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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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PUBLIC MEETING

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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.

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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.

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1 For those of you who don't know how to
2 get to the restroom, the men's room is on this side,
3 as 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
24 will be transcribed. So when you're speaking, if you
25 can either come up to the podium or we can bring you

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1 one of the hand-held mics, if you provide your name
2 and affiliation and then please speak.

3 Now we do have meeting feedback forms
4 available, so after today's meeting, we'd like for
5 you to take a few minutes to fill out the form and
6 return 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
12 look at it the agenda, you say, you know, we have a
13 lot to talk about today. We are going to try to stay
14 on 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
18 gets sufficient time to make their comments. But we
19 do ask that, because time is limited, we're going to
20 ask you to be very concise with your comments and,
21 hopefully, everybody will get an equal shot to share
22 what they want to share with us.

23 If anyone is using recording devices,
24 that's fine. We're perfectly okay with that. But
25 we would like to make sure that everyone else knows

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1 who's 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
7 up 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.

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1 After her will be Ms. Michelle Moser,
2 standing right next to her. Michelle will provide
3 an 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
11 me know if you can't hear.

12 Good evening. My name is Lois James.
13 I'm 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
18 to what environmental issues that NRC should consider
19 in our review. Next slide, please.

20 The agenda for today's meeting begins
21 with 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
25 to comment on and try to provide their comments for

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1 the environmental review, we'll only address
2 questions about the process itself. The final part
3 of the meeting is the most important. You provide
4 your thoughts and comments on what should be included
5 in 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
16 flow chart highlighted the opportunity for a hearing
17 in 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
4 licensing basis is required to be maintained during
5 the renewal term in the same manner and to the same
6 extent as during the initial licensing term.

7 The NRC ensures the adequate protection
8 of public health and safety and the environment
9 through our regulatory process. This chart shows the
10 different aspects of the regulatory process. The
11 blue arrows and gray boxes show the current and
12 continued 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
13 7th through the 18th. This audit review, the
14 applicant's operating experience information and
15 corrective action system for data applicable to aging
16 related issues. The second section of the
17 review is the in-office review and the in-office audit
18 where the staff will review documents and references
19 in the 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
23 in a Safety Evaluation Report, or SER. In the past
24 the staff has issued safety evaluation reports with
25 open items. For subsequent license renewal, our goal

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1 is to issue the safety evaluation report once with no
2 open 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
18 bio-stems on the above slide are highlighted green.
19 That 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
21 advertisements to advance public meetings and the
22 scoping process.

23 At the conclusion of the scoping process,
24 the NRC will prepare and issue an environmental
25 scoping summary report that describes comments

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1 received during the scoping period.

2 Within the environmental impact
3 statement, the NRC evaluates the potential impacts to
4 a broad range of environmental resource areas
5 including human health, air quality, wetlands and
6 threatened and endangered species.

7 The NRC conducts this review by building
8 upon decades of previous experience analyzing
9 environmental impacts for power plant operations. We
10 will focus our review on site-specific impacts by
11 reviewing the best available current information.

12 In conducting our environmental review,
13 we will be coordinating with other federal, state and
14 local officials as well as tribal leaders. This
15 coordination helps to ensure that local resource
16 specialists are involved in the review.

17 Some of the agencies we are coordinating
18 with include the U.S. National Park Service, the U.S.
19 Fish & Wildlife Service, the U.S. Environmental
20 Protection Agency and Miami-Dade County.

21 Ultimately, the purpose of the
22 environmental review is to determine whether or not
23 the environmental impacts of license renewal could be
24 so great that reserving the action of license renewal
25 for decision makers would become unreasonable.

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1 The environmental impact statement will
2 be considered in conjunction with the NRC staff's
3 safety related reviews in recommending to the
4 commission whether to renew the Turkey Point
5 operating license. In summary, these are the
6 factors that will be considered by the commission in
7 deciding whether to renew the Turkey Point licenses.
8 It is the goal of the NRC staff to complete its
9 license renewal review and reach a decision on
10 renewing the operating license in 18 months for the
11 time the application is accepted. This schedule can
12 be extending to accommodate a hearing, if granted.

13 This slide shows important milestones for
14 the safety and environmental review process. It is
15 important to note that these dates are tentative.
16 And I'd also like to note that the safety evaluation
17 report will be a publicly available document.

18 And you are welcome to attend the
19 Advisory Committee on Reactor Safeguards, or ACRS,
20 meetings which are open to the public and will be
21 held at the NRC Headquarters outside of Washington,
22 D.C.

23 The citing of information on how to
24 submit comments after the meeting concludes. Again,
25 we will treat comments spoken during the meeting the

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1 same as written comments received after the meeting.
2 Comments will be accepted through June 21st, and they
3 can be submitted by mail or through regulations.gov.

4 Lastly, this slide shows the website
5 where you can find additional information regarding
6 the Turkey Point review including FPL's application.
7 I've also listed the contact information for the two
8 project managers that are here today, Butch and Lois.

