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Public Scoping Meeting: Evening Session

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

SHEARON HARRIS COMBINED LICENSE APPLICATION
PUBLIC SCOPING

TUESDAY, JUNE 10, 2008

6:00 - 8:30 EVENING MEETING

HOLLY SPRINGS CULTURAL CENTER
300 WEST BALLENTINE STREET
HOLLY SPRINGS, NC 27540

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EVENING PROCEEDINGS

(6:00 P.M.)

1
2
3 MR. CAMERON: Good evening, everyone. My
4 name is Chip Cameron. I work for the Executive Director
5 for Operations at the Nuclear Regulatory Commission,
6 which we are going to be referring to as the NRC tonight.
7 I want to welcome you to tonight's meeting. The subject
8 of discussion tonight is going to be the NRC's evaluation
9 process for reviewing applications for licenses to build
10 and construct new nuclear power plants. We have received
11 an application from Progress Energy to build two new
12 plants at the Shearon Harris site. And it's my pleasure
13 to serve as your facilitator for tonight's meeting, and
14 in that role I will try to help all of you to have a
15 productive meeting.

16 I just want to spend a couple of minutes on
17 meeting process issues before we get into the substance
18 of tonight's discussion. And I want to talk to you about
19 the format for the meeting, some very simple ground rules
20 and introduce the NRC speakers who are going to talk to
21 you tonight.

22 In terms of format, the first part of the
23 meeting is going to be the NRC staff giving you some
24 brief presentations which will provide you an overview of
25 the NRC process, what the NRC evaluates when they review

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1 one of these license applications. And we are really
2 going to be focusing more on the environmental review
3 tonight, but we will cover the entire process, and you'll
4 learn all of the things that the NRC looks at on the
5 safety issues and on the environmental issues.

6 So we're going to do that, and then we'll
7 have time for some questions, if you have questions about
8 the process, we will try to answer them. Then we are
9 going to go to the most important part of the meeting
10 which ties in with the first part in that we're also
11 going to tell you how you in the public can participate
12 in the NRC's evaluation process.

13 The first part of that participation is going
14 to be us having a chance to listen to any comments,
15 advice, recommendations that you might have for us on
16 what the NRC should consider in the scope of its
17 environmental review in preparing the Environmental
18 Impact Statement. That's going to be the product, the
19 end product of the NRC's environmental review, and that's
20 one part of the decision-making process.

21 Tonight we are here to listen to your
22 concerns, issues, advice on environmental issues. And
23 the Environmental Impact Statement is a very, very broad
24 document and analysis and it looks at socioeconomic
25 issues as well as your typical environmental issues.

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1 And the NRC is taking written comments on
2 these issues, and the staff will tell you the time
3 schedule for submitting those comments, but we wanted to
4 be here with you personally tonight, to talk to you. And
5 any comments you make tonight will carry the same weight
6 as written comments. And you certainly may hear things
7 tonight from the NRC or from others in the community that
8 will prompt you to submit a written comment. And
9 certainly you can speak tonight and you can submit a
10 written comment if you want to do that.

11 We are taking a transcript of tonight's
12 meeting and we have Sandra Wise as our court
13 reporter/stenographer tonight. And that transcript will
14 be available to all of you and available to us. It's our
15 record of the meeting and also your record of the
16 meeting. And we're going to be in a listening mode when
17 you're making your comments. And if you wanted to talk,
18 please fill out one of those yellow cards out there.
19 It's not drastically necessary. If you do have something
20 to say, we can just go to you without the yellow card,
21 but it allows us to see how many people we have speaking
22 tonight. And we'll be listening, not responding, unless
23 there's some new information that you might not have that
24 we want to offer on that.

25 In terms of ground rules, let the NRC

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1 speakers finish their presentations, and then we'll go
2 out to you for questions rather than having questions in
3 the middle of their presentation. When we get to the
4 questions, if you have a question just signal me, and I
5 will bring you this cordless microphone. Please introduce
6 yourself to us, and we'll try to answer your question. I
7 would ask that only one person speak at a time so that we
8 can give our full attention to whomever has the floor at
9 the moment, and also so that Sandra can get a clean
10 transcript.

