -- there must be numerous conditions that
9 the NRC should consider giving FPL to assure the
10 facilities are prepared for a new landscape.

11 How will FPL keep the plant safe and assure
12 onsite, highly radioactive waste is secured? How will
13 FPL prepare for rising seas and stronger hurricanes?

14 Like any of nuclear facility, Turkey Point is
15 vulnerable to a melt-down.

16 Our emergency diesel generators would
17 likely be drowned and shut down if a strong hurricane
18 dropped tons of water onto Homestead. The emergency
19 backup generators are not well elevated or well
20 insulated.

21 As we all know, during Hurricane Harvey,
22 last year, Houston, Texas had 15 trillion gallons of
23 water dropped onto its city. And before 2053, I'm sure
24 that will happen, a similar situation will happen here
25 in Miami. So, you know, the water is, indeed, rising

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1 and so must the NRC's expectations for the
2 infrastructure of Turkey Point.

3 So as a young person that will be living
4 in this community for decades to come, if these licenses
5 are renewed, at the very least, that most -- very basic
6 conditions should be a cooling tower to protect
7 surrounding life and water quality. These cooling tower
8 retrofits are cost-effective and urgently needed.

9 And then, you know, lastly, I really
10 believe that Turkey Point must prepare itself for the
11 possibility of many trillions of gallons of water being
12 dumped onto their generators from which a tidal wave
13 or a hurricane in coming decades.

14 So lastly, in closing, there is plenty at
15 stake and lots to consider. To the sea level rise,
16 drinking water quality and the fundamental issues of
17 corporate accountability, accountability for a company
18 like FPL that has not been -- who had not been -- who
19 has been unaccountable for way too long.

20 Thank you for allowing me this time to
21 speak.

22 MR. BURTON: Thank you, Bryan.
23 Appreciate it. Okay, next we have Brian Stamp followed
24 by Tom Southern and Steven Schoedinger.

25 MR. STAMP: Good evening, everybody. I

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1 also am a resident of Dade County. I'm the plant
2 manager, as well, out at Turkey Point.

3 During the earlier session as well as at
4 this evening session, you know, I did hear a lot of
5 concerns about the safety of the plant, whether it was
6 hurricanes or canals.

7 And, you know, as far the canals, I have
8 seen the improvements in the canals over the last three
9 years. I have participated in that mitigation
10 strategy. I have seen the commitment from the company
11 to ensure the long-term health of those canals as well
12 as the long-term impact being improved to the Biscayne
13 Aquifer.

14 You know, a lot of the discussion about
15 the safety of the plant from hurricanes, I was onsite
16 during Hurricane Andrew. I saw the plant operate
17 exactly as it was designed. I saw the plant recover
18 exactly as it was designed. Same thing for Hurricane
19 Irma.

20 So a lot of the concerns that everyone has
21 brought up tonight, I just don't share. And I don't
22 share them because I have seen what that plant was
23 designed for and I have seen how well it did.

24 I also want to just reiterate that some
25 of the folks that were here tonight from the plant,

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1 you know, they are committed, as you can see. They
2 are very well trained, and they are as professional
3 as they come. Thank you.

4 MR. BURTON: Okay. Thank you, Brian.
5 Next we have Tom Southern -- oh, okay, Tom Southern,
6 then Steven Schoedinger and then Laura Reynolds.

7 MR. SOUTHERN: Tom Southern. Okay, I'm
8 a carpenter. I live here in Homestead, and I actually
9 did some work for one of your employees just recently
10 and he, too, told me the same thing. Hey, this plant's
11 safe. There's no -- I won't even argue that point with
12 you guys. I'm sure your employees are telling the
13 truth, as you see it anyway.

14 And so, you know, no -- I'm sure you're
15 being honest and so forth. My concern is that if you
16 guys are in the regulatories, right? Yes. If you guys
17 even read the Miami Herald, which is not -- which is
18 hardly the Miami Times or some of the -- or any newspaper
19 that could be considered some radical liberal rag --
20 you would -- I don't even know why we even have to have
21 this meeting.

22 Florida Power & Light, the employees
23 accept it completely, has proven themselves to be a
24 criminal power company. They have lied and cheated
25 the public and misrepresented about whether the

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1 radioactivity is leaking into the ground water.

2 The cooling towers should have never been
3 built. That's the only -- you guys know all this stuff.

4 It's facts. So why would you even consider letting
5 them continue to expand?

6 The fact that we are here gives at least
7 me, and I'm sure some other people here, pause to think
8 this is just a dog and a pony show, that there's
9 collusion between Florida Power & Light and maybe not
10 you guys personally, but your bosses and that you're
11 here, gather some little information, listen to us talk,
12 let us vent and you guys will get back together with
13 FP&L in the background and, at some other place, and
14 maybe you'll make some little payment or little
15 accommodations to us.

16 But the thought of even -- okay, I hope
17 that I'm wrong. In fact, I would -- I will die today
18 just so that I can roll over in my grave to find out
19 that you guys have denied them their application.

20 MR. BURTON: Thank you, Tom. Steven
21 Schoedinger --

22 MR. SCHOEDINGER: The comments I have are
23 specific to certain sections of the environmental
24 report that was submitted by FP&L that's online.

25 In the Section 243, under First in

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1 Activities, I don't see any mention here that talks
2 about aging elements of the plant. Because I don't
3 see any mentioning about refurbishing those so they
4 can operator as attendants for a continued period of
5 time.

6 I don't see any mention about any kind of
7 refurbishment or improvements to the cooling canals.

8 In Section B, where it again talks about the aging
9 management program, one of the four types of AMPs is
10 performance monitoring program to test the ability of
11 a structure or component to perform its intended
12 function.

13 And I'd really like the NRC to take a hard
14 look at the canals and their ability, in their condition
15 and the way they're operated, to meet the needs of the
16 increased power generation, as planned, through 2053
17 for Units 3 and 4.

18 Page 316, Table 3.2-2 talks about the land
19 use within a six-mile radius of the plant. And I agree
20 with what they have here. I just want to point out
21 that, when you add up all the percentages, that 90
22 percent of the area within that six-mile radius of the
23 plant, is surface water and weapons -- and sensitive
24 weapons and water.

25 And again, I'd just like to ask the NRC

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1 to take special review of the information and the
2 environmental report that FP&L provided in 3.6, Section
3 3.6. And that involves 3.6, 3.6.1.45 Compliance
4 History, there's surface water sources. And 3.6.4,
5 under water quality.

6 There's a lot of additional information
7 that's been provided by other interested parties in
8 the last ten years and more specific, in the last five
9 years, that are not mentioned in here. And I would
10 like them to take a really thorough look at all this,
11 all the other information by parties that don't have
12 a hidden agenda, that really are interested in the
13 environmental health and are interested in the plant
14 operating properly.

15 If you take a really, if you compare the
16 data, the information that's in here with this other
17 information that you have access to. Thank you.

18 MR. BURTON: Okay. Thank you, Steve.
19 Okay, next we'll have Laura Reynolds, Wendy Brainard
20 and then Matt Schwartz.

21 MS. REYNOLDS: Thank you. Laura Reynolds
22 representing the plants in the Clean Water Act Case
23 which is -- Southern Alliance for Clean Energy and
24 Friends of the Everglades and Tropical Audubon Society.

25 And I do have some continued comments from

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1 earlier. And I know that the time is limited, but,
2 again, in your packets you do have a lot of this
3 information all referenced.

4 One, I just want to say for the record that,
5 because this process requires avoidance and mitigation,
6 one of the things we want you to consider is requiring
7 conditions. And we talked about a condition that fixes
8 the cooling canal system.

9 If that process is not able to be done under
10 this license extension, I want all of you to tell us
11 that, to say this is the process you need to deal with
12 the cooling canal system within. And, you know, if
13 I made any misstatements about your ability to require
14 those conditions, I apologize, in my earlier comments.

15 But I think it's important that you let
16 the public know because most of the 20 comments or 25
17 comments we heard earlier are focused on the cooling.

18 They're focused on the failing cooling canal system.

19 So I'm asking all of you, because this is a two-way
20 street, to let us know what process it is, where we
21 can fix and address the cooling canal system.

22 So that's number one. Two, a number of
23 people raised crocodiles, a sanctuary for wildlife.
24 Really look at those numbers because after the upgrade
25 we saw a number of, I think it was in FPL's own reporting,

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1 half of the crocodile nests died.

2 So if you're looking at protection of
3 endangered species, you really need to take a look at
4 the wood storks. You need to take a look at the
5 crocodile nesting. Those, the conditions within the
6 cooling canal system completely failed. So, again,
7 if you're claiming that this is a sanctuary for
8 wildlife, it wasn't through that time period.

9 The other thing again, and I focused on
10 it earlier, is that there's misstatements and
11 misinformation or not all of the information that was
12 provided in the environmental report. For example,
13 we know the cooling canal system is built into
14 limestone. The oolitic limestone in Dade
15 County is like a sponge. It's very transmissive.
16 That's a fact. So for FPL, 20 separate times, in their
17 environmental report to say this is a closed loop system
18 and then a dozen separate times to say there's no
19 discharge anywhere, is not true.

20 So you need to make sure you get all the
21 information on how that report updated. I will be
22 submitting a number of comments on their environmental
23 report. I do think it's woefully inadequate. I think
24 that, again, there are -- there's information out there
25 that isn't being supplied.

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1 For example, everywhere that Dade County
2 looked with their new monitoring -- just a second.
3 I'll just finish my statement. Everywhere that Dade
4 County looked, with their additional monitoring, what
5 they required as part of the Class 1 permit, they found
6 a plume.

7 For example, in the Barge Basin, Turtle
8 Point, Card Sound, Upwellings, L-31 E, they found it
9 near the S20F structure. So the point is, more
10 monitoring is needed. We need to really look at this
11 location and make sure that we're not continuing to
12 exacerbate a problems that already exist.

13 Now within your packet, as I said before,
14 you have all the expert reports in the Clean Water Act
15 case. I urge you to take my comments and connect the
16 dots with that. We will be providing written comments
17 by the 21st.

18 But because this is such a complex issue,
19 I do ask you to consider an extension of time on those
20 written comments. You know, it's important that
21 everybody be able to supply you with all the
22 information. Thank you.

23 MR. BURTON: Appreciate that. Next we
24 have Wendy Brainard, and then our last speaker is Matt
25 Schwartz.

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1 MS. BRAINARD: Hi. Thank you for
2 listening. As a lay person who lives in Key Largo,
3 and I've been coming to Ocean Marine Club since I was
4 16, we're there for the beauty. We're there for the
5 water. We're there for the fishing.

6 I can tell you my son, who is now 21, is
7 an avid fisherman. He will tell you straight up, in
8 the Bay, the fish aren't there that used to be there.

9 To bring them a little bit of education, we know the
10 cooling canals are linked in. We know that the nuclear
11 reactor waste is coming out from the canals.

12 And you know that. Everyone in this room
13 knows that. I, as a simple person -- simply
14 unacceptable. Thank you for the FP&L keeping us safe
15 during the hurricane, but bet every single one of us
16 was worried about that at the time.

17 I think the water did rise up. If the
18 hurricane did hit it, I think we would all be very much
19 different situation. I implore that you have a moral
20 standard that says those cooling canals cannot leak.

21 They cannot leak into our beautiful, beautiful water.

22 For the Chamber of Commerce woman, I think
23 her name was Mrs. Black, speaking, yes, of course.
24 But guess what? There is no economy without the water.

25 There is zero economy without the water. How can you

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1 have all the fish going away?

2 And, you know, I hope the crocodiles are
3 getting better, but we need water quality. I can look
4 at the water right outside my window and it's different.

5 It's changed. The temperatures are up. The algae
6 plumes are up. There is higher levels of salt.

7 If you want to say that that's not proven,
8 proving counts, even though you are hiding your money,
9 as a government agency, most of us watch a lot of
10 documentaries, you don't want to be those people on
11 the wrong side of those documentaries coming in.

12 You don't -- you don't want to be sitting
13 here in ten years saying that a woman like myself came
14 up and said, hey, really think about what you're about
15 to do. And what is the answer? The cooling tower --
16 cooling towers are the answer, which is what the
17 alerting clear reactors, I believe that's what they
18 use.

19 As a lay person, I don't really know all
20 of this. Thank you for everyone. I'm learning a lot
21 here today. But, just simply, they're leaking.
22 They're ruining the water. They're ruining the
23 environment. If you're going to renew, it's got to
24 be 100 percent something that's not going to continue
25 to ruin our environment.

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1 And there is no commerce without our
2 gorgeous water, fishing. And I speak for everybody
3 who lived in the keys and who come down from Dade, don't
4 -- don't do something horrible here. Don't let them
5 continue to let cooling canals leak. And ask yourself,
6 why aren't they anywhere else? Please. Thank you.

7 MR. BURTON: All right, thank you. Matt,
8 you ready to go? Okay, while Matt's coming up, I'm
9 surprised. We're actually ahead of schedule. It's
10 only 6 o'clock. So if there are other people who
11 haven't spoken, who would like to speak, let me know.

12 And if there are other people who did speak
13 and felt like they weren't able to make all their points
14 and they feel like they want to speak, we may give you
15 another shot. So, please, Matt?

16 MR. SCHWARTZ: Okay. Give me one second to find
17 my place in my copious notes here. So my name is Matthew
18 Schwartz. I am the Executive Director of the South
19 Florida Wildlife Association. It was an organization
20 established in 2010 to protect wildlife and habitat
21 in the Greater Everglades.

22 I did get to speak briefly this afternoon.
23 I'm going to speak similarly to some of the comments
24 I made then, but hopefully I'll have a little bit more
25 time to extrapolate or to kind of expand on what I was

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1 talking about.

2 I started off -- I don't have it with me
3 anymore -- but with the information from Notice 9345,
4 Supplement -- well, let me go back to -- give me one
5 second here.

6 I was reading from 9353, which was the NRC
7 report on the impacts of Hurricane Andrew on Turkey
8 Point, on the Turkey Point Nuclear Plant. And I'm just
9 going to read the paragraph, the onsite damage.. This
10 is your report.

11 "The onsite damage included loss of all
12 offsite power for more than five days, complete loss
13 of communication systems, closing of the one access
14 road" -- I think there's only one; there is only one
15 access road out there -- "and damage to the fire and
16 security system and the warehouse facility."

17 There was a supplemental report that goes
18 into more detail of what those impacts were. And here's
19 a few of these items that I put down. All six
20 steel-frame turbine canopies collapsed. Two -- one
21 of the two chimneys associated with onsite fossil fuels
22 units onsite were severely damaged.

23 And that position of that chimney could
24 have landed right on top of the building that houses
25 the backup generators. And we'll talk about the backup

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1 generators very soon. The base anchors for the vent
2 stack on the Unit 4 containment were lifted.

3 Four, duct work from the radioactive waste
4 building to the vent stack failed due to
5 hurricane-generated missiles. Five, the non-safety
6 high caloric tank collapsed and fell on various fire
7 protection pumps and pipes, rendering one of the fire
8 protection systems inoperable.

9 Fast forward now to what happened in the
10 fall of 2017 when Irma was bearing down. I gave my
11 proper way to a reporter that was here. But it showed
12 the trajectory of Irma heading right between Cuba and
13 the Bahamas, right? I had a little more time. I'm
14 just warming up.

15 Anyway, the hurricane was heading directly
16 for Turkey Point, a Cat-5. And, by the way, comparing
17 Andrew to Turkey Point -- or Andrew to Irma -- Andrew
18 to Irma. Andrew was a Cat-4/Cat-5 hurricane. Winds
19 were sustained at 145 miles an hour.

20 Irma, 185 miles an hour, it held back, at
21 one point, for 60 hours in a row. The islands in the
22 eastern Caribbean that got the full brunt of that, they
23 described them as being scoured. Scoured. We know
24 what that word means, scoured.

25 This plant would sustained heavy, severe

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1 onsite damage from a much smaller hurricane. Lower
2 winds, much less storm surge than Irma would have
3 generated. Had it come in at Cat-5, it would have been
4 a very, very different scenario.

5 Eric Silagy, who we all know as the director
6 of this company, NextEra, he was quoted in the
7 Washington Post. He said, "We have a tried and true
8 process in place. We have safety. We have safely
9 operated these plants for over 40 years."

10 That's not what happened. They dodged a
11 bullet. They got lucky. The chimney didn't fall on
12 the generators. That's what happened at Fukushima.
13 We have to really compare Fukushima. And I'm going
14 to give you two more bullets.

15 But you can study the effects of Fukushima
16 as well, which, as we know, is another coastal nuclear
17 plant that got hit by a Tsunami. The Tsunami didn't
18 create the melt-down that you had at Fukushima. What
19 happened was the Tsunami wiped out the backup
20 generators.

21 The backup generators couldn't run the
22 pumps. The water wasn't going through the reactor
23 cores. The material melted down. We had explosions.
24 We had three melt-downs, explosions, the release of
25 radioactive gas into the atmosphere. We have a

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1 gigantic no-man's zone.

2 Why on earth would we want to risk that
3 in Turkey Point when we know that hurricanes are going
4 to get more intense. That's what all the science says.

5 Hopefully, you guys are making a scientific decision
6 here on this decision, on this decision to extend the
7 life of this plant 20 years into warmer oceans, warmer
8 air, more water vapor in the air, more water in the
9 oceans.

10 When they studied Harvey, which is also
11 kind of similar, because there we had all kinds of
12 industrial equipment inundated. That's going to
13 happen at Turkey Point. We know that, that the life
14 of the plant right now. And people are talking about
15 the cooling canals. Obviously, nobody is projecting
16 less than six inches, and that's how high these cooling
17 canals are, at best, above the sea level.

18 I'm wrapping up. During the time when I wrote
19 about this, the little edge of Irma passed by southeast
20 Florida. It was just the edge. We barely got a
21 hurricane in the Turkey Point area. I was told that
22 the water level in those canals rose four feet because
23 it's right near -- it's sea level.

24 So essentially, whatever we put in the
25 canals, and people have spoken what's in those canals,

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1 are essentially part of Biscayne Bay. Initially, when
2 they built the Turkey Point facility, the non-nuclear
3 part, that warm water was going directly into Turkey
4 Point.

5 Get six inches of sea level rise or a foot,
6 and nobody's saying we're not going to get a foot,
7 essentially those cooling canals are Biscayne Bay.
8 So we're going back to the original plan of dumping
9 water directly into Biscayne Bay. And that's happening
10 anyway because, as everybody is saying, limestone is
11 transmissive.

12 Those cooling canals are not separate.
13 But the main issue for me, what I'm emphasizing right
14 here, is that there is enormous risk. And, by the way,
15 lessons learned from Fukushima was that you guys ordered
16 all nuclear plants to come up with better flood control.
17 Make sure everything is sealed tight. Make sure water
18 can't get in anywhere.

19 And as you folks know, what happened in
20 St. Lucie? A few years ago, we had seven inches of
21 rain in five hours. One of the buildings got flooded
22 with 50,000 gallons of water. We don't want that to
23 happen at Turkey Point in a critical building that might
24 be necessary to keep the pumps running.

25 What happens if those pumps don't run?

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1 How are you going to get anything in there? There's
2 one dirt road -- one road going into the facility.
3 So you are putting, not -- I mean, if you make this
4 decision, it is you. If you make this decision to
5 extend this out, you are putting the entire region at
6 risk from this plant.

7 And I'm not making this stuff up. When
8 I was looking at those trajectories and I was watching
9 the path play of Irma, I was scared. And I'm going
10 to stop there. I'm getting two notices to stop. But
11 thanks for listening.

12 MR. BURTON: Thank you, Matt. Appreciate
13 it. So, okay, we do have a little time left. So I
14 want to, if there's anybody who did not speak who would
15 like to speak, raise your hand. We'll let you come
16 up and speak and you can fill out one of the cards a
17 little bit later. Anyone?

18 Okay, is there anyone who would like to
19 take a second three-minute round to finish up their
20 thoughts?

21 (Off microphone comments)

22 MR. SCHWARTZ: Can I just make one more?

23 Okay, just so for the record, for our supervisor, our
24 park supervisor of Biscayne National Park here. I had
25 long conversations with Mark Lewis, Department

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1 Superintendent of Biscayne National Park, the only
2 national park in the United States with a nuclear plant
3 as its neighbor.

4 And one of the things that he said to me
5 was even if I was a friend of nuclear power, whatever
6 my opinion is of nuclear power, this is the last place,
7 the lowest point in Miami-Dade County, that I would
8 ever think of putting a nuclear plant.

9 MR. BURTON: Okay, I think one, at least
10 one person wanted to -- one three round, three-minute
11 section round?

12 MS. REYNOLDS: Thanks. I'm glad for the
13 extra time because, of course, there's so much to put
14 on the record here. Wanted to just, since the
15 superintendent was here, I wanted to just let you know
16 that there is a letter from, in your packet that I gave
17 you, from the National Park dated May 2016.

18 And that was based on the numeric nutrient
19 criteria violations that the state has sent. You also
20 have those graphs in your packet. And you will see
21 that for nitrogen, phosphorous and for chlorophyll-A
22 there are graphs on at least two locations in Biscayne
23 Bay emanating from Turkey Point.

24 And how do we know that? Because there's
25 also a tracer that we look at, tritium. And tritium,

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1 at the levels that we're seeing, you know, well above
2 background are also associated with these points.

3 So tritium's used as a tracer. You also
4 have a graphic in your packet showing the tritium radius
5 all around the plant at levels in the thousands and
6 in the hundreds of peak are curious. So that's in your
7 packet as well.

8 Also you do have a position that the Florida
9 Keys Aqueduct Authority has taken and two different
10 resolutions -- one from Monroe County and one from Dade
11 County requesting cooling towers.

12 The last thing I just wanted to wrap up
13 is just to let you know that there is a lot of information
14 here. I would very much like to continue the
15 conversation and, again, like I stated before, if you
16 are not able to set conditions to move this license
17 forward, then I don't think you have a choice but to
18 deny it or find another process in which we can require
19 cooling towers.

20 All of the experts that we've consulted
21 said that is the best method to move forward with to
22 make sure it's safe, to make sure it's resilient to
23 climate change and not open to the environment. You
24 know, this, up until a few years ago, this was dependent
25 on rainfall.

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1 If they didn't get the rainfall, the
2 salinity went way up. You know, now they're adding
3 a lot of water. And the addition of that water makes
4 the pollution worse. And so because it's open, it's
5 an open system, it's very vulnerable to climate. It's
6 vulnerable to sea level rise.

7 And for those reasons, we ask that you
8 consider this or find another process that you can
9 identify for us to make sure that if this does go
10 forward, that we can require a different cooling system
11 that's safer and doesn't pollute the environment.
12 Thank you.

13 MR. BURTON: Lauren -- okay, Bryan? Yes,
14 Bryan Paz, second three minutes. Is there anyone else
15 after Bryan? Okay, I think Bryan will be the last.

16 MR. PAZ: Thanks again for allowing me to
17 speak. I just want to, again, echo what other folks
18 have said.

19 But again, these cooling towers are not
20 a radical request. Again, this is industry norm.
21 There's dozens and dozens of nuclear plants across the
22 country that have cooling towers because they
23 understand it's critical for the integrity of the
24 facility.

25 The cost of these at installation would

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1 be in the range of \$220 million to \$310 million. And
2 given that it would just be granted by Units 3 and 4,
3 make up 10 percent of the energy delivered by FP&L,
4 this is a reasonable cost of capital to maintain what's
5 an important system to their energy production.

6 These cooling tower regimens are critical to
7 ensuring that Turkey Point does not pollute the
8 surrounding aquifer for decades to come. And the
9 current infrastructure in Turkey Point, in my opinion,
10 is already flawed, and we must absolutely ensure that
11 this pattern of weak infrastructure doesn't continue
12 with Units 3 and 4 in the coming decades and the
13 remaining few year.

14 NRC should also just look into whether
15 these facilities are prepared for the projected sea
16 level rise set out by NOAA. their January '17 report
17 states that the global mean sea level is in the range
18 of 0.3 meters to 2.5 meters in this century. And many,
19 obviously many climate scientists believe it to the
20 higher end of that range.

21 So I urge the NRC to -- or actually FPL
22 to submit a plan demonstrating how they will ensure
23 the infrastructure at Turkey Point is prepared to deal
24 with sea level rise and stronger storms. Thanks.

25 MR. BURTON: Thank you, Bryan. Okay,

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1 sorry. Zach, please?

2 MR. COSNER: So basically I have one final
3 statement. I want to state that the open heat sink
4 is addressed in the Bill Powers report in the Student
5 Life Clean Energy packet. Bill Powers is the
6 consultant that we've hired to basically talk about
7 the effectiveness and the efficacy of establishing
8 cooling towers to replace some of the cooling canal
9 system. That is all.

10 MR. BURTON: Thank you, Zach. Anyone
11 else? Second round? Okay, great. I'll turn this
12 off. Okay, we appreciate all the comments. We're
13 about to close out and adjourn, but before we do, I
14 wanted to thank some of the people who helped to make
15 this possible.

16 First of all, I want to thank Mayor Porter
17 and the Homestead City Council, the City Clerk's Office,
18 Ms. Sule and her team lead by Ms. Herrera; our
19 transcriber, Alison Bean, and our security team.
20 Please thank Officer Rodriguez for me.

21 And I think, with that, I'll turn it over
22 to George.

23 MR. WILSON: As Butch said, I'm George
24 Wilson. I'm the director of for Materials and License
25 Renewal for the NRC. I want to thank everyone for

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1 attending the scoping and screening meeting for the
2 Turkey Point Units 3 and 4, subsequent license renewal.

3 We greatly appreciate the comments that
4 we received during this meeting. The comments included
5 on this meeting and at the prior meeting, the cooling
6 canal system, how it affects Biscayne Bay and the
7 palatable water, climate change through storm strength,
8 sea level rising or storm surges. And earlier in the
9 earlier session there was a comment on radioactive
10 waste.

11 My staff will independently and fully
12 evaluate these issues during their environment review.
13 One of the key terms there is independently. So I know
14 that there's been a lot of comments brought up about
15 the environmental report. We do our own independent
16 environmental review session.

17 So we look at the environmental report
18 that's given by Turkey Point. And for the final item,
19 we actually do our own independent assessment. I want
20 to make sure that everyone fully understood that point.

21 Would like a question?

22 MS. RIPPINGILLE: I had a question. My
23 question is, as we plan --

24 MR. BURTON: Wait. Excuse me, for the
25 record.

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1 MS. RIPPINGILLE: Thank you. My name is
2 Bonnie Rippingille, for the record. I'm a resident of
3 the Florida Keys. FPL represented to us that they would
4 have the well extraction, the extraction system,
5 extraction wells all lined up and finished by the end
6 of May.

7 To date, we don't know whether that has
8 occurred or whether they're still operating on a
9 somewhat limited system after three years of planning
10 and testing the system. Do you know whether or not
11 they are fully operational now and the time now is called
12 for the ten-year period within which they have to pull
13 back that plume?

14 MR. WILSON: I do not know that. I'm going
15 to actually put -- we have the senior resident from
16 the NRC, the senior resident at the site of Turkey Point
17 inspector to answer your question.

18 MR. ORR: Yes, the recovery well system
19 is in operation. I think that committed date was May
20 15th. I think they met that committed date. But if
21 there's a representative from FPL that would like to
22 expound on that?

23 MR. BURTON: Dan, can you give your name
24 and affiliation?

25 MR. ORR: Oh, I'm sorry. I'm Dan Orr.

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1 I work for the Nuclear Regulatory Commission. I'm the
2 senior resident inspector at Turkey Point.

3 MR. WILSON: Yes, I don't know if everyone
4 in the room -- we've actually got inspectors that go
5 to the site every day that live in the area. Dan is
6 the senior, so he has another inspector.

7 MS. RIPPINGILLE: Do any of the people that
8 are here from FPL know whether or not those, that
9 extraction system is fully operational? Can you verify
10 that? Do you have ten extraction wells built, up and
11 running?

12 MS. JAMES: I'm sorry. I'm a project
13 manager. I tend to try to follow the rules. This
14 outside the process. This is the NRC meeting. Florida
15 Power & Light is not required to provide any answers.

16 MR. BURTON: Okay. With that, I conclude
17 the meeting. Once again, I want to thank you for
18 attending. I do have two comments. Someone talked
19 about -- Florida Power and Light talked about eventually
20 coming up for another power upgrade.

21 That would have its own environmental
22 assessment if they submitted that to us. We don't have
23 any submission for that so the environmental assessment
24 that we're going to do right now is only for the
25 subsequent license renewal.

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1 If the plant decides to do another power
2 upgrade, that would have its own environmental review,
3 so I want to just state that.

4 There was also some comments that were
5 stated about limited significant information, to make
6 sure that we looked at it. We have to look at the
7 significant information. That's what we focused on.

8 In addition, if you look at their regulations, there's
9 an annual update that's required while we're reviewing
10 the license renewal.

11 In that annual update every year, they'd
12 have to include anything that would be new and
13 significant for us to evaluate during evaluation. I
14 just want to make those two points. And thank you guys
15 very much.

16 (Whereupon, the above-entitled matter went
17 off the record at 6:19 p.m.)

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Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Public Scoping Meeting for the Environmental Review of the Subsequent License Renewal Application for Turkey Point Nuclear Plants Units 3 and 4 - Session 1

Docket Number: (n/a)

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Pages 1-106

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

+ + + + +

PUBLIC MEETING

+ + + + +

PUBLIC SCOPING MEETING FOR THE ENVIRONMENTAL REVIEW
OF THE SUBSEQUENT LICENSE RENEWAL APPLICATION FOR
TURKEY POINT NUCLEAR PLANTS UNITS 3 AND 4

+ + + + +

THURSDAY,

MAY 31, 2018

+ + + + +

The meeting was convened in City of
Homestead City Hall, 100 Civic Court, Homestead,
Florida 33030, at 1:00 p.m., William Burton, NRC,
facilitating.

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NRC STAFF PRESENT:

WILLIAM BURTON, NRR/DMLR/MRPB

LOIS JAMES, NRR/DMLR/MRPB

MICHELLE MOSER, NRR/DMLR/MENB

GEORGE WILSON, NRR/DMLR

SCOTT BURNELL, OPA

EDWIN LEA, Region II

ARACELI BILLOCH-COLON, NRR/DMLR

KEVIN FOLK, NRR/DMLR, MENB

DARRELL ADAMS, OCA

BEN BEASLEY, NRR/DMLR/MENB

DANIEL ORR, R-II/DRP/RPB3/TPRO

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P R O C E E D I N G S

1:10 p.m.

MR. BURTON: Good afternoon, everyone. Sorry for the delay. The acoustics are so good, I don't know if I even need this, but our court reporter needs it. So, my name is Butch Burton. I'm from the U.S. Nuclear Regulatory Commission, or the NRC. And I'm in the Office of Nuclear Reactor Regulation, otherwise known as NRR.

I want to welcome everyone to the Public Scoping Meeting for the subsequent license renewal application for Turkey Point Nuclear Units 3 and 4.

I'm the Project Manager for the NRC staff's environmental review, but today I'll be serving as your facilitator for the meeting. My role as facilitator is to help ensure that today's meeting is informative, productive, and stays on time.

I know we started off a little late, but we'll otherwise try and stay on time. Before we get started, just wanted to take a few minutes to go over some logistics. First of all, no food, beverages, no smoking in the room.

If you have anything that beeps, talks to you, rings, if you could either mute it or turn it off, that would be great.

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1 To get to the restrooms, the men's room
2 is just outside the door on this side, ladies' room
3 is just outside the door on this side.

4 If we're asked to evacuate the building
5 for some reason, we will probably follow the direction
6 of the security staff who is here, and please follow
7 their direction and we'll try to keep everyone together
8 and muster outside, to make sure that we can account
9 for everyone.

10 Now, today's meeting is a Category 3
11 meeting. For those of you not familiar with the NRC's
12 meeting categories, Category 3 meeting is typically
13 held with representatives of non-government
14 organizations, private citizens or interested parties
15 or businesses or industries to fully engage them in
16 discussion.

17 These meetings provide an opportunity for
18 the NRC and the public to work directly together to
19 ensure that issues and concerns are understood and
20 considered by the NRC.

21 The objective is to provide a range of
22 views, information, concerns, and suggestions with
23 regard to regulatory issues.

24 Now, today's meeting will be transcribed.

25 So, when speaking, please use one of the handheld mics

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1 that we have here, we'll bring them to you. Please
2 identify yourself and your affiliation, if you are
3 representing an organization.

4 We also have meeting feedback forms
5 available. Hopefully, each of you grabbed one at the
6 registration table. If not, you can still get one
7 later.

8 After today's meeting, we'd like you to
9 take a few minutes to fill out the feedback form and
10 return it us, or you can go to the NRC website to provide
11 your feedback about the meeting and you can do that
12 electronically. We take your feedback seriously and
13 use it to improve future meetings.

14 For those of you who have looked at the
15 agenda, you can see that we have a lot to talk about
16 today and we're going to try very hard to stay on
17 schedule.

18 Looking at the number of participants
19 today, I think we'll be able to hear from everyone,
20 but we do want to be flexible with the time. But when
21 speaking, please be brief and concise with your question
22 or comment.

23 Although a break is not shown in the agenda,
24 if it looks like it would be good to take a few minutes
25 before we continue, we'll do that.

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1 Finally, participants are allowed to use
2 recording devices during the meeting. And though
3 you're not required to do so, we would appreciate it
4 if you would let other attendees know if you are
5 recording. So, at this point, if anyone is recording,
6 could you let me know? Anyone? Okay, seeing nothing.

7 Okay, any questions on anything I've said
8 so far? No? All right. So, let's go on and get
9 started.

10 We have a number of NRC staff here today,
11 but I do want to introduce the presenters for today's
12 meeting. First, Ms. Lois James, off here to my right,
13 who will be providing an overview of the NRC staff's
14 safety review process.

15 And Ms. Michelle Moser, who is right behind
16 her, will provide an overview of the staff's
17 environmental review process. We also have Mr. George
18 Wilson, who is the Director of our Division of Materials
19 and License Renewal, who will be providing closing
20 remarks.

21 Okay. So, I think we're about ready to
22 get started, so I'll turn it over to Lois. Lois?

23 MS. JAMES: Thank you, Butch. Good
24 afternoon, my name is Lois James and I am the Safety
25 Project Manager for the Turkey Point subsequent license

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1 renewal review.

2 Our goals today are to provide you with
3 an overview of the subsequent license renewal process,
4 both the safety and environmental reviews for the Turkey
5 Point Review.

6 Second is to get your input into what
7 environmental issues the NRC should consider in our
8 environmental review. Next slide, please.

9 The agenda for today's meeting begins with
10 the staff providing an overview for the processes, what
11 we're doing. After the presentation, attendees can
12 ask questions about the presentation and the process.

13 In order to maximize the time for public
14 comment portion of the meeting, we will only be
15 addressing questions about the License Renewal process
16 in general, and then we'll leave the environmental
17 comments to the comment section.

18 The final part of the meeting is the most
19 important. It's when you provide your thoughts and
20 comments on what should be considered in the NRC
21 environmental review. Next slide, please.

22 The license renewal process proceeds in
23 two parallel reviews, the safety review and the
24 environmental review. Across the top of this slide
25 is the environmental review and Michelle Moser will

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1 be discussing that a little later.

2 Along the bottom is the safety review.
3 The safety review has two components, the staff's review
4 and the Advisory Committee on Reactor Safeguards. Both
5 do an independent review of the application and the
6 safety evaluation information.

7 The dotted line in the middle of the flow
8 chart highlights the opportunity for a hearing in
9 accordance with the Atomic Energy Act.

10 The last block at the far right is the NRC
11 decision on whether to review the reactor operator
12 licenses. As you can see, it is based on several
13 factors. Next slide, please.

14 The focus of the safety review is to
15 identify aging effects that could impair the ability
16 of systems, structures, and components within the scope
17 of license renewal to perform their intended functions
18 and to demonstrate that these aging effects will be
19 adequately managed during the period of extended
20 operation. This focus has not changed from the initial
21 license renewal to subsequent license renewal.

22 The first thing the staff did when the
23 application came in was to conduct a Proprietary Review,
24 because the application itself contained proprietary
25 information. We issued our Proprietary Determination

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1 on April 3.

2 In order to be more efficient and effective
3 with time and resources, the staff has divided its
4 review into sections.

5 The first section is the Operating
6 Experience Audit, which was conducted between May 7
7 and 18. This audit reviewed the Applicant's operating
8 experience information and Corrective Action System
9 for data applicable to aging-related issues.

10 The second section is the In-Office Review
11 and the In-Office Audit, where the staff will review
12 documents and references in the application in more
13 detail.

14 The final portion, the NRC will conduct
15 an Onsite Audit of the planned facility and review
16 additional documents as needed.

17 The staff will document its review in a
18 Safety Evaluation Report, or SER. In the past, the
19 staff has issued a Safety Evaluation Report with open
20 items. Starting with subsequent license renewal, our
21 goal is to issue a single Safety Evaluation Report with
22 no open items. Next slide, please.

23 The principles of license renewal safety
24 reviews has also not changed from initial license
25 renewal to subsequent license renewal. They are: the

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1 regulatory process adequately ensures the plant's
2 current licensing basis provides and maintains an
3 acceptable level of safety.

4 The second principle, each plant's current
5 licensing basis is required to be maintained during
6 the renewal term in the same manner and to the same
7 extent as during the original licensing term.

8 The NRC ensures the adequate protection
9 of public health and safety and the environment through
10 regulatory processes. This chart shows the different
11 aspects of the regulatory process.

12 The blue arrows and gray boxes show the
13 current and continued regulatory processes. The red
14 block arrow shows the aging management activities which
15 were added by the initial license renewal review.

16 As part of the subsequent license renewal
17 review, the staff will review the effectiveness of the
18 Applicant's aging management activities.

19 This concludes the staff's discussion of
20 the safety review process. At this point, I'll turn
21 the meeting over to Michelle, and if you have any
22 questions on the process, we'll respond to that in the
23 second portion of the meeting. Michelle?