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

12 MR. BURTON: All right, thank you, Lois.
13 Thank you, Michelle. What we want to do now is take
14 a few minutes to open it up to folks if anyone has
15 any questions or comments of anything that they just
16 saw in the presentation about our process, how we
17 conduct the safety and environmental review. Anyone
18 have any questions or thought on that?

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

23 Now couple of things. Those of you who
24 want to speak, have filled out yellow cards indicating
25 that you do have comments. Some people, on their

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1 yellow card, marked that they were at the prior
2 session and this session. If you marked both, I took
3 that to mean that you wanted to speak at both. So
4 if you don't, when I call your name, just let me know
5 and then we can -- I can go on ahead and just skip
6 you and we can move on.

7 If there's anyone who didn't somehow fill
8 out one of the yellow cards but would like to speak,
9 please let me know and we'll get you a card and you
10 can fill it out.

11 One thing from the earlier session, we do
12 really want to try to stick to the allotted time.
13 Because what we found is that some folks took longer
14 than the allotted time and we tried to be
15 understanding about that, but then some of the folks,
16 later on, kind of got short-changed in their time.
17 So we don't want to do that this time, if we can avoid
18 it.

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

25 MR. GOMEZ: Thank you for accommodating.

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1 Albert Gomez. I'm a resident. I'm actually going
2 to a planning meeting for Biscayne Bay Marine Health
3 Summit, which I'm on the steering committee of,
4 critical issue.

5 One thing that I would ask, based on what
6 your intake was from the morning session, is, my
7 understanding is, when the upgrade occurred during
8 the last operation, they did have to go through an
9 emergency authorization request to keep the facility
10 operating at higher temperatures, above the standard
11 operating temperature.

12 And if they are going to operate at that,
13 from that upgrading, there was a Delta on a whole
14 slew of metrics. That Delta is measured. It all
15 gets listed. And if there was that, it's, that is
16 the constant.

17 If they are going to reauthorize it and
18 go to immediate upgrade, will those Deltas be taken
19 into account, into the AIS as a standard operating
20 reality that we're going to have to go to another
21 emergency authorization, another function of
22 upgrading. And I'm wondering if that's part of
23 what's being considered as a function of the AIS that
24 would be pretty or --

25 And then I want to get a little deeper on

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1 the body, the Process for Ongoing Assessment of
2 Natural Hazard Information. That is required. That
3 is part of the requirement for this type of reactor
4 now. And it is alluded to both on, I feel did allude
5 to it on both their -- and it was referenced on the
6 approval notice that the NRC released for their 67.

7 And I believe it's in, referenced
8 lightly, on their renewal application. But I'm going
9 to circle that. I'd like to see if that's, if that
10 is referenced and, if so, part of that body means
11 that they have, they ensure us that the staff
12 proactively and routinely aggregates SS new natural
13 hazard information.

14 That new natural hazard information was
15 present as standards for the sea level rise
16 projection. So if -- I want to make it not so much
17 about the sea level rise projections. It's more over
18 about those have stated common knowledge and standard
19 through the County, through the compact, through
20 various municipalities.

21 And it was not applied. Instead, POANHI,
22 its old prevention was applied. And I'm wondering
23 why, if the, one, it very clearly states that it
24 ensures that the staff brought the matter to the NRC.
25 And this is new natural hazard information. So

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1 they're going to old information versus new
2 information, so I'd like to know that.

3 Then also, all, most mayors, Mayor
4 Gimenez, Mayor Suarez, Dan Gelber -- Mayor Gelber,
5 three that, off the top of my head, have all
6 referenced rain bombs as a new event that occurs down
7 here which has much higher output of rain in a very
8 centralized location. I don't think that natural
9 hazard was talked about or addressed in their
10 reauthorization. It's something that they should
11 consider.

12 And then, in closing, the last statement
13 I would say is that, as another function of the POANHI
14 related that our compounded projections of king tide
15 and maximum storm surge during hurricane-related
16 events, which happens to coincide in October, applied
17 to the scope of the new AIS. I appreciate your time.
18 Thank you.

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

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1 Okay, Zach?

2 MR. COSNER: Hello there. I had the
3 privilege to address you during the morning session,
4 so I'll keep my comments brief because I only would
5 like to complete some of the thoughts that I
6 introduced during that session.

7 When I last spoke to you, I raised my
8 final point, the specter of a Category 6 storm. As
9 you know, under a regime of climate change, storms
10 have become more and more intense in the Atlantic
11 Ocean and could potentially wreak massive havoc,
12 massive storm surge in this area, in the vicinity of
13 Turkey Point, which is compounded by the seal level
14 which FPL, right, which FPL has critically under-
15 represented in their environmental report.