11 We want to make sure that we hear from
12 everybody who wants an opportunity to speak tonight, so I
13 would just ask you to try to be as brief as possible.
14 And I'm going to set a three to five minute guideline for
15 the comments that we are asking for. This will hopefully
16 give you enough time to summarize your comments and it
17 will alert the NRC staff to issues that they need to
18 start thinking about in terms of comments. I think we
19 are going to have plenty of time based on the number of
20 speakers, but we do have to be out of this great facility
21 tonight by 9:00, so we are not going to be able as we
22 usually do of running over tonight. So I am going to
23 have to be a little bit stricter perhaps on the comment
24 times.

25 I would get just a final thing and this is

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1 not -- it's important, but often doesn't need to be said,
2 especially in the south, but just please extend courtesy
3 to everyone tonight. You may hear opinions that you
4 don't agree with, but please extend courtesy to the
5 person who is giving that particular opinion. I just
6 thank all of you for being here to help us with this
7 important decision.

8 And let me introduce William (Butch) Burton.
9 And he is the Branch Chief of the Environmental Projects
10 Branch in the Division of Site and Environmental Reviews
11 at the NRC. And this is in our Office of New Reactors.
12 Butch is going to tell you a little bit about the NRC,
13 and then we are going to go to the main part of the
14 presentation, which is going to be Dr. Don Palmrose, who
15 is right here. Don is the Project Manager for the
16 environmental review on the Shearon Harris license
17 application. And Don and his staff will be responsible
18 for preparing that environmental review. And Don works
19 for Butch in that particular branch. With that, Butch,
20 are you ready to go?

21 MR. BURTON: Thank you, Chip. Can everybody
22 hear my okay?

23 (Audience response affirmatively.)

24 As Chip mentioned, my name is William Burton.
25 William was my grand-daddy. I go by Butch. I want to

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1 welcome you here. It's hot, and I know all of you could
2 have been at home, pardon the expression, chillin', but
3 you braved the heat and came out. We really do
4 appreciate that.

5 As many of you know, the NRC's primary
6 mission is public health and safety in the civilian use
7 of radioactive materials. And in keeping with that
8 mission, we have been tasked with reviewing the
9 application that was submitted by Progress Energy for two
10 new units at the Harris Plant. In particular what we're
11 here tonight for is the environmental part of that
12 review. There is also a safety portion, but tonight
13 we're going to be focusing on the environmental portion.

14 I just have a few introductory remarks
15 basically putting things in context. Dr. Palmrose will
16 be giving the more detailed presentation.

17 Back in Washington there was a clothing
18 store, and in their advertising they said, an educated
19 consumer is our best customer. And I really like that.
20 I think that really lays out pretty much what are hoping
21 to achieve here this evening. We want to try and educate
22 you about who we are, what we do, how we do it, why we do
23 it. And we're also hoping that you will educate us in
24 terms of providing information that can help us as we
25 pursue this environmental review and the preparation of

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1 the Environmental Impact Statement.

2 We actually first started this process back
3 in September of last year, before the application was
4 even submitted; where we came down and we sort of
5 introduced ourselves to the community. And in fact, one
6 thing I wanted to do, just a quick show of hands. If
7 anybody was here for those September meetings.

8 Okay, a few, a few. That's good. I just
9 want to let you know that most of our presentation is
10 going to be very similar to what you saw in September.
11 During that meeting we said that we'd be back once the
12 application was submitted and we started our review, and
13 here we are, just as we promised.

14 What I wanted to talk about was the purpose
15 of the meeting. Of these four bullets, I think the first
16 and the last are probably the most important. We are
17 really looking to you to provide us input during the
18 scoping process, not just tonight, but throughout the
19 scoping period to help us understand the things we need
20 to be looking at during our review. Things that you find
21 important, and there may be things you may feel are less
22 important, but we need to know that. So we're really
23 hoping that you'll help with that this evening and
24 throughout the scoping period.

25 Next thing, as I mentioned before, we're

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1 going to talk about who we are, what we do, how we do it
2 and why we do it. We are going to talk about the
3 proposed review schedule and Dr. Palmrose will go into
4 depth in that, and last but not least, how you can
5 participate in this entire process. There are several
6 ways that you can participate, including providing
7 comments during the scoping period, but also applying for
8 intervention during the hearings and several other things
9 that Dr. Palmrose will talk about.