24 MS. MOSER: Thanks, Lois. Good afternoon.

25 My name is Michelle Moser and I'm a biologist on the

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1 environmental review.

2 The NRC conducts the environmental review
3 in accordance with the National Environmental Policy
4 Act of 1969, commonly referred to as NEPA. NEPA
5 requires federal agencies to follow a systematic
6 approach in evaluating the potential impacts from the
7 proposed action and alternatives to the proposed
8 action.

9 Public participation is an important
10 aspect of the NEPA process. Environmental review
11 milestones that include public participation are
12 highlighted green on the graphic above here.

13 The environmental review begins with the
14 scoping process, which includes today's Public Scoping
15 Meeting. Scoping is the process by which the NRC staff
16 identifies the specific impacts and significant issues
17 to be considered within the draft Environmental Impact
18 Statement.

19 The NRC staff will consider all of your
20 scoping comments provided today, as well as written
21 comments received during the scoping period. We will
22 consider these comments as we prepare the draft
23 Environmental Impact Statement.

24 And we will also conduct an independent
25 assessment, including an environmental site audit.

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1 The environmental staff will publish its findings
2 within a draft Environmental Impact Statement, which
3 will be issued for public comment.

4 The public comment period will be the
5 second opportunity for you and other members of the
6 public to participate in the environmental review
7 process. Again, the NRC staff will consider all the
8 comments received when preparing and updating the final
9 Environmental Impact Statement.

10 I'd like to take some time to discuss what
11 we mean by scoping and your role in this process. The
12 NRC staff uses scoping to determine the range of issues
13 and alternatives to be considered in the Environmental
14 Impact Statement.

15 In addition, scoping comments help
16 identify significant issues that will be analyzed in
17 greater detail. Scoping is also intended to ensure
18 that concerns are identified early and properly
19 evaluated throughout the environmental review.

20 You are an important part of the scoping
21 process. Because you are familiar with your community,
22 your comments will help to facilitate a thorough review.

23 You can assist this process by telling us,
24 for example, what aspects of your local community we
25 should focus on, what local environmental, social, and

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1 economic issues the NRC should examine during our
2 review, and what other major projects are in progress
3 or planned in the area. What are reasonable
4 alternatives that are most appropriate for this region?

5 The NRC issues the following documents in
6 association with the environmental scoping process.
7 The NRC initially issues a Notice of Intent to prepare
8 the Supplemental Environmental Impact Statement and
9 to inform the public about the scoping process.

10 The Notice identifies the federal action,
11 the comment period, and the methods by which comments
12 can be provided. We have copies of the Notice of
13 today's meeting at the front table when you first walked
14 in.

15 So, if you would like to see a copy of the
16 Notice and you didn't pick one up, please feel free
17 to ask any of us or pick one up on the table on your
18 way out.

19 The NRC also issues Scoping Letters to
20 federal, state, and local agencies and tribes. And
21 we issue press releases and newspaper advertisements
22 to announce the public meetings and the scoping process.

23 At the conclusion of the scoping process,
24 NRC will prepare and issue an Environmental Scoping
25 Summary Report that describes comments received during

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1 the scoping period and identifies significant issues
2 identified as a result of the scoping process.

3 Within the Environmental Impact Statement,
4 the NRC evaluates impacts from the proposed license
5 renewal for a wide range of environmental resources,
6 such as air quality, human health, wetlands, and
7 threatened and endangered species.

8 The NRC conducts this review by building
9 upon decades of previous experience analyzing the
10 environmental impacts from power plant operations.
11 For example, in 2013, the NRC staff published a generic
12 Environmental Impact Statement, which identified 78
13 environmental impacts due to the operation of nuclear
14 power plants.

15 The NRC analyzed the impacts to these 78
16 environmental issues based upon the knowledge gained
17 during 40 previous license renewals, as well as new
18 research, findings, and public comments.

19 The staff determined that 59 of the
20 environmental issues were generic, or the same, at all
21 nuclear power plants. For the other 19 issues, the
22 NRC staff determined that these issues were
23 site-specific, or that the impacts depended upon the
24 environment surrounding the plant and the operational
25 conditions.

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1 Therefore, the analysis for the Turkey
2 Point license renewal will focus on the 19 site-specific
3 environmental resource issues. The staff will also
4 review any new and significant information related to
5 the 59 generic issues.

6 The NRC staff has also conducted previous
7 site-specific environmental analyses at the Turkey
8 Point site. As many of you might be aware, in 2002,
9 the staff completed an Environmental Impact Statement
10 for the initial license renewal. And more recently,
11 in 2016, the NRC staff completed an Environmental Impact
12 Statement for the proposed two new reactors at the
13 Turkey Point site.

14 Although both of these activities are
15 separate federal actions, the NRC staff will build upon
16 any relevant information contained within these
17 previously issued Environmental Impact Statements to
18 make this review as efficient and as straightforward
19 as possible.

20 In conducting our environmental review,
21 we will be coordinating with other federal, state, and
22 local agencies, as well as tribal leaders. This
23 coordination helps to ensure that local technical
24 resource specialists are involved in the review.

25 Some of the agencies that we have been

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1 coordinating with and we will continue to coordinate
2 with include the U.S. National Park Service, the U.S.
3 Fish and Wildlife Service, the U.S. Environmental
4 Protection Agency, the Florida State Historic
5 Preservation Office, the Florida Department of
6 Environmental Protection, and Miami-Dade County.

7 Ultimately, the purpose of the
8 environmental review is to determine whether or not
9 the environmental impacts of license renewal could be
10 so great that preserving the option of license renewal
11 for decision makers would become unreasonable.

12 The Environmental Impact Statement will
13 be considered in conjunction with the NRC staff's
14 safety-related reviews in recommending to the
15 Commission whether to renew the Turkey Point operating
16 license. Next slide.

17 In summary, these are the factors that will
18 be considered by the Commission in deciding whether
19 to renew the Turkey Point licenses. It is the goal
20 of the NRC staff to complete its license renewal review
21 and reach a decision on renewing the operating licenses
22 within 18 months from the time the application is
23 accepted. The schedule can be extended to accommodate
24 a hearing, if granted.

25 This slide shows important milestones for

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1 the safety and environmental review process. It is
2 important to note that these dates are tentative. I'd
3 also like to note that the Safety Evaluation Report
4 will be a publicly available report.

5 And you are also welcome to attend the
6 Advisory Committee on Reactor Safeguards, or ACRS,
7 meetings, which are open to the public. These meetings
8 are held at our Headquarters in Washington, D.C.

9 This slide has information on how you can
10 submit comments after the meeting concludes.
11 Comments, written comments will be accepted through
12 June 21 and can be submitted by mail or through
13 regulations.gov.

14 Lastly, this slide shows the website where
15 you can find additional information regarding the
16 Turkey Point review, including FPL's application.
17 I've also listed the contact information for the Project
18 Managers if you have any follow-up questions at the
19 end of today's meeting.

20 And again, there are copies of these slides
21 at the front table in case you need any of this
22 information.

23 This concludes the staff's formal
24 presentation. I'm now going to turn this back to Butch,
25 our facilitator.

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1 MR. BURTON: Okay. Thank you, Lois. Thank
2 you, Michelle. Hopefully, that gives you a pretty good
3 overview of what we do and how we do it.

4 What we want to do right now is take a few
5 minutes to entertain any questions you might have about
6 anything that you just heard and about our safety and
7 environmental review process. People, if anyone --
8 oh, no, that's right.

9 So, if anyone has comments, you can either
10 come up to the podium and ask your question or we have,
11 as you can see, we have a couple of handheld mics and
12 we're happy to come out to you, but understand, I'm
13 old and I have bad knees, so just give me a second to
14 get to you.

15 Okay. Questions on anything?

16 MR. WHITE: Thank you. Barry White,
17 Citizen Allied for Safe Energy. The comments following
18 your draft EIS, do those have to be submitted as a
19 petition to intervene and request for hearing or
20 submitted simply as comments?

21 MR. BURNELL: My name is Scott Burnell, I'm
22 one of the spokespeople for the Agency. A petition
23 to intervene is separate from the ability to comment
24 in the environmental review process.

25 The NRC has already issued in the Federal

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1 Register an opportunity to submit petitions to
2 intervene and I believe one of the earlier slides showed
3 the deadline for submitting those petitions.

4 MS. MOSER: So, the comments on the draft
5 Environmental Impact Statement, they would need to be
6 submitted as comments through regulations.gov or
7 however other methods are available.

8 And we will be publishing a separate
9 Federal Register Notice at that time. So, that's a
10 separate comment period than the current comment period
11 we're in now.

12 MR. WHITE: Thank you.

13 MR. BURTON: Okay, does that help to answer
14 your question? Others? Questions or comments on the
15 process? Oh, okay, got a couple here.

16 MS. REYNOLDS: Laura Reynolds, representing
17 Southern Alliance for Clean Energy, Tropical Audubon,
18 and Friends of the Everglades. Along the same lines
19 of Barry White, my question is, you have a 60-day period
20 that supposedly the public has for the hearing request
21 for the intervention.

22 I'm not sure that April 24, that the public
23 really knew that you had accepted an application. How
24 do you let the public know about that process?

25 MS. JAMES: We issued a Federal Register

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1 Notice that went public and official on May 2 and that
2 was the official start of the opportunity for hearing.

3 MS. REYNOLDS: Okay. So, how does that get
4 circulated or do you publish it in a paper or is it
5 put online? What is the --

6 MS. JAMES: We issued -- we signed a letter
7 on April 26 where we informed the Applicant that we
8 had accepted the application and we included the Federal
9 Register Notice as an attachment to that and it was
10 listserved through our normal listserv process. So,
11 anyone who was attached to the plant in our distribution
12 would get it.

13 MS. REYNOLDS: Okay, thanks.

14 MR. BURNELL: And the Agency also issued
15 a press release and redistributed that through social
16 media.

17 MS. REYNOLDS: Thank you.

18 MS. ARONOWITZ: Hello, Karen Aronowitz,
19 public. Am I to conclude that the safety review has
20 already been concluded, then?

21 MS. JAMES: No, ma'am. The safety review
22 has just started. We finished our first audit, is what
23 we've done.

24 The safety review ends, I think officially
25 when we receive a letter from the Advisory Committee

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1 on Reactor Safeguards. So, that's May of next year.

2 We have a lot of steps that need to be done between
3 now and then.

4 MS. ARONOWITZ: Thank you.

5 MR. GOMEZ: Is there a -- this is Albert
6 Gomez, I'm a citizen, Miami. And I'm asking, on the
7 Safety Evaluation Report and the public comment
8 applications, is that merged into the EIS? Is there
9 a hierarchy with regards to what reporting connects
10 to what?

11 I see a lot of correlations between safety
12 and EIS and I'm wondering what's the hierarchy, at least
13 with regards to assessment and public comment? Are
14 they unified, are they part and parcel to the same
15 report? Is it independent comments that the public
16 can make to individual reports, i.e., the EIS and the
17 SER?

18 MS. JAMES: There are two separate reports.

19 Under the environmental process, we ask questions and
20 for comments and then, we address those comments. We
21 do not ask for comments on the safety side, that is
22 done by the staff's review.

23 Priority or hierarchy, both need -- a
24 decision needs to be made in both areas before something
25 can proceed.

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1 MR. GOMEZ: In your flow chart, you point
2 to the SER having a public comment period, is that online
3 or is that here? One more, keep going. Right -- one
4 more. There.

5 MS. JAMES: Oh, this was trying to show the
6 entire process. And did we -- I guess I'm not --

7 MR. GOMEZ: See the dotted arrows coming
8 together on the hearing?

9 MS. JAMES: Oh, that's the hearing? Yes.
10 Well, depending on what is submitted as part of the
11 hearing process, there may be environmental parts that
12 go into the hearing, there may be safety parts that
13 go into the hearing.

14 And then, that will be dealt with under
15 the Atomic Safety Licensing Board. So, there could
16 be safety parts, there could be environmental parts
17 that go into that.

18 MR. GOMEZ: Are there any inputs from the
19 public on the safety review process?

20 MS. JAMES: Well, as part of the hearings,
21 yes. You can submit a contention as part of the
22 hearings. And then, if it gets, it will get reviewed
23 and if it gets accepted, the staff will have to address
24 the public.

25 MR. GOMEZ: Not in this scoping format?

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1 MS. JAMES: Not in this scoping format.

2 MR. GOMEZ: Thank you.

3 MR. BURTON: And again, Lois, what's the
4 date for people who, if they wanted to file --

5 MS. JAMES: July 2 is the final day to submit
6 the hearing requests.

7 MR. BURTON: So everyone can see that, July
8 2. Okay. Other questions on the process? None?
9 Okay. Normally, I would ask if we needed to take a
10 break, but I think we're moving through fairly quickly,
11 so if I make a decision to move on, is there anybody
12 who would have a problem with that? Okay, good. All
13 right.

14 So, we are now going to go into the heart
15 of what this meeting is all about and that's really
16 to take your comments and input to help us determine
17 the significant environmental issues we need to
18 consider during the review.

19 So, those of you who filled out the yellow
20 cards, this is going to be your chance. What I'm going
21 to do, again, you can either come up to the podium to
22 make your comment or statement, or if you raise your
23 hand, we can bring you the handheld mic.

24 Given the number of people who actually
25 signed up to make a statement, I think we can be a little

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1 flexible in terms of the time we can give you. So,
2 I think we'll try and make maybe four minutes or so,
3 if people need to make a statement.

4 Also, if you have any physical material
5 that you want to submit, you can give that to us now
6 and that will also be included as part of the record.

7 So, what I'm going to do is, I am actually
8 going to call off speakers by threes, so people know
9 where they are in the queue. Okay? And people can
10 be ready.

11 So, first three speakers are going to be
12 Lisa Tennyson, followed by Brian Stamp, and then, Adrian
13 Moreira. And I want to apologize up front if I mangle
14 anyone's names, but I'll do my best. Okay? All right.

15 Ms. Tennyson?

16 MS. TENNYSON: Good afternoon. Thank you
17 for hosting these meetings for our community. My name
18 is Lisa Tennyson. I'm the Director of Legislative
19 Affairs for the Monroe County Board of County
20 Commissioners. And I'm here today with Monroe County
21 Pro Tem, Mayor Pro Tem, Sylvia Murphy.

22 We're here today to convey to you the County
23 Commission's concerns with the current cooling canal
24 system associated with Units 3 and 4, the subject of
25 the license renewal.

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1 We have watched closely and watched with
2 concern the situation of the advancement of the
3 saltwater plume to the west, toward our well fields,
4 and to the east into Biscayne Bay for the past several
5 years.

6 In April 2016, the County Commission passed
7 a unanimous resolution expressing its concerns that
8 the CSS, the cooling canal system, the CCS, presents
9 a serious concern to our drinking water and to the
10 Biscayne Bay.

11 In February 2017, the County Commission
12 passed another unanimous resolution calling for the
13 decommissioning of the cooling canal system as soon
14 as possible.

15 Intended to be a closed system, the
16 leakages to the east and the west tell us that the
17 cooling canal system is not functioning properly or
18 as intended.

19 For us, the renewal of the license for Units
20 3 and 4 for 20 years beyond 2033 means the continuation
21 of the struggling cooling canal system for the next
22 three decades. This is the concern of the County
23 Commission. That's it. Thank you.

24 MR. BURTON: I understand my mic carried.

25 We have Brian Stamp, Adrian Moreira, and then, Gabriel

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1 Ignetti.

2 MR. STAMP: Hi, good afternoon, everybody.

3 My name is Brian Stamp, I'm the plant manager out at
4 Turkey Point. I have been at Turkey Point since 1987.

5 I came here directly out of the United States Navy.

6 I started out as an operator. Myself and
7 Bob Hess (phonetic) back there, we were both licensed
8 on the plant for a number of years, in fact, Bob still
9 is. And then, I continued on and then, currently, work
10 with a bunch of the folks that are sitting in the back.

11 So, I just want to take a couple minutes
12 to talk a little bit about what the plant is doing and
13 where it's headed. So, Turkey Point has been out there
14 now for 45 years. We power approximately 900,000 homes
15 here in Dade County.

16 We have eliminated and continue to
17 eliminate over ten million tons of greenhouse gases
18 every single year. This subsequent license renewal
19 will save our customers over \$2 billion, compared to
20 the alternative energies.

21 We currently have 800 people at the site
22 on full-time staff. We have a number of contractors,
23 we call them vendor partners, routinely between 100
24 and 200. During outages, it can go as high as 1,000.

25 We actually input into the economy every

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1 year over \$1.7 billion between the salaries and the
2 taxes that we pay. Roughly five years ago, we did a
3 major overhaul of a number of the plant's systems and
4 during that time, we spent nearly a billion dollars
5 on both of those plants.

6 We currently have plans to do another
7 upgrade over this year and into the spring of next year
8 that will increase the output roughly 40 megawatts,
9 which equals another 26,000 homes here in Dade County.

10 Some other things that we've got continuing
11 to go is that we are partnering with the County to use
12 some of the wastewater that currently goes out into
13 the Bay to actually continue to drive improvements of
14 the canal system.

15 There are plans being put together now to
16 build a project that will bring 60 million gallons of
17 the treated wastewater to the site and that will be
18 used in part to continue to refresh the canal.

19 And we've had success over the last few
20 years with the canals. Their salinity is improving.

21 We've met all the requirements that the government
22 action has put in place.

23 We continue to add fresh water into the
24 canals, as well as we have just started up the what
25 we call the refreshment well system, that is actually

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1 pumping out the high-salinity plume and putting it back
2 into the ground.

3 And then, finally, we're also partnering
4 and planning to build some solar panels, all within
5 the County, as well as some advanced battery technology.

6 And then, finally, there is 13,000 acres
7 of wetlands around the site that has been restored to
8 the Eastern Everglades Wetlands. And in part, that
9 is what contains the American crocodiles. And
10 recently, we had the least tern birds.

11 So, I've been in the community a long time,
12 I plan on retiring here. I have absolute confidence
13 in the ability of Turkey Point to continue to operate
14 and to continue to manage the wells and ensure that
15 they do not damage the environment. Thank you.

16 MR. BURTON: Thank you. If there is anyone
17 who maybe didn't sign up to speak, but has changed their
18 minds, let me know and I'll get you a yellow card that
19 you can fill out. So, we're going to have Adrian
20 Moreira, followed by Gabriel Ignetti. And then, after
21 that, Mark Short.

22 MR. MOREIRA: Hello, my name is Adrian
23 Moreira and I work at FPL's Turkey Point as an Instrument
24 and Control Technician. I've been working there at
25 the plant for about 12 years now.

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1 Part of my responsibility is I perform a
2 lot of work in the control room. Over the years, I've
3 had a firsthand look at our safety practices and
4 developed relationships with other reactor operators.

5 I can confidently say our plant is managed safely and
6 responsibly.

7 As an FPL employee, I'm excited about the
8 opportunity to work at Turkey Point an additional 20
9 years. The plant provides thousands of jobs for many
10 of us who live here locally. The electricity supplied
11 by the plant is clean and emission free.

12 And behalf of my coworkers and I, which
13 includes members of the IBEW, we support the subsequent
14 license renewal of Turkey Point 3 and 4. Thank you.

15 MR. BURTON: Thank you. Next, we'll have
16 Gabriel Ignetti, followed by Mark Short. And after
17 that, Caroline McLaughlin.

18 MR. IGNETTI: Hi, everybody. My name is
19 Gabriel Ignetti, I'm a longtime environmentalist. I'm
20 very concerned about climate change and I'm here to
21 speak on behalf of nuclear power, for the reason I hope
22 that there is no fear of a problem with Turkey Point.

23 Because, actually, it is an urban myth that
24 nuclear is so dangerous, it's actually the most safe
25 form of power on the planet. And solar power will not

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1 work as a substitute.

2 I believe it's in Puerto Rico, in the last
3 two storms, they had a massive solar farm, and if you
4 go on YouTube, it's a mashed up wreck of glass and
5 debris. It cannot happen in Florida, that cannot work,
6 it will not replace nuclear power.

7 And I hope they also -- I'm looking forward
8 to the building of the AP1000 reactors.

9 I want to mention another thing about the
10 safety and concerns of evacuation. When they had the
11 Fukushima accident, no one was killed from the
12 radiation, but there was tremendous death from
13 evacuation and it was unnecessary.

14 And the thing is this, I mean, the science
15 on radiation is that below 100 millisieverts, you can
16 be in an environment -- that's of radiation -- you can
17 be in an environment and there's no evidence that
18 anything will happen.

19 So, when people were evacuated, forcefully
20 evacuated out of areas that had 20 millisieverts, and
21 are still at 20 millisieverts. And what happened is
22 people died from that.

23 So, I want you to be more rationale than
24 the Japanese were, please, because God forbid if
25 anything happened, that's where we would have a problem.

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1 And that's about all I have to say. Thank you,
2 everybody.

3 MR. BURTON: Thank you. Next, we're going
4 to have Mark Short, followed by Caroline McLaughlin.
5 And then, after that, Andrew Carter.

6 MR. SHORT: I'd first like to thank you,
7 ladies and gentlemen, for this opportunity to speak
8 before you. My name is Mark Short. I'm an engineer
9 at Turkey Point.

10 I'd like to add just a little bit of a
11 personal element to this discussion. About 11 years
12 ago, myself and my wife graduated from college in
13 Northern Utah. And as all college students do, we
14 started to looking into where we're going to work, where
15 we're going to live, what are we going to do?

16 An opportunity arose to interview with
17 Florida Power and Light, so we started looking at the
18 company and looking into what they do. And being an
19 electrical engineer, I wanted the opportunity to make
20 power, and nuclear power, clean, safe energy attracted
21 me.

22 So, 11 years ago, my wife and I moved here
23 to this community. We live in Keys Gate, which is
24 probably the closest community to Turkey Point. We've
25 lived there for 11 years.

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1 We've started raising a family. I have
2 four children. Two of them attend Keys Gate Charter
3 School, which is also probably the closest school to
4 Turkey Point.

5 I have the opportunity to work with those
6 800 people. These are really good people. These are
7 operators, these are engineers, these are mechanics,
8 these are people that care about their families, these
9 are people that do their jobs, and they do their jobs
10 safely and they do it well.

11 I have no problems with my family being
12 so close to the station. I intend on being here a long
13 time, as Brian does. I look for the opportunity to
14 come and speak to, because license renewal is important
15 to me and my family.

16 If we don't, well, I've got to find a new
17 place to live. I'll have to start looking, as well
18 as all those other workers. I don't want to do that,
19 I'd like to stay here, we enjoy it here, even though
20 our family is out West.

21 So, I'm thankful for the NRC and them taking
22 this application and looking into -- and ensuring that
23 we're safe, ensuring that the environmental things are
24 taken care of.

25 But as a community here, as a community

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1 in Homestead, we gain a lot from all those that work,
2 from the economy being helped, for all that we receive
3 from the station being here. And I appreciate you
4 letting me share this time with you. Thank you.

5 MR. BURTON: Thank you, Mark. And next,
6 we have Caroline McLaughlin, followed by Andrew Carter.
7 And then, Kelly Cox.

8 MS. McLAUGHLIN: Good afternoon, Caroline
9 McLaughlin on behalf of the National Parks Conservation
10 Association.

11 NPCA is dedicated to the protection and
12 preservation of America's incredible system of National
13 Parks on behalf of its 1.3 million members and
14 supporters around the country.

15 Biscayne National Park is our country's
16 largest marine National Park and the aquatic equivalent
17 of Yellowstone or Yosemite. It protects abundant
18 wildlife and a variety of ecosystems, in addition to
19 supporting a number of economically valuable recreation
20 opportunities.

21 Biscayne National Park also sits directly
22 adjacent to Turkey Point Nuclear Power Plant. Over
23 the years, we have seen a number of environmental
24 impacts stemming from the operation of the plant.

25 The plant's unlined system of cooling

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1 canals released an unprecedented amount of
2 contamination into the Biscayne Aquifer, threatening
3 the drinking water supply for millions of people and
4 hastening rates of saltwater intrusion.

5 This contamination has also made its way
6 into surface waters that are connected to Biscayne
7 National Park.

8 Before FPL is given the green light to
9 extend the life of Turkey Point's two new reactors by
10 another 20 years, we have a number of questions and
11 concerns that need to be addressed within this process
12 as it moves forward.

13 And some of these questions are: what is
14 the status of FPL's remediation efforts and cleanup
15 activities? Will FPL be able to draw the plume back
16 to within its boundaries of the plant and by what time?

17 And what happens if they don't?

18 What plans are in place to address the
19 eastern side of the plume that currently extends beneath
20 the waters of Biscayne Bay and Biscayne National Park?

21 How will the future operation of the
22 cooling canals differ from the way they are currently
23 operated? Meaning, how will you ensure that the
24 cooling canals stop polluting the Biscayne Aquifer and
25 Biscayne Bay?

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1 How will adding additional fresh water to
2 the canals get rid of contamination that is currently
3 in them? The nutrients and salt have to go somewhere,
4 if they're not going into the Aquifer, if they're not
5 going into the Aquifer, where are they going?

6 How will we ensure that any additional
7 fresh water added to the canals does not increase the
8 level of nutrients in the system? What measures will
9 be put in place to address increasing threats from storm
10 surge and sea level rise?

11 How will FPL mitigate impacts from the
12 continued operation of their units? Will mitigation
13 benefit efforts to restore Biscayne National Park?
14 What measures will be put in place to ensure Biscayne
15 Bay and Biscayne National Park are protected from any
16 damage associated with the current and future operation
17 of Turkey Point?

18 Thank you so much for your time and we look
19 forward to your response to these concerns as the
20 process moves forward. Thank you.

21 MR. BURTON: Thank you, Caroline. All
22 right. Next, we have Andrew Carter, followed by Kelly
23 Cox. And then, George Cavros.

24 MR. CARTER: Good afternoon, Commissioners.
25 Thank you for the opportunity to speak today. My name

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1 is Andrew Carter and I'm the Research Director at Miami
2 Waterkeeper, a Miami-based nonprofit dedicated to
3 defending and protecting South Florida's watershed.

4 Today, I would like to voice Miami
5 Waterkeeper's opposition and that of our membership
6 to the license renewal as written for Turkey Point Units
7 3 and 4.

8 First, we do not feel that the license
9 application considers existing contamination issues
10 within the cooling canal system at Turkey Point.
11 Current operations already pose risks to the ecological
12 integrity of Biscayne Bay and Biscayne National Park.

13 Presently, water from the cooling canal
14 system is seeping into our groundwater, creating a
15 hypersaline plume emanating out in all directions,
16 towards drinking water wells and Biscayne Bay.

17 This plume moves at a rate of more than
18 a foot a day and has migrated westward over five miles
19 since the canals were instituted. The plume is fast
20 approaching our drinking water wellheads, compromising
21 our sole source of drinking water in Miami-Dade County,
22 the Biscayne Aquifer.

23 Despite being described by FPL as a closed
24 system, the cooling canal system is unlined and is
25 actively contaminating the Aquifer and Bay, as

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1 indicated through the presence of the tracer, tritium.

2 The existing conditions of the cooling
3 canals have already created algal blooms and extremely
4 high temperatures, both of which are contaminants in
5 their own right. These issues will exist or be
6 exacerbated should the license for Units 3 and 4 be
7 renewed.

8 We feel like this industrial waste facility
9 should be remediated and the canals decommissioned in
10 favor of cooling towers. However, this application
11 does not reflect such a change.

12 Instead, it seeks to use the canals for
13 the extended life of the plant, ultimately contributing
14 to additional pollution issues in our Bay and Aquifer.

15 As such, we cannot support this plan and
16 urge the Commission to reject the license extension
17 application as written in support of a cooling system
18 that more adequately protects our drinking water and
19 the unique ecosystems that Biscayne Bay supports.

20 Finally, we feel that the use of nuclear
21 power in general is not sustainable as this region
22 grows. We're not opposed to nuclear power, however,
23 this location is not a good spot for aging reactors
24 and continued reliance on an outdated and contaminated
25 cooling system.

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1 To date, there is no sufficient plan for
2 long-term storage of radioactive waste for Turkey
3 Point. This waste is stored onsite, where it may be
4 compromised by storms or other threats. We feel that
5 this is not a sustainable solution for waste disposal
6 and would urge the Commission to reject this plan for
7 radioactive waste storage.

8 For this and the reasons stated by my
9 colleagues, I urge you to reject the license renewal
10 for Units 3 and 4. Thank you for the opportunity to
11 comment.

12 MR. BURTON: Thank you, Andrew. Okay.
13 Next, we'll have Kelly Cox, followed by George Cavros.
14 And then, Laura Stinson.

15 MS. COX: Hi, everyone. Thank you so much
16 for the opportunity to come in today. My name is Kelly
17 Cox, I am the Staff Attorney and Program Director at
18 Miami Waterkeeper. As Andrew mentioned, we're a
19 nonprofit that's dedicated to defending and protecting
20 South Florida's watershed.

21 Today, I'd like to voice a few concerns
22 that we have about this license renewal application
23 for Units 3 and 4. First and foremost, I'd like to
24 refer you to a set of maps that we've generated here
25 depicting sea level rise risks at Turkey Point.

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1 We're concerned that the license renewal
2 application as written does not adequately consider
3 the impacts of sea level rise on the operation of the
4 plant and ancillary facility throughout the 20-year
5 extension horizon.

6 Over the last 100 years, sea level in the
7 area of Turkey Point has risen approximately nine to
8 12 inches. By 2050, sea level rise could be between
9 1.5 and five feet in this area.

10 Using the University of Florida's sea level
11 rise sketch planning tool, we generated this map, which
12 shows the best-case scenario when selecting the most
13 optimistic variables for sea level rise at Turkey Point,
14 using data from the Army Corps of Engineers. And we
15 all know they're pretty conservative.

16 So, you'll see that the site of the reactors
17 and aspects of the cooling canal system will be
18 inundated by 2040, 12 years before the end of the
19 proposed reactor extension.

20 We urge you to incorporate these
21 projections and incorporate maybe even more
22 conservative projects, such as those from NOAA, in
23 consideration of this license renewal. We also urge
24 you to use worst-case scenario modeling, to ensure the
25 complete safety of this region and our communities.

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1 In addition, the license extension
2 application does not consider the increased
3 vulnerability of 3 and 4 to storm surge as a result
4 of sea level rise. While sea level rise occurs slowly,
5 impacts from storm surge can be sudden and immediate.

6 Turkey Point could be exposed to storm
7 surge from Florida Bay, for example, in future
8 scenarios. Elliott Key, which currently acts as a
9 barrier to impacts of storms, may be underwater, which
10 would leave the facility even more vulnerable to storm
11 surge, high tides, winds, and ocean swell.

12 Given projections, it's extremely likely
13 that water from Biscayne Bay will rise to or about levels
14 of the cooling canal system at some point during the
15 project's life time.

16 During storm events, it's possible that
17 water levels may breach the height of the berms
18 surrounding the cooling canal system, causing Bay water
19 to mix with the cooling canal water before the water
20 returns to the Bay.

21 The end result could be an increased
22 presence of contaminated cooling canal water in
23 Biscayne Bay, which contributes to nutrient loading
24 and potentially devastating algal blooms for the Bay
25 and the ecosystems that it supports.

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1 For these reasons and those stated by my
2 colleague, Andrew, we urge you to currently reject the
3 license renewal application as written for 3 and 4.
4 Thank you for your time.

5 MR. BURTON: Thank you, Kelly. Next, we
6 have George Cavros, followed by Laura Stinson. And
7 then, Bonnie Ripplingille.

8 MR. CAVROS: Good afternoon. Thank you for
9 the opportunity to provide some comment to you tonight.

10 I'm George Cavros, speaking on behalf of Southern
11 Alliance for Clean Energy. I'm also a nearby resident
12 of Broward County, longtime resident of South Florida.

13 Southern Alliance for Clean Energy is a
14 regional nonprofit clean energy organization that
15 advocates for responsible energy choices that ensure
16 clean, safe, and healthy communities here in Florida
17 and throughout the Southeast. I'll provide some short
18 comments, but we'll file detailed written comments
19 later.

20 We have an active presence in South Florida
21 and have engaged on the Turkey Point 3 and 4 issue,
22 both at the Florida Public Service Commission and in
23 federal court, in order to hold FPL accountable for
24 damaging groundwater and surface water resources and
25 seek appropriate remedies.

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1 FPL operates a ten-square mile cooling
2 canal system for its aging Turkey Point 3 and 4 reactors,
3 and it's the only utility in the country to use this
4 antiquated system for cooling water for power
5 generation.

6 And there's a good reason for that. The
7 cooling canal system essentially works as an open
8 industrial sewer.

9 The miles of canals are unlined, and due
10 to the porous geology of South Florida, water from the
11 canals has leached underground to form a plume of
12 hypersaline and contaminated water, spreading westward
13 into the Biscayne Aquifer, towards drinking water
14 wells, and east towards Biscayne Bay and National Park.

15 The Biscayne Aquifer is the sole drinking water source
16 for Miami-Dade County and the Florida Keys.

17 The canal system has been mismanaged for
18 decades. FPL failed to address the growing
19 contamination plume, not until 2013, when temperature
20 and salinity spiked in the canals.

21 And as you all may know, water is the
22 lifeblood of South Florida. While we have millions
23 of residents here and we're surrounded by water, none
24 of it is suitable for drinking. Fortunately, we do
25 have a really prolific drinking water aquifer, the

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1 Biscayne Aquifer.

2 There are federal, state, and local laws
3 designed to protect that drinking water resource. FPL
4 has violated and continues to violate several of those
5 laws and regulations.

6 The cooling canal system dumps up to three
7 million pounds of salt a day into the Aquifer. That's
8 equivalent to roughly 100 dump trucks of salt per day.

9 FPL has violated its federal NPDES permit
10 and state water quality standards, as well as local
11 water quality standards. Now, it's coming to you with
12 a subsequent license renewal application that proposes
13 to continue business as usual, and that's simply
14 unacceptable.

15 If approved, this could bring the total
16 service life to an unprecedented 80 years, and that
17 would mean that the two reactors and the leaking cooling
18 canal systems will operate until 2053.

19 Just a couple points. Based on the sheer
20 volume of salt and other contaminants being loaded into
21 the Aquifer, the continuing operation of the cooling
22 canal system has a large environmental effect when
23 considering both context and intensity.

24 The known impacts of the cooling canal
25 system postdate the general Environmental Impact

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1 Statement that you're going to rely upon and Turkey
2 Point's first license approval back in 2002.

3 So, the NRC must take a hard look at
4 plant-specific characteristics, such as how the current
5 operation of the cooling canal system is damaging water
6 resources, both the Biscayne Aquifer and the surface
7 waters of Biscayne National Park.

8 Even though FPL has entered into a consent
9 order with state regulators and a consent agreement
10 with Miami-Dade County to remediate the contamination
11 plume, evidence filed both at the Florida Public Service
12 Commission and in federal court suggests that that
13 remediation will not work. And we will provide that
14 evidence to you.

15 Also, we expect the NRC to consider
16 reasonable alternatives, such as an alternative where
17 the plant may receive its subsequent license renewal,
18 but it would be contingent on the use of current
19 closed-loop cooling technology, such as mechanical
20 draft cooling towers, while moving to decommission the
21 cooling canal system to mitigate environmental impacts.

22 FPL included a mechanical draft cooling
23 towers in the design of the proposed Nuclear Units 6
24 and 7. Retrofit cooling towers for Units 3 and 4 are
25 technically feasible and cost-effective. The

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1 approximate capital cost of wet cooling towers for Units
2 3 and 4 would be in the range of \$220-310 million.

3 So, in short, business as usual is not an
4 option. If FPL wants to continue to run the aging
5 reactors, the use of cooling towers and the eventual
6 decommissioning of the cooling canal system should not
7 only be an alternative that you look at, but it should
8 be the preferred alternative in your final
9 Environmental Impact Statement.

10 Our quality of life in this region depends
11 on it. Thank you for the opportunity to comment.

12 MR. BURTON: Thank you, George. Okay.
13 Again, I just want to remind you, if you have any
14 documents or anything you'd like to submit to us for
15 the record, please leave them with me or any member
16 of the team here in the front and we'll be happy to
17 take that.

18 So, next, we have Laura Stinson, followed
19 by Bonnie Ripplingille. And then, after that, Steven
20 Schoedinger.

21 MS. STINSON: Good afternoon. My name is
22 Laura Stinson. I am a Senior at Florida Atlantic
23 University in Boca Raton, where I am pursuing a degree
24 in marine biology.

25 I am 20 years old and have a stake in the

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1 outcome of this proceeding. I am a resident of Monroe
2 County and have lived in Key Largo my whole life. I
3 have had so many fond memories of water skiing, sailing
4 in Cardstown (phonetic) Bay, and diving in the creeks.

5 This is my home and I'm passionate about
6 the marine ecosystem of the Florida Keys, which is
7 currently in distress. I plan to dedicate my career
8 as a marine biologist to preserving our beautiful
9 ecosystem, so that me and my family, future husband
10 and children, can continue to enjoy this beautiful place
11 in the years to come.

12 The problem with the TP cooling canal
13 system is it does not work in the manner in which it
14 was intended to work, as a closed-loop system. The
15 cooling canals are not only leaking into the Biscayne
16 Aquifer and surface water outside the boundaries of
17 the TP plant in all directions, but also through the
18 hydraulic connection with the Bay.

19 Have you considered whether these cooling
20 canals will survive the upcoming climate changes to
21 make South Florida ground zero for sea level rise?
22 Three of the top ten vulnerable zip codes for sea level
23 rise are in Homestead.

24 Are you aware that a study done in 2014
25 described Turkey Point Power Plant was one of eight

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1 U.S. power plants expected to be affected by flooding
2 from sea level rise by the end of the 21st century?

3 FPL, in its application to build Reactors
4 6 and 7, did not mention climate change and used a
5 one-foot sea level rise per century calculation, far
6 less than NOAA's 5.6-foot worst-case scenario.