16 And to form a note, that during Hurricane
17 Irma, there's never been said, the water levels
18 actually over-topped the top of the berm of the canal.
19 This canal, or this berm, is barely above sea level,
20 if it is. And if the mixing of waters of Biscayne
21 Bay, waters of the L-31 E Canal, which are a water of
22 the State, is not a public -- with a base to open
23 industrial sewer is not a health hazard, I would not
24 know what is.

25 Now what is a major alternative, like

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1 great alternative, that FPL can put in place?
2 Cooling towers. This is the only way to make sure
3 that this cooling system operates and managed -- does
4 not jeopardize public health and environmental
5 health.

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

12 That would basically provide an effective
13 means of shielding the plant from, and the cooling
14 system, from the effects of climate change. I would
15 urge you to try and compel FPL to construct this very
16 common sense safety mechanism. Thank you.

17 MR. BURTON: All right. Thank you, Zach.
18 Next we'll have Matt Schwartz, followed by Erik
19 Gonzales and then Kerry Black.

20 Well, all right, I guess we have too many
21 here. Erik Gonzales, Kerry Black and then we'll have
22 Jennifer Allman.

23 MR. GONZALES: Okay, good afternoon. My
24 name is Erik Gonzales, and I'm a Nuclear Reactor
25 Operator at Turkey Point. I've been an operator at

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1 Turkey Point for over ten years. I'd like to thank
2 the NRC for the opportunity, and everyone here
3 involved, for the opportunity to discuss a few things.

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

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

12 Turkey Point tries to maintain a respect
13 for the unique environment in which it resides. A
14 great temple of that would be a safe haven for the
15 American crocodile that they've provided. It's one
16 of the few environments where both crocodiles,
17 alligators -- American crocodiles and American
18 alligators are able to co-exist.

19 And since Turkey Point has taken over the
20 custody -- or not the custody, but the maintenance of
21 that area, the population has gone from somewhere in
22 the neighborhood of 40 to over 400 and they
23 essentially, give or take a fifth of the alligator,
24 of the crocodile population there, which is great.

25 I think that speaks to the health of --

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1 the healthy condition of the canal alone. Also, we
2 continue to improve every aspect of the plant, every
3 day, in everything we do, from the equipment that we
4 operate, the equipment we used to control the plant
5 and the personnel that we use to run the plant.

6 I, myself, am required to pass a
7 requalification process every five weeks to ensure
8 that I'm at my best every time I'm at the controls.
9 As a reactor operator, I've been licensed and charged
10 with safeguarding the public which I serve. And that
11 includes my family, my friends and the land I love.

12 My family and I live less than 15 miles
13 away from the plant. And we've never felt safer.
14 Often I'm asked if there's something I should be
15 concerned with or if people should be concerned with
16 anything about my job. And I can't think of a better,
17 safer place to work than Turkey Point.

18 During Hurricane Irma, I was at the
19 controls in the control room. And the consideration
20 that management took for the health and safety of the
21 public and for the personnel left me with a strong
22 impression. I was impressed with their decision
23 making process and the things that they were focused
24 on -- obviously, the safety of the public and
25 maintaining the plant.

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1 So, in conclusion, I'd just like to
2 implore the NRC to strongly consider renewing the
3 license. For me, it's very important, and thank you
4 again for your time.

5 MR. BURTON: All right. Thank you, Erik.
6 Next we have Kerry Black, followed by Jennifer Allman
7 and then Mark -- I hope I'm getting this right --
8 Bromkey? Apologize if I got that wrong.

9 MS. BLACK: My name is Kerry Black. I'm
10 the CEO of the South Bay Chamber of Commerce. I'd
11 like to comment for a couple of moments on the
12 statistics of the impact -- leading on the impact
13 that Turkey Point operating system on Miami-Dade
14 County region, in a particular cell, Miami-Dade
15 County.

16 Turkey Point supports Miami-Dade around
17 the clock. It preserves clean air and addresses
18 climate change. Turkey Point includes two zero-
19 emissions nuclear-generating units, Unit 3 and Unit
20 4, and one high-efficiency natural gas unit, Unit 5.

21 Turkey Point operations generate an
22 estimated \$1.7 billion of economic output annually,
23 employ more than 800 full-time employees and hundreds
24 of contract workers who live in nearby South Florida
25 communities.

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

8 The licenses for existing Turkey Point's unit
9 expire in 2032, Unit 3, and 2033, Unit 4. The
10 application for license renewal for an additional 20
11 years is the most economic option. This renewed
12 license will bridge the gap to the middle of this
13 century as it's not feasible to construct new units
14 at this time.

15 It offers \$2.8 billion in savings for FPL
16 customers over the next closest alternative, a
17 natural gas unit or plant. It does not add new gas
18 pipelines or transmission lines. It maintains
19 locational data bits to maintain system stability and
20 reliability.

21 It will retain trained and local
22 workforce and supporting businesses. FPL gives over
23 \$1.1 million annually to the Miami-Dade civic,
24 educational organizations and general services.
25 Thank you.