10 This slide just basically describes all the
11 key players in the process. I'm actually going to start
12 in the far column with Progress Energy, who submitted the
13 application back in February, and the environmental
14 report that was submitted as part of that application is
15 what the environmental team is going to be looking at
16 over the next few months. Coming back to the first
17 column, the different components of the NRC that actually
18 play a role in this process. Starting with the five
19 member commission, who are nominated by the President,
20 approved by Congress for five year terms, rotating terms,
21 the staff members who do the bulk of the heavy lifting
22 during the review. That's us.

23 There is the Atomic Safety and Licensing
24 Board, which I'm sure some of you have heard of. They're
25 the ones who coordinate the hearing process and play a

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1 very important role. And then also we have the Advisory
2 Committee on Reactor Safeguards.

3 Both the ASLB and the ACRS are Advisory
4 Committees, those are independent boards or panels that
5 report directly to the commission. The ACRS in
6 particular oversees and reviews the staff's work on the
7 safety portion. But they also hold public meetings and
8 there are opportunities to come and view and participate
9 in some of those activities.

10 Last but not least is the center column, the
11 stakeholders. Residents of the community, that's you.
12 There are also public interest groups who have a long
13 association with nuclear power and have very strong
14 opinions and help to guide the conversation in terms of
15 important issues. And we're always very fortunate to
16 hear from them, as well as other federal, state, local
17 and tribal agencies and officials, all of which have a
18 stake in this process, all of which we try to hear from
19 to again, help us to identify both the scope of the
20 review and how deep we need to go in particular areas.

21 So these three columns together I think lay
22 out all the players in the process, and I hope I can make
23 clear to you that you as members of the public are
24 extremely important in this process. We really want to
25 hear what you have to say. We do take it seriously and

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1 we will consider it in our review. So laying that out as
2 the context, I'll turn it over now to Dr. Palmrose.

3 DR. PALMROSE: Thank you, Butch. As you
4 heard from Butch, Progress Energy is seeking a combined
5 license for two reactors. This combined license is a
6 combined construction permit and operating license with
7 the conditions issued by the NRC.

8 It's an NRC decision that authorizes the
9 applicant to construct and operate a nuclear power plant
10 at a specific site, in this case, the Shearon Harris
11 site, in accordance with federal law and regulations.
12 Progress Energy submitted the combined license
13 application on February 18, 2008 for two AP1000 reactors
14 to be built at the Shearon Harris site. They proposed
15 that these two new units, units 2 and 3, be built
16 adjacent to the existing unit 1.

17 There are a number of relevant laws and
18 regulations relating to the construction and operation of
19 a nuclear power plant. The primary law is the Atomic
20 Energy Act. And the key regulations are found in Title
21 Ten of the Code of Federal Regulations. The National
22 Environmental Policy Act, known as NEPA also applies.

23 The NRC's environmental review of the
24 combined license also includes compliance with statutes
25 like the National Historic Preservation Act, Endangered

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1 Species Act, Fish and Wildlife Coordination Act along
2 with other environmental laws and regulations.

3 NRC regulations allow combined licensed
4 applications to reference what are called certified
5 designs. These are designs that the NRC have reviewed
6 generically and approved through a public rulemaking.

7 The AP1000 reactor design was previously
8 certified by the NRC through a rulemaking. The NRC is
9 currently reviewing a proposal to certify a modified
10 version of the AP1000 design, which again would be done
11 through rulemaking.

12 Progress Energy, like some other combined
13 license applicants, is interested in using this revised
14 AP1000 design and their combined license application
15 referenced this revised design in the event it receives
16 certification. As a result, the NRC's schedule for making
17 a final determination on this design rulemaking will
18 impact the schedule for reviewing the Shearon Harris
19 combined license. So as shown on this slide, there are
20 three components to the staff review. The staff conducts
21 a site specific safety review of design as it would be
22 located at the Shearon Harris site, as well as an
23 analysis of the environmental impact of using the design
24 at that site.

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1 Meanwhile, the staff is generically reviewing
2 the modified AP1000 design to determine if it is
3 appropriate for certification by rulemaking. The
4 rulemaking process includes separate specific opportunities
5 for public notice and comment.