7 If you keep the cooling canals in operation
8 through 2053, they will be eliminated by sea level rise.

9 It is imperative that these canals be closed and a
10 closed-loop system established with cooling towers that
11 can reside above the impending rise of sea level, and
12 not rely on the outdated design that is used today.

13 The future of the South Florida community
14 and ecosystem as a whole resides in the need for these
15 cooling canals to be terminated as soon as possible
16 and for new cooling towers to be built. Thank you for
17 your time.

18 MR. BURTON: Thank you, Laura. Okay.
19 Next, we're going to have Bonnie Ripplingille, followed
20 by Steve Schoedinger. And then, Laura Reynolds.

21 MS. RIPPINGILLE: Hello. Here we all are
22 on a rainy day trying to determine the future of our
23 beautiful aquifer, which provides us with, right now,
24 with so much water for drinking water and our Floridan
25 Aquifer that provides water for irrigation.

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1 I am a former Miami-Dade County judge, but
2 I reside in the Florida Keys now. And I am still a
3 lawyer and I do a lot of pro bono environmental work,
4 because I live here now, I live in the Keys, and we
5 are dependent on our water wells and our well fields.

6 Our water comes from Miami-Dade County.
7 So, I adopt fully the position of George Cavros, the
8 attorney for advocacy for the Southern Alliance for
9 Clean Energy. I'm not going to repeat a similar speech
10 right now, but rely on what he said with regard to the
11 technical aspects.

12 There are some things I do want to review
13 with you, that affect our safety and our environment.

14 And I know that you want to make sure that we are safe
15 and that our environment is not destroyed.

16 And I also want to thank the FPL employees
17 that came out, we appreciate what you do, we appreciate
18 the fact that you're willing to work in the nuclear
19 power industry. And we want you to know that what we're
20 suggesting doesn't take any of your jobs.

21 And what the representative said with
22 respect to, I don't remember his, I didn't hear his
23 name, but what he said with respect to the investment
24 that Florida Power and Light is making, we want you
25 to know that the rate payer has been paying for the

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1 cleanup that FPL caused with respect to the hypersaline
2 plume and pollutants.

3 And the PSC in Florida has required us to
4 pay for it. And we're all rate payers, because we all
5 use Florida Power and Light electricity.

6 So, without talking about the technical
7 aspects of this, I do want to comment on the global
8 warming. This is of great concern, this climate change
9 issue, this issue of rising waters and the fact that
10 there's such a discrepancy between the amount of sea
11 rise that is being predicted by NOAA and the amount
12 of sea rise that is being predicted by others.

13 And NOAA is saying, by the end of this
14 century, it'll be 5.6 feet, worst-case scenario. We
15 certainly don't want those cooling canals to be
16 underwater.

17 And that will affect everything. It will
18 affect the operation of the plant, because we don't
19 want water in the plant. And I know the NRC doesn't
20 either.

21 We are advocating cooling towers. And the
22 reason we're advocating the cooling towers is because
23 they are affordable and will not materially affect our
24 electric bills.

25 The system as it exists is not as it was

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1 permitted, which was a closed-loop system. We want
2 you to close the loop, because that is the only way
3 to ensure our safety and the safety of our environment.

4 And we believe the cooling canal system
5 is an integral part of the operation of the nuclear
6 plant, with respect to safety and environment. And
7 the cooling canal system is not sufficiently protected
8 against sea level rise and hurricanes. And it can only
9 worsen in coming decades.

10 The cooling towers would make Turkey Point
11 a closed-loop system and make it more resilient to
12 weather and climate change impacts. Water usage could
13 go down with the cooling towers, because there's less
14 evaporation.

15 The need for water has increased in the
16 CCS, FPL is using millions of gallons of water that
17 we will need to use in coming years as a growing
18 Miami-Dade Community and growing Keys community.

19 The cooling tower technology was approved
20 for use by the NRC on Reactors 6 and 7. That's the
21 best technology, and they approved it and that's what
22 they were going to use on 6 and 7.

23 Now, because they've admitted that it's
24 not economically feasible to build 6 and 7, that they
25 are going to go ahead and try to extend the permit,

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1 the license for Reactors 3 and 4.

2 Well, that's interesting, because Reactors
3 3 and 4 could be upgraded if you're going to permit
4 them to operate for another 35 years. And it certainly
5 is effective from a cost standpoint as well, now that
6 they know they're going to use them for 35 years.

7 Cooling tower technology will prevent
8 leaking, prevent the buildup of salt and heat, which
9 occurs in the CCS. Cooling towers, as I said, are
10 affordable and there have been many retrofits, and we're
11 providing you with a printout that shows how certain
12 nuclear plants have been retrofit to include the cooling
13 towers.

14 We have an expert witness, Bill Powers
15 (phonetic), whose expert report is being described to
16 you today by Laura Reynolds.

17 I -- oh, FPL has also assured us that
18 they've upgraded Reactors 3 and 4 several years ago
19 and they're in great condition. Nonetheless, the
20 situation since the renewal of the permit, the existing
21 permit, the situation has really changed.

22 Because we've discovered the hypersaline
23 plume that's out almost ten miles and going closer and
24 closer to the water plants, to the point where there's
25 real concern about that.

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1 We've found out that there are upwellings
2 in the Bay. And I personally went on dive trip with
3 SACE consultant, Laura Reynolds, and we located caves,
4 we call them caves, but they're really upwellings.
5 Which means that the water from the Aquifer is coming
6 up into the Bay.

7 And that water was ten times hotter at the
8 bottom level. There was tritium in that water, there
9 were nutrients in that water, and they were coming right
10 out of the Aquifer. And we do know that the Aquifer
11 is a part of the problem with Turkey Point.

12 We didn't create the mess. Florida Power
13 and Light has admitted many times in conferences that
14 I've attended with their representatives that they
15 failed to adequately maintain the cooling canals.

16 In 2010-2011, the seagrass system
17 completely collapsed. The seagrass was necessary to
18 clean those canals. Then came the algae. Today,
19 flying over those canals and you will see brown,
20 chocolate brown and green, they are covered with algae.

21 Two years ago, FPL told me, we're going
22 to clean those up. We live in Ocean Reef and a lot
23 of people fly over those canals and they're going, why
24 are they green, why are they brown? What are they doing
25 out there, why aren't they maintaining the canals?

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1 Well, guess what? They haven't been
2 maintaining the canals. And now that they're starting
3 to, it's been three years and even though they've
4 reduced the salt level, the hypersaline level of the
5 canals somewhat, they still, in three years, with all
6 that water from the Floridan Aquifer have not been able
7 to reduce the canals to the acceptable level, which
8 is 35 based upon current seawater.

9 One more minute? Okay, let me finish up.
10 All right.

11 The plants have been -- the water has been
12 overheating. It overheated two times. The
13 temperature went up to 104 degrees. That was a problem,
14 they almost had to close the plants down.

15 How can we approve a renewal of licensing,
16 which we really want, because we want our electricity,
17 I mean, we live in South Florida, it's very warm here
18 most of the time, how can we approve that when there
19 are so many problems with this system?

20 And make them fix it, this will create jobs,
21 this will create a good neighborly feeling amongst
22 people that live in this area and Miami-Dade County.

23 Show us that you're doing something and
24 you're willing to do something that we are willing to
25 pay for. We're not asking them to pay for it, we'll

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1 pay for it. And our estimates show that it's not going
2 to cost more than one or two percent of our current
3 electric bill.

4 Would you go to a doctor that was a
5 podiatrist for cancer? Would you use a system that
6 doesn't work for something that's very dangerous, which
7 is nuclear energy, that we all need?

8 Because basically, we're not opposed to
9 nuclear energy, we've been the beneficiaries of the
10 FPL work for years, but now, the tide has turned and
11 the tide is coming up and we want you to close the loop
12 and we want you to exercise your regulatory authority
13 and hold that this is a safety issue, not just an
14 environmental issue.

15 And we thank you very much for coming down
16 here to talk to us. I represent Ocean Reef Club, where
17 I reside, it's a homeowners association of 2,000
18 residents.

19 And we want something done about this and
20 we're feeling the same way as the County does, the FKA
21 does, Miami-Dade County, we want the cooling towers,
22 we want the updated technology. Please help us, you're
23 the people who can do that. Thank you very much.

24 MR. BURTON: Okay. Thank you, Bonnie.
25 Next, we're going to have Laura Reynolds, followed by

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1 -- oh, I'm sorry, yes, Steve Schoedinger, followed by
2 Laura Reynolds. And then Karen Aronowitz.

3 MR. SCHOEDINGER: Thank you for holding
4 this scoping meeting today. My name is Steve
5 Schoedinger, I'm a resident of Key Largo.

6 I am also the chair of the North Key Largo
7 Utility District Water Resources Management and
8 Planning Committee.

9 Yes, I have resided in Monroe County for
10 the last 20 years. I'm a registered professional
11 engineer in six states. I've been practicing
12 registered professional engineer for 45 years. Much
13 of it in Miami-Dade County and the Florida Keys.

14 My skill sets specialize in water resource
15 and coastal infrastructure, studies design,
16 construction and asset management.

17 And my comments today basically are going
18 to focus, just squarely on the cooling canal system
19 and its ability to meet the current and future needs
20 of cooling the reactor water that is discharged into
21 the canals according to industry standards.

22 And also addressing some of the design
23 flaws that have existed since 1972, when it was
24 designed, as it pertains to the environment.

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1 But I also want to say I am supporting the
2 approval of the proposed licenses for Nuclear Reactors
3 3 and 4, but I implore the NRC and FP&L to consider
4 the design and construction of mechanical draft cooling
5 towers to replace the 6,000 acre, 44 year old failing
6 open-loop, not closed-loop, as far as total system,
7 cooling canal system, as a condition of granting the
8 license to operate the next years, onto 2053.

9 I would ask the NRC Staff not to rush the
10 license renewal process. I know it looks like if it's
11 an 18 month process, I think sometimes that normally
12 takes 24 months or longer when a real thorough review
13 is performed.

14 There is more than 14 years on the current
15 licenses. So please slow down and perform a complete
16 review of all current information about the Turkey Point
17 Plant cooling canal system and the impacts on the
18 environment.

19 It's been 16 years since the NRC last
20 performed a full NEPA EIS for this facility, as part
21 of a first 20 year license renewal.

22 So I'd ask again for the NRC to take a hard
23 look at all the current information and opinions by
24 recognized nuclear and water environmental experts and

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1 local government authorities, not just what FP&L has
2 provided in their application and in their
3 environmental report.

4 I urge them not to rely on the outdated
5 original, information in the outdated original NEPA
6 EIS that was performed for the 2012 license renewal.

7 Because in the last ten years, since 2009, there's
8 been a significant, there is significant events that
9 have occurred at Turkey Point, significant data and
10 evidence that's been revealed, which shows the design
11 inadequacy and the operation and maintenance
12 inadequacies that have existed at Turkey Point.

13 And have caused us noticeable
14 environmental and adverse impacts to the surface water
15 and ground water environment. And I'd like to focus
16 specifically on Biscayne Bay and Card Sound.

17 Because there is a daily exchange of tidal
18 water that occurs between the canals and the groundwater
19 beneath and the surface water. Because it's right next
20 to Biscayne Bay.

21 So, it basically may be defined as a
22 closed-loop system as it was in '74 but it really doesn't
23 function as that, as the whole cooling system for the
24 plant. Because the water from the canal does leak into

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1 the surface water of the bay.

2 And, again, the information and the data
3 that's been collected by local organizations and the
4 interested parties the past ten years is available to
5 NRC. And I really urge you to take a thorough look
6 at all this data, which will demonstrate that there
7 have been adverse impacts.

8 And there are continuing to be adverse
9 impacts and will continue to be adverse impacts through
10 2052 if you continue with this cooling canal system
11 which has serious design flaws with the ability to cool
12 the water, according to industry standards, and the
13 ability, and the fact that it's not closed-loop it
14 continues to leak in Biscayne Bay.

15 So, there are a lot of things,
16 environmental, weather wise, that are beyond FPL's
17 control, that cause upsets in these canals.

18 And again, if they continue to operate and
19 maintain it in the fashion that they have over the last
20 30 years, it's going to be an ongoing cleanup of damage
21 to the groundwater supplies and the surface water
22 supplies. And the public will be the ones that bear
23 that cost.

24 So I would also want to mention that local

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1 government state authorities, Monroe Country, Florida
2 Keys Aqueduct, Miami-Dade County, have all issued
3 correspondence and passed resolutions in the last two
4 years expressing serious concerns about the Turkey
5 Point cooling canal system and its operation in the
6 population leaking from the site into the surrounding
7 environment.

8 And they support the replacement of the
9 failed 44-year-old open-loop cooling canal system with
10 a proven technology and a safer technology of the
11 cooling towers.

12 So, I have copies of the resolutions and
13 other evidence and I'll leave that with you today.
14 And I just would, one more comment regarding costs.

15 I think that, I have been told several times
16 by FP&L that this is, cooling canal retrofit is too
17 expensive and I don't understand whether that's too
18 expensive to the rate payer and the shareholder, but
19 I don't think that their cost analysis has included
20 all the cleanup costs that the public is going to have
21 to bear and other organizations will bear, due to the
22 design flaw and the inability of the cooling canal
23 system to operate as a contained facility.

24 And I think if they look at the cost of

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1 operating it properly for the next 35 years and
2 maintaining it properly and add in these related costs,
3 then I think the lifecycle cost of the cooling canal
4 system through 2052, will be less than, excuse me, will
5 be great than, or equal to, the cost of putting in and
6 operating new cooling towers, which are truly a
7 closed-loop system and have little or no impact on the
8 environment.

9 And I think it would be a lot easier for
10 the operators who are here today, to operate that system
11 than to have to deal with 6,000 acres of open canals.

12 So thank you for your time.

13 MR. BURTON: Thank you, Steve, appreciate
14 it. Okay, next we're going to have Laura Reynolds
15 followed by Karen Aronowitz and then Barry White.

16 MS. REYNOLDS: It's kind of strange being
17 at the back of the podium but I'll try my best. Laura
18 Reynolds and I'm here representing Southern Alliance
19 for Clean Energy, Friends of the Everglades and Tropical
20 Audubon, all of which are parties and plaintiffs in
21 the Clean Water Act.

22 And I just wanted to point you to this blue
23 folder. Inside of it you have a disc with all of the
24 expert reports in that case, in addition to the amended

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1 complaint.

2 And I'll refer to the figures on the right
3 side during my presentation, so that's why I wanted
4 to make sure you had it in front of you.

5 A lot of my comments will be repetitive
6 but hopefully, because it's such a complicated issue,
7 you will leave here with a greater understanding of
8 the concerns.

9 So, the organizations I represent
10 collectively have about 8,000 members in the affected
11 area, all concerned with the health and well-being of
12 the regions habitat, fish and wildlife, water, water
13 quality. And of course, the park and protected areas
14 for future generations as well as a great state in
15 Everglades Restoration.

16 For years, Florida Power and Light cooling
17 canal system at Turkey Point Facility has been leaking.

18 You've heard that before.

19 This massive pollution plume has built up
20 under the plant over 45 years. It's been spilling into
21 Biscayne Bay and into the aquifer.

22 A lot of that information is new. We
23 didn't really know that when you first evaluated this
24 in 2002 for your previous extension. So it's important

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1 to really make sure that you understand that it wasn't
2 basically until 2005 that we started to sort of see
3 concerns in this area.

4 FPL has known about these issues as
5 evidence by changing the boundary of the industrial
6 waste facility in the '80's. We do see evidence that
7 the company sort of knew there were issues.

8 So, basically there is a boundary around
9 the plant that delineates the G2 and the G3 boundary.
10 That was expanded in 1983.

11 Yet the company, instead of deciding to
12 fix that situation, decided to apply to upgrade the
13 facility. And as I learned today, I'm not sure of the
14 gentleman who spoke on behalf of FPL, it sounds like
15 they're planning to upgrade the system again. Which
16 I think is irresponsible given the fact that we now
17 see the impacts from the upgrade.

18 So please take that into account when
19 you're reviewing this application. If there are truly
20 plans for an upgrade again, you need to get that
21 information from FPL and demand that they include it
22 in their environmental report. Which I didn't see in
23 there.

24 So, at the time the agencies were reviewing

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1 the upgrade application, they knew there were issues.
2 Sentinel Wells in front of Miami-Dade's potable
3 wellfields went salty.

4 Agencies were looking at this area, why
5 is salt water intrusion moving so fast in this area.

6 That was 2005, '06, '07 time frame. And at the time
7 of that upgrade application, the agencies decided to
8 require a robust monitoring plan.

9 That is how we know what's going on with
10 the plant. Without that we wouldn't have any idea that
11 this plant was leaking. And the reason why in 2002
12 you likely didn't have anybody talking about it.

13 So, at that time, with that information,
14 we were able to see the extent of the plume. So by
15 2012 we knew the delineation of the plume.

16 So that's an important time marker for you
17 to understand. And a lot of the information, for
18 example, in the expert reports, is based on the data
19 that agencies have collected in FPL themselves. And
20 their consultants. So, much of that data wasn't
21 collected by anyone else.

22 Now, Dade County recognized that there were
23 other places that need to be monitored. So, they
24 required additional monitoring. And that information

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1 has led to the information we have about Biscayne Bay.

2 So, again, this is a little repetitive,
3 but FPL leadership continues even after these issues
4 occurred, continues to insist that, and convince
5 government officials and some agencies, that they know
6 how to fix this problem.

7 And my question is, why should we trust
8 them since the uprate caused so many issues, and that's
9 been shown through reports that have been published,
10 by David Chin for example, that was commissioned by
11 Dade County.

12 I don't have a copy of that here but we
13 certainly can provide it to you. Those reports show
14 that the uprate caused damage.

15 So the question I have for you is, why would
16 we trust them with their remediation plan that it will
17 work, that they'll be able to retract the plume and
18 operate these cooling canals without a problem, if they
19 continue to show a pattern of failure?

20 So, again, what their plan is, and I just
21 want to kind of go through that a little bit, they have
22 a series of extraction wells and freshening activities.

23 And that's their term for this.

24 But what that is really is a delusion scheme

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1 for the pollution that currently exists. Basically,
2 if you add in a lot of water into the cooling canal
3 system, you're taking that high salinity and high
4 temperature water and you're diluting it and you're
5 forcing it into the aquifer and from the groundwater
6 into the surface water of the bay.

7 It's very important to understand that the
8 amount of extraction capacity they have permitted could
9 never remove the amount of the plume that has built
10 up over 45 years. That is very important to understand.

11 And the issue that you should all
12 understand too is, that there's multiple agencies
13 trying to make this situation better. For example,
14 we have Miami-Dade County who first challenged, I think
15 it was the administrative order, and settled out and
16 have a consent agreement.

17 In that consent agreement, you can tell
18 that one of their chief concerns is their potable water
19 supply to the west. And then once information came
20 out about the bay, they were concerned about nutrient
21 pollution.

22 So, that's one of the orders, local orders.

23 And then there is the state order. The state order
24 basically requires a threshold of 34 psu within the

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1 cooling canal system that would require the addition
2 of water.

3 The addition of water is actually what
4 causes that nutrient pollution. So we have two
5 conflicting agencies telling us how to fix this problem.

6 Because if you meet that 34 psu, you are
7 going to pollute the bay and the aquifer. That driving
8 head of water pushes it into the surface.

9 And so it is your job, I hope, to really
10 evaluate all the conflicting information that you have.

11 And the reason its conflicting is because we have
12 compartmentalization of all of these issues between
13 the different agencies pointing the finger saying, you
14 fix this part.

15 Even today when I walked in I said, can
16 you guys require conditions such as cooling towers?
17 And I was told, we don't really have jurisdiction over
18 the cooling.

19 Well, that's a problem because the facility
20 cannot operate without cooling units that function
21 appropriately. And we all know, at this point after
22 a decade of looking at this, that those cooling canals
23 are broken. They're not working.

24 So I ask you to focus in on the cooling

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1 where the environmental problems are. And I know that
2 I've got a minute left, is that right?

3 MR. BURTON: Actually, no, but --

4 MS. REYNOLDS: No time left. I do plan
5 to stay for the second session and walk you through
6 some of these graphics and go into detail.

7 But what you can do is just at least look
8 at the first graphic there which illustrates that
9 driving head of water and what happens. You see that
10 little green line, that little green line shows the
11 pollution exiting into Biscayne Bay.

12 And so this is a graph that was created
13 by FPL. So, I'm not providing you with data that's
14 something else.

15 And my concern is no of this was in their
16 environmental report. They omitted it. And so, at
17 the very least, please make them supply all of the facts
18 in this case. Thank you.

19 MR. BURTON: Thank you, Laura. And again,
20 if anyone has any material that they want to submit
21 in hard copy, please leave it with any of the NRC Staff
22 and it will be on the record.

23 Next is Karen Aronowitz. I hope I'm
24 pronouncing that correctly, followed by Barry White

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1 and then Laura Sue Wilansky.

2 MS. ARONOWITZ: Good afternoon to all you.

3 I'm Karen Aronowitz, a member of their public and
4 deeply concerned about this application for an
5 extension on the renewal of the nuclear power plant
6 as currently operated.

7 I would like to bring your attention to
8 the Fukushima accident of March 11th, 2011 in Japan
9 where there was an earthquake. I understand we're not
10 subject to earthquakes yet, but there was a tsunami.

11 And we have to consider the fact that we
12 are in hurricane area. And many times, they are water
13 events. So, there could be such a degree of water from
14 a hurricane, including a tsunami or tidal wave, that
15 it would overflow the cooling canals.

16 I don't understand, and I guess I'm going
17 to just ask a series of questions and then I'll be seated
18 because people have much better science than I'm able
19 to even express to you right at this moment.

20 But I don't understand why we would allow
21 a continuation of a system that has been shown to be
22 environmentally damaging and antiquated. Why wouldn't
23 FPL be required to update their plant to include the
24 cooling towers that many have spoken about, in order

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1 to continue their operations?

2 Secondly, why or what plans does FP&L have
3 to decommission the plant should anything happen that
4 would not allow it to continue its operation, including
5 destruction of environmentally sensitive waters for
6 this area?

7 So, they need to have in place also, plans
8 for a different location or a different aspect of
9 running a nuclear power plant, not in its current
10 location. And I don't see anything that shows FP&L,
11 that they have to keep up with, first off, the science
12 connected with running these plants, in terms of safety,
13 and bringing their equipment to the current scientific
14 codes and standards as opposed to what was put in place
15 originally.

16 So, many of spoken now about those cooling
17 canals. The cooling canals are dangerous and
18 destructive on so many levels. But please consider
19 where we are and the fact that there can be a hurricane
20 that would overflow those cooling canals to such an
21 extent that you would be forced to decommission the
22 plant.

23 I don't understand how FP&L, which provides
24 me with a great deal of service, and I'm appreciative

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1 of it, does not look to the future in terms of its
2 systems.

3 Because they have tried to sell us on
4 burning coal tar for a source of energy, they have looked
5 to our nuclear plant, and I'm not even opposed to nuclear
6 energy, but I do think that it must be operating at
7 the current standards of systems, not at a system that
8 is already out of date. There is no other system of
9 nuclear production that uses cooling canals.

10 Thank you all for your attention. Thank
11 you to my FP&L brothers and sisters, especially those
12 of you who are Union. And I want to thank everybody
13 who has shown up from the public to speak on this issue.

14 MR. BURTON: Thank you, Karen. Next,
15 we'll have Barry White. Those of us of a certain age
16 know another Barry White. Laura Sue Wilansky, and then
17 Rhonda Roff.

18 MR. WHITE: Good afternoon. My name is
19 Barry J. White, I'm the president of CASE, Citizens
20 Allied for Safe Energy, a for and not for profit
21 corporation. Welcome to South Florida and thank you
22 for providing your support.

23 CASE is not challenging the basic
24 operational safety of the present Nuclear Reactors 3

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1 and 4 at Turkey Point. They're complex operations of
2 technological marvel.

3 But the members of CASE and the many local
4 citizens who come here today, and those who could not
5 make it or challenging it, is the unconscionable notion
6 that the disastrous and harmful impact of the operation
7 of those reactors on the ecology of the area, might
8 continue for another 20 years.

9 The ill-conceived dysfunctional cooling
10 canal system in Turkey Point has wreaked havoc spilling
11 over 600,000 gallons of hypersaline and toxic chemical
12 laden water into Biscayne Aquifer every day. It has,
13 and is, polluting the aquifer for many miles around
14 with saltwater intruding over four miles westward,
15 forcing the closure of public and private freshwater
16 wells and impacting the sole freshwater source of the
17 entire Florida Keys. We've had to resort to expensive
18 desalinization.

19 The canal system is classified by the State
20 of Florida as an industrial waste facility and it fully
21 deserves that title by receiving every manner of toxic
22 waste from the reactors, including harsh cleaning
23 chemicals, radioactive tritium, cesium and
24 strontium-90, which is all discharged into the aquifer.

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1 October 2nd, 2015, Miami-Dade County
2 issued a notice of violation to FPL for polluting the
3 area outside the canals. To date, FPL has not fully
4 complied with the subsequent consent decree.

5 The pollution, while mitigated in some
6 aspects, basically continues unabated. Ammonia from
7 dying cyanobacteria is killing seagrass, even its
8 roots, and mangroves. Crocodiles have abandoned the
9 canals.

10 Current fixes include injecting
11 hypersaline water into the Floridan aquifer 3,000 feet,
12 with potentially drastic impact on the 4,000 square
13 mile water source for six million people, without fully
14 analyzing the nature of the water being injected.
15 Toxic chemicals in the canals are also, and the
16 hypersaline water being injected.

17 Ironically, the almost 6,000 acre canal
18 system was built because the initial operation of the
19 reactors killed 500 acres of seagrass. Now the canals
20 are killing seagrass and mangroves wholesale for miles
21 around, including Biscayne Bay.

22 A main breeding ground for the \$20 billion
23 annually commercial and recreational fishing industry.
24 And situated on originally pristine everglades

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1 wetlands between two national parks. The canals are
2 unbelievably harmful and destructive to them.

3 In several petitions to intervene before
4 the NRC, our organization challenged many aspects of
5 the present and possible future operations at Turkey
6 Point to no avail.

7 For example, we held a timely emergency
8 evacuation of homesteads in the Florida Keys was
9 impossible. The common safety licensing board and the
10 NRC's house judiciary body rejected our contention.

11 Recent experience with hurricane Irma
12 proved beyond any possible doubt that we were right.

13 Timely emergency evacuation of the area is impossible.

14 Should a major nuclear event occur, our citizens and
15 FPL employees can fry in place.

16 Cooling canal system was an experiment.
17 It failed. If in 46 years FPL has not shown that it
18 can operate the cooling canals without catastrophic
19 impact on the environment, licensors for another 20
20 years must require that FPL employ another cooling
21 method.

22 The cooling canals started failing the day
23 they began operation and have continued to be an insult
24 to the land and to the citizens of the area in many

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1 unimagined and unanticipated ways. To even consider
2 the continued imposition of the Turkey Point canal
3 system on the land and our citizens for another 20 years
4 defies credulity and smirches the concept of
5 responsible and responsive governance.

6 Please do not approve the canal system for
7 another 20 years.

8 I want to tell you a story. People I assume
9 flew in for a few days and you're here. I've lived
10 here since 1969. Always within 25 miles of the canal.
11 Of the reactors.

12 Thursday before Irma hit on September 10th,
13 at sundown, which happens to be the technical, the
14 actual peak historically of the hurricane season.
15 September 10th.

16 Thursday before in the morning, put up all
17 the shutters, brought in the plants. And by 2 o'clock
18 I'm looking, and we're looking at a Category 5 hurricane
19 heading directly for us. No doubt about it.

20 The weather services, that was it. I said
21 to them, I'm like you know, Turkey Point has never had
22 a Cat 5 hurricane, despite what they say in their
23 literature.

24 Andrew was in '92, was a Cat 3. Was a Cat

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1 5. But at Turkey Point, the storm surge was four feet.
2 That's not from a Cat 5 hurricane. And there were
3 no winds reported there at the Cat 5 level.

4 The big surge took part, took place like
5 15 miles to the North, in downtown Miami. So I knew,
6 and I've known from the filings that I have done, Turkey
7 Point cannot take a Cat 5 hurricane. Forget it, it's
8 not going to happen.

9 I looked at my wife and I said, you know
10 what, I think my brother in New Orleans needs some
11 company. And we joined two million people driving out
12 of here. Because I knew that Cat 5 hurricane coming
13 here, I didn't want to be another Fukushima powder,
14 because that's what would happen.

15 And by the way, following Fukushima the
16 NRC said, we're going to do a two-step review. We're
17 going to review the safety aspects of lessons from
18 Fukushima and then we're going to look at the ancillary
19 implications. That second review never happened.

20 We've never gone back and evaluated
21 Fukushima from the implications other than the
22 functional, physical side of it. The ancillary
23 implications for it were never evaluated, to my
24 knowledge.

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1 Thank you for your time, do the right thing.

2 MR. BURTON: Okay, thank you, Barry. Next
3 we have Laura Sue Wilansky followed by Rhonda Roff and
4 then Albert Gomez.

5 MS. WILANSKY: Thank you very much for the
6 opportunity to speak today. I'm Laura Sue Wilansky.

7 I live two counties away, it took me a long
8 time to get here just to say this is how important it
9 is to me to be here today. I'm a private citizen not
10 representing any organization or employer.

11 In the interest of time, I'm going to
12 condense some of my introductory remarks, some of the
13 things that have been addressed already. The extreme
14 environmental damage done by the Fukushima accident
15 and the overall danger to the environment are the use
16 of nuclear energy.

17 I really want to focus today on the issue
18 of sea level rise. I think the information that I have
19 to present is going to, not repeat, but augment some
20 of the other things that have been said, especially
21 by Kelly Cox from Miami Waterkeeper's.

22 It's completely obvious and undeniable to
23 those of us who live here in South Florida that sea
24 level rise is happening, is increasing and is already

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1 effecting our area.

2 I want to share with you some of the most
3 relevant conclusions from the unified sea level rise
4 projection for Southeast Florida. Which is a 35 page
5 document that was published in October 2015 at the
6 Southeast Florida Regional Climate Change Compact.

7 And I quote, "this unified sea level rise
8 projection for Southeast Florida projects the
9 anticipated range of sea level rise for the region,
10 from 1992 to 2100." The projection highlights three
11 planning horizons and these figures are all above 1992
12 mean sea level.

13 Short-term by 2030, sea level rise is
14 projected to rise six to ten inches. Medium-term by
15 2060, sea level rise is projected to rise 14 to 34
16 inches. Long-term, by 2100, sea level is projected
17 to rise 31 to 81 inches.

18 Forward thinking risk management is
19 critical to avoiding loss of service, loss of asset
20 value and most importantly, loss of life or
21 irrecoverable resources. An understanding of the
22 risks that critical infrastructure will be exposed to
23 throughout its life cycle, such as sea level inundation,
24 storm surge and nuisance flooding, must be established

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1 early on in the conceptual phase. Too late for that.

2 If incremental adaptation is not possible
3 for the infrastructure proposed, then inundation is
4 likely designing to accommodate the projected sea level
5 rise of inception, or selection of an alternative site
6 should be considered.

7 Projects in need of a greater factor of
8 safety related to potential inundation, should consider
9 designing for the upper limits. Examples of such
10 projects may include evacuation routes, plan for
11 reconstruction, communications and energy
12 infrastructure and critical government and financial
13 facilities.

14 Due to the community's fundamental
15 reliance on major infrastructure, existing and proposed
16 critical infrastructure should be evaluated using the
17 upper curve of the projection.

18 Critical projects include those, or
19 projects which are not easily replaceable or removable,
20 have a long design life more than 50 years or are
21 interdependent with other infrastructure or services.

22 The failure of the critical infrastructure
23 would have catastrophic impacts, it is considered to
24 be high risk. Due to the community's critical reliance

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1 on major infrastructure, existing and proposed high
2 risk infrastructure should be evaluated using the upper
3 curve of the projection.

4 Examples of high risk critical
5 infrastructure include nuclear power plants.

6 Sea level will continue to rise even if
7 the local mitigation efforts to reduce greenhouse gas
8 emissions are successful at stabilizing or reducing
9 atmospheric concentrations. Or Co2.

10 And, I will submit this to, into the record.

11 There's more comments, but I just want to emphasize
12 that we're talking about an 81 inch rise in sea level.

13 And honestly, based on the acceleration of all of the
14 factors that this is based on, that's probably
15 conservative.

16 If sea level rises another 81 inches, how
17 high is storm surge going to be during hurricanes.
18 And who is going to be living here at that time to
19 maintain these plants.

20 So I invite you to picture the water lapping
21 around and overcoming these plants, the nuclear waste,
22 the cooling canals, all of this that has been mentioned.

23 This is not a fantasy, this is a realistic scenario.

24 There is no way to guarantee that the deadly

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1 dangerous materials used in nuclear plants can be kept
2 out of the environment.

3 This is not the time to be re-licensing
4 this plant for another 20 years, now is the time to
5 think about what can and should be done to keep all
6 of the deadly dangerous toxic material out of the
7 environment. Because re-licensed or not, this plant
8 and its nuclear waste are going to be sitting right
9 there, by the ocean, when the sea level rise occurs.

10 Therefore, I strongly urge you to say no
11 to the re-licensing the nuclear plants at Turkey Point.

12 Thank you very much.

13 MR. BURTON: Okay. Thank you, Laura.
14 Just so you know, it looks like we're going to go a
15 little over 3:00. We have seven or eight speakers left,
16 so we'll try to move through and get those.

17 Next is going to be Rhonda Roff followed
18 by Albert Gomez and then Orpha Harper.

19 MS. ROFF: Thank you so much for everybody
20 coming out today. My name is Rhonda Roff, I live in
21 Broward County.

22 And I am a chemist by training. I've done
23 environmental monitoring, water, air, soil, hazardous
24 waste professionally. But that isn't really what I

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1 want to talk about today.

2 I'm a mom and there's a quote that I use
3 as the tag line for my email. It's in Upton Sinclair.

4 It says that, "it is very difficult to get a man to
5 understand something if his salary depends on him not
6 understanding it."

7 And, with all due to respect for FPL, their
8 employees, NRC Staff, 95 percent of NRC's budget, I
9 believe, comes from the industry that you regulate.
10 And I think that, that sets a little bit of a tone in
11 terms of our motivation for approving and not.

12 Within that you exist as a safety culture,
13 you exist to keep people and the environment safe.
14 It says it right at the bottom of your logo. Protecting
15 people and the environment.

16 The safety oversight is constant with
17 relentless and we're very grateful for that. But it
18 belies the fact that nuclear energy is a very dangerous
19 business.

20 And it is odd, I find, that the safety
21 review happens separately, and even after, time wise,
22 from the environmental review. Because it's the
23 environmental impact, consequences to the environment
24 and human health that the safety review is trying to

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1 prevent harm, right. That was a really bad sentence.

2 So, nuclear power is dangerous, it's
3 costly. We know that, it's very costly. It's one of
4 the reasons that Florida Power and Light chooses to
5 use that as a main focus for future power generation
6 because it's an unregulated cost that they can, under
7 Florida's regulated utility business, can recover their
8 costs in advance under early cost recovery.

9 So it's a good, good business for them.
10 We understand that. And we understand that they're
11 a very good employer and they're very good for
12 employees, I'm sure their shareholders. So we
13 understand the goals and motivates for wanting to do
14 this.

15 But as well as being costly, it's
16 polluting. And I won't repeat all of the groundwater
17 contamination, tritium, the bay, the aquifer, any of
18 those considerations.

19 But please recognize that all of these
20 casts the unsustainability and the dangers will be
21 exasperated under a moving target, with the
22 uncertainties of climate change and the uncertainty
23 of the structural integrity of the aging parts. We
24 don't have any experience with 80-year-old reactors.

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1 Oh, maybe you do. I heard that we don't.

2 But, I think that we've seen dangers, we've
3 seen accidents happen. We've seen cracks at Crystal
4 River, we've seen Three Mile Island. We've seen things
5 happen that are a result of aging or a failing parts.

6 So, I think that climate change and the
7 aging parts both form a moving target that adds an
8 uncertainty and adds an extra danger to the costs and
9 to the dangers.

10 My daughter is 15, and I was thinking about,
11 as the EIS is required to consider the issues of health,
12 historic, cultural, geologic, water, I was thinking
13 that maybe we need to, if it doesn't already, go a
14 certain number of generations.

15 Our children live in a world where they
16 don't have any leadership, they don't have a way that
17 they do things. So, when they have to make a decision
18 of whether they go this way or that way when they hit
19 the fork in the road, there is no stress on them for
20 change. But change does not cause stress because they
21 aren't changing.

22 My daughter is one of the eight few in the
23 climate lawsuit against the State of Florida right now.

24 And while so many people are in denial over climate

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1 change because it's very stressful, because we have
2 to change, we have to go back and re-tool and put solar
3 panels on houses, put windmills out in the ocean, kids
4 don't feel that way.

5 Kids don't have to change because they
6 don't have already their habits established. So, why
7 don't you look at the world from their perspective and
8 take this safe route that they would perceive to be
9 the smart thing if only for their futures. Thank you.

10 MR. BURTON: Okay, thank you, Rhonda.
11 Because of the limited time left, I'm going to ask the
12 remaining speakers to try and limit their comments to
13 no more than two minutes, if possible.

14 Yes. Albert Gomez followed by Orpha
15 Harper and then Bob Bertelson.

16 MR. GOMEZ: I'm versed in photo quality
17 management and I represent manufacturers in ISO
18 certified different levels, ISO 1345, 1900, AS9100,
19 I'm a supplier, indirect supplier FPL, both for nuclear
20 and for solar.

21 I am also a local advocate. I am a
22 cofounder of the Miami Climate Alliance. I recognize
23 a lot of the NRC folk, I recognize some of the FPL folk,
24 even their committee relations manager, which

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1 unfortunately left.