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1 MR. BURTON: Sorry. Jennifer Allman
2 followed by Mark Bromley, I apologize, and then Kent
3 Nelson.

4 MS. ALLMAN: Hello. My name is Jennifer
5 Allman. I've moved here in Homestead in 2006.
6 That's when I was hired at Turkey Point. I work in
7 Radiation Safety. I've been in this field for almost
8 20 years.

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

15 We also are connected. And I say we
16 because at FPL we are a team, the employees. We have
17 a very strong belief in the environmental and
18 radiological safety. And I just wanted you to know
19 my opinion. Thank you.

20 MR. BURTON: Thank you, Jennifer.
21 Appreciate it. Okay, next is Mark -- is it Bromley?
22 Okay. Mark Bromley and Kent Nelson and Maria Parra
23 -- I hope I'm pronouncing that correctly.

24 MR. BROMLEY: Hi. Thank you. My name
25 is Mark Bromley, and I too work for FPL's Radiation

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1 Protection Department. But before I turn there, I
2 grew up here in the Homestead area and spent my high
3 school years, in the summertime, working for the Park
4 Service, at YTC, growing a huge appreciation for the
5 resources that we do have out in our glades and out
6 in Biscayne Bay and the reefs, coral reefs. It's
7 where we were diving. It's very unique for what we
8 have here in the United States.

9 Anyway, in the 90s, I worked for the State
10 of Florida, with the Department of Health, here at
11 Radiation Control. And in that role, we interacted
12 with FPL as regulatory agent, not with license, but
13 in monitoring the environment surrounding the place.

14 Anyway, to this day, we still, the State,
15 continues to monitor the air, water, the resources in
16 the Bay and surrounding plant. We contain all the
17 milk and, in general, keep tabs on everything that
18 goes on. And it continues, as we speak, on a day-
19 to-day basis.

20 In the late 90s and to present, I would
21 come to work with Turkey Point as in a full-time role,
22 and I realized the dedication that they have shown to
23 protect that resources that I've grown to cherish and
24 the due diligence that our lending folks have
25 maintained, the crocodile population.

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1 And to the extent that FPL will follow,
2 doing the necessary steps to take care of the medical
3 considerations, is astounding, the resource that we
4 deliver to detect that. So we're a learning
5 organization. We constantly are adjusting and
6 learning.

7 And I found that I have confidence in the
8 company to do the right thing, and we're constantly
9 doing that. And that's about all I have. Thank you
10 very much.

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

14 MS. PARRA: Maria Parra.

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

17 MR. NELSON: Good evening. My name is
18 Kent Nelson. I am the Deputy Executive Director at
19 the Florida Keys Aqueduct Authority and Chief
20 Engineer and Chief Operating Officer for the
21 Authority.

22 I am here on behalf of my own board as
23 well as, unofficially, the Board of Commissioners for
24 the Monroe County, which asked that I take the lead
25 on this issue.

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1 Just as a general background, the FCAA or
2 the Aqueduct Authority provides water for all Monroe
3 County, just south of Dade in the Florida Keys.
4 Roughly 75,000 permanent residents as well as well
5 over a million visitors a year.

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

12 Our resource well field is roughly ten
13 miles, so West of here, and we've been tracking
14 movement through our well field, monitoring,
15 indicating that movement and that threat.

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

22 The concern that we have is that the
23 modeling that was used to build that consent order
24 based on data to date indicates that what FP&L is
25 proposing isn't working. And we have yet to be

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1 convinced that it will work in the future.

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

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

15 MS. PARRA: Good evening commissioners.
16 Thank you for the opportunity to speak. My name is
17 Maria Parra, a resident of the city of Homestead and,
18 Miami-Dade College student.

19 Today I would like to voice my opposition
20 to the license renewal for Turkey Point and its grant.
21 For it is crucial that the license renewal application
22 adequately consider the potential impact of sea level
23 rise on the operation of the plant.

24 Sea level rise could increase in the
25 Turkey Point area. My family and I go to Biscayne

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1 National Park and the Homestead Bayfront Park often.
2 A few months back, my sister actually went to the
3 beach and to the Biscayne National Park for a cleanup,
4 and the water was rising.

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

11 And while many residents in Homestead can
12 afford purchasing filtered water, many others cannot.
13 It would be a shame if our water continues to be
14 contaminated. We cannot drink dollar bills, money
15 or checks. But we can trust in our government to
16 place the needs of the planet and people over profit.

17 Our aquifer is precious. I learned about
18 it in middle school at the aquifer and lime rock.
19 And it's disappointing to hear the risk and threats
20 of continued contamination. Not only is this an
21 issue about water, but it's also about the animal and
22 the plant life within the park.

23 There are many risks ahead if this
24 license renewal is renewed. To renew this license
25 means to renew and continue water pollution and places

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1 the public health at risk, especially considering the
2 deadly mix of nuclear power plant and strong storms
3 occurring.