6 In short, generic issues that are addressed
7 by the design certification that are not unique to the
8 siting of that design at the Shearon Harris are reviewed
9 separately.

10 This slide provides an overview of the
11 combined license application review process. NRC
12 receives the combined license application from an
13 applicant. The safety review and environmental review
14 are conducted in parallel. The safety review follows the
15 orange path while the environmental review follows the
16 green path.

17 The safety review complies with regulations
18 to ensure public health and safety. There is also a
19 separate hearing process that will factor in the results
20 of the environmental and safety reviews.

21 The final step of the combined license review
22 process is the commissions decision. Subsequent slides
23 will present the environmental review process in more
24 detail and discuss the hearing process.

25 Continuing with the safety review, this slide

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1 outlines some of the areas of our site safety review.
2 These areas include the design of the facility. Again,
3 Progress Energy plans to use the AP1000 reactor design.

4 Site suitability: This describes how the
5 environmental factors affect the plant design, such as
6 geologic, seismic, hydrologic and such as flooding,
7 hurricanes, tornadoes, et cetera.

8 Quality assurance: Adequate physical
9 security. We conduct this review in consultation with
10 the Department of Homeland Security, Emergency

11 Preparedness: We conduct this review in consultation
12 with FEMA. Operator training: This ensures that the
13 operators for the potential new units are properly
14 trained to operate the units in a safe manner.

15 Manny Comar is our lead Safety Project
16 Manager and he also is here to answer any safety review
17 process questions.

18 The primary purpose of this meeting is to go
19 over NRC's environmental review process and solicit your
20 comments. The NRC environmental review is guided by the
21 National Environmental Policy Act, again more commonly
22 known as NEPA.

23 NEPA requires federal agencies to use a
24 systematic approach to consider the environmental impact
25 during certain decision-making proceedings. NEPA is a

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1 disclosure tool which involves the public. To this end
2 NEPA requires the gathering of information during a
3 scoping period from you, the public, and evaluating that
4 information to determine what potential environmental
5 impacts need to be addressed. Also in accordance with
6 NEPA, a document known as the Environmental Impact
7 Statement or EIS is required for any major federal
8 action that has potential to significantly affect the
9 quality of the human environment. As you may be aware
10 of, the U.S. Nuclear Regulatory Commission has decided
11 that issuing a combined license for a new reactor is such
12 a major federal action.

13 As part of the NRC environmental review we
14 plan to evaluate the potential environmental impacts of
15 construction and operation of two new AP1000 units at the
16 Shearon Harris site. The NRC has established a
17 systematic decision-making process to be applied during
18 the environmental review of the combined license. The
19 Environmental Standard Review Plan, NUREG 1555, provides
20 guidance to the NRC staff on how to review the
21 application and how to document our findings in an
22 Environmental Impact Statement. During the environmental
23 review we will also provide opportunities for public
24 involvement during the scoping period, and also the
25 comment period on the Draft Environmental Impact

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1 Statement.

2 We will clearly document our environmental
3 findings in our Draft and in our Final Environmental
4 Impact Statement for the Shearon Harris project. And
5 throughout this entire review, we will maintain an open
6 and transparent review process.

7 This slide presents in more detail the
8 environmental review process. For the first step the
9 applicant, Progress Energy, submitted the environmental
10 report to the agency on February 18, 2008. Once the
11 application is submitted, the staff reviews it to ensure
12 that it meets our technical sufficiency guidelines so we
13 can make a decision on whether to proceed in our review.

14 For the next step, if the decision was made
15 to accept the application, the NRC issues a notice of
16 intent, which notifies the public of the NRC's intentions
17 to develop an Environmental Impact Statement, and to
18 conduct a scoping process.

19 The notice of intent for the Shearon Harris
20 combined license was issued in the Federal Register on
21 May 22, 2008. That notice of intent initiates the
22 following step, namely the scoping process, during which
23 we identify what the scope of the environmental review
24 should be. This also initiates a public comment period,
25 where you can provide us with your written comments

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1 through July 25, 2008. This public meeting is also part
2 of that process and we will collect your comments here
3 today as part of the meeting transcript.

4 For the information gathering step, several
5 actions occur. The NRC team will visit the site and the
6 site vicinity to begin its independent evaluation of the
7 information provided by the applicant to ensure that we
8 understand the representations made by the applicant and
9 the technical basis for its positions.