2 This is a very interesting dynamic for me
3 because I find myself in a very similar situation then
4 the NRC finds themselves in, in that you do get your
5 funds from, a large portion of it from the industry.

6 And you are the nuclear regulatory commission.

7 So, you're not regulating the sun
8 necessarily, but you are regulating nuclear power.
9 And that's a difficult predicament to be in, in any
10 given case for whatever industry you're in. It's who
11 you're regulating it to, financing.

12 And regardless of your stance on nuclear
13 per say, there is, you guys are required to follow
14 protocol in management standards. I believe it's in
15 one of your protocols.

16 And I've been trained on operational
17 excellence and continuous improvement. And frankly
18 I have not seen that at Turkey Point.

19 I understand the value of jobs, I create
20 jobs every day. And I support, like I said, suppling,
21 I've been to many supply events for Turkey Point, and
22 I've had buyers tell me, just get me pumps, as many
23 pumps as you can find. Because they know their issue.

24 There's scarcity in certain things that

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1 if they fail, the plant would fail. With that point,
2 the point earlier that was made that safety is somewhat
3 disjointed, there is a hierarchy there. And failure
4 and safety would drive other environmental impacts that
5 should be considered.

6 Like the vessel metallurgy, things of that
7 nature. Things that have to be addressed in an
8 intersectional way, not just separated.

9 Furthermore, I'm on the Sea Level Rise
10 Committee for the City of Miami. I'm speaking as a
11 citizen here.

12 But the compact compels us to adhere to
13 the sea level rise standards that are registered under
14 Miami-Dade County, under the state, under NOAA. And
15 it's a little disheartening to see that they're
16 referencing NOAA tidal gauges for their sea level rise
17 standards in this application when NOAA is clearly
18 stating a much higher sea level rise.

19 That discrepancy needs to be reconciled
20 in how it applies to the data that's submitted within
21 their application.

22 Also, some comments were made about solar
23 panels not being able to handle the five, a Category
24 5. Actually, I supply a lot FPL's solar panel

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1 components. And Cat 5 solar panel components and
2 systems are available.

3 I am going to present a formal written
4 document and submit it before the deadline.
5 Conservatism aside, I would say that your, the
6 commonsense approach to common defense, which is your
7 core directive, should be considerate to the changing
8 dynamics of the natural hazards.

9 You guys are required now to implement the
10 POANHI, I believe, in any review. And the ongoing
11 hazards and the lack of accurate information included
12 in this application is, I don't want to call it a poor,
13 it's a negative statement, I want to call it, it doesn't
14 meet the requirement for the cause. The cause is to
15 get this reactor renewed.

16 And your regulatory initiative is
17 required, tasked to that. So I'd ask you to please
18 review that. There are too many discrepancies in this
19 application.

20 Obviously best practices, which you are
21 also required to implement, would require them to a
22 close-loop system.

23 MR. BURTON: I'm sorry, Albert --

24 MR. GOMEZ: I understand.

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1 MR. BURTON: -- I don't mean to cut you
2 off.

3 MR. GOMEZ: I understand.

4 MR. BURTON: We want to be fair to other
5 speakers.

6 MR. GOMEZ: Yes, I understand. I
7 understand. There are a variety of different things
8 that I would like you to address.

9 I know that we can have an ongoing
10 conversation about this. I look for that and I will
11 be submitting documents. And if you have any questions
12 whatsoever on those documents, please, by all means,
13 please contact me. Thank you.

14 MR. BURTON: Great, thank you. Next is
15 going to be Orpha Harper followed by Bob Bertelson and
16 then Tiffany Grantham.

17 MS. HARPER: Good afternoon, my name is
18 Orpha Harper and I work for FPL. And I'm also a member
19 of the IBEW, which stands for International Brotherhood
20 of Electrical Workers.

21 I've been with FPL for 13 years as an
22 electrician. My husband also works in Turkey Point
23 as a chemist.

24 I reside in the wetlands area, I'm also

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1 a beekeeper and a lover of nature. With that being
2 said, yes, I love the environment and I'm constantly,
3 with our own workers, rescuing ever little animal that
4 is left by their mom in our area.

5 I employ you to please extend our license.

6 Not just for me to be able to retire at a place that
7 I enjoy working, but also for those that are going to
8 follow us.

9 All those nuclear students that are looking
10 to improve their knowledge, because there is so much
11 to learn. There is so much to learn there.

12 And I want, also to those that are worried
13 about hurricanes, where they weren't prepared for four
14 or five, Category 4 or 5, I ask you to come in, I invite
15 you to come and have a tour. We give tours. And you'll
16 see how prepared we are for these hurricanes. You'll
17 be surprised.

18 And also, constructing the cooling towers
19 does nothing to improve our conditions at all, it just
20 increase the taxpayers to pay more.

21 So, again, why trust us? Because our main
22 concern is not only our safety, but the safety of the
23 public. Thank you so much.

24 MR. BURTON: All right, thank you, Orpha.

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1 Next is Bob Bertelson followed by Tiffany Grantham
2 and then Patricia Mann.

3 MR. BERTELSON: Good afternoon. My name
4 is Bob Bertelson, I work for the company. I work, I'm
5 the land utilization supervisor so I manage all the
6 activities that are outside the protected area,
7 including the cooling canal system and protected
8 species.

9 We've heard a lot of information,
10 questions, comments, concerns. I welcome that. I
11 believe in science. I'm part of the scientific world.

12 I also believe in process.

13 But I don't want to talk about the things
14 that we've already talked about, what I really want
15 to do is share 38 years of employment out at Turkey
16 Point.

17 FPL has had a history of environmental
18 stewardship. Back when I was a child, the vision of
19 our president, McGregor Smith, was an interactive
20 communal retreat at Turkey Point, not only fossil and
21 nuclear energy, but deer and duck pond, Boy Scout, Girl
22 Scout camps. We welcome the community out to Turkey
23 Point, still do. I go to outreach programs to talk
24 about protected species.

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1 So, one of the things that we're most proud
2 of at the plant is the crocodile conservation effort.

3 Back when I started working for the conversation
4 program in '96, the story goes, that the civil engineer
5 maintaining thermal efficiency had to have the berms
6 cleared off.

7 The biologist for the crocodile program
8 needed some of the vegetation, such as buttonwood and
9 mangroves, for protection of the babies. So they kind
10 of fought over that because it was a conflict of
11 interest.

12 Well, when the heavy equipment operators
13 started knocking over invasive exotics, such as
14 Australian pines, in the summertime it leaves a root
15 ball in the muck. And overnight it rains, and the next
16 morning when he fires up that equipment, little heads
17 pop out of that little pond, freshwater pond that was
18 created.

19 And so, the biologist and the civil
20 engineers say hey, if you build it, they'll come. So,
21 we started creating crocodile habitat digging
22 freshwater ponds. And doing it in such a manner that
23 was away from the plant.

24 And so at that time, we had 40, in 1996,

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1 we had 40 adult, sub-adult, populations at the plant.

2 When we started creating that habitat, the numbers
3 went up tenfold in ten years. And in 2006 the state
4 down listed the species from endangered to threatened.

5 And today the crocodiles continue. As well as the
6 lease terms.

7 We continue to eradicate invasive exotics
8 which is found in Florida. And we love to talk about
9 more the good environmental stewardship that we have,
10 but I'm being told I'm done.

11 But, one rule that I've always lived by
12 is that, if you love what you do, you never work one
13 day in your life. I've had the honor and privilege
14 for working for the company for 38 years doing just
15 that. Thank you for your time.

16 MR. BURTON: All right, thank you, Bob.
17 We have four more speakers. Tiffany Grantham followed
18 by Patrician Mann and then Matt Schwartz.

19 MS. GRANTHAM: Good afternoon, my name is
20 Tiffany Grantham, I'm with the Broward Chapter
21 Democratic Parties, the Environmental Caucus of
22 Florida.

23 I am so impressed with what I have heard
24 today from these people that care so much about our

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1 environment and of course the people who live here.
2 I want to thank, because I know we're not going to take
3 too much time, I want to thank the Miami Waterkeepers,
4 the Biscayne National Park, the Monroe County
5 Commission, the Audubon Society, the Southern Alliance
6 for Clean Energy.

7 These are people that, and I can go on,
8 the individuals who spoke so well. These are people
9 that you have to listen to.

10 I've learned so much in this hour I can't
11 even believe it. I worked for the Miami Harold for
12 25 years also, I'm retired, but I believe that the storm
13 surge was 18 feet with Hurricane Andrew. Just one more
14 little fact up the road.

15 You've got to listen. You have to have
16 learned as much as I have, if not more. And with all
17 the written material too.

18 This is so important. We don't know what
19 the future is going to be and I just want to thank you
20 so much for letting all these people speak.

21 MR. BURTON: Okay, thank you, Tiffany.
22 All right, next is Patricia Mann followed by Matt
23 Schwartz. And then our final speaker, Zach Cosner.

24 MS. MANN: Hello everyone, my name is

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1 Patricia Mann. I am here supporting Turkey Point's
2 renewal of the license.

3 We are, at Turkey Point, we're committed
4 to safety. That's the number one thing. So everybody
5 knows that. It's your safety, our safety, the
6 environment, everything.

7 We are a great community. We treat each
8 other as family. And for this reason, we really look
9 at everything from the inside. We look at the
10 environment.

11 Every little detail that would harm any
12 of us or the environment we look at, we bring it up.
13 They listen to us, you know. When we mention things
14 that are not right they listen.

15 Some of us are also residents, or former
16 residents, of homestead. Therefore, we know, we get
17 information about the water.

18 In their website, they say we use 300
19 million gallons of water from the aquifer of Biscayne.

20 And there are 210,000 samples that every year exceed
21 the state and federal drinking water samples.

22 Now, talking about the global warming,
23 there was a New York Times article that mentioned that
24 after signing off the nuclear closed back in 2013, the

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1 carbon emissions increased 24 percent.

2 And then I want to say a personal note,
3 is that I met my husband, sitting right there, at Turkey
4 Point. So there is, we're not the only ones there,
5 there is many of us that have families there, we have
6 children.

7 And at some point, all of us are there in
8 the site. Because there's a child care service. So,
9 it's in our own interest that the water, the air,
10 everything that's around us, is clean.

11 And I want to say that, as the people have
12 mentioned, Hurricane Irma. We spent two weeks
13 preparing, or more, as well as our homes. Some of us
14 spent Friday here riding the storm.

15 And I'm very proud to work for this company
16 because I could see the preparation and the interest
17 that we have for safety. Thank you.

18 MR. BURTON: Thank you. Next, we have
19 Matt Schwartz, Zach Cosner --

20 (Off microphone comment)

21 PARTICIPANT: Your microphone is off.

22 MR. BURTON: Oh.

23 MR. SCHWARTZ: Good afternoon, I'm Matthew
24 Schwartz, I'm the director of the South Florida Wildlife

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1 Association. I've addressed you folks many, many times
2 on many issues regarding this facility at Turkey Point.

3 I just went outside and I felt this warm,
4 wet, humid breeze. We're back in the season. We just
5 had a hurricane, not a hurricane, a little tropical
6 disturbance Alberto come through, killed several people
7 in the panhandle.

8 I want to read from your own report on the
9 onsite damage to Turkey Point from Hurricane Andrew
10 back in '92. This is your report.

11 The onsite damage included loss of all
12 onsite power for more than five days, complete loss
13 of communication systems, closing off of the access
14 road, one access road, and damages to the fire
15 protection and security systems in warehouse
16 facilities.

17 There was also a tower smoke stack at the
18 plant. One of the fossil fuel plants that were there
19 that was damaged. It ultimately had to come down.

20 It could have fallen on the backup
21 generators. And those backup generators are what
22 separated Turkey Point from Fukushima. And you know
23 that.

24 You know what happened to Fukushima, that

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1 it wasn't the tsunami that destroyed and caused the
2 meltdown at Fukushima, it was the lack of the
3 electricity, the damage to the onsite generators that
4 were necessary to pump that water to the reactor core
5 and the spent fuel rods. And we had a disaster. And
6 now you got a no man's land around Fukushima.

7 That easily, easily, could have been Turkey
8 Point. It didn't happen. We dodged a bullet, we got
9 lucky.

10 Let's talk a little bit about what happened
11 in the fall. And I guess I only have one copy of this,
12 but this was the trajectory, I'm going to hold it up,
13 this was the trajectory of Irma when it was East of
14 San Juan Puerto Rico.

15 And here it is threading a needle between
16 the Bahamas and Cuba, coming at a Cat 5. And here it
17 is, direct ten on Turkey Point.

18 Let's look at the size difference between
19 Irma and Andrew. More than four times the diameter,
20 way more times destructive power. The storm surge
21 would have been tremendous.

22 Take a look at Turkey Point on Google Earth
23 and look at all the pipes, the fittings. You guys put
24 in new regulations after Fukushima.

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1 What happened at St. Lucie when they had
2 seven inches of rain fall in a five hour period? You
3 had a flooded auxiliary building. You were supposed
4 to check all those seals.

5 And FP&L said, those buildings are sealed.
6 You okayed it, they okayed it. Guess what happened?
7 That building flooded with 50,000 gallons of water.

8 I don't have a lot of time right now to
9 talk about this in detail. I want to mention, I'm
10 getting a one minute warning.

11 Here are some of the cars that were around
12 in 1972. Chevy Vega, AMC Gremlin, Ford Pinto. These
13 were the cars that people were driving in 1972.

14 Does the NRC create a plaque, an antique
15 plaque, for nuclear plants like the Florida Department
16 of Motor Vehicles does? They don't.

17 We are vigorously asking you not to extend
18 the lifetime of this plant. Hurricanes are getting
19 bigger, stronger, wetter. We know that's happening.

20 Sea level rise is surely going to inundate
21 these cooling canals, which are six inches above sea
22 level. There is no lower part of Biscayne, not only
23 the Biscayne shoreline but Miami-Dade County where
24 these cooling towers are.

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1 The cooling plants or cooling canals are
2 going to be part of Biscayne Bay very, very soon. And
3 everything that's in them.

4 There is no reason to extend the lifetime
5 of this plant. We expect you to spend that time working
6 with FP&L on decommissioning. Thank you.

7 MR. BURTON: Okay, thank you, Matt. Next,
8 we have Zach Cosner. And we had lost one speaker, part
9 for one speaker, so our last speaker will be Pat Milone.

10 MR. COSNER: Hello there, my name is Zach
11 Cosner, I am a lifelong resident in Miami-Dade County
12 and a recent graduate at the University of Miami.

13 Turkey Point Nuclear Power Plant provided
14 the power to my childhood home. I am not here to urge
15 the decommissioning of this plant rather I'm here to
16 urge that the NRC apply a purely appropriate level of
17 scrutiny to the many previous assumptions and highly
18 questionable projections that FPL has included in their
19 environmental report, and their analyses.

20 First, is the assumption FPL will be able
21 to cure the deal to perceive 60 million gallons of
22 treated waste from the cost sharing agreement between
23 Miami-Dade County and Florida Power and Light. First,
24 it's important to consider that even though this deal

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1 is in discussion, it's contingent upon FPL showing
2 capacity to withdraw the plume and make significant
3 progress towards withdrawing the plume within a year's
4 time.

5 There's ample reasons to suggest that this
6 task is impossible, that FPL will not be able to withdraw
7 the plume and that this deal is completely up in the
8 air. Therefore it's appropriate to consider that this
9 is not necessarily something that is set in stone.

10 Second is the assumption that FPL will be
11 able to restore and maintain the pre-2010 seagrass beds
12 in the cooling canal system. Even though rising
13 instance of drought, resulting from climate change,
14 will make this task even less tenable than in the past.

15 We've seen the die out of seagrass already,
16 we know that it's happening, and it happens because
17 of drought. Well, one of the major impacts that climate
18 change will have is increased flooding and increased
19 drought periods.

20 So if it's already happened, what's to say
21 that they'll be able to maintain a healthy seagrass
22 bed as it becomes more and more unreliable to do so.

23 It's important to consider that even more
24 uprates are being considered, this likelihood becomes

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1 even more untenable.

2 The cooling canal system out to the
3 seagrass bed is a completely different system than the
4 one you evaluated in 2002. It does not function in
5 the same way at all.

6 I spent a lot of time on Google Earth.
7 You have to go back into 2011 to find a satellite image
8 that is not neon green of the cooling canal system.
9 As it currently exists, it is not a coherent ecosystem,
10 it is a chemical soup that is leaking into the bay.

11 And finally, the third and most egregious
12 faulty projecting that FPL has relied upon, is their
13 analysis relating to climate change. We've already
14 touched upon the sea level rise issue, however, one
15 other thing that FPL fails to mention in their
16 environmental report, is the instance of ever more
17 powerful storms.

18 Now, one of the influences of climate
19 change is to create possibly fewer storms, but far more
20 powerful ones. As has been stated before, FPL has,
21 or Turkey Point has never been directly impacted by
22 a Category 5, but we're entering on the age of the
23 Category 6 hurricane, and FPL is completely silent on
24 the susceptibility of the plant to the influences of

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1 such storms.

2 Finally, as a brief aside, I'd also like
3 to urge the NRC to consider the Biscayne Bay Coastal
4 Wetlands project, which was not in place, was not
5 authorized by Congress during 2002 as the colossal
6 competing interests with the water input for the cooling
7 canal system and it deserves to be considered in your
8 evaluation. Thank you.

9 MR. BURTON: All right, thank you. All
10 right, our last speak is Ms. Pat Milone.

11 MS. MILONE: Hi. I live in Redland
12 nearby. I wanted to make sure that people knew that
13 Turkey Point and myself, we both have a couple of things
14 in common. We have a lot of energy and we have a lot
15 of aging parts.

16 By the time this, in 2033 when this current
17 property license expires, we'll both be pushing 100.

18 If FPL had the type of competition that social media
19 providers have, we'd be looking at a whole different
20 scenario here.

21 I strongly believe, I'm very disheartened
22 by one of the comments that the FPL representative
23 mentioned was that they are fulfilling the standards
24 of our federal government, when in fact our federal

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1 government is failing us daily in the amount of
2 pesticides in our food and water. The increased number
3 of cancers related to that, autism rises, which I
4 consider a direct result of that.

5 And I live on a freshwater well. One of
6 the reasons I'm still here in Redland, Florida is save
7 agriculture and also because I have clean freshwater.

8 I don't rely on city water.

9 To go to the beech now, I have to check
10 Florida Health Beeches, their website, to make sure
11 that from Virginia Key to John Pennekamp in Key Largo,
12 that there's not contamination and the beech is not
13 closed. I have gone to the beech without checking it
14 and all of a sudden, they say, well, we don't recommend
15 that you swim.

16 Turkey Point, the exposé from the Harold
17 was how I found out about the Biscayne Bay pollution.

18 And the Westward, towards my home, desalination
19 problem.

20 The only people that I've heard information
21 about that on is from the Mining Harold Sierra Club
22 and Audubon and other water agencies that are like food
23 and water watch.

24 So, I highly recommend that you deny this

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1 application. They have had plenty of time to come up
2 with solutions and remedy it more aggressively than
3 they have.

4 I don't feel that they're putting our
5 welfare ahead of their investors. I feel that they
6 should be more much more aggressive in the cleanup
7 process now that it's been exposed. Not from them,
8 but from the Mining Harold and other agencies.

9 And is that it for me or do I have one more
10 minute? Okay.

11 So, again, I think that I'm not reassured
12 at all by the government agencies. The EPA is not
13 protecting us. I'm hoping that your agency will
14 really, really look out for us.

15 Because my house was in the eye of Hurricane
16 Andrew, in the eye. The only reason that my house is
17 still standing probably, is because Andrew went through
18 at 18 miles an hour, did not rest over us like some
19 other hurricanes do.

20 So please be considerate of both of our
21 ages, the Turkey Point, and somehow making it hurricane
22 resistant and definitely cleaning up the act that they
23 have perpetrated. I mean, again, this is moving my
24 way too, not just the bay, it's moving west.

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1 And agricultural relies on freshwater and
2 so do I. And everybody else around here. Thank you.

3 MR. BURTON: Okay, thank you, Pat, I
4 appreciate it. Okay, we had 25 speakers today, we
5 really appreciate it.

6 I know we rushed some of the last few but
7 I really want to encourage you, if you didn't get all
8 of our comments out here, please make sure you submit
9 them for the record. Information on how you can submit
10 the comments are on the screen above.

11 And then we'll ask George Wilson to close.

12 MR. WILSON: Thanks, Butch. I'm George
13 Wilson, I'm the director of division of materials and
14 license from NRC. I want to thank you for attending
15 the scoping and screening meeting for Turkey Point 3
16 and 4 license renewal.

17 I greatly appreciate the comments that we
18 received from you during this meeting. The comments
19 included issues with the cooling canal system effects
20 on potable water and Biscayne Bay, climate change, sea
21 level rise and storm surge and radioactive waste
22 storage.

23 My staff will independently and fully
24 evaluate these issues during their environmental

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1 review. With that, I conclude this meeting. And once
2 again, thank you for attending.

3 (Whereupon, the above-entitled matter went
4 off the record at 3:28 p.m.)

5

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Public Scoping Meeting for the Environmental Review of the Subsequent License Renewal Application for Turkey Point Nuclear Plants Units 3 and 4 - Session 1

Docket Number: (n/a)

Location: Homestead, Florida

Date: Thursday, May 31, 2018

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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

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PUBLIC MEETING

+ + + + +

PUBLIC SCOPING MEETING FOR THE ENVIRONMENTAL REVIEW
OF THE SUBSEQUENT LICENSE RENEWAL APPLICATION FOR
TURKEY POINT NUCLEAR PLANTS UNITS 3 AND 4

+ + + + +

THURSDAY,

MAY 31, 2018

+ + + + +

The meeting was convened in City of
Homestead City Hall, 100 Civic Court, Homestead,
Florida 33030, at 1:00 p.m., William Burton, NRC,
facilitating.

1 NRC STAFF PRESENT:

2 WILLIAM BURTON, NRR/DMLR/MRPB

3 LOIS JAMES, NRR/DMLR/MRPB

4 MICHELLE MOSER, NRR/DMLR/MENB

5 GEORGE WILSON, NRR/DMLR

6 SCOTT BURNELL, OPA

7 EDWIN LEA, Region II

8 ARACELI BILLOCH-COLON, NRR/DMLR

9 KEVIN FOLK, NRR/DMLR, MENB

10 DARRELL ADAMS, OCA

11 BEN BEASLEY, NRR/DMLR/MENB

12 DANIEL ORR, R-II/DRP/RPB3/TPRO

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P R O C E E D I N G S

1:10 p.m.

1
2
3 MR. BURTON: Good afternoon, everyone.
4 Sorry for the delay. The acoustics are so good, I
5 don't know if I even need this, but our court reporter
6 needs it. So, my name is Butch Burton. I'm from the
7 U.S. Nuclear Regulatory Commission, or the NRC. And
8 I'm in the Office of Nuclear Reactor Regulation,
9 otherwise known as NRR.

10 I want to welcome everyone to the Public
11 Scoping Meeting for the subsequent license renewal
12 application for Turkey Point Nuclear Units 3 and 4.

13 I'm the Project Manager for the NRC
14 staff's environmental review, but today I'll be
15 serving as your facilitator for the meeting. My role
16 as facilitator is to help ensure that today's meeting
17 is informative, productive, and stays on time.

18 I know we started off a little late, but
19 we'll otherwise try and stay on time. Before we get
20 started, just wanted to take a few minutes to go over
21 some logistics. First of all, no food, beverages, no
22 smoking in the room.

23 If you have anything that beeps, talks to
24 you, rings, if you could either mute it or turn it
25 off, that would be great.

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1 To get to the restrooms, the men's room is
2 just outside the door on this side, ladies' room is
3 just outside the door on this side.

4 If we're asked to evacuate the building
5 for some reason, we will probably follow the direction
6 of the security staff who is here, and please follow
7 their direction and we'll try to keep everyone
8 together and muster outside, to make sure that we can
9 account for everyone.

10 Now, today's meeting is a Category 3
11 meeting. For those of you not familiar with the NRC's
12 meeting categories, Category 3 meeting is typically
13 held with representatives of non-government
14 organizations, private citizens or interested parties
15 or businesses or industries to fully engage them in
16 discussion.

17 These meetings provide an opportunity for
18 the NRC and the public to work directly together to
19 ensure that issues and concerns are understood and
20 considered by the NRC.

21 The objective is to provide a range of
22 views, information, concerns, and suggestions with
23 regard to regulatory issues.

24 Now, today's meeting will be transcribed.
25 So, when speaking, please use one of the handheld mics

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1 that we have here, we'll bring them to you. Please
2 identify yourself and your affiliation, if you are
3 representing an organization.

4 We also have meeting feedback forms
5 available. Hopefully, each of you grabbed one at the
6 registration table. If not, you can still get one
7 later.

8 After today's meeting, we'd like you to
9 take a few minutes to fill out the feedback form and
10 return it us, or you can go to the NRC website to
11 provide your feedback about the meeting and you can do
12 that electronically. We take your feedback seriously
13 and use it to improve future meetings.

14 For those of you who have looked at the
15 agenda, you can see that we have a lot to talk about
16 today and we're going to try very hard to stay on
17 schedule.

18 Looking at the number of participants
19 today, I think we'll be able to hear from everyone,
20 but we do want to be flexible with the time. But when
21 speaking, please be brief and concise with your
22 question or comment.

23 Although a break is not shown in the
24 agenda, if it looks like it would be good to take a
25 few minutes before we continue, we'll do that.

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1 Finally, participants are allowed to use
2 recording devices during the meeting. And though
3 you're not required to do so, we would appreciate it
4 if you would let other attendees know if you are
5 recording. So, at this point, if anyone is recording,
6 could you let me know? Anyone? Okay, seeing nothing.

7 Okay, any questions on anything I've said
8 so far? No? All right. So, let's go on and get
9 started.

10 We have a number of NRC staff here today,
11 but I do want to introduce the presenters for today's
12 meeting. First, Ms. Lois James, off here to my right,
13 who will be providing an overview of the NRC staff's
14 safety review process.

15 And Ms. Michelle Moser, who is right
16 behind her, will provide an overview of the staff's
17 environmental review process. We also have Mr. George
18 Wilson, who is the Director of our Division of
19 Materials and License Renewal, who will be providing
20 closing remarks.

21 Okay. So, I think we're about ready to
22 get started, so I'll turn it over to Lois. Lois?

23 MS. JAMES: Thank you, Butch. Good
24 afternoon, my name is Lois James and I am the Safety
25 Project Manager for the Turkey Point subsequent

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1 license renewal review.

2 Our goals today are to provide you with an
3 overview of the subsequent license renewal process,
4 both the safety and environmental reviews for the
5 Turkey Point Review.

6 Second is to get your input into what
7 environmental issues the NRC should consider in our
8 environmental review. Next slide, please.

9 The agenda for today's meeting begins with
10 the staff providing an overview for the processes,
11 what we're doing. After the presentation, attendees
12 can ask questions about the presentation and the
13 process.

14 In order to maximize the time for public
15 comment portion of the meeting, we will only be
16 addressing questions about the License Renewal process
17 in general, and then we'll leave the environmental
18 comments to the comment section.

19 The final part of the meeting is the most
20 important. It's when you provide your thoughts and
21 comments on what should be considered in the NRC
22 environmental review. Next slide, please.

23 The license renewal process proceeds in
24 two parallel reviews, the safety review and the
25 environmental review. Across the top of this slide is

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1 the environmental review and Michelle Moser will be
2 discussing that a little later.

3 Along the bottom is the safety review.
4 The safety review has two components, the staff's
5 review and the Advisory Committee on Reactor
6 Safeguards. Both do an independent review of the
7 application and the safety evaluation information.

8 The dotted line in the middle of the flow
9 chart highlights the opportunity for a hearing in
10 accordance with the Atomic Energy Act.

11 The last block at the far right is the NRC
12 decision on whether to review the reactor operator
13 licenses. As you can see, it is based on several
14 factors. Next slide, please.

15 The focus of the safety review is to
16 identify aging effects that could impair the ability
17 of systems, structures, and components within the
18 scope of license renewal to perform their intended
19 functions and to demonstrate that these aging effects
20 will be adequately managed during the period of
21 extended operation. This focus has not changed from
22 the initial license renewal to subsequent license
23 renewal.

24 The first thing the staff did when the
25 application came in was to conduct a Proprietary

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1 Review, because the application itself contained
2 proprietary information. We issued our Proprietary
3 Determination on April 3.

4 In order to be more efficient and
5 effective with time and resources, the staff has
6 divided its review into sections.

7 The first section is the Operating
8 Experience Audit, which was conducted between May 7
9 and 18. This audit reviewed the Applicant's operating
10 experience information and Corrective Action System
11 for data applicable to aging-related issues.

12 The second section is the In-Office Review
13 and the In-Office Audit, where the staff will review
14 documents and references in the application in more
15 detail.

16 The final portion, the NRC will conduct an
17 Onsite Audit of the planned facility and review
18 additional documents as needed.

19 The staff will document its review in a
20 Safety Evaluation Report, or SER. In the past, the
21 staff has issued a Safety Evaluation Report with open
22 items. Starting with subsequent license renewal, our
23 goal is to issue a single Safety Evaluation Report
24 with no open items. Next slide, please.

25 The principles of license renewal safety

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1 reviews has also not changed from initial license
2 renewal to subsequent license renewal. They are: the
3 regulatory process adequately ensures the plant's
4 current licensing basis provides and maintains an
5 acceptable level of safety.

6 The second principle, each plant's current
7 licensing basis is required to be maintained during
8 the renewal term in the same manner and to the same
9 extent as during the original licensing term.

10 The NRC ensures the adequate protection of
11 public health and safety and the environment through
12 regulatory processes. This chart shows the different
13 aspects of the regulatory process.

14 The blue arrows and gray boxes show the
15 current and continued regulatory processes. The red
16 block arrow shows the aging management activities
17 which were added by the initial license renewal
18 review.

19 As part of the subsequent license renewal
20 review, the staff will review the effectiveness of the
21 Applicant's aging management activities.

22 This concludes the staff's discussion of
23 the safety review process. At this point, I'll turn
24 the meeting over to Michelle, and if you have any
25 questions on the process, we'll respond to that in the

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1 second portion of the meeting. Michelle?

2 MS. MOSER: Thanks, Lois. Good afternoon.
3 My name is Michelle Moser and I'm a biologist on the
4 environmental review.

5 The NRC conducts the environmental review
6 in accordance with the National Environmental Policy
7 Act of 1969, commonly referred to as NEPA. NEPA
8 requires federal agencies to follow a systematic
9 approach in evaluating the potential impacts from the
10 proposed action and alternatives to the proposed
11 action.

12 Public participation is an important
13 aspect of the NEPA process. Environmental review
14 milestones that include public participation are
15 highlighted green on the graphic above here.

16 The environmental review begins with the
17 scoping process, which includes today's Public Scoping
18 Meeting. Scoping is the process by which the NRC
19 staff identifies the specific impacts and significant
20 issues to be considered within the draft Environmental
21 Impact Statement.

22 The NRC staff will consider all of your
23 scoping comments provided today, as well as written
24 comments received during the scoping period. We will
25 consider these comments as we prepare the draft

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1 Environmental Impact Statement.

2 And we will also conduct an independent
3 assessment, including an environmental site audit.
4 The environmental staff will publish its findings
5 within a draft Environmental Impact Statement, which
6 will be issued for public comment.

7 The public comment period will be the
8 second opportunity for you and other members of the
9 public to participate in the environmental review
10 process. Again, the NRC staff will consider all the
11 comments received when preparing and updating the
12 final Environmental Impact Statement.

13 I'd like to take some time to discuss what
14 we mean by scoping and your role in this process. The
15 NRC staff uses scoping to determine the range of
16 issues and alternatives to be considered in the
17 Environmental Impact Statement.

18 In addition, scoping comments help
19 identify significant issues that will be analyzed in
20 greater detail. Scoping is also intended to ensure
21 that concerns are identified early and properly
22 evaluated throughout the environmental review.

23 You are an important part of the scoping
24 process. Because you are familiar with your
25 community, your comments will help to facilitate a

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1 thorough review.

2 You can assist this process by telling us,
3 for example, what aspects of your local community we
4 should focus on, what local environmental, social, and
5 economic issues the NRC should examine during our
6 review, and what other major projects are in progress
7 or planned in the area. What are reasonable
8 alternatives that are most appropriate for this
9 region?

10 The NRC issues the following documents in
11 association with the environmental scoping process.
12 The NRC initially issues a Notice of Intent to prepare
13 the Supplemental Environmental Impact Statement and to
14 inform the public about the scoping process.

15 The Notice identifies the federal action,
16 the comment period, and the methods by which comments
17 can be provided. We have copies of the Notice of
18 today's meeting at the front table when you first
19 walked in.

20 So, if you would like to see a copy of the
21 Notice and you didn't pick one up, please feel free to
22 ask any of us or pick one up on the table on your way
23 out.

24 The NRC also issues Scoping Letters to
25 federal, state, and local agencies and tribes. And we

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1 issue press releases and newspaper advertisements to
2 announce the public meetings and the scoping process.

3 At the conclusion of the scoping process,
4 NRC will prepare and issue an Environmental Scoping
5 Summary Report that describes comments received during
6 the scoping period and identifies significant issues
7 identified as a result of the scoping process.

8 Within the Environmental Impact Statement,
9 the NRC evaluates impacts from the proposed license
10 renewal for a wide range of environmental resources,
11 such as air quality, human health, wetlands, and
12 threatened and endangered species.

13 The NRC conducts this review by building
14 upon decades of previous experience analyzing the
15 environmental impacts from power plant operations.
16 For example, in 2013, the NRC staff published a
17 generic Environmental Impact Statement, which
18 identified 78 environmental impacts due to the
19 operation of nuclear power plants.

20 The NRC analyzed the impacts to these 78
21 environmental issues based upon the knowledge gained
22 during 40 previous license renewals, as well as new
23 research, findings, and public comments.

24 The staff determined that 59 of the
25 environmental issues were generic, or the same, at all

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1 nuclear power plants. For the other 19 issues, the
2 NRC staff determined that these issues were site-
3 specific, or that the impacts depended upon the
4 environment surrounding the plant and the operational
5 conditions.

6 Therefore, the analysis for the Turkey
7 Point license renewal will focus on the 19 site-
8 specific environmental resource issues. The staff
9 will also review any new and significant information
10 related to the 59 generic issues.

11 The NRC staff has also conducted previous
12 site-specific environmental analyses at the Turkey
13 Point site. As many of you might be aware, in 2002,
14 the staff completed an Environmental Impact Statement
15 for the initial license renewal. And more recently,
16 in 2016, the NRC staff completed an Environmental
17 Impact Statement for the proposed two new reactors at
18 the Turkey Point site.

19 Although both of these activities are
20 separate federal actions, the NRC staff will build
21 upon any relevant information contained within these
22 previously issued Environmental Impact Statements to
23 make this review as efficient and as straightforward
24 as possible.

25 In conducting our environmental review, we

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1 will be coordinating with other federal, state, and
2 local agencies, as well as tribal leaders. This
3 coordination helps to ensure that local technical
4 resource specialists are involved in the review.

5 Some of the agencies that we have been
6 coordinating with and we will continue to coordinate
7 with include the U.S. National Park Service, the U.S.
8 Fish and Wildlife Service, the U.S. Environmental
9 Protection Agency, the Florida State Historic
10 Preservation Office, the Florida Department of
11 Environmental Protection, and Miami-Dade County.

12 Ultimately, the purpose of the
13 environmental review is to determine whether or not
14 the environmental impacts of license renewal could be
15 so great that preserving the option of license renewal
16 for decision makers would become unreasonable.

17 The Environmental Impact Statement will be
18 considered in conjunction with the NRC staff's safety-
19 related reviews in recommending to the Commission
20 whether to renew the Turkey Point operating license.
21 Next slide.

22 In summary, these are the factors that
23 will be considered by the Commission in deciding
24 whether to renew the Turkey Point licenses. It is the
25 goal of the NRC staff to complete its license renewal

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1 review and reach a decision on renewing the operating
2 licenses within 18 months from the time the
3 application is accepted. The schedule can be extended
4 to accommodate a hearing, if granted.

5 This slide shows important milestones for
6 the safety and environmental review process. It is
7 important to note that these dates are tentative. I'd
8 also like to note that the Safety Evaluation Report
9 will be a publicly available report.

10 And you are also welcome to attend the
11 Advisory Committee on Reactor Safeguards, or ACRS,
12 meetings, which are open to the public. These
13 meetings are held at our Headquarters in Washington,
14 D.C.

15 This slide has information on how you can
16 submit comments after the meeting concludes.
17 Comments, written comments will be accepted through
18 June 21 and can be submitted by mail or through
19 regulations.gov.

20 Lastly, this slide shows the website where
21 you can find additional information regarding the
22 Turkey Point review, including FPL's application.
23 I've also listed the contact information for the
24 Project Managers if you have any follow-up questions
25 at the end of today's meeting.

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1 And again, there are copies of these
2 slides at the front table in case you need any of this
3 information.

4 This concludes the staff's formal
5 presentation. I'm now going to turn this back to
6 Butch, our facilitator.

7 MR. BURTON: Okay. Thank you, Lois. Thank
8 you, Michelle. Hopefully, that gives you a pretty
9 good overview of what we do and how we do it.

10 What we want to do right now is take a few
11 minutes to entertain any questions you might have
12 about anything that you just heard and about our
13 safety and environmental review process. People, if
14 anyone -- oh, no, that's right.

15 So, if anyone has comments, you can either
16 come up to the podium and ask your question or we
17 have, as you can see, we have a couple of handheld
18 mics and we're happy to come out to you, but
19 understand, I'm old and I have bad knees, so just give
20 me a second to get to you.

21 Okay. Questions on anything?

22 MR. WHITE: Thank you. Barry White,
23 Citizen Allied for Safe Energy. The comments
24 following your draft EIS, do those have to be
25 submitted as a petition to intervene and request for

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1 hearing or submitted simply as comments?