4 I would petition you to reject the
5 license renewal for Units 3 and 4. Thank you for the
6 opportunity to comment.

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

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

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

22 So FPL is asking for license renewals
23 that will go through the Year 2053. 2053, I will be
24 probably 60 -- or 60 by then. So, you know, this is
25 very much a big ask. And so I would urge the NRC to

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1 do a lot of soul searching and a lot of research
2 before they approve this because this has massive
3 ramifications.

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

10 How will FPL keep the plant safe and
11 assure onsite, highly radioactive waste is secured?
12 How will FPL prepare for rising seas and stronger
13 hurricanes? Like any of nuclear facility, Turkey
14 Point is vulnerable to a melt-down.

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

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

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1 infrastructure of Turkey Point.

2 So as a young person that will be living
3 in this community for decades to come, if these
4 licenses are renewed, at the very least, that most -
5 - very basic conditions should be a cooling tower to
6 protect surrounding life and water quality. These
7 cooling tower retrofits are cost-effective and
8 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
12 being dumped onto their generators from which a tidal
13 wave 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
18 company like FPL that has not been -- who had not
19 been -- who 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
24 followed 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
6 was hurricanes or canals.

7 And, you know, as far the canals, I have
8 seen the improvements in the canals over the last
9 three years. I have participated in that mitigation
10 strategy. I have seen the commitment from the
11 company to ensure the long-term health of those canals
12 as well as the long-term impact being improved to the
13 Biscayne 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
21 has brought up tonight, I just don't share. And I
22 don't share them because I have seen what that plant
23 was 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
11 plant's safe. There's no -- I won't even argue that
12 point with you guys. I'm sure your employees are
13 telling the 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 regulatory, right? Yes. If you
17 guys even read the Miami Herald, which is not -- which
18 is hardly the Miami Times or some of the -- or any
19 newspaper that could be considered some radical
20 liberal rag -- you would -- I don't even know why we
21 even have to have 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
4 stuff. It's facts. So why would you even consider
5 letting 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
8 think 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
12 talk, let us vent and you guys will get back together
13 with FP&L in the background and, at some other place,
14 and 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
14 hard look at the canals and their ability, in their
15 condition and the way they're operated, to meet the
16 needs of the increased power generation, as planned,
17 through 2053 for Units 3 and 4.

18 Page 316, Table 3.2-2 talks about the
19 land use within a six-mile radius of the plant. And
20 I agree with what they have here. I just want to
21 point out that, when you add up all the percentages,
22 that 90 percent of the area within that six-mile
23 radius of the plant, is surface water and weapons --
24 and sensitive 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,
3 Section 3.6. And that involves 3.6, 3.6.1.45
4 Compliance History, there's surface water sources.
5 And 3.6.4, 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
9 five years, that are not mentioned in here. And I
10 would like them to take a really thorough look at all
11 this, all the other information by parties that don't
12 have a hidden agenda, that really are interested in
13 the environmental health and are interested in the
14 plant 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
25 Society.

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

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

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

17 But I think it's important that you let
18 the public know because most of the 20 comments or 25
19 comments we heard earlier are focused on the cooling.
20 They're focused on the failing cooling canal system.
21 So I'm asking all of you, because this is a two-way
22 street, to let us know what process it is, where we
23 can fix and address the cooling canal system.

24 So that's number one. Two, a number of
25 people raised crocodiles, a sanctuary for wildlife.

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1 Really look at those numbers because after the upgrade
2 we saw a number of, I think it was in FPL's own
3 reporting, half of the crocodile nests died.

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

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

22 So you need to make sure you get all the
23 information on how that report updated. I will be
24 submitting a number of comments on their
25 environmental report. I do think it's woefully

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1 inadequate. I think that, again, there are --
2 there's information out there that isn't being
3 supplied.

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

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

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

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

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1 MR. BURTON: Appreciate that. Next we
2 have Wendy Brainard, and then our last speaker is
3 Matt Schwartz.

4 MS. BRAINARD: Hi. Thank you for
5 listening. As a lay person who lives in Key Largo,
6 and I've been coming to Ocean Marine Club since I was
7 16, we're there for the beauty. We're there for the
8 water. We're there for the fishing.

9 I can tell you my son, who is now 21, is
10 an avid fisherman. He will tell you straight up, in
11 the Bay, the fish aren't there that used to be there.
12 To bring them a little bit of education, we know the
13 cooling canals are linked in. We know that the
14 nuclear reactor waste is coming out from the canals.

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

20 I think the water did rise up. If the
21 hurricane did hit it, I think we would all be very
22 much different situation. I implore that you have a
23 moral standard that says those cooling canals cannot
24 leak. They cannot leak into our beautiful, beautiful
25 water.

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1 For the Chamber of Commerce woman, I
2 think her name was Mrs. Black, speaking, yes, of
3 course. But guess what? There is no economy without
4 the water. There is zero economy without the water.
5 How can you have all the fish going away?

6 And, you know, I hope the crocodiles are
7 getting better, but we need water quality. I can
8 look at the water right outside my window and it's
9 different. It's changed. The temperatures are up.
10 The algae plumes are up. There is higher levels of
11 salt.

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

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

24 As a lay person, I don't really know all
25 of this. Thank you for everyone. I'm learning a lot

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1 here today. But, just simply, they're leaking.
2 They're ruining the water. They're ruining the
3 environment. If you're going to renew, it's got to
4 be 100 percent something that's not going to continue
5 to ruin our environment.

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

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

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

22 MR. SCHWARTZ: Okay. Give me one second
23 to find my place in my copious notes here. So my
24 name is Matthew Schwartz. I am the Executive
25 Director of the South Florida Wildlife Association.

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1 It was an organization established in 2010 to protect
2 wildlife and habitat in the Greater Everglades.

3 I did get to speak briefly this
4 afternoon. I'm going to speak similarly to some of
5 the comments I made then, but hopefully I'll have a
6 little bit more time to extrapolate or to kind of
7 expand on what I was talking about.

8 I started off -- I don't have it with me
9 anymore -- but with the information from Notice 9345,
10 Supplement -- well, let me go back to -- give me one
11 second here.

12 I was reading from 9353, which was the
13 NRC report on the impacts of Hurricane Andrew on
14 Turkey Point, on the Turkey Point Nuclear Plant. And
15 I'm just going to read the paragraph, the onsite
16 damage.. This is your report.

17 "The onsite damage included loss of all
18 offsite power for more than five days, complete loss
19 of communication systems, closing of the one access
20 road" -- I think there's only one; there is only one
21 access road out there -- "and damage to the fire and
22 security system and the warehouse facility."

23 There was a supplemental report that goes
24 into more detail of what those impacts were. And
25 here's a few of these items that I put down. All six

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1 steel-frame turbine canopies collapsed. Two -- one
2 of the two chimneys associated with onsite fossil
3 fuels units onsite were severely damaged.

4 And that position of that chimney could
5 have landed right on top of the building that houses
6 the backup generators. And we'll talk about the
7 backup generators very soon. The base anchors for
8 the vent stack on the Unit 4 containment were lifted.

9 Four, duct work from the radioactive
10 waste building to the vent stack failed due to
11 hurricane-generated missiles. Five, the non-safety
12 high caloric tank collapsed and fell on various fire
13 protection pumps and pipes, rendering one of the fire
14 protection systems inoperable.

15 Fast forward now to what happened in the
16 fall of 2017 when Irma was bearing down. I gave my
17 proper way to a reporter that was here. But it showed
18 the trajectory of Irma heading right between Cuba and
19 the Bahamas, right? I had a little more time. I'm
20 just warming up.

21 Anyway, the hurricane was heading
22 directly for Turkey Point, a Cat-5. And, by the way,
23 comparing Andrew to Turkey Point -- or Andrew to Irma
24 -- Andrew to Irma. Andrew was a Cat-4/Cat-5 hurricane.
25 Winds were sustained at 145 miles an hour.

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

6 This plant would sustained heavy, severe
7 onsite damage from a much smaller hurricane. Lower
8 winds, much less storm surge than Irma would have
9 generated. Had it come in at Cat-5, it would have
10 been a very, very different scenario.

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

16 That's not what happened. They dodged a
17 bullet. They got lucky. The chimney didn't fall on
18 the generators. That's what happened at Fukushima.
19 We have to really compare Fukushima. And I'm going
20 to give you two more bullets.

21 But you can study the effects of
22 Fukushima as well, which, as we know, is another
23 coastal nuclear plant that got hit by a Tsunami. The
24 Tsunami didn't create the melt-down that you had at
25 Fukushima. What happened was the Tsunami wiped out

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1 the backup generators.

2 The backup generators couldn't run the
3 pumps. The water wasn't going through the reactor
4 cores. The material melted down. We had explosions.
5 We had three melt-downs, explosions, the release of
6 radioactive gas into the atmosphere. We have a
7 gigantic no-man's zone.

8 Why on earth would we want to risk that
9 in Turkey Point when we know that hurricanes are going
10 to get more intense. That's what all the science
11 says. Hopefully, you guys are making a scientific
12 decision here on this decision, on this decision to
13 extend the life of this plant 20 years into warmer
14 oceans, warmer air, more water vapor in the air, more
15 water in the oceans.

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

24 I'm wrapping up. During the time when I wrote
25 about this, the little edge of Irma passed by

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1 southeast Florida. It was just the edge. We barely
2 got a hurricane in the Turkey Point area. I was told
3 that the water level in those canals rose four feet
4 because it's right near -- it's sea level.

5 So essentially, whatever we put in the
6 canals, and people have spoken what's in those canals,
7 are essentially part of Biscayne Bay. Initially,
8 when they built the Turkey Point facility, the non-
9 nuclear part, that warm water was going directly into
10 Turkey Point.