2 MR. BURNELL: My name is Scott Burnell, I'm
3 one of the spokespeople for the Agency. A petition to
4 intervene is separate from the ability to comment in
5 the environmental review process.

6 The NRC has already issued in the Federal
7 Register an opportunity to submit petitions to
8 intervene and I believe one of the earlier slides
9 showed the deadline for submitting those petitions.

10 MS. MOSER: So, the comments on the draft
11 Environmental Impact Statement, they would need to be
12 submitted as comments through regulations.gov or
13 however other methods are available.

14 And we will be publishing a separate
15 Federal Register Notice at that time. So, that's a
16 separate comment period than the current comment
17 period we're in now.

18 MR. WHITE: Thank you.

19 MR. BURTON: Okay, does that help to answer
20 your question? Others? Questions or comments on the
21 process? Oh, okay, got a couple here.

22 MS. REYNOLDS: Laura Reynolds, representing
23 Southern Alliance for Clean Energy, Tropical Audubon,
24 and Friends of the Everglades. Along the same lines
25 of Barry White, my question is, you have a 60-day

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1 period that supposedly the public has for the hearing
2 request for the intervention.

3 I'm not sure that April 24, that the
4 public really knew that you had accepted an
5 application. How do you let the public know about
6 that process?

7 MS. JAMES: We issued a Federal Register
8 Notice that went public and official on May 2 and that
9 was the official start of the opportunity for hearing.

10 MS. REYNOLDS: Okay. So, how does that get
11 circulated or do you publish it in a paper or is it
12 put online? What is the --

13 MS. JAMES: We issued -- we signed a letter
14 on April 26 where we informed the Applicant that we
15 had accepted the application and we included the
16 Federal Register Notice as an attachment to that and
17 it was listserved through our normal listserv process.
18 So, anyone who was attached to the plant in our
19 distribution would get it.

20 MS. REYNOLDS: Okay, thanks.

21 MR. BURNELL: And the Agency also issued a
22 press release and redistributed that through social
23 media.

24 MS. REYNOLDS: Thank you.

25 MS. ARONOWITZ: Hello, Karen Aronowitz,

1 public. Am I to conclude that the safety review has
2 already been concluded, then?

3 MS. JAMES: No, ma'am. The safety review
4 has just started. We finished our first audit, is
5 what we've done.

6 The safety review ends, I think officially
7 when we receive a letter from the Advisory Committee
8 on Reactor Safeguards. So, that's May of next year.
9 We have a lot of steps that need to be done between
10 now and then.

11 MS. ARONOWITZ: Thank you.

12 MR. GOMEZ: Is there a -- this is Albert
13 Gomez, I'm a citizen, Miami. And I'm asking, on the
14 Safety Evaluation Report and the public comment
15 applications, is that merged into the EIS? Is there
16 a hierarchy with regards to what reporting connects to
17 what?

18 I see a lot of correlations between safety
19 and EIS and I'm wondering what's the hierarchy, at
20 least with regards to assessment and public comment?
21 Are they unified, are they part and parcel to the same
22 report? Is it independent comments that the public
23 can make to individual reports, i.e., the EIS and the
24 SER?

25 MS. JAMES: There are two separate reports.

1 Under the environmental process, we ask questions and
2 for comments and then, we address those comments. We
3 do not ask for comments on the safety side, that is
4 done by the staff's review.

5 Priority or hierarchy, both need -- a
6 decision needs to be made in both areas before
7 something can proceed.

8 MR. GOMEZ: In your flow chart, you point
9 to the SER having a public comment period, is that
10 online or is that here? One more, keep going. Right
11 -- one more. There.

12 MS. JAMES: Oh, this was trying to show the
13 entire process. And did we -- I guess I'm not --

14 MR. GOMEZ: See the dotted arrows coming
15 together on the hearing?

16 MS. JAMES: Oh, that's the hearing? Yes.
17 Well, depending on what is submitted as part of the
18 hearing process, there may be environmental parts that
19 go into the hearing, there may be safety parts that go
20 into the hearing.

21 And then, that will be dealt with under
22 the Atomic Safety Licensing Board. So, there could be
23 safety parts, there could be environmental parts that
24 go into that.

25 MR. GOMEZ: Are there any inputs from the

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1 public on the safety review process?

2 MS. JAMES: Well, as part of the hearings,
3 yes. You can submit a contention as part of the
4 hearings. And then, if it gets, it will get reviewed
5 and if it gets accepted, the staff will have to
6 address the public.

7 MR. GOMEZ: Not in this scoping format?

8 MS. JAMES: Not in this scoping format.

9 MR. GOMEZ: Thank you.

10 MR. BURTON: And again, Lois, what's the
11 date for people who, if they wanted to file --

12 MS. JAMES: July 2 is the final day to
13 submit the hearing requests.

14 MR. BURTON: So everyone can see that, July
15 2. Okay. Other questions on the process? None?
16 Okay. Normally, I would ask if we needed to take a
17 break, but I think we're moving through fairly
18 quickly, so if I make a decision to move on, is there
19 anybody who would have a problem with that? Okay,
20 good. All right.

21 So, we are now going to go into the heart
22 of what this meeting is all about and that's really to
23 take your comments and input to help us determine the
24 significant environmental issues we need to consider
25 during the review.

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1 So, those of you who filled out the yellow
2 cards, this is going to be your chance. What I'm
3 going to do, again, you can either come up to the
4 podium to make your comment or statement, or if you
5 raise your hand, we can bring you the handheld mic.

6 Given the number of people who actually
7 signed up to make a statement, I think we can be a
8 little flexible in terms of the time we can give you.
9 So, I think we'll try and make maybe four minutes or
10 so, if people need to make a statement.

11 Also, if you have any physical material
12 that you want to submit, you can give that to us now
13 and that will also be included as part of the record.

14 So, what I'm going to do is, I am actually
15 going to call off speakers by threes, so people know
16 where they are in the queue. Okay? And people can be
17 ready.

18 So, first three speakers are going to be
19 Lisa Tennyson, followed by Brian Stamp, and then,
20 Adrian Moreira. And I want to apologize up front if
21 I mangle anyone's names, but I'll do my best. Okay?
22 All right. Ms. Tennyson?

23 MS. TENNYSON: Good afternoon. Thank you
24 for hosting these meetings for our community. My name
25 is Lisa Tennyson. I'm the Director of Legislative

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1 Affairs for the Monroe County Board of County
2 Commissioners. And I'm here today with Monroe County
3 Pro Tem, Mayor Pro Tem, Sylvia Murphy.

4 We're here today to convey to you the
5 County Commission's concerns with the current cooling
6 canal system associated with Units 3 and 4, the
7 subject of the license renewal.

8 We have watched closely and watched with
9 concern the situation of the advancement of the
10 saltwater plume to the west, toward our well fields,
11 and to the east into Biscayne Bay for the past several
12 years.

13 In April 2016, the County Commission
14 passed a unanimous resolution expressing its concerns
15 that the CSS, the cooling canal system, the CCS,
16 presents a serious concern to our drinking water and
17 to the Biscayne Bay.

18 In February 2017, the County Commission
19 passed another unanimous resolution calling for the
20 decommissioning of the cooling canal system as soon as
21 possible.

22 Intended to be a closed system, the
23 leakages to the east and the west tell us that the
24 cooling canal system is not functioning properly or as
25 intended.

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1 For us, the renewal of the license for
2 Units 3 and 4 for 20 years beyond 2033 means the
3 continuation of the struggling cooling canal system
4 for the next three decades. This is the concern of
5 the County Commission. That's it. Thank you.

6 MR. BURTON: I understand my mic carried.
7 We have Brian Stamp, Adrian Moreira, and then, Gabriel
8 Ignetti.

9 MR. STAMP: Hi, good afternoon, everybody.
10 My name is Brian Stamp, I'm the plant manager out at
11 Turkey Point. I have been at Turkey Point since 1987.
12 I came here directly out of the United States Navy.

13 I started out as an operator. Myself and
14 Bob Hess (phonetic) back there, we were both licensed
15 on the plant for a number of years, in fact, Bob still
16 is. And then, I continued on and then, currently,
17 work with a bunch of the folks that are sitting in the
18 back.

19 So, I just want to take a couple minutes
20 to talk a little bit about what the plant is doing and
21 where it's headed. So, Turkey Point has been out
22 there now for 45 years. We power approximately
23 900,000 homes here in Dade County.

24 We have eliminated and continue to
25 eliminate over ten million tons of greenhouse gases

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1 every single year. This subsequent license renewal
2 will save our customers over \$2 billion, compared to
3 the alternative energies.

4 We currently have 800 people at the site
5 on full-time staff. We have a number of contractors,
6 we call them vendor partners, routinely between 100
7 and 200. During outages, it can go as high as 1,000.

8 We actually input into the economy every
9 year over \$1.7 billion between the salaries and the
10 taxes that we pay. Roughly five years ago, we did a
11 major overhaul of a number of the plant's systems and
12 during that time, we spent nearly a billion dollars on
13 both of those plants.

14 We currently have plans to do another
15 upgrade over this year and into the spring of next
16 year that will increase the output roughly 40
17 megawatts, which equals another 26,000 homes here in
18 Dade County.

19 Some other things that we've got
20 continuing to go is that we are partnering with the
21 County to use some of the wastewater that currently
22 goes out into the Bay to actually continue to drive
23 improvements of the canal system.

24 There are plans being put together now to
25 build a project that will bring 60 million gallons of

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1 the treated wastewater to the site and that will be
2 used in part to continue to refresh the canal.

3 And we've had success over the last few
4 years with the canals. Their salinity is improving.
5 We've met all the requirements that the government
6 action has put in place.

7 We continue to add fresh water into the
8 canals, as well as we have just started up the what we
9 call the refreshment well system, that is actually
10 pumping out the high-salinity plume and putting it
11 back into the ground.

12 And then, finally, we're also partnering
13 and planning to build some solar panels, all within
14 the County, as well as some advanced battery
15 technology.

16 And then, finally, there is 13,000 acres
17 of wetlands around the site that has been restored to
18 the Eastern Everglades Wetlands. And in part, that is
19 what contains the American crocodiles. And recently,
20 we had the least tern birds.

21 So, I've been in the community a long
22 time, I plan on retiring here. I have absolute
23 confidence in the ability of Turkey Point to continue
24 to operate and to continue to manage the wells and
25 ensure that they do not damage the environment. Thank

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1 you.

2 MR. BURTON: Thank you. If there is anyone
3 who maybe didn't sign up to speak, but has changed
4 their minds, let me know and I'll get you a yellow
5 card that you can fill out. So, we're going to have
6 Adrian Moreira, followed by Gabriel Ignetti. And
7 then, after that, Mark Short.

8 MR. MOREIRA: Hello, my name is Adrian
9 Moreira and I work at FPL's Turkey Point as an
10 Instrument and Control Technician. I've been working
11 there at the plant for about 12 years now.

12 Part of my responsibility is I perform a
13 lot of work in the control room. Over the years, I've
14 had a firsthand look at our safety practices and
15 developed relationships with other reactor operators.
16 I can confidently say our plant is managed safely and
17 responsibly.

18 As an FPL employee, I'm excited about the
19 opportunity to work at Turkey Point an additional 20
20 years. The plant provides thousands of jobs for many
21 of us who live here locally. The electricity supplied
22 by the plant is clean and emission free.

23 And behalf of my coworkers and I, which
24 includes members of the IBEW, we support the
25 subsequent license renewal of Turkey Point 3 and 4.

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1 Thank you.

2 MR. BURTON: Thank you. Next, we'll have
3 Gabriel Ignetti, followed by Mark Short. And after
4 that, Caroline McLaughlin.

5 MR. IGNETTI: Hi, everybody. My name is
6 Gabriel Ignetti, I'm a longtime environmentalist. I'm
7 very concerned about climate change and I'm here to
8 speak on behalf of nuclear power, for the reason I
9 hope that there is no fear of a problem with Turkey
10 Point.

11 Because, actually, it is an urban myth
12 that nuclear is so dangerous, it's actually the most
13 safe form of power on the planet. And solar power
14 will not work as a substitute.

15 I believe it's in Puerto Rico, in the last
16 two storms, they had a massive solar farm, and if you
17 go on YouTube, it's a mashed up wreck of glass and
18 debris. It cannot happen in Florida, that cannot
19 work, it will not replace nuclear power.

20 And I hope they also -- I'm looking
21 forward to the building of the AP1000 reactors.

22 I want to mention another thing about the
23 safety and concerns of evacuation. When they had the
24 Fukushima accident, no one was killed from the
25 radiation, but there was tremendous death from

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1 evacuation and it was unnecessary.

2 And the thing is this, I mean, the science
3 on radiation is that below 100 millisieverts, you can
4 be in an environment -- that's of radiation -- you can
5 be in an environment and there's no evidence that
6 anything will happen.

7 So, when people were evacuated, forcefully
8 evacuated out of areas that had 20 millisieverts, and
9 are still at 20 millisieverts. And what happened is
10 people died from that.

11 So, I want you to be more rationale than
12 the Japanese were, please, because God forbid if
13 anything happened, that's where we would have a
14 problem. And that's about all I have to say. Thank
15 you, everybody.

16 MR. BURTON: Thank you. Next, we're going
17 to have Mark Short, followed by Caroline McLaughlin.
18 And then, after that, Andrew Carter.

19 MR. SHORT: I'd first like to thank you,
20 ladies and gentlemen, for this opportunity to speak
21 before you. My name is Mark Short. I'm an engineer
22 at Turkey Point.

23 I'd like to add just a little bit of a
24 personal element to this discussion. About 11 years
25 ago, myself and my wife graduated from college in

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1 Northern Utah. And as all college students do, we
2 started to looking into where we're going to work,
3 where we're going to live, what are we going to do?

4 An opportunity arose to interview with
5 Florida Power and Light, so we started looking at the
6 company and looking into what they do. And being an
7 electrical engineer, I wanted the opportunity to make
8 power, and nuclear power, clean, safe energy attracted
9 me.

10 So, 11 years ago, my wife and I moved here
11 to this community. We live in Keys Gate, which is
12 probably the closest community to Turkey Point. We've
13 lived there for 11 years.

14 We've started raising a family. I have
15 four children. Two of them attend Keys Gate Charter
16 School, which is also probably the closest school to
17 Turkey Point.

18 I have the opportunity to work with those
19 800 people. These are really good people. These are
20 operators, these are engineers, these are mechanics,
21 these are people that care about their families, these
22 are people that do their jobs, and they do their jobs
23 safely and they do it well.

24 I have no problems with my family being so
25 close to the station. I intend on being here a long

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1 time, as Brian does. I look for the opportunity to
2 come and speak to, because license renewal is
3 important to me and my family.

4 If we don't, well, I've got to find a new
5 place to live. I'll have to start looking, as well as
6 all those other workers. I don't want to do that, I'd
7 like to stay here, we enjoy it here, even though our
8 family is out West.

9 So, I'm thankful for the NRC and them
10 taking this application and looking into -- and
11 ensuring that we're safe, ensuring that the
12 environmental things are taken care of.

13 But as a community here, as a community in
14 Homestead, we gain a lot from all those that work,
15 from the economy being helped, for all that we receive
16 from the station being here. And I appreciate you
17 letting me share this time with you. Thank you.

18 MR. BURTON: Thank you, Mark. And next, we
19 have Caroline McLaughlin, followed by Andrew Carter.
20 And then, Kelly Cox.

21 MS. McLAUGHLIN: Good afternoon, Caroline
22 McLaughlin on behalf of the National Parks
23 Conservation Association.

24 NPCA is dedicated to the protection and
25 preservation of America's incredible system of

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1 National Parks on behalf of its 1.3 million members
2 and supporters around the country.

3 Biscayne National Park is our country's
4 largest marine National Park and the aquatic
5 equivalent of Yellowstone or Yosemite. It protects
6 abundant wildlife and a variety of ecosystems, in
7 addition to supporting a number of economically
8 valuable recreation opportunities.

9 Biscayne National Park also sits directly
10 adjacent to Turkey Point Nuclear Power Plant. Over
11 the years, we have seen a number of environmental
12 impacts stemming from the operation of the plant.

13 The plant's unlined system of cooling
14 canals released an unprecedented amount of
15 contamination into the Biscayne Aquifer, threatening
16 the drinking water supply for millions of people and
17 hastening rates of saltwater intrusion.

18 This contamination has also made its way
19 into surface waters that are connected to Biscayne
20 National Park.

21 Before FPL is given the green light to
22 extend the life of Turkey Point's two new reactors by
23 another 20 years, we have a number of questions and
24 concerns that need to be addressed within this process
25 as it moves forward.

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1 And some of these questions are: what is
2 the status of FPL's remediation efforts and cleanup
3 activities? Will FPL be able to draw the plume back
4 to within its boundaries of the plant and by what
5 time? And what happens if they don't?

6 What plans are in place to address the
7 eastern side of the plume that currently extends
8 beneath the waters of Biscayne Bay and Biscayne
9 National Park?

10 How will the future operation of the
11 cooling canals differ from the way they are currently
12 operated? Meaning, how will you ensure that the
13 cooling canals stop polluting the Biscayne Aquifer and
14 Biscayne Bay?

15 How will adding additional fresh water to
16 the canals get rid of contamination that is currently
17 in them? The nutrients and salt have to go somewhere,
18 if they're not going into the Aquifer, if they're not
19 going into the Aquifer, where are they going?

20 How will we ensure that any additional
21 fresh water added to the canals does not increase the
22 level of nutrients in the system? What measures will
23 be put in place to address increasing threats from
24 storm surge and sea level rise?

25 How will FPL mitigate impacts from the

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1 continued operation of their units? Will mitigation
2 benefit efforts to restore Biscayne National Park?
3 What measures will be put in place to ensure Biscayne
4 Bay and Biscayne National Park are protected from any
5 damage associated with the current and future
6 operation of Turkey Point?

7 Thank you so much for your time and we
8 look forward to your response to these concerns as the
9 process moves forward. Thank you.

10 MR. BURTON: Thank you, Caroline. All
11 right. Next, we have Andrew Carter, followed by Kelly
12 Cox. And then, George Cavros.

13 MR. CARTER: Good afternoon, Commissioners.
14 Thank you for the opportunity to speak today. My name
15 is Andrew Carter and I'm the Research Director at
16 Miami Waterkeeper, a Miami-based nonprofit dedicated
17 to defending and protecting South Florida's watershed.

18 Today, I would like to voice Miami
19 Waterkeeper's opposition and that of our membership to
20 the license renewal as written for Turkey Point Units
21 3 and 4.

22 First, we do not feel that the license
23 application considers existing contamination issues
24 within the cooling canal system at Turkey Point.
25 Current operations already pose risks to the

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1 ecological integrity of Biscayne Bay and Biscayne
2 National Park.

3 Presently, water from the cooling canal
4 system is seeping into our groundwater, creating a
5 hypersaline plume emanating out in all directions,
6 towards drinking water wells and Biscayne Bay.

7 This plume moves at a rate of more than a
8 foot a day and has migrated westward over five miles
9 since the canals were instituted. The plume is fast
10 approaching our drinking water wellheads, compromising
11 our sole source of drinking water in Miami-Dade
12 County, the Biscayne Aquifer.

13 Despite being described by FPL as a closed
14 system, the cooling canal system is unlined and is
15 actively contaminating the Aquifer and Bay, as
16 indicated through the presence of the tracer, tritium.

17 The existing conditions of the cooling
18 canals have already created algal blooms and extremely
19 high temperatures, both of which are contaminants in
20 their own right. These issues will exist or be
21 exacerbated should the license for Units 3 and 4 be
22 renewed.

23 We feel like this industrial waste
24 facility should be remediated and the canals
25 decommissioned in favor of cooling towers. However,

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1 this application does not reflect such a change.

2 Instead, it seeks to use the canals for
3 the extended life of the plant, ultimately
4 contributing to additional pollution issues in our Bay
5 and Aquifer.

6 As such, we cannot support this plan and
7 urge the Commission to reject the license extension
8 application as written in support of a cooling system
9 that more adequately protects our drinking water and
10 the unique ecosystems that Biscayne Bay supports.

11 Finally, we feel that the use of nuclear
12 power in general is not sustainable as this region
13 grows. We're not opposed to nuclear power, however,
14 this location is not a good spot for aging reactors
15 and continued reliance on an outdated and contaminated
16 cooling system.

17 To date, there is no sufficient plan for
18 long-term storage of radioactive waste for Turkey
19 Point. This waste is stored onsite, where it may be
20 compromised by storms or other threats. We feel that
21 this is not a sustainable solution for waste disposal
22 and would urge the Commission to reject this plan for
23 radioactive waste storage.

24 For this and the reasons stated by my
25 colleagues, I urge you to reject the license renewal

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1 for Units 3 and 4. Thank you for the opportunity to
2 comment.

3 MR. BURTON: Thank you, Andrew. Okay.
4 Next, we'll have Kelly Cox, followed by George Cavros.
5 And then, Laura Stinson.

6 MS. COX: Hi, everyone. Thank you so much
7 for the opportunity to come in today. My name is
8 Kelly Cox, I am the Staff Attorney and Program
9 Director at Miami Waterkeeper. As Andrew mentioned,
10 we're a nonprofit that's dedicated to defending and
11 protecting South Florida's watershed.

12 Today, I'd like to voice a few concerns
13 that we have about this license renewal application
14 for Units 3 and 4. First and foremost, I'd like to
15 refer you to a set of maps that we've generated here
16 depicting sea level rise risks at Turkey Point.

17 We're concerned that the license renewal
18 application as written does not adequately consider
19 the impacts of sea level rise on the operation of the
20 plant and ancillary facility throughout the 20-year
21 extension horizon.

22 Over the last 100 years, sea level in the
23 area of Turkey Point has risen approximately nine to
24 12 inches. By 2050, sea level rise could be between
25 1.5 and five feet in this area.

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1 Using the University of Florida's sea
2 level rise sketch planning tool, we generated this
3 map, which shows the best-case scenario when selecting
4 the most optimistic variables for sea level rise at
5 Turkey Point, using data from the Army Corps of
6 Engineers. And we all know they're pretty
7 conservative.

8 So, you'll see that the site of the
9 reactors and aspects of the cooling canal system will
10 be inundated by 2040, 12 years before the end of the
11 proposed reactor extension.

12 We urge you to incorporate these
13 projections and incorporate maybe even more
14 conservative projects, such as those from NOAA, in
15 consideration of this license renewal. We also urge
16 you to use worst-case scenario modeling, to ensure the
17 complete safety of this region and our communities.

18 In addition, the license extension
19 application does not consider the increased
20 vulnerability of 3 and 4 to storm surge as a result of
21 sea level rise. While sea level rise occurs slowly,
22 impacts from storm surge can be sudden and immediate.

23 Turkey Point could be exposed to storm
24 surge from Florida Bay, for example, in future
25 scenarios. Elliott Key, which currently acts as a

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1 barrier to impacts of storms, may be underwater, which
2 would leave the facility even more vulnerable to storm
3 surge, high tides, winds, and ocean swell.

4 Given projections, it's extremely likely
5 that water from Biscayne Bay will rise to or about
6 levels of the cooling canal system at some point
7 during the project's life time.

8 During storm events, it's possible that
9 water levels may breach the height of the berms
10 surrounding the cooling canal system, causing Bay
11 water to mix with the cooling canal water before the
12 water returns to the Bay.

13 The end result could be an increased
14 presence of contaminated cooling canal water in
15 Biscayne Bay, which contributes to nutrient loading
16 and potentially devastating algal blooms for the Bay
17 and the ecosystems that it supports.

18 For these reasons and those stated by my
19 colleague, Andrew, we urge you to currently reject the
20 license renewal application as written for 3 and 4.
21 Thank you for your time.

22 MR. BURTON: Thank you, Kelly. Next, we
23 have George Cavros, followed by Laura Stinson. And
24 then, Bonnie Rippingille.

25 MR. CAVROS: Good afternoon. Thank you for

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1 the opportunity to provide some comment to you
2 tonight. I'm George Cavros, speaking on behalf of
3 Southern Alliance for Clean Energy. I'm also a nearby
4 resident of Broward County, longtime resident of South
5 Florida.

6 Southern Alliance for Clean Energy is a
7 regional nonprofit clean energy organization that
8 advocates for responsible energy choices that ensure
9 clean, safe, and healthy communities here in Florida
10 and throughout the Southeast. I'll provide some short
11 comments, but we'll file detailed written comments
12 later.

13 We have an active presence in South
14 Florida and have engaged on the Turkey Point 3 and 4
15 issue, both at the Florida Public Service Commission
16 and in federal court, in order to hold FPL accountable
17 for damaging groundwater and surface water resources
18 and seek appropriate remedies.

19 FPL operates a ten-square mile cooling
20 canal system for its aging Turkey Point 3 and 4
21 reactors, and it's the only utility in the country to
22 use this antiquated system for cooling water for power
23 generation.

24 And there's a good reason for that. The
25 cooling canal system essentially works as an open

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1 industrial sewer.

2 The miles of canals are unlined, and due
3 to the porous geology of South Florida, water from the
4 canals has leached underground to form a plume of
5 hypersaline and contaminated water, spreading westward
6 into the Biscayne Aquifer, towards drinking water
7 wells, and east towards Biscayne Bay and National
8 Park. The Biscayne Aquifer is the sole drinking water
9 source for Miami-Dade County and the Florida Keys.

10 The canal system has been mismanaged for
11 decades. FPL failed to address the growing
12 contamination plume, not until 2013, when temperature
13 and salinity spiked in the canals.

14 And as you all may know, water is the
15 lifeblood of South Florida. While we have millions of
16 residents here and we're surrounded by water, none of
17 it is suitable for drinking. Fortunately, we do have
18 a really prolific drinking water aquifer, the Biscayne
19 Aquifer.

20 There are federal, state, and local laws
21 designed to protect that drinking water resource. FPL
22 has violated and continues to violate several of those
23 laws and regulations.

24 The cooling canal system dumps up to three
25 million pounds of salt a day into the Aquifer. That's

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1 equivalent to roughly 100 dump trucks of salt per day.

2 FPL has violated its federal NPDES permit
3 and state water quality standards, as well as local
4 water quality standards. Now, it's coming to you with
5 a subsequent license renewal application that proposes
6 to continue business as usual, and that's simply
7 unacceptable.

8 If approved, this could bring the total
9 service life to an unprecedented 80 years, and that
10 would mean that the two reactors and the leaking
11 cooling canal systems will operate until 2053.

12 Just a couple points. Based on the sheer
13 volume of salt and other contaminants being loaded
14 into the Aquifer, the continuing operation of the
15 cooling canal system has a large environmental effect
16 when considering both context and intensity.

17 The known impacts of the cooling canal
18 system postdate the general Environmental Impact
19 Statement that you're going to rely upon and Turkey
20 Point's first license approval back in 2002.

21 So, the NRC must take a hard look at
22 plant-specific characteristics, such as how the
23 current operation of the cooling canal system is
24 damaging water resources, both the Biscayne Aquifer
25 and the surface waters of Biscayne National Park.

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1 Even though FPL has entered into a consent
2 order with state regulators and a consent agreement
3 with Miami-Dade County to remediate the contamination
4 plume, evidence filed both at the Florida Public
5 Service Commission and in federal court suggests that
6 that remediation will not work. And we will provide
7 that evidence to you.

8 Also, we expect the NRC to consider
9 reasonable alternatives, such as an alternative where
10 the plant may receive its subsequent license renewal,
11 but it would be contingent on the use of current
12 closed-loop cooling technology, such as mechanical
13 draft cooling towers, while moving to decommission the
14 cooling canal system to mitigate environmental
15 impacts.

16 FPL included a mechanical draft cooling
17 towers in the design of the proposed Nuclear Units 6
18 and 7. Retrofit cooling towers for Units 3 and 4 are
19 technically feasible and cost-effective. The
20 approximate capital cost of wet cooling towers for
21 Units 3 and 4 would be in the range of \$220-310
22 million.

23 So, in short, business as usual is not an
24 option. If FPL wants to continue to run the aging
25 reactors, the use of cooling towers and the eventual

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1 decommissioning of the cooling canal system should not
2 only be an alternative that you look at, but it should
3 be the preferred alternative in your final
4 Environmental Impact Statement.

5 Our quality of life in this region depends
6 on it. Thank you for the opportunity to comment.

7 MR. BURTON: Thank you, George. Okay.
8 Again, I just want to remind you, if you have any
9 documents or anything you'd like to submit to us for
10 the record, please leave them with me or any member of
11 the team here in the front and we'll be happy to take
12 that.

13 So, next, we have Laura Stinson, followed
14 by Bonnie Rippingille. And then, after that, Steven
15 Schoedinger.

16 MS. STINSON: Good afternoon. My name is
17 Laura Stinson. I am a Senior at Florida Atlantic
18 University in Boca Raton, where I am pursuing a degree
19 in marine biology.

20 I am 20 years old and have a stake in the
21 outcome of this proceeding. I am a resident of Monroe
22 County and have lived in Key Largo my whole life. I
23 have had so many fond memories of water skiing,
24 sailing in Cardstown (phonetic) Bay, and diving in the
25 creeks.

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1 This is my home and I'm passionate about
2 the marine ecosystem of the Florida Keys, which is
3 currently in distress. I plan to dedicate my career
4 as a marine biologist to preserving our beautiful
5 ecosystem, so that me and my family, future husband
6 and children, can continue to enjoy this beautiful
7 place in the years to come.

8 The problem with the TP cooling canal
9 system is it does not work in the manner in which it
10 was intended to work, as a closed-loop system. The
11 cooling canals are not only leaking into the Biscayne
12 Aquifer and surface water outside the boundaries of
13 the TP plant in all directions, but also through the
14 hydraulic connection with the Bay.

15 Have you considered whether these cooling
16 canals will survive the upcoming climate changes to
17 make South Florida ground zero for sea level rise?
18 Three of the top ten vulnerable zip codes for sea
19 level rise are in Homestead.

20 Are you aware that a study done in 2014
21 described Turkey Point Power Plant was one of eight
22 U.S. power plants expected to be affected by flooding
23 from sea level rise by the end of the 21st century?

24 FPL, in its application to build Reactors
25 6 and 7, did not mention climate change and used a

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1 one-foot sea level rise per century calculation, far
2 less than NOAA's 5.6-foot worst-case scenario.

3 If you keep the cooling canals in
4 operation through 2053, they will be eliminated by sea
5 level rise. It is imperative that these canals be
6 closed and a closed-loop system established with
7 cooling towers that can reside above the impending
8 rise of sea level, and not rely on the outdated design
9 that is used today.

10 The future of the South Florida community
11 and ecosystem as a whole resides in the need for these
12 cooling canals to be terminated as soon as possible
13 and for new cooling towers to be built. Thank you for
14 your time.

15 MR. BURTON: Thank you, Laura. Okay.
16 Next, we're going to have Bonnie Rippingille, followed
17 by Steve Schoedinger. And then, Laura Reynolds.

18 MS. RIPPINGILLE: Hello. Here we all are
19 on a rainy day trying to determine the future of our
20 beautiful aquifer, which provides us with, right now,
21 with so much water for drinking water and our Floridan
22 Aquifer that provides water for irrigation.

23 I am a former Miami-Dade County judge, but
24 I reside in the Florida Keys now. And I am still a
25 lawyer and I do a lot of pro bono environmental work,

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1 because I live here now, I live in the Keys, and we
2 are dependent on our water wells and our well fields.

3 Our water comes from Miami-Dade County.
4 So, I adopt fully the position of George Cavros, the
5 attorney for advocacy for the Southern Alliance for
6 Clean Energy. I'm not going to repeat a similar
7 speech right now, but rely on what he said with regard
8 to the technical aspects.

9 There are some things I do want to review
10 with you, that affect our safety and our environment.
11 And I know that you want to make sure that we are safe
12 and that our environment is not destroyed.

13 And I also want to thank the FPL employees
14 that came out, we appreciate what you do, we
15 appreciate the fact that you're willing to work in the
16 nuclear power industry. And we want you to know that
17 what we're suggesting doesn't take any of your jobs.

18 And what the representative said with
19 respect to, I don't remember his, I didn't hear his
20 name, but what he said with respect to the investment
21 that Florida Power and Light is making, we want you to
22 know that the rate payer has been paying for the
23 cleanup that FPL caused with respect to the
24 hypersaline plume and pollutants.

25 And the PSC in Florida has required us to

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1 pay for it. And we're all rate payers, because we all
2 use Florida Power and Light electricity.

3 So, without talking about the technical
4 aspects of this, I do want to comment on the global
5 warming. This is of great concern, this climate
6 change issue, this issue of rising waters and the fact
7 that there's such a discrepancy between the amount of
8 sea rise that is being predicted by NOAA and the
9 amount of sea rise that is being predicted by others.

10 And NOAA is saying, by the end of this
11 century, it'll be 5.6 feet, worst-case scenario. We
12 certainly don't want those cooling canals to be
13 underwater.

14 And that will affect everything. It will
15 affect the operation of the plant, because we don't
16 want water in the plant. And I know the NRC doesn't
17 either.

18 We are advocating cooling towers. And the
19 reason we're advocating the cooling towers is because
20 they are affordable and will not materially affect our
21 electric bills.

22 The system as it exists is not as it was
23 permitted, which was a closed-loop system. We want
24 you to close the loop, because that is the only way to
25 ensure our safety and the safety of our environment.

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1 And we believe the cooling canal system is
2 an integral part of the operation of the nuclear
3 plant, with respect to safety and environment. And
4 the cooling canal system is not sufficiently protected
5 against sea level rise and hurricanes. And it can
6 only worsen in coming decades.

7 The cooling towers would make Turkey Point
8 a closed-loop system and make it more resilient to
9 weather and climate change impacts. Water usage could
10 go down with the cooling towers, because there's less
11 evaporation.

12 The need for water has increased in the
13 CCS, FPL is using millions of gallons of water that we
14 will need to use in coming years as a growing Miami-
15 Dade Community and growing Keys community.

16 The cooling tower technology was approved
17 for use by the NRC on Reactors 6 and 7. That's the
18 best technology, and they approved it and that's what
19 they were going to use on 6 and 7.

20 Now, because they've admitted that it's
21 not economically feasible to build 6 and 7, that they
22 are going to go ahead and try to extend the permit,
23 the license for Reactors 3 and 4.

24 Well, that's interesting, because Reactors
25 3 and 4 could be upgraded if you're going to permit

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1 them to operate for another 35 years. And it
2 certainly is effective from a cost standpoint as well,
3 now that they know they're going to use them for 35
4 years.

5 Cooling tower technology will prevent
6 leaking, prevent the buildup of salt and heat, which
7 occurs in the CCS. Cooling towers, as I said, are
8 affordable and there have been many retrofits, and
9 we're providing you with a printout that shows how
10 certain nuclear plants have been retrofit to include
11 the cooling towers.

12 We have an expert witness, Bill Powers
13 (phonetic), whose expert report is being described to
14 you today by Laura Reynolds.

15 I -- oh, FPL has also assured us that
16 they've upgraded Reactors 3 and 4 several years ago
17 and they're in great condition. Nonetheless, the
18 situation since the renewal of the permit, the
19 existing permit, the situation has really changed.

20 Because we've discovered the hypersaline
21 plume that's out almost ten miles and going closer and
22 closer to the water plants, to the point where there's
23 real concern about that.

24 We've found out that there are upwellings
25 in the Bay. And I personally went on dive trip with

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1 SACE consultant, Laura Reynolds, and we located caves,
2 we call them caves, but they're really upwellings.
3 Which means that the water from the Aquifer is coming
4 up into the Bay.

5 And that water was ten times hotter at the
6 bottom level. There was tritium in that water, there
7 were nutrients in that water, and they were coming
8 right out of the Aquifer. And we do know that the
9 Aquifer is a part of the problem with Turkey Point.

10 We didn't create the mess. Florida Power
11 and Light has admitted many times in conferences that
12 I've attended with their representatives that they
13 failed to adequately maintain the cooling canals.

14 In 2010-2011, the seagrass system
15 completely collapsed. The seagrass was necessary to
16 clean those canals. Then came the algae. Today,
17 flying over those canals and you will see brown,
18 chocolate brown and green, they are covered with
19 algae.

20 Two years ago, FPL told me, we're going to
21 clean those up. We live in Ocean Reef and a lot of
22 people fly over those canals and they're going, why
23 are they green, why are they brown? What are they
24 doing out there, why aren't they maintaining the
25 canals?

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1 Well, guess what? They haven't been
2 maintaining the canals. And now that they're starting
3 to, it's been three years and even though they've
4 reduced the salt level, the hypersaline level of the
5 canals somewhat, they still, in three years, with all
6 that water from the Floridan Aquifer have not been
7 able to reduce the canals to the acceptable level,
8 which is 35 based upon current seawater.

9 One more minute? Okay, let me finish up.
10 All right.

11 The plants have been -- the water has been
12 overheating. It overheated two times. The
13 temperature went up to 104 degrees. That was a
14 problem, they almost had to close the plants down.

15 How can we approve a renewal of licensing,
16 which we really want, because we want our electricity,
17 I mean, we live in South Florida, it's very warm here
18 most of the time, how can we approve that when there
19 are so many problems with this system?

20 And make them fix it, this will create
21 jobs, this will create a good neighborly feeling
22 amongst people that live in this area and Miami-Dade
23 County.

24 Show us that you're doing something and
25 you're willing to do something that we are willing to

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1 pay for. We're not asking them to pay for it, we'll
2 pay for it. And our estimates show that it's not
3 going to cost more than one or two percent of our
4 current electric bill.

5 Would you go to a doctor that was a
6 podiatrist for cancer? Would you use a system that
7 doesn't work for something that's very dangerous,
8 which is nuclear energy, that we all need?

9 Because basically, we're not opposed to
10 nuclear energy, we've been the beneficiaries of the
11 FPL work for years, but now, the tide has turned and
12 the tide is coming up and we want you to close the
13 loop and we want you to exercise your regulatory
14 authority and hold that this is a safety issue, not
15 just an environmental issue.