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

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

25 And as you folks know, what happened in

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1 St. Lucie? A few years ago, we had seven inches of
2 rain in five hours. One of the buildings got flooded
3 with 50,000 gallons of water. We don't want that to
4 happen at Turkey Point in a critical building that
5 might be necessary to keep the pumps running.

6 What happens if those pumps don't run?
7 How are you going to get anything in there? There's
8 one dirt road -- one road going into the facility.
9 So you are putting, not -- I mean, if you make this
10 decision, it is you. If you make this decision to
11 extend this out, you are putting the entire region at
12 risk from this plant.

13 And I'm not making this stuff up. When
14 I was looking at those trajectories and I was watching
15 the path play of Irma, I was scared. And I'm going
16 to stop there. I'm getting two notices to stop. But
17 thanks for listening.

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

24 Okay, is there anyone who would like to
25 take a second three-minute round to finish up their

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1 thoughts?

2 (Off microphone comments)

3 MR. SCHWARTZ: Can I just make one more?
4 Okay, just so for the record, for our supervisor, our
5 park supervisor of Biscayne National Park here. I
6 had long conversations with Mark Lewis, Department
7 Superintendent of Biscayne National Park, the only
8 national park in the United States with a nuclear
9 plant as its neighbor.

10 And one of the things that he said to me
11 was even if I was a friend of nuclear power, whatever
12 my opinion is of nuclear power, this is the last
13 place, the lowest point in Miami-Dade County, that I
14 would ever think of putting a nuclear plant.

15 MR. BURTON: Okay, I think one, at least
16 one person wanted to -- one three round, three-minute
17 section round?

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

24 And that was based on the numeric
25 nutrient criteria violations that the state has sent.

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1 You also have those graphs in your packet. And you
2 will see that for nitrogen, phosphorous and for
3 chlorophyll-A there are graphs on at least two
4 locations in Biscayne Bay emanating from Turkey
5 Point.

6 And how do we know that? Because there's
7 also a tracer that we look at, tritium. And tritium,
8 at the levels that we're seeing, you know, well above
9 background are also associated with these points.

10 So tritium's used as a tracer. You also
11 have a graphic in your packet showing the tritium
12 radius all around the plant at levels in the thousands
13 and in the hundreds of peak are curious. So that's
14 in your packet as well.

15 Also you do have a position that the
16 Florida Keys Aqueduct Authority has taken and two
17 different resolutions -- one from Monroe County and
18 one from Dade County requesting cooling towers.

19 The last thing I just wanted to wrap up
20 is just to let you know that there is a lot of
21 information here. I would very much like to
22 continue the conversation and, again, like I stated
23 before, if you are not able to set conditions to move
24 this license forward, then I don't think you have a
25 choice but to deny it or find another process in which

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1 we can require cooling towers.

2 All of the experts that we've consulted
3 said that is the best method to move forward with to
4 make sure it's safe, to make sure it's resilient to
5 climate change and not open to the environment. You
6 know, this, up until a few years ago, this was
7 dependent on rainfall.

8 If they didn't get the rainfall, the
9 salinity went way up. You know, now they're adding
10 a lot of water. And the addition of that water makes
11 the pollution worse. And so because it's open, it's
12 an open system, it's very vulnerable to climate.
13 It's vulnerable to sea level rise.

14 And for those reasons, we ask that you
15 consider this or find another process that you can
16 identify for us to make sure that if this does go
17 forward, that we can require a different cooling
18 system that's safer and doesn't pollute the
19 environment. Thank you.

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

23 MR. PAZ: Thanks again for allowing me to
24 speak. I just want to, again, echo what other folks
25 have said.

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1 But again, these cooling towers are not
2 a radical request. Again, this is industry norm.
3 There's dozens and dozens of nuclear plants across
4 the country that have cooling towers because they
5 understand it's critical for the integrity of the
6 facility.

7 The cost of these at installation would
8 be in the range of \$220 million to \$310 million. And
9 given that it would just be granted by Units 3 and 4,
10 make up 10 percent of the energy delivered by FP&L,
11 this is a reasonable cost of capital to maintain
12 what's an important system to their energy
13 production. These cooling tower
14 regimens are critical to ensuring that Turkey Point
15 does not pollute the surrounding aquifer for decades
16 to come. And the current infrastructure in Turkey
17 Point, in my opinion, is already flawed, and we must
18 absolutely ensure that this pattern of weak
19 infrastructure doesn't continue with Units 3 and 4 in
20 the coming decades and the remaining few year.

21 NRC should also just look into whether
22 these facilities are prepared for the projected sea
23 level rise set out by NOAA. their January '17 report
24 states that the global mean sea level is in the range
25 of 0.3 meters to 2.5 meters in this century. And

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1 many, obviously many climate scientists believe it to
2 the higher end of that range.

3 So I urge the NRC to -- or actually FPL
4 to submit a plan demonstrating how they will ensure
5 the infrastructure at Turkey Point is prepared to
6 deal with sea level rise and stronger storms.
7 Thanks.

8 MR. BURTON: Thank you, Bryan. Okay,
9 sorry. Zach, please?

10 MR. COSNER: So basically I have one
11 final statement. I want to state that the open heat
12 sink is addressed in the Bill Powers report in the
13 Student Life Clean Energy packet. Bill Powers is the
14 consultant that we've hired to basically talk about
15 the effectiveness and the efficacy of establishing
16 cooling towers to replace some of the cooling canal
17 system. That is all.

18 MR. BURTON: Thank you, Zach. Anyone
19 else? Second round? Okay, great. I'll turn this
20 off. Okay, we appreciate all the comments. We're
21 about to close out and adjourn, but before we do, I
22 wanted to thank some of the people who helped to make
23 this possible.

24 First of all, I want to thank Mayor Porter
25 and the Homestead City Council, the City Clerk's

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1 Office, Ms. Sule and her team lead by Ms. Herrera;
2 our transcriber, Alison Bean, and our security team.
3 Please thank Officer Rodriguez for me.

4 And I think, with that, I'll turn it over
5 to George.

6 MR. WILSON: As Butch said, I'm George
7 Wilson. I'm the director of for Materials and License
8 Renewal for the NRC. I want to thank everyone for
9 attending the scoping and screening meeting for the
10 Turkey Point Units 3 and 4, subsequent license
11 renewal.

12 We greatly appreciate the comments that
13 we received during this meeting. The comments
14 included on this meeting and at the prior meeting,
15 the cooling canal system, how it affects Biscayne Bay
16 and the palatable water, climate change through storm
17 strength, sea level rising or storm surges. And
18 earlier in the earlier session there was a comment on
19 radioactive waste.

20 My staff will independently and fully
21 evaluate these issues during their environment
22 review. One of the key terms there is independently.
23 So I know that there's been a lot of comments brought
24 up about the environmental report. We do our own
25 independent environmental review session.

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1 So we look at the environmental report
2 that's given by Turkey Point. And for the final
3 item, we actually do our own independent assessment.
4 I want to make sure that everyone fully understood
5 that point. Would like a question?

6 MS. RIPPINGILLE: I had a question. My
7 question is, as we plan --

8 MR. BURTON: Wait. Excuse me, for the
9 record.

10 MS. RIPPINGILLE: Thank you. My name is
11 Bonnie Rippingille, for the record. I'm a resident of
12 the Florida Keys. FPL represented to us that they
13 would have the well extraction, the extraction
14 system, extraction wells all lined up and finished by
15 the end of May.

16 To date, we don't know whether that has
17 occurred or whether they're still operating on a
18 somewhat limited system after three years of planning
19 and testing the system. Do you know whether or not
20 they are fully operational now and the time now is
21 called for the ten-year period within which they have
22 to pull back that plume?

23 MR. WILSON: I do not know that. I'm
24 going to actually put -- we have the senior resident
25 from the NRC, the senior resident at the site of

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1 Turkey Point inspector to answer your question.

2 MR. ORR: Yes, the recovery well system
3 is in operation. I think that committed date was May
4 15th. I think they met that committed date. But if
5 there's a representative from FPL that would like to
6 expound on that?

7 MR. BURTON: Dan, can you give your name
8 and affiliation?

9 MR. ORR: Oh, I'm sorry. I'm Dan Orr.
10 I work for the Nuclear Regulatory Commission. I'm
11 the senior resident inspector at Turkey Point.

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

16 MS. RIPPINGILLE: Do any of the people
17 that are here from FPL know whether or not those,
18 that extraction system is fully operational? Can you
19 verify that? Do you have ten extraction wells built,
20 up and running?

21 MS. JAMES: I'm sorry. I'm a project
22 manager. I tend to try to follow the rules. This
23 outside the process. This is the NRC meeting.
24 Florida Power & Light is not required to provide any
25 answers.

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1 MR. BURTON: Okay. With that, I conclude
2 the meeting. Once again, I want to thank you for
3 attending. I do have two comments. Someone talked
4 about -- Florida Power and Light talked about
5 eventually coming up for another power upgrade.

6 That would have its own environmental
7 assessment if they submitted that to us. We don't
8 have any submission for that so the environmental
9 assessment that we're going to do right now is only
10 for the subsequent license renewal.

11 If the plant decides to do another power
12 upgrade, that would have its own environmental
13 review, so I want to just state that.

14 There was also some comments that were
15 stated about limited significant information, to make
16 sure that we looked at it. We have to look at the
17 significant information. That's what we focused on.
18 In addition, if you look at their regulations, there's
19 an annual update that's required while we're
20 reviewing the license renewal.

21 In that annual update every year, they'd
22 have to include anything that would be new and
23 significant for us to evaluate during evaluation. I
24 just want to make those two points. And thank you
25 guys very much.

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