16 And we thank you very much for coming down
17 here to talk to us. I represent Ocean Reef Club,
18 where I reside, it's a homeowners association of 2,000
19 residents.

20 And we want something done about this and
21 we're feeling the same way as the County does, the FKA
22 does, Miami-Dade County, we want the cooling towers,
23 we want the updated technology. Please help us,
24 you're the people who can do that. Thank you very
25 much.

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1 MR. BURTON: Okay. Thank you, Bonnie.
2 Next, we're going to have Laura Reynolds, followed by
3 -- oh, I'm sorry, yes, Steve Schoedinger, followed by
4 Laura Reynolds. And then Karen Aronowitz.

5 MR. SCHOEDINGER: Thank you for holding
6 this scoping meeting today. My name is Steve
7 Schoedinger, I'm a resident of Key Largo.

8 I am also the chair of the North Key Largo
9 Utility District Water Resources Management and
10 Planning Committee.

11 Yes, I have resided in Monroe County for
12 the last 20 years. I'm a registered professional
13 engineer in six states. I've been practicing
14 registered professional engineer for 45 years. Much
15 of it in Miami-Dade County and the Florida Keys.

16 My skill sets specialize in water resource
17 and coastal infrastructure, studies design,
18 construction and asset management.

19 And my comments today basically are going
20 to focus, just squarely on the cooling canal system
21 and its ability to meet the current and future needs
22 of cooling the reactor water that is discharged into
23 the canals according to industry standards.

24 And also addressing some of the design
25 flaws that have existed since 1972, when it was

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1 designed, as it pertains to the environment.

2 But I also want to say I am supporting the
3 approval of the proposed licenses for Nuclear Reactors
4 3 and 4, but I implore the NRC and FP&L to consider
5 the design and construction of mechanical draft
6 cooling towers to replace the 6,000 acre, 44 year old
7 failing open-loop, not closed-loop, as far as total
8 system, cooling canal system, as a condition of
9 granting the license to operate the next years, onto
10 2053.

11 I would ask the NRC Staff not to rush the
12 license renewal process. I know it looks like if it's
13 an 18 month process, I think sometimes that normally
14 takes 24 months or longer when a real thorough review
15 is performed.

16 There is more than 14 years on the current
17 licenses. So please slow down and perform a complete
18 review of all current information about the Turkey
19 Point Plant cooling canal system and the impacts on
20 the environment.

21 It's been 16 years since the NRC last
22 performed a full NEPA EIS for this facility, as part
23 of a first 20 year license renewal.

24 So I'd ask again for the NRC to take a
25 hard look at all the current information and opinions

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1 by recognized nuclear and water environmental experts
2 and local government authorities, not just what FP&L
3 has provided in their application and in their
4 environmental report.

5 I urge them not to rely on the outdated
6 original, information in the outdated original NEPA
7 EIS that was performed for the 2012 license renewal.
8 Because in the last ten years, since 2009, there's
9 been a significant, there is significant events that
10 have occurred at Turkey Point, significant data and
11 evidence that's been revealed, which shows the design
12 inadequacy and the operation and maintenance
13 inadequacies that have existed at Turkey Point.

14 And have caused us noticeable
15 environmental and adverse impacts to the surface water
16 and ground water environment. And I'd like to focus
17 specifically on Biscayne Bay and Card Sound.

18 Because there is a daily exchange of tidal
19 water that occurs between the canals and the
20 groundwater beneath and the surface water. Because
21 it's right next to Biscayne Bay.

22 So, it basically may be defined as a
23 closed-loop system as it was in '74 but it really
24 doesn't function as that, as the whole cooling system
25 for the plant. Because the water from the canal does

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1 leak into the surface water of the bay.

2 And, again, the information and the data
3 that's been collected by local organizations and the
4 interested parties the past ten years is available to
5 NRC. And I really urge you to take a thorough look at
6 all this data, which will demonstrate that there have
7 been adverse impacts.

8 And there are continuing to be adverse
9 impacts and will continue to be adverse impacts
10 through 2052 if you continue with this cooling canal
11 system which has serious design flaws with the ability
12 to cool the water, according to industry standards,
13 and the ability, and the fact that it's not closed-
14 loop it continues to leak in Biscayne Bay.

15 So, there are a lot of things,
16 environmental, weather wise, that are beyond FPL's
17 control, that cause upsets in these canals.

18 And again, if they continue to operate and
19 maintain it in the fashion that they have over the
20 last 30 years, it's going to be an ongoing cleanup of
21 damage to the groundwater supplies and the surface
22 water supplies. And the public will be the ones that
23 bear that cost.

24 So I would also want to mention that local
25 government state authorities, Monroe Country, Florida

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1 Keys Aqueduct, Miami-Dade County, have all issued
2 correspondence and passed resolutions in the last two
3 years expressing serious concerns about the Turkey
4 Point cooling canal system and its operation in the
5 population leaking from the site into the surrounding
6 environment.

7 And they support the replacement of the
8 failed 44-year-old open-loop cooling canal system with
9 a proven technology and a safer technology of the
10 cooling towers.

11 So, I have copies of the resolutions and
12 other evidence and I'll leave that with you today.
13 And I just would, one more comment regarding costs.

14 I think that, I have been told several
15 times by FP&L that this is, cooling canal retrofit is
16 too expensive and I don't understand whether that's
17 too expensive to the rate payer and the shareholder,
18 but I don't think that their cost analysis has
19 included all the cleanup costs that the public is
20 going to have to bear and other organizations will
21 bear, due to the design flaw and the inability of the
22 cooling canal system to operate as a contained
23 facility.

24 And I think if they look at the cost of
25 operating it properly for the next 35 years and

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1 maintaining it properly and add in these related
2 costs, then I think the lifecycle cost of the cooling
3 canal system through 2052, will be less than, excuse
4 me, will be great than, or equal to, the cost of
5 putting in and operating new cooling towers, which are
6 truly a closed-loop system and have little or no
7 impact on the environment.

8 And I think it would be a lot easier for
9 the operators who are here today, to operate that
10 system than to have to deal with 6,000 acres of open
11 canals. So thank you for your time.

12 MR. BURTON: Thank you, Steve, appreciate
13 it. Okay, next we're going to have Laura Reynolds
14 followed by Karen Aronowitz and then Barry White.

15 MS. REYNOLDS: It's kind of strange being
16 at the back of the podium but I'll try my best. Laura
17 Reynolds and I'm here representing Southern Alliance
18 for Clean Energy, Friends of the Everglades and
19 Tropical Audubon, all of which are parties and
20 plaintiffs in the Clean Water Act.

21 And I just wanted to point you to this
22 blue folder. Inside of it you have a disc with all of
23 the expert reports in that case, in addition to the
24 amended complaint.

25 And I'll refer to the figures on the right

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1 side during my presentation, so that's why I wanted to
2 make sure you had it in front of you.

3 A lot of my comments will be repetitive
4 but hopefully, because it's such a complicated issue,
5 you will leave here with a greater understanding of
6 the concerns.

7 So, the organizations I represent
8 collectively have about 8,000 members in the affected
9 area, all concerned with the health and well-being of
10 the regions habitat, fish and wildlife, water, water
11 quality. And of course, the park and protected areas
12 for future generations as well as a great state in
13 Everglades Restoration.

14 For years, Florida Power and Light cooling
15 canal system at Turkey Point Facility has been
16 leaking. You've heard that before.

17 This massive pollution plume has built up
18 under the plant over 45 years. It's been spilling
19 into Biscayne Bay and into the aquifer.

20 A lot of that information is new. We
21 didn't really know that when you first evaluated this
22 in 2002 for your previous extension. So it's
23 important to really make sure that you understand that
24 it wasn't basically until 2005 that we started to sort
25 of see concerns in this area.

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1 FPL has known about these issues as
2 evidence by changing the boundary of the industrial
3 waste facility in the '80's. We do see evidence that
4 the company sort of knew there were issues.

5 So, basically there is a boundary around
6 the plant that delineates the G2 and the G3 boundary.
7 That was expanded in 1983.

8 Yet the company, instead of deciding to
9 fix that situation, decided to apply to upgrade the
10 facility. And as I learned today, I'm not sure of the
11 gentleman who spoke on behalf of FPL, it sounds like
12 they're planning to upgrade the system again. Which
13 I think is irresponsible given the fact that we now
14 see the impacts from the upgrade.

15 So please take that into account when
16 you're reviewing this application. If there are truly
17 plans for an upgrade again, you need to get that
18 information from FPL and demand that they include it
19 in their environmental report. Which I didn't see in
20 there.

21 So, at the time the agencies were
22 reviewing the upgrade application, they knew there
23 were issues. Sentinel Wells in front of Miami-Dade's
24 potable wellfields went salty.

25 Agencies were looking at this area, why is

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1 salt water intrusion moving so fast in this area.
2 That was 2005, '06, '07 time frame. And at the time
3 of that upgrade application, the agencies decided to
4 require a robust monitoring plan.

5 That is how we know what's going on with
6 the plant. Without that we wouldn't have any idea
7 that this plant was leaking. And the reason why in
8 2002 you likely didn't have anybody talking about it.

9 So, at that time, with that information,
10 we were able to see the extent of the plume. So by
11 2012 we knew the delineation of the plume.

12 So that's an important time marker for you
13 to understand. And a lot of the information, for
14 example, in the expert reports, is based on the data
15 that agencies have collected in FPL themselves. And
16 their consultants. So, much of that data wasn't
17 collected by anyone else.

18 Now, Dade County recognized that there
19 were other places that need to be monitored. So, they
20 required additional monitoring. And that information
21 has led to the information we have about Biscayne Bay.

22 So, again, this is a little repetitive,
23 but FPL leadership continues even after these issues
24 occurred, continues to insist that, and convince
25 government officials and some agencies, that they know

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1 how to fix this problem.

2 And my question is, why should we trust
3 them since the uprate caused so many issues, and
4 that's been shown through reports that have been
5 published, by David Chin for example, that was
6 commissioned by Dade County.

7 I don't have a copy of that here but we
8 certainly can provide it to you. Those reports show
9 that the uprate caused damage.

10 So the question I have for you is, why
11 would we trust them with their remediation plan that
12 it will work, that they'll be able to retract the
13 plume and operate these cooling canals without a
14 problem, if they continue to show a pattern of
15 failure?

16 So, again, what their plan is, and I just
17 want to kind of go through that a little bit, they
18 have a series of extraction wells and freshening
19 activities. And that's their term for this.

20 But what that is really is a delusion
21 scheme for the pollution that currently exists.
22 Basically, if you add in a lot of water into the
23 cooling canal system, you're taking that high salinity
24 and high temperature waster and you're diluting it and
25 you're forcing it into the aquifer and from the

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1 groundwater into the surface water of the bay.

2 It's very important to understand that the
3 amount of extraction capacity they have permitted
4 could never remove the amount of the plume that has
5 built up over 45 years. That is very important to
6 understand.

7 And the issue that you should all
8 understand too is, that there's multiple agencies
9 trying to make this situation better. For example, we
10 have Miami-Dade County who first challenged, I think
11 it was the administrative order, and settled out and
12 have a consent agreement.

13 In that consent agreement, you can tell
14 that one of their chief concerns is their potable
15 water supply to the west. And then once information
16 came out about the bay, they were concerned about
17 nutrient pollution.

18 So, that's one of the orders, local
19 orders. And then there is the state order. The state
20 order basically requires a threshold of 34 psu within
21 the cooling canal system that would require the
22 addition of water.

23 The addition of water is actually what
24 causes that nutrient pollution. So we have two
25 conflicting agencies telling us how to fix this

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1 problem.

2 Because if you meet that 34 psu, you are
3 going to pollute the bay and the aquifer. That
4 driving head of water pushes it into the surface.

5 And so it is your job, I hope, to really
6 evaluate all the conflicting information that you
7 have. And the reason its conflicting is because we
8 have compartmentalization of all of these issues
9 between the different agencies pointing the finger
10 saying, you fix this part.

11 Even today when I walked in I said, can
12 you guys require conditions such as cooling towers?
13 And I was told, we don't really have jurisdiction over
14 the cooling.

15 Well, that's a problem because the
16 facility cannot operate without cooling units that
17 function appropriately. And we all know, at this
18 point after a decade of looking at this, that those
19 cooling canals are broken. They're not working.

20 So I ask you to focus in on the cooling
21 where the environmental problems are. And I know that
22 I've got a minute left, is that right?

23 MR. BURTON: Actually, no, but --

24 MS. REYNOLDS: No time left. I do plan to
25 stay for the second session and walk you through some

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1 of these graphics and go into detail.

2 But what you can do is just at least look
3 at the first graphic there which illustrates that
4 driving head of water and what happens. You see that
5 little green line, that little green line shows the
6 pollution exiting into Biscayne Bay.

7 And so this is a graph that was created by
8 FPL. So, I'm not providing you with data that's
9 something else.

10 And my concern is no of this was in their
11 environmental report. They omitted it. And so, at
12 the very least, please make them supply all of the
13 facts in this case. Thank you.

14 MR. BURTON: Thank you, Laura. And again,
15 if anyone has any material that they want to submit in
16 hard copy, please leave it with any of the NRC Staff
17 and it will be on the record.

18 Next is Karen Aronowitz. I hope I'm
19 pronouncing that correctly, followed by Barry White
20 and then Laura Sue Wilansky.

21 MS. ARONOWITZ: Good afternoon to all you.
22 I'm Karen Aronowitz, a member of their public and
23 deeply concerned about this application for an
24 extension on the renewal of the nuclear power plant as
25 currently operated.

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1 I would like to bring your attention to
2 the Fukushima accident of March 11th, 2011 in Japan
3 where there was an earthquake. I understand we're not
4 subject to earthquakes yet, but there was a tsunami.

5 And we have to consider the fact that we
6 are in hurricane area. And many times, they are water
7 events. So, there could be such a degree of water
8 from a hurricane, including a tsunami or tidal wave,
9 that it would overflow the cooling canals.

10 I don't understand, and I guess I'm going
11 to just ask a series of questions and then I'll be
12 seated because people have much better science than
13 I'm able to even express to you right at this moment.

14 But I don't understand why we would allow
15 a continuation of a system that has been shown to be
16 environmentally damaging and antiquated. Why wouldn't
17 FPL be required to update their plant to include the
18 cooling towers that many have spoken about, in order
19 to continue their operations?

20 Secondly, why or what plans does FP&L have
21 to decommission the plant should anything happen that
22 would not allow it to continue its operation,
23 including destruction of environmentally sensitive
24 waters for this area?

25 So, they need to have in place also, plans

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1 for a different location or a different aspect of
2 running a nuclear power plant, not in its current
3 location. And I don't see anything that shows FP&L,
4 that they have to keep up with, first off, the science
5 connected with running these plants, in terms of
6 safety, and bringing their equipment to the current
7 scientific codes and standards as opposed to what was
8 put in place originally.

9 So, many of spoken now about those cooling
10 canals. The cooling canals are dangerous and
11 destructive on so many levels. But please consider
12 where we are and the fact that there can be a
13 hurricane that would overflow those cooling canals to
14 such an extent that you would be forced to
15 decommission the plant.

16 I don't understand how FP&L, which
17 provides me with a great deal of service, and I'm
18 appreciative of it, does not look to the future in
19 terms of its systems.

20 Because they have tried to sell us on
21 burning coal tar for a source of energy, they have
22 looked to our nuclear plant, and I'm not even opposed
23 to nuclear energy, but I do think that it must be
24 operating at the current standards of systems, not at
25 a system that is already out of date. There is no

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1 other system of nuclear production that uses cooling
2 canals.

3 Thank you all for your attention. Thank
4 you to my FP&L brothers and sisters, especially those
5 of you who are Union. And I want to thank everybody
6 who has shown up from the public to speak on this
7 issue.

8 MR. BURTON: Thank you, Karen. Next,
9 we'll have Barry White. Those of us of a certain age
10 know another Barry White. Laura Sue Wilansky, and
11 then Rhonda Roff.

12 MR. WHITE: Good afternoon. My name is
13 Barry J. White, I'm the president of CASE, Citizens
14 Allied for Safe Energy, a for and not for profit
15 corporation. Welcome to South Florida and thank you
16 for providing your support.

17 CASE is not challenging the basic
18 operational safety of the present Nuclear Reactors 3
19 and 4 at Turkey Point. They're complex operations of
20 technological marvel.

21 But the members of CASE and the many local
22 citizens who come here today, and those who could not
23 make it or challenging it, is the unconscionable
24 notion that the disastrous and harmful impact of the
25 operation of those reactors on the ecology of the

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1 area, might continue for another 20 years.

2 The ill-conceived dysfunctional cooling
3 canal system in Turkey Point has wreaked havoc
4 spilling over 600,000 gallons of hypersaline and toxic
5 chemical laden water into Biscayne Aquifer every day.
6 It has, and is, polluting the aquifer for many miles
7 around with saltwater intruding over four miles
8 westward, forcing the closure of public and private
9 freshwater wells and impacting the sole freshwater
10 source of the entire Florida Keys. We've had to
11 resort to expensive desalinization.

12 The canal system is classified by the
13 State of Florida as an industrial waste facility and
14 it fully deserves that title by receiving every manner
15 of toxic waste from the reactors, including harsh
16 cleaning chemicals, radioactive tritium, cesium and
17 strontium-90, which is all discharged into the
18 aquifer.

19 October 2nd, 2015, Miami-Dade County
20 issued a notice of violation to FPL for polluting the
21 area outside the canals. To date, FPL has not fully
22 complied with the subsequent consent decree.

23 The pollution, while mitigated in some
24 aspects, basically continues unabated. Ammonia from
25 dying cyanobacteria is killing seagrass, even its

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1 roots, and mangroves. Crocodiles have abandoned the
2 canals.

3 Current fixes include injecting
4 hypersaline water into the Floridan aquifer 3,000
5 feet, with potentially drastic impact on the 4,000
6 square mile water source for six million people,
7 without fully analyzing the nature of the water being
8 injected. Toxic chemicals in the canals are also, and
9 the hypersaline water being injected.

10 Ironically, the almost 6,000 acre canal
11 system was built because the initial operation of the
12 reactors killed 500 acres of seagrass. Now the canals
13 are killing seagrass and mangroves wholesale for miles
14 around, including Biscayne Bay.

15 A main breeding ground for the \$20 billion
16 annually commercial and recreational fishing industry.
17 And situated on originally pristine everglades
18 wetlands between two national parks. The canals are
19 unbelievably harmful and destructive to them.

20 In several petitions to intervene before
21 the NRC, our organization challenged many aspects of
22 the present and possible future operations at Turkey
23 Point to no avail.

24 For example, we held a timely emergency
25 evacuation of homesteads in the Florida Keys was

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1 impossible. The common safety licensing board and the
2 NRC's house judiciary body rejected our contention.

3 Recent experience with hurricane Irma
4 proved beyond any possible doubt that we were right.
5 Timely emergency evacuation of the area is impossible.
6 Should a major nuclear event occur, our citizens and
7 FPL employees can fry in place.

8 Cooling canal system was an experiment.
9 It failed. If in 46 years FPL has not shown that it
10 can operate the cooling canals without catastrophic
11 impact on the environment, licensors for another 20
12 years must require that FPL employ another cooling
13 method.

14 The cooling canals started failing the day
15 they began operation and have continued to be an
16 insult to the land and to the citizens of the area in
17 many unimagined and unanticipated ways. To even
18 consider the continued imposition of the Turkey Point
19 canal system on the land and our citizens for another
20 20 years defies credulity and smirches the concept of
21 responsible and responsive governance.

22 Please do not approve the canal system for
23 another 20 years.

24 I want to tell you a story. People I
25 assume flew in for a few days and you're here. I've

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1 lived here since 1969. Always within 25 miles of the
2 canal. Of the reactors.

3 Thursday before Irma hit on September
4 10th, at sundown, which happens to be the technical,
5 the actual peak historically of the hurricane season.
6 September 10th.

7 Thursday before in the morning, put up all
8 the shudders, brought in the plants. And by 2 o'clock
9 I'm looking, and we're looking at a Category 5
10 hurricane heading directly for us. No doubt about it.

11 The weather services, that was it. I said
12 to them, I'm like you know, Turkey Point has never had
13 a Cat 5 hurricane, despite what they say in their
14 literature.

15 Andrew was in '92, was a Cat 3. Was a Cat
16 5. But at Turkey Point, the storm surge was four
17 feet. That's not from a Cat 5 hurricane. And there
18 were no winds reported there at the Cat 5 level.

19 The big surge took part, took place like
20 15 miles to the North, in downtown Miami. So I knew,
21 and I've known from the filings that I have done,
22 Turkey Point cannot take a Cat 5 hurricane. Forget
23 it, it's not going to happen.

24 I looked at my wife and I said, you know
25 what, I think my brother in New Orleans needs some

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1 company. And we joined two million people driving out
2 of here. Because I knew that Cat 5 hurricane coming
3 here, I didn't want to be another Fukushima powder,
4 because that's what would happen.

5 And by the way, following Fukushima the
6 NRC said, we're going to do a two-step review. We're
7 going to review the safety aspects of lessons from
8 Fukushima and then we're going to look at the
9 ancillary implications. That second review never
10 happened.

11 We've never gone back and evaluated
12 Fukushima from the implications other than the
13 functional, physical side of it. The ancillary
14 implications for it were never evaluated, to my
15 knowledge.

16 Thank you for your time, do the right
17 thing.

18 MR. BURTON: Okay, thank you, Barry. Next
19 we have Laura Sue Wilansky followed by Rhonda Roff and
20 then Albert Gomez.

21 MS. WILANSKY: Thank you very much for the
22 opportunity to speak today. I'm Laura Sue Wilansky.

23 I live two counties away, it took me a
24 long time to get here just to say this is how
25 important it is to me to be here today. I'm a private

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1 citizen not representing any organization or employer.

2 In the interest of time, I'm going to
3 condense some of my introductory remarks, some of the
4 things that have been addressed already. The extreme
5 environmental damage done by the Fukushima accident
6 and the overall danger to the environment are the use
7 of nuclear energy.

8 I really want to focus today on the issue
9 of sea level rise. I think the information that I
10 have to present is going to, not repeat, but augment
11 some of the other things that have been said,
12 especially by Kelly Cox from Miami Waterkeeper's.

13 It's completely obvious and undeniable to
14 those of us who live here in South Florida that sea
15 level rise is happening, is increasing and is already
16 effecting our area.

17 I want to share with you some of the most
18 relevant conclusions from the unified sea level rise
19 projection for Southeast Florida. Which is a 35 page
20 document that was published in October 2015 at the
21 Southeast Florida Regional Climate Change Compact.

22 And I quote, "this unified sea level rise
23 projection for Southeast Florida projects the
24 anticipated range of sea level rise for the region,
25 from 1992 to 2100." The projection highlights three

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1 planning horizons and these figures are all above 1992
2 mean sea level.

3 Short-term by 2030, sea level rise is
4 projected to rise six to ten inches. Medium-term by
5 2060, sea level rise is projected to rise 14 to 34
6 inches. Long-term, by 2100, sea level is projected to
7 rise 31 to 81 inches.

8 Forward thinking risk management is
9 critical to avoiding loss of service, loss of asset
10 value and most importantly, loss of life or
11 irrecoverable resources. An understanding of the
12 risks that critical infrastructure will be exposed to
13 throughout its life cycle, such as sea level
14 inundation, storm surge and nuisance flooding, must be
15 established early on in the conceptual phase. Too
16 late for that.

17 If incremental adaptation is not possible
18 for the infrastructure proposed, then inundation is
19 likely designing to accommodate the projected sea
20 level rise of inception, or selection of an
21 alternative site should be considered.

22 Projects in need of a greater factor of
23 safety related to potential inundation, should
24 consider designing for the upper limits. Examples of
25 such projects may include evacuation routes, plan for

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1 reconstruction, communications and energy
2 infrastructure and critical government and financial
3 facilities.

4 Due to the community's fundamental
5 reliance on major infrastructure, existing and
6 proposed critical infrastructure should be evaluated
7 using the upper curve of the projection.

8 Critical projects include those, or
9 projects which are not easily replaceable or
10 removable, have a long design life more than 50 years
11 or are interdependent with other infrastructure or
12 services.

13 The failure of the critical infrastructure
14 would have catastrophic impacts, it is considered to
15 be high risk. Due to the community's critical
16 reliance on major infrastructure, existing and
17 proposed high risk infrastructure should be evaluated
18 using the upper curve of the projection.

19 Examples of high risk critical
20 infrastructure include nuclear power plants.

21 Sea level will continue to rise even if
22 the local mitigation efforts to reduce greenhouse gas
23 emissions are successful at stabilizing or reducing
24 atmospheric concentrations. Or Co2.

25 And, I will submit this to, into the

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1 record. There's more comments, but I just want to
2 emphasize that we're talking about an 81 inch rise in
3 sea level. And honestly, based on the acceleration of
4 all of the factors that this is based on, that's
5 probably conservative.

6 If sea level rises another 81 inches, how
7 high is storm surge going to be during hurricanes.
8 And who is going to be living here at that time to
9 maintain these plants.

10 So I invite you to picture the water
11 lapping around and overcoming these plants, the
12 nuclear waste, the cooling canals, all of this that
13 has been mentioned. This is not a fantasy, this is a
14 realistic scenario.

15 There is no way to guarantee that the
16 deadly dangerous materials used in nuclear plants can
17 be kept out of the environment.

18 This is not the time to be re-licensing
19 this plant for another 20 years, now is the time to
20 think about what can and should be done to keep all of
21 the deadly dangerous toxic material out of the
22 environment. Because re-licensed or not, this plant
23 and its nuclear waste are going to be sitting right
24 there, by the ocean, when the sea level rise occurs.

25 Therefore, I strongly urge you to say no

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1 to the re-licensing the nuclear plants at Turkey
2 Point. Thank you very much.

3 MR. BURTON: Okay. Thank you, Laura.
4 Just so you know, it looks like we're going to go a
5 little over 3:00. We have seven or eight speakers
6 left, so we'll try to move through and get those.

7 Next is going to be Rhonda Roff followed
8 by Albert Gomez and then Orpha Harper.

9 MS. ROFF: Thank you so much for everybody
10 coming out today. My name is Rhonda Roff, I live in
11 Broward County.

12 And I am a chemist by training. I've done
13 environmental monitoring, water, air, soil, hazardous
14 waste professionally. But that isn't really what I
15 want to talk about today.

16 I'm a mom and there's a quote that I use
17 as the tag line for my email. It's in Upton Sinclair.
18 It says that, "it is very difficult to get a man to
19 understand something if his salary depends on him not
20 understanding it."

21 And, with all due to respect for FPL,
22 their employees, NRC Staff, 95 percent of NRC's
23 budget, I believe, comes from the industry that you
24 regulate. And I think that, that sets a little bit of
25 a tone in terms of our motivation for approving and

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1 not.

2 Within that you exist as a safety culture,
3 you exist to keep people and the environment safe. It
4 says it right at the bottom of your logo. Protecting
5 people and the environment.

6 The safety oversight is constant with
7 relentless and we're very grateful for that. But it
8 belies the fact that nuclear energy is a very
9 dangerous business.

10 And it is odd, I find, that the safety
11 review happens separately, and even after, time wise,
12 from the environmental review. Because it's the
13 environmental impact, consequences to the environment
14 and human health that the safety review is trying to
15 prevent harm, right. That was a really bad sentence.

16 So, nuclear power is dangerous, it's
17 costly. We know that, it's very costly. It's one of
18 the reasons that Florida Power and Light chooses to
19 use that as a main focus for future power generation
20 because it's an unregulated cost that they can, under
21 Florida's regulated utility business, can recover
22 their costs in advance under early cost recovery.

23 So it's a good, good business for them.
24 We understand that. And we understand that they're a
25 very good employer and they're very good for

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1 employees, I'm sure their shareholders. So we
2 understand the goals and motivates for wanting to do
3 this.

4 But as well as being costly, it's
5 polluting. And I won't repeat all of the groundwater
6 contamination, tritium, the bay, the aquifer, any of
7 those considerations.

8 But please recognize that all of these
9 casts the unsustainability and the dangers will be
10 exasperated under a moving target, with the
11 uncertainties of climate change and the uncertainty of
12 the structural integrity of the aging parts. We don't
13 have any experience with 80-year-old reactors. Oh,
14 maybe you do. I heard that we don't.

15 But, I think that we've seen dangers,
16 we've seen accidents happen. We've seen cracks at
17 Crystal River, we've seen Three Mile Island. We've
18 seen things happen that are a result of aging or a
19 failing parts.

20 So, I think that climate change and the
21 aging parts both form a moving target that adds an
22 uncertainty and adds an extra danger to the costs and
23 to the dangers.

24 My daughter is 15, and I was thinking
25 about, as the EIS is required to consider the issues

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1 of health, historic, cultural, geologic, water, I was
2 thinking that maybe we need to, if it doesn't already,
3 go a certain number of generations.

4 Our children live in a world where they
5 don't have any leadership, they don't have a way that
6 they do things. So, when they have to make a decision
7 of whether they go this way or that way when they hit
8 the fork in the road, there is no stress on them for
9 change. But change does not cause stress because they
10 aren't changing.

11 My daughter is one of the eight few in the
12 climate lawsuit against the State of Florida right
13 now. And while so many people are in denial over
14 climate change because it's very stressful, because we
15 have to change, we have to go back and re-tool and put
16 solar panels on houses, put windmills out in the
17 ocean, kids don't feel that way.

18 Kids don't have to change because they
19 don't have already their habits established. So, why
20 don't you look at the world from their perspective and
21 take this safe route that they would perceive to be
22 the smart thing if only for their futures. Thank you.

23 MR. BURTON: Okay, thank you, Rhonda.
24 Because of the limited time left, I'm going to ask the
25 remaining speakers to try and limit their comments to

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1 no more than two minutes, if possible.

2 Yes. Albert Gomez followed by Orpha
3 Harper and then Bob Bertelson.

4 MR. GOMEZ: I'm versed in photo quality
5 management and I represent manufacturers in ISO
6 certified different levels, ISO 1345, 1900, AS9100,
7 I'm a supplier, indirect supplier FPL, both for
8 nuclear and for solar.

9 I am also a local advocate. I am a
10 cofounder of the Miami Climate Alliance. I recognize
11 a lot of the NRC folk, I recognize some of the FPL
12 folk, even their committee relations manager, which
13 unfortunately left.

14 This is a very interesting dynamic for me
15 because I find myself in a very similar situation then
16 the NRC finds themselves in, in that you do get your
17 funds from, a large portion of it from the industry.
18 And you are the nuclear regulatory commission.

19 So, you're not regulating the sun
20 necessarily, but you are regulating nuclear power.
21 And that's a difficult predicament to be in, in any
22 given case for whatever industry you're in. It's who
23 you're regulating it to, financing.

24 And regardless of your stance on nuclear
25 per say, there is, you guys are required to follow

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1 protocol in management standards. I believe it's in
2 one of your protocols.

3 And I've been trained on operational
4 excellence and continuous improvement. And frankly I
5 have not seen that at Turkey Point.

6 I understand the value of jobs, I create
7 jobs every day. And I support, like I said, suppling,
8 I've been to many supply events for Turkey Point, and
9 I've had buyers tell me, just get me pumps, as many
10 pumps as you can find. Because they know their issue.

11 There's scarcity in certain things that if
12 they fail, the plant would fail. With that point, the
13 point earlier that was made that safety is somewhat
14 disjointed, there is a hierarchy there. And failure
15 and safety would drive other environmental impacts
16 that should be considered.

17 Like the vessel metallurgy, things of that
18 nature. Things that have to be addressed in an
19 intersectional way, not just separated.

20 Furthermore, I'm on the Sea Level Rise
21 Committee for the City of Miami. I'm speaking as a
22 citizen here.

23 But the compact compels us to adhere to
24 the sea level rise standards that are registered under
25 Miami-Dade County, under the state, under NOAA. And

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1 it's a little disheartening to see that they're
2 referencing NOAA tidal gauges for their sea level rise
3 standards in this application when NOAA is clearly
4 stating a much higher sea level rise.

5 That discrepancy needs to be reconciled in
6 how it applies to the data that's submitted within
7 their application.

8 Also, some comments were made about solar
9 panels not being able to handle the five, a Category
10 5. Actually, I supply a lot FPL's solar panel
11 components. And Cat 5 solar panel components and
12 systems are available.

13 I am going to present a formal written
14 document and submit it before the deadline.
15 Conservatism aside, I would say that your, the
16 commonsense approach to common defense, which is your
17 core directive, should be considerate to the changing
18 dynamics of the natural hazards.

19 You guys are required now to implement the
20 POANHI, I believe, in any review. And the ongoing
21 hazards and the lack of accurate information included
22 in this application is, I don't want to call it a
23 poor, it's a negative statement, I want to call it, it
24 doesn't meet the requirement for the cause. The cause
25 is to get this reactor renewed.

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1 And your regulatory initiative is
2 required, tasked to that. So I'd ask you to please
3 review that. There are too many discrepancies in this
4 application.

5 Obviously best practices, which you are
6 also required to implement, would require them to a
7 close-loop system.

8 MR. BURTON: I'm sorry, Albert --

9 MR. GOMEZ: I understand.

10 MR. BURTON: -- I don't mean to cut you
11 off.

12 MR. GOMEZ: I understand.

13 MR. BURTON: We want to be fair to other
14 speakers.

15 MR. GOMEZ: Yes, I understand. I
16 understand. There are a variety of different things
17 that I would like you to address.

18 I know that we can have an ongoing
19 conversation about this. I look for that and I will
20 be submitting documents. And if you have any
21 questions whatsoever on those documents, please, by
22 all means, please contact me. Thank you.

23 MR. BURTON: Great, thank you. Next is
24 going to be Orpha Harper followed by Bob Bertelson and
25 then Tiffany Grantham.

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1 MS. HARPER: Good afternoon, my name is
2 Orpha Harper and I work for FPL. And I'm also a
3 member of the IBEW, which stands for International
4 Brotherhood of Electrical Workers.

5 I've been with FPL for 13 years as an
6 electrician. My husband also works in Turkey Point as
7 a chemist.

8 I reside in the wetlands area, I'm also a
9 beekeeper and a lover of nature. With that being
10 said, yes, I love the environment and I'm constantly,
11 with our own workers, rescuing ever little animal that
12 is left by their mom in our area.

13 I employ you to please extend our license.
14 Not just for me to be able to retire at a place that
15 I enjoy working, but also for those that are going to
16 follow us.

17 All those nuclear students that are
18 looking to improve their knowledge, because there is
19 so much to learn. There is so much to learn there.

20 And I want, also to those that are worried
21 about hurricanes, where they weren't prepared for four
22 or five, Category 4 or 5, I ask you to come in, I
23 invite you to come and have a tour. We give tours.
24 And you'll see how prepared we are for these
25 hurricanes. You'll be surprised.

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1 And also, constructing the cooling towers
2 does nothing to improve our conditions at all, it just
3 increase the taxpayers to pay more.

4 So, again, why trust us? Because our main
5 concern is not only our safety, but the safety of the
6 public. Thank you so much.

7 MR. BURTON: All right, thank you, Orpha.
8 Next is Bob Bertelson followed by Tiffany Grantham and
9 then Patricia Mann.

10 MR. BERTELSON: Good afternoon. My name
11 is Bob Bertelson, I work for the company. I work, I'm
12 the land utilization supervisor so I manage all the
13 activities that are outside the protected area,
14 including the cooling canal system and protected
15 species.

16 We've heard a lot of information,
17 questions, comments, concerns. I welcome that. I
18 believe in science. I'm part of the scientific world.
19 I also believe in process.

20 But I don't want to talk about the things
21 that we've already talked about, what I really want to
22 do is share 38 years of employment out at Turkey
23 Point.

24 FPL has had a history of environmental
25 stewardship. Back when I was a child, the vision of

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1 our president, McGregor Smith, was an interactive
2 communal retreat at Turkey Point, not only fossil and
3 nuclear energy, but deer and duck pond, Boy Scout,
4 Girl Scout camps. We welcome the community out to
5 Turkey Point, still do. I go to outreach programs to
6 talk about protected species.

7 So, one of the things that we're most
8 proud of at the plant is the crocodile conservation
9 effort. Back when I started working for the
10 conversation program in '96, the story goes, that the
11 civil engineer maintaining thermal efficiency had to
12 have the berms cleared off.

13 The biologist for the crocodile program
14 needed some of the vegetation, such as buttonwood and
15 mangroves, for protection of the babies. So they kind
16 of fought over that because it was a conflict of
17 interest.

18 Well, when the heavy equipment operators
19 started knocking over invasive exotics, such as
20 Australian pines, in the summertime it leaves a root
21 ball in the muck. And overnight it rains, and the
22 next morning when he fires up that equipment, little
23 heads pop out of that little pond, freshwater pond
24 that was created.

25 And so, the biologist and the civil

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1 engineers say hey, if you build it, they'll come. So,
2 we started creating crocodile habitat digging
3 freshwater ponds. And doing it in such a manner that
4 was away from the plant.

5 And so at that time, we had 40, in 1996,
6 we had 40 adult, sub-adult, populations at the plant.
7 When we started creating that habitat, the numbers
8 went up tenfold in ten years. And in 2006 the state
9 down listed the species from endangered to threatened.
10 And today the crocodiles continue. As well as the
11 lease terms.

12 We continue to eradicate invasive exotics
13 which is found in Florida. And we love to talk about
14 more the good environmental stewardship that we have,
15 but I'm being told I'm done.

16 But, one rule that I've always lived by is
17 that, if you love what you do, you never work one day
18 in your life. I've had the honor and privilege for
19 working for the company for 38 years doing just that.
20 Thank you for your time.

21 MR. BURTON: All right, thank you, Bob.
22 We have four more speakers. Tiffany Grantham followed
23 by Patrician Mann and then Matt Schwartz.

24 MS. GRANTHAM: Good afternoon, my name is
25 Tiffany Grantham, I'm with the Broward Chapter

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1 Democratic Parties, the Environmental Caucus of
2 Florida.

3 I am so impressed with what I have heard
4 today from these people that care so much about our
5 environment and of course the people who live here.
6 I want to thank, because I know we're not going to
7 take too much time, I want to thank the Miami
8 Waterkeepers, the Biscayne National Park, the Monroe
9 County Commission, the Audubon Society, the Southern
10 Alliance for Clean Energy.

11 These are people that, and I can go on,
12 the individuals who spoke so well. These are people
13 that you have to listen to.

14 I've learned so much in this hour I can't
15 even believe it. I worked for the Miami Herald for 25
16 years also, I'm retired, but I believe that the storm
17 surge was 18 feet with Hurricane Andrew. Just one
18 more little fact up the road.

19 You've got to listen. You have to have
20 learned as much as I have, if not more. And with all
21 the written material too.

22 This is so important. We don't know what
23 the future is going to be and I just want to thank you
24 so much for letting all these people speak.

25 MR. BURTON: Okay, thank you, Tiffany.

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1 All right, next is Patricia Mann followed by Matt
2 Schwartz. And then our final speaker, Zach Cosner.

3 MS. MANN: Hello everyone, my name is
4 Patricia Mann. I am here supporting Turkey Point's
5 renewal of the license.

6 We are, at Turkey Point, we're committed
7 to safety. That's the number one thing. So everybody
8 knows that. It's your safety, our safety, the
9 environment, everything.

10 We are a great community. We treat each
11 other as family. And for this reason, we really look
12 at everything from the inside. We look at the
13 environment.

14 Every little detail that would harm any of
15 us or the environment we look at, we bring it up.
16 They listen to us, you know. When we mention things
17 that are not right they listen.

18 Some of us are also residents, or former
19 residents, of homestead. Therefore, we know, we get
20 information about the water.

21 In their website, they say we use 300
22 million gallons of water from the aquifer of Biscayne.
23 And there are 210,000 samples that every year exceed
24 the state and federal drinking water samples.

25 Now, talking about the global warming,

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1 there was a New York Times article that mentioned that
2 after signing off the nuclear closed back in 2013, the
3 carbon emissions increased 24 percent.

4 And then I want to say a personal note, is
5 that I met my husband, sitting right there, at Turkey
6 Point. So there is, we're not the only ones there,
7 there is many of us that have families there, we have
8 children.

9 And at some point, all of us are there in
10 the site. Because there's a child care service. So,
11 it's in our own interest that the water, the air,
12 everything that's around us, is clean.

13 And I want to say that, as the people have
14 mentioned, Hurricane Irma. We spent two weeks
15 preparing, or more, as well as our homes. Some of us
16 spent Friday here riding the storm.

17 And I'm very proud to work for this
18 company because I could see the preparation and the
19 interest that we have for safety. Thank you.

20 MR. BURTON: Thank you. Next, we have
21 Matt Schwartz, Zach Cosner --

22 (Off microphone comment)

23 PARTICIPANT: Your microphone is off.

24 MR. BURTON: Oh.

25 MR. SCHWARTZ: Good afternoon, I'm Matthew

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1 Schwartz, I'm the director of the South Florida
2 Wildlife Association. I've addressed you folks many,
3 many times on many issues regarding this facility at
4 Turkey Point.

5 I just went outside and I felt this warm,
6 wet, humid breeze. We're back in the season. We just
7 had a hurricane, not a hurricane, a little tropical
8 disturbance Alberto come through, killed several
9 people in the panhandle.

10 I want to read from your own report on the
11 onsite damage to Turkey Point from Hurricane Andrew
12 back in '92. This is your report.

13 The onsite damage included loss of all
14 onsite power for more than five days, complete loss of
15 communication systems, closing off of the access road,
16 one access road, and damages to the fire protection
17 and security systems in warehouse facilities.

18 There was also a tower smoke stack at the
19 plant. One of the fossil fuel plants that were there
20 that was damaged. It ultimately had to come down.

21 It could have fallen on the backup
22 generators. And those backup generators are what
23 separated Turkey Point from Fukushima. And you know
24 that.

25 You know what happened to Fukushima, that

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1 it wasn't the tsunami that destroyed and caused the
2 meltdown at Fukushima, it was the lack of the
3 electricity, the damage to the onsite generators that
4 were necessary to pump that water to the reactor core
5 and the spent fuel rods. And we had a disaster. And
6 now you got a no man's land around Fukushima.

7 That easily, easily, could have been
8 Turkey Point. It didn't happen. We dodged a bullet,
9 we got lucky.

10 Let's talk a little bit about what
11 happened in the fall. And I guess I only have one
12 copy of this, but this was the trajectory, I'm going
13 to hold it up, this was the trajectory of Irma when it
14 was East of San Juan Puerto Rico.

15 And here it is threading a needle between
16 the Bahamas and Cuba, coming at a Cat 5. And here it
17 is, direct ten on Turkey Point.

18 Let's look at the size difference between
19 Irma and Andrew. More than four times the diameter,
20 way more times destructive power. The storm surge
21 would have been tremendous.

22 Take a look at Turkey Point on Google
23 Earth and look at all the pipes, the fittings. You
24 guys put in new regulations after Fukushima.

25 What happened at St. Lucie when they had

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1 seven inches of rain fall in a five hour period? You
2 had a flooded auxiliary building. You were supposed
3 to check all those seals.

4 And FP&L said, those buildings are sealed.
5 You okayed it, they okayed it. Guess what happened?
6 That building flooded with 50,000 gallons of water.

7 I don't have a lot of time right now to
8 talk about this in detail. I want to mention, I'm
9 getting a one minute warning.

10 Here are some of the cars that were around
11 in 1972. Chevy Vega, AMC Gremlin, Ford Pinto. These
12 were the cars that people were driving in 1972.

13 Does the NRC create a plaque, an antique
14 plaque, for nuclear plants like the Florida Department
15 of Motor Vehicles does? They don't.

16 We are vigorously asking you not to extend
17 the lifetime of this plant. Hurricanes are getting
18 bigger, stronger, wetter. We know that's happening.

19 Sea level rise is surely going to inundate
20 these cooling canals, which are six inches above sea
21 level. There is no lower part of Biscayne, not only
22 the Biscayne shoreline but Miami-Dade County where
23 these cooling towers are.

24 The cooling plants or cooling canals are
25 going to be part of Biscayne Bay very, very soon. And

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1 everything that's in them.

2 There is no reason to extend the lifetime
3 of this plant. We expect you to spend that time
4 working with FP&L on decommissioning. Thank you.

5 MR. BURTON: Okay, thank you, Matt. Next,
6 we have Zach Cosner. And we had lost one speaker,
7 part for one speaker, so our last speaker will be Pat
8 Milone.

9 MR. COSNER: Hello there, my name is Zach
10 Cosner, I am a lifelong resident in Miami-Dade County
11 and a recent graduate at the University of Miami.

12 Turkey Point Nuclear Power Plant provided
13 the power to my childhood home. I am not here to urge
14 the decommissioning of this plant rather I'm here to
15 urge that the NRC apply a purely appropriate level of
16 scrutiny to the many previous assumptions and highly
17 questionable projections that FPL has included in
18 their environmental report, and their analyses.

19 First, is the assumption FPL will be able
20 to cure the deal to perceive 60 million gallons of
21 treated waste from the cost sharing agreement between
22 Miami-Dade County and Florida Power and Light. First,
23 it's important to consider that even though this deal
24 is in discussion, it's contingent upon FPL showing
25 capacity to withdraw the plume and make significant

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1 progress towards withdrawing the plume within a year's
2 time.

3 There's ample reasons to suggest that this
4 task is impossible, that FPL will not be able to
5 withdraw the plume and that this deal is completely up
6 in the air. Therefore it's appropriate to consider
7 that this is not necessarily something that is set in
8 stone.

9 Second is the assumption that FPL will be
10 able to restore and maintain the pre-2010 seagrass
11 beds in the cooling canal system. Even though rising
12 instance of drought, resulting from climate change,
13 will make this task even less tenable than in the
14 past.

15 We've seen the die out of seagrass
16 already, we know that it's happening, and it happens
17 because of drought. Well, one of the major impacts
18 that climate change will have is increased flooding
19 and increased drought periods.

20 So if it's already happened, what's to say
21 that they'll be able to maintain a healthy seagrass
22 bed as it becomes more and more unreliable to do so.

23 It's important to consider that even more
24 uprates are being considered, this likelihood becomes
25 even more untenable.

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1 The cooling canal system out to the
2 seagrass bed is a completely different system than the
3 one you evaluated in 2002. It does not function in
4 the same way at all.

5 I spent a lot of time on Google Earth.
6 You have to go back into 2011 to find a satellite
7 image that is not neon green of the cooling canal
8 system. As it currently exists, it is not a coherent
9 ecosystem, it is a chemical soup that is leaking into
10 the bay.

11 And finally, the third and most egregious
12 faulty projecting that FPL has relied upon, is their
13 analysis relating to climate change. We've already
14 touched upon the sea level rise issue, however, one
15 other thing that FPL fails to mention in their
16 environmental report, is the instance of ever more
17 powerful storms.

18 Now, one of the influences of climate
19 change is to create possibly fewer storms, but far
20 more powerful ones. As has been stated before, FPL
21 has, or Turkey Point has never been directly impacted
22 by a Category 5, but we're entering on the age of the
23 Category 6 hurricane, and FPL is completely silent on
24 the susceptibility of the plant to the influences of
25 such storms.

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1 Finally, as a brief aside, I'd also like
2 to urge the NRC to consider the Biscayne Bay Coastal
3 Wetlands project, which was not in place, was not
4 authorized by Congress during 2002 as the colossal
5 competing interests with the water input for the
6 cooling canal system and it deserves to be considered
7 in your evaluation. Thank you.

8 MR. BURTON: All right, thank you. All
9 right, our last speak is Ms. Pat Milone.

10 MS. MILONE: Hi. I live in Redland
11 nearby. I wanted to make sure that people knew that
12 Turkey Point and myself, we both have a couple of
13 things in common. We have a lot of energy and we have
14 a lot of aging parts.

15 By the time this, in 2033 when this
16 current property license expires, we'll both be
17 pushing 100. If FPL had the type of competition that
18 social media providers have, we'd be looking at a
19 whole different scenario here.

20 I strongly believe, I'm very disheartened
21 by one of the comments that the FPL representative
22 mentioned was that they are fulfilling the standards
23 of our federal government, when in fact our federal
24 government is failing us daily in the amount of
25 pesticides in our food and water. The increased

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1 number of cancers related to that, autism rises, which
2 I consider a direct result of that.

3 And I live on a freshwater well. One of
4 the reasons I'm still here in Redland, Florida is save
5 agriculture and also because I have clean freshwater.
6 I don't rely on city water.

7 To go to the beach now, I have to check
8 Florida Health Beaches, their website, to make sure
9 that from Virginia Key to John Pennekamp in Key Largo,
10 that there's not contamination and the beach is not
11 closed. I have gone to the beach without checking it
12 and all of a sudden, they say, well, we don't
13 recommend that you swim.

14 Turkey Point, the exposé from the Harold
15 was how I found out about the Biscayne Bay pollution.
16 And the Westward, towards my home, desalination
17 problem.

18 The only people that I've heard
19 information about that on is from the Mining Harold
20 Sierra Club and Audubon and other water agencies that
21 are like food and water watch.

22 So, I highly recommend that you deny this
23 application. They have had plenty of time to come up
24 with solutions and remedy it more aggressively than
25 they have.

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1 I don't feel that they're putting our
2 welfare ahead of their investors. I feel that they
3 should be more much more aggressive in the cleanup
4 process now that it's been exposed. Not from them,
5 but from the Mining Harold and other agencies.

6 And is that it for me or do I have one
7 more minute? Okay.

8 So, again, I think that I'm not reassured
9 at all by the government agencies. The EPA is not
10 protecting us. I'm hoping that your agency will
11 really, really look out for us.

12 Because my house was in the eye of
13 Hurricane Andrew, in the eye. The only reason that my
14 house is still standing probably, is because Andrew
15 went through at 18 miles an hour, did not rest over us
16 like some other hurricanes do.

17 So please be considerate of both of our
18 ages, the Turkey Point, and somehow making it
19 hurricane resistant and definitely cleaning up the act
20 that they have perpetrated. I mean, again, this is
21 moving my way too, not just the bay, it's moving west.

22 And agricultural relies on freshwater and
23 so do I. And everybody else around here. Thank you.

24 MR. BURTON: Okay, thank you, Pat, I
25 appreciate it. Okay, we had 25 speakers today, we

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1 really appreciate it.

2 I know we rushed some of the last few but
3 I really want to encourage you, if you didn't get all
4 of our comments out here, please make sure you submit
5 them for the record. Information on how you can
6 submit the comments are on the screen above.

7 And then we'll ask George Wilson to close.

8 MR. WILSON: Thanks, Butch. I'm George
9 Wilson, I'm the director of division of materials and
10 license from NRC. I want to thank you for attending
11 the scoping and screening meeting for Turkey Point 3
12 and 4 license renewal.

13 I greatly appreciate the comments that we
14 received from you during this meeting. The comments
15 included issues with the cooling canal system effects
16 on potable water and Biscayne Bay, climate change, sea
17 level rise and storm surge and radioactive waste
18 storage.

19 My staff will independently and fully
20 evaluate these issues during their environmental
21 review. With that, I conclude this meeting. And once
22 again, thank you for attending.

23 (Whereupon, the above-entitled matter went
24 off the record at 3:28 p.m.)

25

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Public Scoping Meeting for the Environmental Review of the Subsequent License Renewal Application for Turkey Point Nuclear Plants Units 3 and 4 - Session 2

Docket Number: (n/a)

Location: Homestead, Florida

Date: Thursday, May 31, 2018

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Pages 1-62

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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

+ + + + +

PUBLIC MEETING

+ + + + +

PUBLIC SCOPING MEETING FOR THE ENVIRONMENTAL REVIEW
OF THE SUBSEQUENT LICENSE RENEWAL APPLICATION FOR
TURKEY POINT NUCLEAR PLANTS UNITS 3 AND 4

+ + + + +

THURSDAY,

MAY 31, 2018

+ + + + +

The meeting was convened in City of
Homestead City Hall, 100 Civic Court, Homestead,
Florida 33030, at 5:00 p.m., William Burton, NRC,
facilitating.

1 NRC STAFF PRESENT:

2 WILLIAM BURTON, NRR/DMLR/MRPB

3 LOIS JAMES, NRR/DMLR/MRPB

4 MICHELLE MOSER, NRR/DMLR/MENB

5 GEORGE WILSON, NRR/DMLR

6 SCOTT BURNELL, OPA

7 EDWIN LEA, Region II

8 ARACELI BILLOCH-COLON, NRR/DMLR

9 KEVIN FOLK, NRR/DMLR, MENB

10 DARRELL ADAMS, OCA

11 BEN BEASLEY, NRR/DMLR/MENB

12 DANIEL ORR, R-II/DRP/RPB3/TPRO

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P R O C E E D I N G S

(5:02 p.m.)

1
2
3 MR. BURTON: Good evening, everybody.
4 Appreciate you coming out. Just real quick, how many
5 people are here that were here at the earlier session?

6 Oh, gee. Okay. I think that's probably
7 half or maybe even a little more. Okay. So you guys
8 kind of know the drill. My name's Butch Burton. I'm
9 from the U.S. Nuclear Regulatory Commission, NRC. And
10 I work in our Office of Nuclear Reactor Regulation.

11 And I want to welcome all of you to the
12 second public meeting for the Subsequent License
13 Renewal Application for Turkey Point Nuclear Units 3
14 and 4, submitted by Florida Power & Electric.

15 I'm a project manager for the NRC Staff's
16 Environmental Review, but today I'll be serving as
17 your facilitator. My role as facilitator is to ensure
18 that today's meeting is informative, productive and
19 stays on time.

20 Before we get started, I'd like to a few
21 minutes to go over some logistics. First of all, no
22 food, beverages or smoking in the room. If you have
23 anything that rings, beeps, buzzes, talks back to you,
24 if you could turn it off or mute it, that would be
25 good.

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1 For those of you who don't know how to get
2 to the restroom, the men's room is on this side, as
3 you come out those doors. Ladies' room is on this
4 side, as you come out those doors.

5 If, for some reason, we're asked to
6 evacuate the building, we'll ask you to follow the
7 instructions and some of the security personnel here.
8 We'll muster outside and make sure that we can account
9 for everyone.

10 Today's meeting is a Category 3 meeting.
11 For those of you who are not familiar with the NRC's
12 meeting categories, a Category 3 meeting is typically
13 held with representatives of non-governmental
14 organizations, private citizens or interested parties
15 or business or industry to fully engage them in
16 discussion.

17 These meetings provide an opportunity for
18 the NRC and the public to work directly together to
19 make sure that the issues and concerns are understood
20 and considered by the NRC.

21 The objective is to provide a range of
22 views, information, concerns and suggestions with
23 regard to regulatory issues. Now today's meeting will
24 be transcribed. So when you're speaking, if you can
25 either come up to the podium or we can bring you one

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1 of the hand-held mics, if you provide your name and
2 affiliation and then please speak.

3 Now we do have meeting feedback forms
4 available, so after today's meeting, we'd like for you
5 to take a few minutes to fill out the form and return
6 it to us, or you can provide feedback directly
7 through, to the NRC, to our website. And so you can
8 provide it electronically. We do take your feedback
9 very seriously. We use the feedback to help improve
10 future meetings.

11 Now for those of you who have taken a look
12 at it the agenda, you say, you know, we have a lot to
13 talk about today. We are going to try to stay on
14 schedule. We're going to try and do that a little
15 better than we did first session.

16 We want to make sure we hear from
17 everyone, and we want to make sure that everybody gets
18 sufficient time to make their comments. But we do ask
19 that, because time is limited, we're going to ask you
20 to be very concise with your comments and, hopefully,
21 everybody will get an equal shot to share what they
22 want to share with us.

23 If anyone is using recording devices,
24 that's fine. We're perfectly okay with that. But we
25 would like to make sure that everyone else knows who's

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1 recording and who's not. So one of the -- it's
2 permitted. If anyone is going to be recording the
3 meeting, if you could kind of raise your hand and let
4 us know.

5 (Off-microphone comment)

6 MR. BURTON: I'm glad you brought that up
7 because after the first --

8 PARTICIPANT: Could you repeat the
9 question? Repeat the question on the microphone.

10 MR. BURTON: One of the -- some of the
11 feedback that we got from the first session was that
12 some people couldn't hear very well and our
13 transcriber was one of those people. So we do want
14 folks, when they do come up to speak, to speak loudly
15 and make that sure everyone in the room can hear you
16 and the transcriber can pick up. So, thank you. I
17 appreciate that.

18 Any other questions? Okay. We have a
19 number of NRC staff here today, and they're here to
20 address any questions you may have on our processes.
21 But I do want to point our presenters for today. Our
22 first speaker's going to be Ms. Lois James, who heard
23 from a little bit, just a minute ago. She will
24 provide an overview of the NRC staff's Safety Review
25 process.

1 After her will be Ms. Michelle Moser,
2 standing right next to her. Michelle will provide an
3 overview of the staff's environmental review. And
4 finally, to close out the meeting, we'll have Mr.
5 George Wilson, our director of the Division of
6 Materials and License renewal in NRR.

7 So I think we'll go on and get started
8 with Lois.

9 MS. JAMES: Thank you, Butch. I don't
10 want to have problems with anybody hearing me. Let me
11 know if you can't hear.

12 Good evening. My name is Lois James. I'm
13 the Safety Project Manager for the Turkey Point
14 Subsequent License Renewal. Our goals today are two-
15 fold. First, to provide you with an overview of the
16 subsequent license renewal process, both safety and
17 environmental. And then, two, to get your input as to
18 what environmental issues that NRC should consider in
19 our review. Next slide, please.

20 The agenda for today's meeting begins with
21 the staff providing an overview that I just spoke
22 about. After the NRC's presentation, attendees can
23 ask questions about the presentation and the process.

24 In order to match my time to the public to
25 comment on and try to provide their comments for the

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1 environmental review, we'll only address questions
2 about the process itself. The final part of the
3 meeting is the most important. You provide your
4 thoughts and comments on what should be included in
5 the NRC environmental review. Next slide, please.

6 The license rule review proceeds in
7 parallel reviews, a safety review and an environment
8 review. Across the top of the slide is the
9 environmental review, and Michelle Moser will discuss
10 this in a little bit.

11 Along the bottom is the safety review.
12 The safety review has two components, the staff safety
13 review and then the review by the advisory committee
14 on reactor safeguards.

15 The dotted lines in the middle of the flow
16 chart highlighted the opportunity for a hearing in
17 accordance with the Atomic Energy Act. The lines
18 blocked at the far right is the NRC decision on
19 whether to renew the operating licenses. As you can
20 see, this is based on several factors. Next slide,
21 please.

22 The principles in license renewal safety
23 review have not changed since the initial subsequent
24 initial license renewal. And they are the regulatory
25 process provides adequate insurance the plant's

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1 current licensing basis will maintain an acceptable
2 level of safety.

3 Number two, each plant's current licensing
4 basis is required to be maintained during the renewal
5 term in the same manner and to the same extent as
6 during the initial licensing term.

7 The NRC ensures the adequate protection of
8 public health and safety and the environment through
9 our regulatory process. This chart shows the
10 different aspects of the regulatory process. The blue
11 arrows and gray boxes show the current and continued
12 regulatory processes.

13 The red block and arrow show the aging
14 management activities which were added by the initial
15 license renewal. As part of the subsequent license
16 renewal review, the staff will review the
17 effectiveness of the applicant's aging management
18 activities.

19 Okay, the next slide, actually, I think
20 the previous slide. One slide fell out of order.
21 Yes, the safety review. The focus of the safety
22 review is to identify the aging effects that could
23 impair the ability of systems, structures and
24 components within the scope of the license renewal to
25 perform their intended functions and then to

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1 demonstrate that these aging effects will be
2 adequately managed throughout the period of extended
3 operation.

4 This focus has not changed from initial
5 license renewal. Since that location contained
6 proprietary information, the NRC conducted a
7 proprietary review and issued its proprietary
8 determination on that information on April 3rd.

9 In order to be more effective and
10 efficient with time and resources, the NRC has divided
11 its review into sections. The first part is the
12 operating experience audit which was conducted May 7th
13 through the 18th. This audit review, the applicant's
14 operating experience information and corrective action
15 system for data applicable to aging related issues.

16 The second section of the review is the
17 in-office review and the in-office audit where the
18 staff will review documents and references in the
19 application in more detail.

20 Finally, the NRC will conduct an onsite
21 audit of the plant facility and additional documents,
22 as needed. The staff would like to make its review in
23 a Safety Evaluation Report, or SER. In the past the
24 staff has issued safety evaluation reports with open
25 items. For subsequent license renewal, our goal is to

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1 issue the safety evaluation report once with no open
2 items.

3 And that conclude the discussion on the
4 safety review. And I will hand it over to Michelle.

5 ENVIRONMENTAL REVIEW

6 MS. MOSER: Thanks, Lois. Good evening.
7 My name is Michelle Moser, and I'm a biologist working
8 on the Turkey Point environmental review.

9 The environmental review is conducted in
10 accordance with the National Environmental Policy Act
11 of 1969, commonly referred to as NEPA. NEPA requires
12 federal agencies to follow a systematic approach in
13 evaluating potential impacts from the proposed action
14 and alternatives -- thank you -- the proposed action.
15 Can everyone hear now? All right.

16 Fellow participation is an important
17 aspect of the NEPA process. Environmental review bio-
18 stems on the above slide are highlighted green. That
19 included public participation.

20 The environmental review begins with a
21 scoping process which includes today's public scoping
22 meeting. Scoping is a process by which the NRC staff
23 identifies specific impacts and significant issues to
24 be considered in the environmental impact statement.

25 The NRC staff will consider all of the

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1 scoping comments presented here today as well as in
2 writing within the draft's environmental impact
3 statements. The staff will also conduct an
4 independent assessment looking at new and significant
5 information including an environmental site project.

6 The NRC staff will publish its findings
7 within a draft environmental impact statement that
8 will be issued for public comments. That public
9 comment will be the second opportunity for you and
10 other members of the public to participate in the
11 environmental review process.

12 Again, the NRC staff will consider all
13 comments received in preparing and updating the final
14 environmental impact statements.

15 I'd like to take a few minutes to discuss
16 what we mean by scoping and your role in this process.
17 The NRC staff uses scoping to determine the range of
18 issues and alternatives to be considered in an
19 environmental impact statement.

20 In addition, scoping comments help
21 identify significant issues that will be analyzed in
22 greater detail. Scoping is also intended to ensure
23 that concerns are identified early and properly
24 evaluated throughout the review.

25 You are an important part of the scoping

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1 process. Because you are familiar with your
2 community, your comments will help to facilitate a
3 thorough review. You can assist this process by
4 telling us, for example, what aspects of your local
5 community we should focus on, what local
6 environmental, social and economic issues the NRC
7 should examine during our review and what other major
8 projects are in progress or planned in the area.

9 The NRC issues the following documents in
10 association with the environmental scoping process.
11 The NRC initially issues a Notice of Intent to prepare
12 the environmental impact statement and to inform the
13 public about the scoping process.

14 The notice identifies the federal action,
15 the comment period and the methods by which comments
16 can be provided. We have copies of the notice at
17 today's meeting at the front table by the door.

18 The NRC also issues scoping letters to
19 federal, state and local agencies as well as tribal
20 nations in press releases and newspaper advertisements
21 to advance public meetings and the scoping process.

22 At the conclusion of the scoping process,
23 the NRC will prepare and issue an environmental
24 scoping summary report that describes comments
25 received during the scoping period.

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1 Within the environmental impact statement,
2 the NRC evaluates the potential impacts to a broad
3 range of environmental resource areas including human
4 health, air quality, wetlands and threatened and
5 endangered species.

6 The NRC conducts this review by building
7 upon decades of previous experience analyzing
8 environmental impacts for power plant operations. We
9 will focus our review on site-specific impacts by
10 reviewing the best available current information.

11 In conducting our environmental review, we
12 will be coordinating with other federal, state and
13 local officials as well as tribal leaders. This
14 coordination helps to ensure that local resource
15 specialists are involved in the review.

16 Some of the agencies we are coordinating
17 with include the U.S. National Park Service, the U.S.
18 Fish & Wildlife Service, the U.S. Environmental
19 Protection Agency and Miami-Dade County.

20 Ultimately, the purpose of the
21 environmental review is to determine whether or not
22 the environmental impacts of license renewal could be
23 so great that reserving the action of license renewal
24 for decision makers would become unreasonable.

25 The environmental impact statement will be

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1 considered in conjunction with the NRC staff's safety
2 related reviews in recommending to the commission
3 whether to renew the Turkey Point operating license.

4 In summary, these are the factors that
5 will be considered by the commission in deciding
6 whether to renew the Turkey Point licenses. It is the
7 goal of the NRC staff to complete its license renewal
8 review and reach a decision on renewing the operating
9 license in 18 months for the time the application is
10 accepted. This schedule can be extending to
11 accommodate a hearing, if granted.

12 This slide shows important milestones for
13 the safety and environmental review process. It is
14 important to note that these dates are tentative. And
15 I'd also like to note that the safety evaluation
16 report will be a publicly available document.

17 And you are welcome to attend the Advisory
18 Committee on Reactor Safeguards, or ACRS, meetings
19 which are open to the public and will be held at the
20 NRC Headquarters outside of Washington, D.C.

21 The citing of information on how to submit
22 comments after the meeting concludes. Again, we will
23 treat comments spoken during the meeting the same as
24 written comments received after the meeting. Comments
25 will be accepted through June 21st, and they can be

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1 submitted by mail or through regulations.gov.

2 Lastly, this slide shows the website where
3 you can find additional information regarding the
4 Turkey Point review including FPL's application. I've
5 also listed the contact information for the two
6 project managers that are here today, Butch and Lois.

7 This concludes the staff's formal
8 presentation, and I will now turn it back over to
9 Butch.

10 MR. BURTON: All right, thank you, Lois.
11 Thank you, Michelle. What we want to do now is take
12 a few minutes to open it up to folks if anyone has any
13 questions or comments of anything that they just saw
14 in the presentation about our process, how we conduct
15 the safety and environmental review. Anyone have any
16 questions or thought on that?

17 Okay, hearing nothing, I think we'll go
18 right into what we're all really here for, which is to
19 give you an opportunity to provide your comments on
20 the environmental issues for the staff's review.

21 Now couple of things. Those of you who
22 want to speak, have filled out yellow cards indicating
23 that you do have comments. Some people, on their
24 yellow card, marked that they were at the prior
25 session and this session. If you marked both, I took

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1 that to mean that you wanted to speak at both. So if
2 you don't, when I call your name, just let me know and
3 then we can -- I can go on ahead and just skip you and
4 we can move on.

5 If there's anyone who didn't somehow fill
6 out one of the yellow cards but would like to speak,
7 please let me know and we'll get you a card and you
8 can fill it out.

9 One thing from the earlier session, we do
10 really want to try to stick to the allotted time.
11 Because what we found is that some folks took longer
12 than the allotted time and we tried to be
13 understanding about that, but then some of the folks,
14 later on, kind of got short-changed in their time. So
15 we don't want to do that this time, if we can avoid
16 it.

17 So what we're going to do is, I'm going to
18 call the first three speakers names so the folks know
19 when they're on deck. And as we go through, I'll just
20 keep doing that. So let's start with Albert Gomez,
21 followed by Zach Cosner and then Matt Schwartz.

22 MR. GOMEZ: Thank you for accommodating.
23 Albert Gomez. I'm a resident. I'm actually going to
24 a planning meeting for Biscayne Bay Marine Health
25 Summit, which I'm on the steering committee of,

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1 critical issue.

2 One thing that I would ask, based on what
3 your intake was from the morning session, is, my
4 understanding is, when the upgrade occurred during the
5 last operation, they did have to go through an
6 emergency authorization request to keep the facility
7 operating at higher temperatures, above the standard
8 operating temperature.

9 And if they are going to operate at that,
10 from that upgrading, there was a Delta on a whole slew
11 of metrics. That Delta is measured. It all gets
12 listed. And if there was that, it's, that is the
13 constant.

14 If they are going to reauthorize it and go
15 to immediate upgrade, will those Deltas be taken into
16 account, into the AIS as a standard operating reality
17 that we're going to have to go to another emergency
18 authorization, another function of upgrading. And I'm
19 wondering if that's part of what's being considered as
20 a function of the AIS that would be pretty or --

21 And then I want to get a little deeper on
22 the body, the Process for Ongoing Assessment of
23 Natural Hazard Information. That is required. That
24 is part of the requirement for this type of reactor
25 now. And it is alluded to both on, I feel did allude

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1 to it on both their -- and it was referenced on the
2 approval notice that the NRC released for their 67.

3 And I believe it's in, referenced lightly,
4 on their renewal application. But I'm going to circle
5 that. I'd like to see if that's, if that is
6 referenced and, if so, part of that body means that
7 they have, they ensure us that the staff proactively
8 and routinely aggregates SS new natural hazard
9 information.

10 That new natural hazard information was
11 present as standards for the sea level rise
12 projection. So if -- I want to make it not so much
13 about the sea level rise projections. It's more over
14 about those have stated common knowledge and standard
15 through the County, through the compact, through
16 various municipalities.

17 And it was not applied. Instead, POANHI,
18 its old prevention was applied. And I'm wondering
19 why, if the, one, it very clearly states that it
20 ensures that the staff brought the matter to the NRC.
21 And this is new natural hazard information. So
22 they're going to old information versus new
23 information, so I'd like to know that.

24 Then also, all, most mayors, Mayor
25 Gimenez, Mayor Suarez, Dan Gelber -- Mayor Gelber,

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1 three that, off the top of my head, have all
2 referenced rain bombs as a new event that occurs down
3 here which has much higher output of rain in a very
4 centralized location. I don't think that natural
5 hazard was talked about or addressed in their
6 reauthorization. It's something that they should
7 consider.

8 And then, in closing, the last statement
9 I would say is that, as another function of the POANHI
10 related that our compounded projections of king tide
11 and maximum storm surge during hurricane-related
12 events, which happens to coincide in October, applied
13 to the scope of the new AIS. I appreciate your time.
14 Thank you.

15 MR. BURTON: Thank you, Albert. For the
16 speakers, just so you know, when you have one minute
17 left, I'll be standing back here. I'm going to put up
18 one finger so you know. And when you're out of time,
19 I'm going to put up a fist. And at that point, please
20 just try to wind it up, and I think we can keep it
21 moving.

22 Okay, Zach?

23 MR. COSNER: Hello there. I had the
24 privilege to address you during the morning session,
25 so I'll keep my comments brief because I only would

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1 like to complete some of the thoughts that I
2 introduced during that session.

3 When I last spoke to you, I raised my
4 final point, the specter of a Category 6 storm. As
5 you know, under a regime of climate change, storms
6 have become more and more intense in the Atlantic
7 Ocean and could potentially wreak massive havoc,
8 massive storm surge in this area, in the vicinity of
9 Turkey Point, which is compounded by the seal level
10 which FPL, right, which FPL has critically under-
11 represented in their environmental report.

12 And to form a note, that during Hurricane
13 Irma, there's never been said, the water levels
14 actually over-topped the top of the berm of the canal.
15 This canal, or this berm, is barely above sea level,
16 if it is. And if the mixing of waters of Biscayne
17 Bay, waters of the L-31 E Canal, which are a water of
18 the State, is not a public -- with a base to open
19 industrial sewer is not a health hazard, I would not
20 know what is.

21 Now what is a major alternative, like
22 great alternative, that FPL can put in place? Cooling
23 towers. This is the only way to make sure that this
24 cooling system operates and managed -- does not
25 jeopardize public health and environmental health.

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1 A cooling tower can be constructed at
2 elevation. It cannot be overtopped easily by a storm
3 surge. There were plans when they were projecting the
4 development of Units 6 and 7 that they would create a
5 fill base, a base of fill to place to the cooling
6 tower on top of.

7 That would basically provide an effective
8 means of shielding the plant from, and the cooling
9 system, from the effects of climate change. I would
10 urge you to try and compel FPL to construct this very
11 common sense safety mechanism. Thank you.

12 MR. BURTON: All right. Thank you, Zach.
13 Next we'll have Matt Schwartz, followed by Erik
14 Gonzales and then Kerry Black.

15 Well, all right, I guess we have too many
16 here. Erik Gonzales, Kerry Black and then we'll have
17 Jennifer Allman.

18 MR. GONZALES: Okay, good afternoon. My
19 name is Erik Gonzales, and I'm a Nuclear Reactor
20 Operator at Turkey Point. I've been an operator at
21 Turkey Point for over ten years. I'd like to thank
22 the NRC for the opportunity, and everyone here
23 involved, for the opportunity to discuss a few things.

24 First, obviously, I'd like to encourage
25 the NRC to allow a license extension. I believe it's

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1 very important. I have a few reasons here.

2 Units 3 and 4 have provided power to just
3 under a million homes for over 44 years with a hundred
4 percent carbon-free footprint, with a particular focus
5 on the health and safety of the public it serves and
6 the area in which it's located.

7 Turkey Point tries to maintain a respect
8 for the unique environment in which it resides. A
9 great temple of that would be a safe haven for the
10 American crocodile that they've provided. It's one of
11 the few environments where both crocodiles, alligators
12 -- American crocodiles and American alligators are
13 able to co-exist.

14 And since Turkey Point has taken over the
15 custody -- or not the custody, but the maintenance of
16 that area, the population has gone from somewhere in
17 the neighborhood of 40 to over 400 and they
18 essentially, give or take a fifth of the alligator, of
19 the crocodile population there, which is great.

20 I think that speaks to the health of --
21 the healthy condition of the canal alone. Also, we
22 continue to improve every aspect of the plant, every
23 day, in everything we do, from the equipment that we
24 operate, the equipment we used to control the plant
25 and the personnel that we use to run the plant.

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1 I, myself, am required to pass a
2 requalification process every five weeks to ensure
3 that I'm at my best every time I'm at the controls.
4 As a reactor operator, I've been licensed and charged
5 with safeguarding the public which I serve. And that
6 includes my family, my friends and the land I love.

7 My family and I live less than 15 miles
8 away from the plant. And we've never felt safer.
9 Often I'm asked if there's something I should be
10 concerned with or if people should be concerned with
11 anything about my job. And I can't think of a better,
12 safer place to work than Turkey Point.

13 During Hurricane Irma, I was at the
14 controls in the control room. And the consideration
15 that management took for the health and safety of the
16 public and for the personnel left me with a strong
17 impression. I was impressed with their decision
18 making process and the things that they were focused
19 on -- obviously, the safety of the public and
20 maintaining the plant.

21 So, in conclusion, I'd just like to
22 implore the NRC to strongly consider renewing the
23 license. For me, it's very important, and thank you
24 again for your time.

25 MR. BURTON: All right. Thank you, Erik.

1 Next we have Kerry Black, followed by Jennifer Allman
2 and then Mark -- I hope I'm getting this right --
3 Bromkey? Apologize if I got that wrong.

4 MS. BLACK: My name is Kerry Black. I'm
5 the CEO of the South Bay Chamber of Commerce. I'd
6 like to comment for a couple of moments on the
7 statistics of the impact -- leading on the impact that
8 Turkey Point operating system on Miami-Dade County
9 region, in a particular cell, Miami-Dade County.

10 Turkey Point supports Miami-Dade around
11 the clock. It preserves clean air and addresses
12 climate change. Turkey Point includes two zero-
13 emissions nuclear-generating units, Unit 3 and Unit 4,
14 and one high-efficiency natural gas unit, Unit 5.

15 Turkey Point operations generate an
16 estimated \$1.7 billion of economic output annually,
17 employ more than 800 full-time employees and hundreds
18 of contract workers who live in nearby South Florida
19 communities.

20 Annual reviewing outages require more than
21 2,500 additional personnel to visit the plant,
22 supporting local lodging, restaurants and hundreds of
23 other local businesses. Approximately 38 million of
24 FPL's annual \$102 million in property taxes is due to
25 Turkey Point Units 3 and 4. FPL is the number one

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1 property taxpayer in Miami-Dade County.

2 The licenses for existing Turkey Point's
3 unit expire in 2032, Unit 3, and 2033, Unit 4. The
4 application for license renewal for an additional 20
5 years is the most economic option. This renewed
6 license will bridge the gap to the middle of this
7 century as it's not feasible to construct new units at
8 this time.

9 It offers \$2.8 billion in savings for FPL
10 customers over the next closest alternative, a natural
11 gas unit or plant. It does not add new gas pipelines
12 or transmission lines. It maintains locational data
13 bits to maintain system stability and reliability.

14 It will retain trained and local workforce
15 and supporting businesses. FPL gives over \$1.1
16 million annually to the Miami-Dade civic, educational
17 organizations and general services. Thank you.

18 MR. BURTON: Sorry. Jennifer Allman
19 followed by Mark Bromley, I apologize, and then Kent
20 Nelson.

21 MS. ALLMAN: Hello. My name is Jennifer
22 Allman. I've moved here in Homestead in 2006. That's
23 when I was hired at Turkey Point. I work in Radiation
24 Safety. I've been in this field for almost 20 years.

25 My personal experience with FPL has been

1 very good. We are one of the safest companies that
2 I've ever worked for. I've worked in a lot of nuclear
3 industries, not just nuclear power, and I raised my
4 family here. And I live about eight miles away from
5 the plant. And I don't have any worries.

6 We also are connected. And I say we
7 because at FPL we are a team, the employees. We have
8 a very strong belief in the environmental and
9 radiological safety. And I just wanted you to know my
10 opinion. Thank you.

11 MR. BURTON: Thank you, Jennifer.
12 Appreciate it. Okay, next is Mark -- is it Bromley?
13 Okay. Mark Bromley and Kent Nelson and Maria Parra --
14 I hope I'm pronouncing that correctly.

15 MR. BROMLEY: Hi. Thank you. My name is
16 Mark Bromley, and I too work for FPL's Radiation
17 Protection Department. But before I turn there, I
18 grew up here in the Homestead area and spent my high
19 school years, in the summertime, working for the Park
20 Service, at YTC, growing a huge appreciation for the
21 resources that we do have out in our glades and out in
22 Biscayne Bay and the reefs, coral reefs. It's where
23 we were diving. It's very unique for what we have
24 here in the United States.

25 Anyway, in the 90s, I worked for the State

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1 of Florida, with the Department of Health, here at
2 Radiation Control. And in that role, we interacted
3 with FPL as regulatory agent, not with license, but in
4 monitoring the environment surrounding the place.

5 Anyway, to this day, we still, the State,
6 continues to monitor the air, water, the resources in
7 the Bay and surrounding plant. We contain all the
8 milk and, in general, keep tabs on everything that
9 goes on. And it continues, as we speak, on a day-to-
10 day basis.

11 In the late 90s and to present, I would
12 come to work with Turkey Point as in a full-time role,
13 and I realized the dedication that they have shown to
14 protect that resources that I've grown to cherish and
15 the due diligence that our lending folks have
16 maintained, the crocodile population.

17 And to the extent that FPL will follow,
18 doing the necessary steps to take care of the medical
19 considerations, is astounding, the resource that we
20 deliver to detect that. So we're a learning
21 organization. We constantly are adjusting and
22 learning.

23 And I found that I have confidence in the
24 company to do the right thing, and we're constantly
25 doing that. And that's about all I have. Thank you

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1 very much.

2 MR. BURTON: Thank you, Mark. Okay, next
3 is Kent Nelson, followed by Monica Pria -- is that
4 right?

5 MS. PARRA: Maria Parra.

6 MR. BURTON: Parra -- okay, I'll get it.
7 I'll get it. And then Bryan Paz.

8 MR. NELSON: Good evening. My name is
9 Kent Nelson. I am the Deputy Executive Director at
10 the Florida Keys Aqueduct Authority and Chief Engineer
11 and Chief Operating Officer for the Authority.

12 I am here on behalf of my own board as
13 well as, unofficially, the Board of Commissioners for
14 the Monroe County, which asked that I take the lead on
15 this issue.

16 Just as a general background, the FCAA or
17 the Aqueduct Authority provides water for all Monroe
18 County, just south of Dade in the Florida Keys.
19 Roughly 75,000 permanent residents as well as well
20 over a million visitors a year.

21 The reason why I'm here is that the FP&L
22 canal, our closed canal system with the CCS has been
23 in operation for over four decades. It's been leaking
24 a toxic hyper-saline pool into the Biscayne Aquifer
25 which is our sole water source for all of Monroe

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1 County.

2 Our resource well field is roughly ten
3 miles, so West of here, and we've been tracking
4 movement through our well field, monitoring,
5 indicating that movement and that threat.

6 Currently, FP&L is under a consent order
7 to stop and our track movement. And I'd like to call
8 up to -- thanks to Mr. Lee Hefty here from Department
9 of Environmental Resource Management from Miami-Dade
10 County, who has conducted or is under consent order
11 with FP&L as well as the state to help mitigate that.

12 The concern that we have is that the
13 modeling that was used to build that consent order
14 based on data to date indicates that what FP&L is
15 proposing isn't working. And we have yet to be
16 convinced that it will work in the future.

17 So as a result, at the request of the
18 board and of Monroe County, I ask part of this renewal
19 request we would request also that if an extension is
20 granted, that a couple of conditions be attached to
21 that extension, the first one being that FP&L would
22 mitigate that existing toxic pool by a specified date.
23 And, secondly, that the FP&L decommission the canal
24 system and go to cooling towers which would help
25 prevent and/or exacerbate the existing condition of

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1 the county. Thank you very much.

2 MR. BURTON: Thank you, Kent. Next we
3 have Pria Parra -- hope I -- third time's a charm --
4 followed by Brian Paz and then Bryan Stamp.

5 MS. PARRA: Good evening commissioners.
6 Thank you for the opportunity to speak. My name is
7 Maria Parra, a resident of the city of Homestead and,
8 Miami-Dade College student.

9 Today I would like to voice my opposition
10 to the license renewal for Turkey Point and its grant.
11 For it is crucial that the license renewal application
12 adequately consider the potential impact of sea level
13 rise on the operation of the plant.

14 Sea level rise could increase in the
15 Turkey Point area. My family and I go to Biscayne
16 National Park and the Homestead Bayfront Park often.
17 A few months back, my sister actually went to the
18 beach and to the Biscayne National Park for a cleanup,
19 and the water was rising.

20 So it's evident that sea level rise is an
21 issue. I would like to request that we rise above it
22 and do the right thing for the city in the long run
23 and for our future. While doing my Associate's of
24 Arts at Miami-Dade College, I heard about the tribune
25 in the bay and the aquifer.

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1 And while many residents in Homestead can
2 afford purchasing filtered water, many others cannot.
3 It would be a shame if our water continues to be
4 contaminated. We cannot drink dollar bills, money or
5 checks. But we can trust in our government to place
6 the needs of the planet and people over profit.

7 Our aquifer is precious. I learned about
8 it in middle school at the aquifer and lime rock. And
9 it's disappointing to hear the risk and threats of
10 continued contamination. Not only is this an issue
11 about water, but it's also about the animal and the
12 plant life within the park.

13 There are many risks ahead if this license
14 renewal is renewed. To renew this license means to
15 renew and continue water pollution and places the
16 public health at risk, especially considering the
17 deadly mix of nuclear power plant and strong storms
18 occurring.

19 I would petition you to reject the license
20 renewal for Units 3 and 4. Thank you for the
21 opportunity to comment.

22 MR. BURTON: Thank you, Maria. Next we
23 have Bryan Paz followed by Brian Stamp and Tom
24 Southern.

25 MR. PAZ: Hi. My name is Bryan Paz. I'm

1 a resident of Miami-Dade County. I live in West
2 Kendall. Thank you for allowing me to share my
3 thoughts on the proposal to renew Turkey Point's
4 operating license for an additional 20 years.

5 FPL and the NRC, through their oversight,
6 must consider sea level rise and climate change.
7 We're all standing on Ground Zero for climate change.
8 And in the coming decades, Dade County will face
9 serious changes, more lines will be updated. Flood
10 insurance will go up and more people will likely move
11 inland, away from the oceans.

12 So FPL is asking for license renewals that
13 will go through the Year 2053. 2053, I will be
14 probably 60 -- or 60 by then. So, you know, this is
15 very much a big ask. And so I would urge the NRC to
16 do a lot of soul searching and a lot of research
17 before they approve this because this has massive
18 ramifications.

19 A lot will change from now until 2053 --
20 sea levels, average temperatures and the strength of
21 storms. And if these renewals are approved, there
22 will be numerous -- there must be numerous conditions
23 that the NRC should consider giving FPL to assure the
24 facilities are prepared for a new landscape.

25 How will FPL keep the plant safe and

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1 assure onsite, highly radioactive waste is secured?
2 How will FPL prepare for rising seas and stronger
3 hurricanes? Like any of nuclear facility, Turkey
4 Point is vulnerable to a melt-down.

5 Our emergency diesel generators would
6 likely be drowned and shut down if a strong hurricane
7 dropped tons of water onto Homestead. The emergency
8 backup generators are not well elevated or well
9 insulated.

10 As we all know, during Hurricane Harvey,
11 last year, Houston, Texas had 15 trillion gallons of
12 water dropped onto its city. And before 2053, I'm
13 sure that will happen, a similar situation will happen
14 here in Miami. So, you know, the water is, indeed,
15 rising and so must the NRC's expectations for the
16 infrastructure of Turkey Point.

17 So as a young person that will be living
18 in this community for decades to come, if these
19 licenses are renewed, at the very least, that most --
20 very basic conditions should be a cooling tower to
21 protect surrounding life and water quality. These
22 cooling tower retrofits are cost-effective and
23 urgently needed.

24 And then, you know, lastly, I really
25 believe that Turkey Point must prepare itself for the

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1 possibility of many trillions of gallons of water
2 being dumped onto their generators from which a tidal
3 wave or a hurricane in coming decades.

4 So lastly, in closing, there is plenty at
5 stake and lots to consider. To the sea level rise,
6 drinking water quality and the fundamental issues of
7 corporate accountability, accountability for a company
8 like FPL that has not been -- who had not been -- who
9 has been unaccountable for way too long.

10 Thank you for allowing me this time to
11 speak.

12 MR. BURTON: Thank you, Bryan. Appreciate
13 it. Okay, next we have Brian Stamp followed by Tom
14 Southern and Steven Schoedinger.

15 MR. STAMP: Good evening, everybody. I
16 also am a resident of Dade County. I'm the plant
17 manager, as well, out at Turkey Point.

18 During the earlier session as well as at
19 this evening session, you know, I did hear a lot of
20 concerns about the safety of the plant, whether it was
21 hurricanes or canals.

22 And, you know, as far the canals, I have
23 seen the improvements in the canals over the last
24 three years. I have participated in that mitigation
25 strategy. I have seen the commitment from the company

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1 to ensure the long-term health of those canals as well
2 as the long-term impact being improved to the Biscayne
3 Aquifer.

4 You know, a lot of the discussion about
5 the safety of the plant from hurricanes, I was onsite
6 during Hurricane Andrew. I saw the plant operate
7 exactly as it was designed. I saw the plant recover
8 exactly as it was designed. Same thing for Hurricane
9 Irma.

10 So a lot of the concerns that everyone has
11 brought up tonight, I just don't share. And I don't
12 share them because I have seen what that plant was
13 designed for and I have seen how well it did.

14 I also want to just reiterate that some of
15 the folks that were here tonight from the plant, you
16 know, they are committed, as you can see. They are
17 very well trained, and they are as professional as
18 they come. Thank you.

19 MR. BURTON: Okay. Thank you, Brian.
20 Next we have Tom Southern -- oh, okay, Tom Southern,
21 then Steven Schoedinger and then Laura Reynolds.

22 MR. SOUTHERN: Tom Southern. Okay, I'm a
23 carpenter. I live here in Homestead, and I actually
24 did some work for one of your employees just recently
25 and he, too, told me the same thing. Hey, this

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1 plant's safe. There's no -- I won't even argue that
2 point with you guys. I'm sure your employees are
3 telling the truth, as you see it anyway.

4 And so, you know, no -- I'm sure you're
5 being honest and so forth. My concern is that if you
6 guys are in the regulatory, right? Yes. If you
7 guys even read the Miami Herald, which is not -- which
8 is hardly the Miami Times or some of the -- or any
9 newspaper that could be considered some radical
10 liberal rag -- you would -- I don't even know why we
11 even have to have this meeting.

12 Florida Power & Light, the employees
13 accept it completely, has proven themselves to be a
14 criminal power company. They have lied and cheated
15 the public and misrepresented about whether the
16 radioactivity is leaking into the ground water.

17 The cooling towers should have never been
18 built. That's the only -- you guys know all this
19 stuff. It's facts. So why would you even consider
20 letting them continue to expand?

21 The fact that we are here gives at least
22 me, and I'm sure some other people here, pause to
23 think this is just a dog and a pony show, that there's
24 collusion between Florida Power & Light and maybe not
25 you guys personally, but your bosses and that you're

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1 here, gather some little information, listen to us
2 talk, let us vent and you guys will get back together
3 with FP&L in the background and, at some other place,
4 and maybe you'll make some little payment or little
5 accommodations to us.

6 But the thought of even -- okay, I hope
7 that I'm wrong. In fact, I would -- I will die today
8 just so that I can roll over in my grave to find out
9 that you guys have denied them their application.

10 MR. BURTON: Thank you, Tom. Steven
11 Schoedinger --

12 MR. SCHOEDINGER: The comments I have are
13 specific to certain sections of the environmental
14 report that was submitted by FP&L that's online.

15 In the Section 243, under First in
16 Activities, I don't see any mention here that talks
17 about aging elements of the plant. Because I don't
18 see any mentioning about refurbishing those so they
19 can operator as attendants for a continued period of
20 time.

21 I don't see any mention about any kind of
22 refurbishment or improvements to the cooling canals.
23 In Section B, where it again talks about the aging
24 management program, one of the four types of AMPs is
25 performance monitoring program to test the ability of

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1 a structure or component to perform its intended
2 function.

3 And I'd really like the NRC to take a hard
4 look at the canals and their ability, in their
5 condition and the way they're operated, to meet the
6 needs of the increased power generation, as planned,
7 through 2053 for Units 3 and 4.

8 Page 316, Table 3.2-2 talks about the land
9 use within a six-mile radius of the plant. And I
10 agree with what they have here. I just want to point
11 out that, when you add up all the percentages, that 90
12 percent of the area within that six-mile radius of the
13 plant, is surface water and weapons -- and sensitive
14 weapons and water.

15 And again, I'd just like to ask the NRC to
16 take special review of the information and the
17 environmental report that FP&L provided in 3.6,
18 Section 3.6. And that involves 3.6, 3.6.1.45
19 Compliance History, there's surface water sources.
20 And 3.6.4, under water quality.

21 There's a lot of additional information
22 that's been provided by other interested parties in
23 the last ten years and more specific, in the last five
24 years, that are not mentioned in here. And I would
25 like them to take a really thorough look at all this,

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1 all the other information by parties that don't have
2 a hidden agenda, that really are interested in the
3 environmental health and are interested in the plant
4 operating properly.

5 If you take a really, if you compare the
6 data, the information that's in here with this other
7 information that you have access to. Thank you.

8 MR. BURTON: Okay. Thank you, Steve.
9 Okay, next we'll have Laura Reynolds, Wendy Brainard
10 and then Matt Schwartz.

11 MS. REYNOLDS: Thank you. Laura Reynolds
12 representing the plants in the Clean Water Act Case
13 which is -- Southern Alliance for Clean Energy and
14 Friends of the Everglades and Tropical Audubon
15 Society.

16 And I do have some continued comments from
17 earlier. And I know that the time is limited, but,
18 again, in your packets you do have a lot of this
19 information all referenced.

20 One, I just want to say for the record
21 that, because this process requires avoidance and
22 mitigation, one of the things we want you to consider
23 is requiring conditions. And we talked about a
24 condition that fixes the cooling canal system.

25 If that process is not able to be done

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1 under this license extension, I want all of you to
2 tell us that, to say this is the process you need to
3 deal with the cooling canal system within. And, you
4 know, if I made any misstatements about your ability
5 to require those conditions, I apologize, in my
6 earlier comments.

7 But I think it's important that you let
8 the public know because most of the 20 comments or 25
9 comments we heard earlier are focused on the cooling.
10 They're focused on the failing cooling canal system.
11 So I'm asking all of you, because this is a two-way
12 street, to let us know what process it is, where we
13 can fix and address the cooling canal system.

14 So that's number one. Two, a number of
15 people raised crocodiles, a sanctuary for wildlife.
16 Really look at those numbers because after the upgrade
17 we saw a number of, I think it was in FPL's own
18 reporting, half of the crocodile nests died.

19 So if you're looking at protection of
20 endangered species, you really need to take a look at
21 the wood storks. You need to take a look at the
22 crocodile nesting. Those, the conditions within the
23 cooling canal system completely failed. So, again, if
24 you're claiming that this is a sanctuary for wildlife,
25 it wasn't through that time period.

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1 The other thing again, and I focused on it
2 earlier, is that there's misstatements and
3 misinformation or not all of the information that was
4 provided in the environmental report. For example, we
5 know the cooling canal system is built into limestone.

6 The oolitic limestone in Dade County is
7 like a sponge. It's very transmissive. That's a
8 fact. So for FPL, 20 separate times, in their
9 environmental report to say this is a closed loop
10 system and then a dozen separate times to say there's
11 no discharge anywhere, is not true.

12 So you need to make sure you get all the
13 information on how that report updated. I will be
14 submitting a number of comments on their environmental
15 report. I do think it's woefully inadequate. I think
16 that, again, there are -- there's information out
17 there that isn't being supplied.

18 For example, everywhere that Dade County
19 looked with their new monitoring -- just a second.
20 I'll just finish my statement. Everywhere that Dade
21 County looked, with their additional monitoring, what
22 they required as part of the Class 1 permit, they
23 found a plume.

24 For example, in the Barge Basin, Turtle
25 Point, Card Sound, Upwellings, L-31 E, they found it

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1 near the S20F structure. So the point is, more
2 monitoring is needed. We need to really look at this
3 location and make sure that we're not continuing to
4 exacerbate a problems that already exist.

5 Now within your packet, as I said before,
6 you have all the expert reports in the Clean Water Act
7 case. I urge you to take my comments and connect the
8 dots with that. We will be providing written comments
9 by the 21st.

10 But because this is such a complex issue,
11 I do ask you to consider an extension of time on those
12 written comments. You know, it's important that
13 everybody be able to supply you with all the
14 information. Thank you.

15 MR. BURTON: Appreciate that. Next we
16 have Wendy Brainard, and then our last speaker is Matt
17 Schwartz.

18 MS. BRAINARD: Hi. Thank you for
19 listening. As a lay person who lives in Key Largo,
20 and I've been coming to Ocean Marine Club since I was
21 16, we're there for the beauty. We're there for the
22 water. We're there for the fishing.

23 I can tell you my son, who is now 21, is
24 an avid fisherman. He will tell you straight up, in
25 the Bay, the fish aren't there that used to be there.

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1 To bring them a little bit of education, we know the
2 cooling canals are linked in. We know that the
3 nuclear reactor waste is coming out from the canals.

4 And you know that. Everyone in this room
5 knows that. I, as a simple person -- simply
6 unacceptable. Thank you for the FP&L keeping us safe
7 during the hurricane, but bet every single one of us
8 was worried about that at the time.

9 I think the water did rise up. If the
10 hurricane did hit it, I think we would all be very
11 much different situation. I implore that you have a
12 moral standard that says those cooling canals cannot
13 leak. They cannot leak into our beautiful, beautiful
14 water.

15 For the Chamber of Commerce woman, I think
16 her name was Mrs. Black, speaking, yes, of course.
17 But guess what? There is no economy without the
18 water. There is zero economy without the water. How
19 can you have all the fish going away?

20 And, you know, I hope the crocodiles are
21 getting better, but we need water quality. I can look
22 at the water right outside my window and it's
23 different. It's changed. The temperatures are up.
24 The algae plumes are up. There is higher levels of
25 salt.

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1 If you want to say that that's not proven,
2 proving counts, even though you are hiding your money,
3 as a government agency, most of us watch a lot of
4 documentaries, you don't want to be those people on
5 the wrong side of those documentaries coming in.

6 You don't -- you don't want to be sitting
7 here in ten years saying that a woman like myself came
8 up and said, hey, really think about what you're about
9 to do. And what is the answer? The cooling tower --
10 cooling towers are the answer, which is what the
11 alerting clear reactors, I believe that's what they
12 use.

13 As a lay person, I don't really know all
14 of this. Thank you for everyone. I'm learning a lot
15 here today. But, just simply, they're leaking.
16 They're ruining the water. They're ruining the
17 environment. If you're going to renew, it's got to be
18 100 percent something that's not going to continue to
19 ruin our environment.

20 And there is no commerce without our
21 gorgeous water, fishing. And I speak for everybody
22 who lived in the keys and who come down from Dade,
23 don't -- don't do something horrible here. Don't let
24 them continue to let cooling canals leak. And ask
25 yourself, why aren't they anywhere else? Please.

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1 Thank you.

2 MR. BURTON: All right, thank you. Matt,
3 you ready to go? Okay, while Matt's coming up, I'm
4 surprised. We're actually ahead of schedule. It's
5 only 6 o'clock. So if there are other people who
6 haven't spoken, who would like to speak, let me know.

7 And if there are other people who did
8 speak and felt like they weren't able to make all
9 their points and they feel like they want to speak, we
10 may give you another shot. So, please, Matt?

11 MR. SCHWARTZ: Okay. Give me one second
12 to find my place in my copious notes here. So my name
13 is Matthew Schwartz. I am the Executive Director of
14 the South Florida Wildlife Association. It was an
15 organization established in 2010 to protect wildlife
16 and habitat in the Greater Everglades.

17 I did get to speak briefly this afternoon.
18 I'm going to speak similarly to some of the comments
19 I made then, but hopefully I'll have a little bit more
20 time to extrapolate or to kind of expand on what I was
21 talking about.

22 I started off -- I don't have it with me
23 anymore -- but with the information from Notice 9345,
24 Supplement -- well, let me go back to -- give me one
25 second here.

1 I was reading from 9353, which was the NRC
2 report on the impacts of Hurricane Andrew on Turkey
3 Point, on the Turkey Point Nuclear Plant. And I'm
4 just going to read the paragraph, the onsite damage..
5 This is your report.

6 "The onsite damage included loss of all
7 offsite power for more than five days, complete loss
8 of communication systems, closing of the one access
9 road" -- I think there's only one; there is only one
10 access road out there -- "and damage to the fire and
11 security system and the warehouse facility."

12 There was a supplemental report that goes
13 into more detail of what those impacts were. And
14 here's a few of these items that I put down. All six
15 steel-frame turbine canopies collapsed. Two -- one of
16 the two chimneys associated with onsite fossil fuels
17 units onsite were severely damaged.

18 And that position of that chimney could
19 have landed right on top of the building that houses
20 the backup generators. And we'll talk about the
21 backup generators very soon. The base anchors for the
22 vent stack on the Unit 4 containment were lifted.

23 Four, duct work from the radioactive waste
24 building to the vent stack failed due to hurricane-
25 generated missiles. Five, the non-safety high caloric

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1 tank collapsed and fell on various fire protection
2 pumps and pipes, rendering one of the fire protection
3 systems inoperable.

4 Fast forward now to what happened in the
5 fall of 2017 when Irma was bearing down. I gave my
6 proper way to a reporter that was here. But it showed
7 the trajectory of Irma heading right between Cuba and
8 the Bahamas, right? I had a little more time. I'm
9 just warming up.

10 Anyway, the hurricane was heading directly
11 for Turkey Point, a Cat-5. And, by the way, comparing
12 Andrew to Turkey Point -- or Andrew to Irma -- Andrew
13 to Irma. Andrew was a Cat-4/Cat-5 hurricane. Winds
14 were sustained at 145 miles an hour.

15 Irma, 185 miles an hour, it held back, at
16 one point, for 60 hours in a row. The islands in the
17 eastern Caribbean that got the full brunt of that,
18 they described them as being scoured. Scoured. We
19 know what that word means, scoured.

20 This plant would sustained heavy, severe
21 onsite damage from a much smaller hurricane. Lower
22 winds, much less storm surge than Irma would have
23 generated. Had it come in at Cat-5, it would have
24 been a very, very different scenario.

25 Eric Silagy, who we all know as the

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1 director of this company, NextEra, he was quoted in
2 the Washington Post. He said, "We have a tried and
3 true process in place. We have safety. We have
4 safely operated these plants for over 40 years."

5 That's not what happened. They dodged a
6 bullet. They got lucky. The chimney didn't fall on
7 the generators. That's what happened at Fukushima.
8 We have to really compare Fukushima. And I'm going to
9 give you two more bullets.

10 But you can study the effects of Fukushima
11 as well, which, as we know, is another coastal nuclear
12 plant that got hit by a Tsunami. The Tsunami didn't
13 create the melt-down that you had at Fukushima. What
14 happened was the Tsunami wiped out the backup
15 generators.

16 The backup generators couldn't run the
17 pumps. The water wasn't going through the reactor
18 cores. The material melted down. We had explosions.
19 We had three melt-downs, explosions, the release of
20 radioactive gas into the atmosphere. We have a
21 gigantic no-man's zone.

22 Why on earth would we want to risk that in
23 Turkey Point when we know that hurricanes are going to
24 get more intense. That's what all the science says.
25 Hopefully, you guys are making a scientific decision

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1 here on this decision, on this decision to extend the
2 life of this plant 20 years into warmer oceans, warmer
3 air, more water vapor in the air, more water in the
4 oceans.

5 When they studied Harvey, which is also
6 kind of similar, because there we had all kinds of
7 industrial equipment inundated. That's going to
8 happen at Turkey Point. We know that, that the life
9 of the plant right now. And people are talking about
10 the cooling canals. Obviously, nobody is projecting
11 less than six inches, and that's how high these
12 cooling canals are, at best, above the sea level.

13 I'm wrapping up. During the time when I
14 wrote about this, the little edge of Irma passed by
15 southeast Florida. It was just the edge. We barely
16 got a hurricane in the Turkey Point area. I was told
17 that the water level in those canals rose four feet
18 because it's right near -- it's sea level.

19 So essentially, whatever we put in the
20 canals, and people have spoken what's in those canals,
21 are essentially part of Biscayne Bay. Initially, when
22 they built the Turkey Point facility, the non-nuclear
23 part, that warm water was going directly into Turkey
24 Point.

25 Get six inches of sea level rise or a

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1 foot, and nobody's saying we're not going to get a
2 foot, essentially those cooling canals are Biscayne
3 Bay. So we're going back to the original plan of
4 dumping water directly into Biscayne Bay. And that's
5 happening anyway because, as everybody is saying,
6 limestone is transmissive.

7 Those cooling canals are not separate.
8 But the main issue for my, what I'm emphasizing right
9 here, is that there is enormous risk. And, by the
10 way, lessons learned from Fukushima was that you guys
11 ordered all nuclear plants to come up with better
12 flood control. Make sure everything is sealed tight.
13 Make sure water can't get in anywhere.

14 And as you folks know, what happened in
15 St. Lucie? A few years ago, we had seven inches of
16 rain in five hours. One of the buildings got flooded
17 with 50,000 gallons of water. We don't want that to
18 happen at Turkey Point in a critical building that
19 might be necessary to keep the pumps running.

20 What happens if those pumps don't run?
21 How are you going to get anything in there? There's
22 one dirt road -- one road going into the facility. So
23 you are putting, not -- I mean, if you make this
24 decision, it is you. If you make this decision to
25 extend this out, you are putting the entire region at

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1 risk from this plant.

2 And I'm not making this stuff up. When I
3 was looking at those trajectories and I was watching
4 the path play of Irma, I was scared. And I'm going to
5 stop there. I'm getting two notices to stop. But
6 thanks for listening.

7 MR. BURTON: Thank you, Matt. Appreciate
8 it. So, okay, we do have a little time left. So I
9 want to, if there's anybody who did not speak who
10 would like to speak, raise your hand. We'll let you
11 come up and speak and you can fill out one of the
12 cards a little bit later. Anyone?

13 Okay, is there anyone who would like to
14 take a second three-minute round to finish up their
15 thoughts?

16 (Off microphone comments)

17 MR. SCHWARTZ: Can I just make one more?
18 Okay, just so for the record, for our supervisor, our
19 park supervisor of Biscayne National Park here. I had
20 long conversations with Mark Lewis, Department
21 Superintendent of Biscayne National Park, the only
22 national park in the United States with a nuclear
23 plant as its neighbor.

24 And one of the things that he said to me
25 was even if I was a friend of nuclear power, whatever

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1 my opinion is of nuclear power, this is the last
2 place, the lowest point in Miami-Dade County, that I
3 would ever think of putting a nuclear plant.

4 MR. BURTON: Okay, I think one, at least
5 one person wanted to -- one three round, three-minute
6 section round?

7 MS. REYNOLDS: Thanks. I'm glad for the
8 extra time because, of course, there's so much to put
9 on the record here. Wanted to just, since the
10 superintendent was here, I wanted to just let you know
11 that there is a letter from, in your packet that I
12 gave you, from the National Park dated May 2016.

13 And that was based on the numeric nutrient
14 criteria violations that the state has sent. You also
15 have those graphs in your packet. And you will see
16 that for nitrogen, phosphorous and for chlorophyll-A
17 there are graphs on at least two locations in Biscayne
18 Bay emanating from Turkey Point.

19 And how do we know that? Because there's
20 also a tracer that we look at, tritium. And tritium,
21 at the levels that we're seeing, you know, well above
22 background are also associated with these points.

23 So tritium's used as a tracer. You also
24 have a graphic in your packet showing the tritium
25 radius all around the plant at levels in the thousands

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1 and in the hundreds of peak are curious. So that's in
2 your packet as well.

3 Also you do have a position that the
4 Florida Keys Aqueduct Authority has taken and two
5 different resolutions -- one from Monroe County and
6 one from Dade County requesting cooling towers.

7 The last thing I just wanted to wrap up is
8 just to let you know that there is a lot of
9 information here. I would very much like to continue
10 the conversation and, again, like I stated before, if
11 you are not able to set conditions to move this
12 license forward, then I don't think you have a choice
13 but to deny it or find another process in which we can
14 require cooling towers.

15 All of the experts that we've consulted
16 said that is the best method to move forward with to
17 make sure it's safe, to make sure it's resilient to
18 climate change and not open to the environment. You
19 know, this, up until a few years ago, this was
20 dependent on rainfall.

21 If they didn't get the rainfall, the
22 salinity went way up. You know, now they're adding a
23 lot of water. And the addition of that water makes
24 the pollution worse. And so because it's open, it's
25 an open system, it's very vulnerable to climate. It's

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1 vulnerable to sea level rise.

2 And for those reasons, we ask that you
3 consider this or find another process that you can
4 identify for us to make sure that if this does go
5 forward, that we can require a different cooling
6 system that's safer and doesn't pollute the
7 environment. Thank you.

8 MR. BURTON: Lauren -- okay, Bryan? Yes,
9 Bryan Paz, second three minutes. Is there anyone else
10 after Bryan? Okay, I think Bryan will be the last.

11 MR. PAZ: Thanks again for allowing me to
12 speak. I just want to, again, echo what other folks
13 have said.

14 But again, these cooling towers are not a
15 radical request. Again, this is industry norm.
16 There's dozens and dozens of nuclear plants across the
17 country that have cooling towers because they
18 understand it's critical for the integrity of the
19 facility.

20 The cost of these at installation would be
21 in the range of \$220 million to \$310 million. And
22 given that it would just be granted by Units 3 and 4,
23 make up 10 percent of the energy delivered by FP&L,
24 this is a reasonable cost of capital to maintain
25 what's an important system to their energy production.

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1 These cooling tower regimens are critical
2 to ensuring that Turkey Point does not pollute the
3 surrounding aquifer for decades to come. And the
4 current infrastructure in Turkey Point, in my opinion,
5 is already flawed, and we must absolutely ensure that
6 this pattern of weak infrastructure doesn't continue
7 with Units 3 and 4 in the coming decades and the
8 remaining few year.

9 NRC should also just look into whether
10 these facilities are prepared for the projected sea
11 level rise set out by NOAA. their January '17 report
12 states that the global mean sea level is in the range
13 of 0.3 meters to 2.5 meters in this century. And
14 many, obviously many climate scientists believe it to
15 the higher end of that range.

16 So I urge the NRC to -- or actually FPL to
17 submit a plan demonstrating how they will ensure the
18 infrastructure at Turkey Point is prepared to deal
19 with sea level rise and stronger storms. Thanks.

20 MR. BURTON: Thank you, Bryan. Okay,
21 sorry. Zach, please?

22 MR. COSNER: So basically I have one final
23 statement. I want to state that the open heat sink is
24 addressed in the Bill Powers report in the Student
25 Life Clean Energy packet. Bill Powers is the

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1 consultant that we've hired to basically talk about
2 the effectiveness and the efficacy of establishing
3 cooling towers to replace some of the cooling canal
4 system. That is all.

5 MR. BURTON: Thank you, Zach. Anyone
6 else? Second round? Okay, great. I'll turn this
7 off. Okay, we appreciate all the comments. We're
8 about to close out and adjourn, but before we do, I
9 wanted to thank some of the people who helped to make
10 this possible.

11 First of all, I want to thank Mayor Porter
12 and the Homestead City Council, the City Clerk's
13 Office, Ms. Sule and her team lead by Ms. Herrera; our
14 transcriber, Alison Bean, and our security team.
15 Please thank Officer Rodriguez for me.

16 And I think, with that, I'll turn it over
17 to George.

18 MR. WILSON: As Butch said, I'm George
19 Wilson. I'm the director of for Materials and License
20 Renewal for the NRC. I want to thank everyone for
21 attending the scoping and screening meeting for the
22 Turkey Point Units 3 and 4, subsequent license
23 renewal.

24 We greatly appreciate the comments that we
25 received during this meeting. The comments included

1 on this meeting and at the prior meeting, the cooling
2 canal system, how it affects Biscayne Bay and the
3 palatable water, climate change through storm
4 strength, sea level rising or storm surges. And
5 earlier in the earlier session there was a comment on
6 radioactive waste.

7 My staff will independently and fully
8 evaluate these issues during their environment review.
9 One of the key terms there is independently. So I
10 know that there's been a lot of comments brought up
11 about the environmental report. We do our own
12 independent environmental review session.

13 So we look at the environmental report
14 that's given by Turkey Point. And for the final item,
15 we actually do our own independent assessment. I want
16 to make sure that everyone fully understood that
17 point. Would like a question?

18 MS. RIPPINGILLE: I had a question. My
19 question is, as we plan --

20 MR. BURTON: Wait. Excuse me, for the
21 record.

22 MS. RIPPINGILLE: Thank you. My name is
23 Bonnie Rippingille, for the record. I'm a resident of
24 the Florida Keys. FPL represented to us that they
25 would have the well extraction, the extraction system,

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1 extraction wells all lined up and finished by the end
2 of May.

3 To date, we don't know whether that has
4 occurred or whether they're still operating on a
5 somewhat limited system after three years of planning
6 and testing the system. Do you know whether or not
7 they are fully operational now and the time now is
8 called for the ten-year period within which they have
9 to pull back that plume?

10 MR. WILSON: I do not know that. I'm
11 going to actually put -- we have the senior resident
12 from the NRC, the senior resident at the site of
13 Turkey Point inspector to answer your question.

14 MR. ORR: Yes, the recovery well system is
15 in operation. I think that committed date was May
16 15th. I think they met that committed date. But if
17 there's a representative from FPL that would like to
18 expound on that?

19 MR. BURTON: Dan, can you give your name
20 and affiliation?

21 MR. ORR: Oh, I'm sorry. I'm Dan Orr. I
22 work for the Nuclear Regulatory Commission. I'm the
23 senior resident inspector at Turkey Point.

24 MR. WILSON: Yes, I don't know if everyone
25 in the room -- we've actually got inspectors that go

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1 to the site every day that live in the area. Dan is
2 the senior, so he has another inspector.

3 MS. RIPPINGILLE: Do any of the people
4 that are here from FPL know whether or not those, that
5 extraction system is fully operational? Can you
6 verify that? Do you have ten extraction wells built,
7 up and running?

8 MS. JAMES: I'm sorry. I'm a project
9 manager. I tend to try to follow the rules. This
10 outside the process. This is the NRC meeting. Florida
11 Power & Light is not required to provide any answers.

12 MR. BURTON: Okay. With that, I conclude
13 the meeting. Once again, I want to thank you for
14 attending. I do have two comments. Someone talked
15 about -- Florida Power and Light talked about
16 eventually coming up for another power upgrade.

17 That would have its own environmental
18 assessment if they submitted that to us. We don't
19 have any submission for that so the environmental
20 assessment that we're going to do right now is only
21 for the subsequent license renewal.

22 If the plant decides to do another power
23 upgrade, that would have its own environmental review,
24 so I want to just state that.

25 There was also some comments that were

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1 stated about limited significant information, to make
2 sure that we looked at it. We have to look at the
3 significant information. That's what we focused on.
4 In addition, if you look at their regulations, there's
5 an annual update that's required while we're reviewing
6 the license renewal.

7 In that annual update every year, they'd
8 have to include anything that would be new and
9 significant for us to evaluate during evaluation. I
10 just want to make those two points. And thank you
11 guys very much.

12 (Whereupon, the above-entitled matter went
13 off the record at 6:19 p.m.)

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