10 The NRC team will also meet with other
11 organizations; local, state, and other federal agencies,
12 to develop independent sources of information to ensure
13 that we have the confidence in the accuracy and
14 reliability of the information that will be used in the
15 NRC's Environmental Impact Statement. For some issues we
16 may elect to do confirmatory analysis or calculations as
17 part of our independent evaluation. The NRC may formally
18 seek to obtain additional information from the applicant
19 to ensure that the record is complete.

20 Reflecting on the information that we obtain
21 as part of the audit and the comments that you share with
22 us during the scoping process, the NRC will then develop
23 its Draft Environmental Impact Statement. That document
24 is a draft not because it's an incomplete document, but
25 rather the staff has essentially completed its review,

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1 and now we want to issue it, make it publicly available
2 to allow the public to weigh in on it, and to give us
3 comments as to what they think of the results of the
4 review, and if we need to clarify anything in the
5 document.

6 The last several steps move the Draft
7 Environmental Impact Statement to the Final Environmental
8 Impact Statement. The NRC will have another comment
9 period in the summer of 2009 time frame. And we'll come
10 back here and have another public meeting such as this,
11 where we invite your comments after we explain to you the
12 results of our review. Once we evaluate your comments,
13 we may decide to modify the Draft Environmental Impact
14 Statement. When we complete that action, we will issue
15 the EIS as a final document, and that document will then
16 be used as one of several different inputs to the hearing
17 process, because our regulations require a hearing for a
18 new reactor application. The final result of the
19 combined license process is a decision by the commission
20 on the application.

21 I want to use this slide to refocus us on why
22 we are here today. We have come to your community with
23 the hope that you will share with us those environmental
24 issues and values that you believe are important for us
25 to consider as we conduct our review. Since we do not

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1 live in the community, you know this environmental
2 setting better than we do, and you may be aware of
3 environmental concerns that should be considered before
4 the NRC completes its assessment. We are in the early
5 stages of the review, and if you elect to share your
6 insights related to the environmental issues with us,
7 then we believe it will improve our efforts. That is why
8 we are here today.

9 If you first want to reflect upon the
10 process we presented today, then you will still have the
11 opportunity to share your comments or provide additional
12 comments to us by July 25, 2008. In a later slide we
13 will list how you can send those comments to us after
14 today's record is closed. All comments received during
15 the scoping will be included in the scoping summary
16 report. This document will be available on the NRC
17 website. Comments applicable to the environmental review
18 will also be considered in our development of the Draft
19 Environmental Impact Statement.

20 This slide is to show that the staff gets its
21 information from a number of different sources.
22 Obviously we get the starting point from the combined
23 license application and from discussions that we have
24 with the applicant, Progress Energy. We are seeking
25 information from you at today's meeting and through the

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1 remainder of the comment period. We will also talk with
2 some of your local, state, and federal officials to get
3 their input, including social service agencies.

4 Again, the staff will be doing their own
5 independent environmental review, using the sources we
6 have available.

7 Once we complete the gathering of
8 information, this collection of information will be
9 evaluated and used to develop the Draft Environmental
10 Impact Statement. This slide shows you the review areas
11 where that information will be applied. We will be
12 considering a number of issues including the
13 environmental impacts of the proposed construction and
14 operation of the nuclear power plant here in the area.
15 We will also be considering alternatives to the proposed
16 actions, such as potential alternative sites, and what
17 those environmental impacts would be. We will also be
18 considering possible mitigation measures, which are
19 actions that can be done to decrease the environmental
20 impact of the construction and operation of the plant.

21 Knowing these are the review areas for the
22 Environmental Impact Statement, we hope you can provide
23 us comments for these specific subjects.

24 To prepare for the review, we have assembled
25 a team of NRC staff with backgrounds in scientific and

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1 technical disciplines that are required to do this
2 review. In addition, we have contracted with Pacific
3 Northwest National Laboratory (PNNL) to assist us in this
4 review. The NRC team along with the PNNL contractors is
5 comprised of recognized experts on wide ranging topics
6 related to environmental issues in nuclear power plants.

7 This slide gives you an idea of some of the
8 areas of interest we consider during our review. We'll
9 be considering ecological issues, public health issues,
10 social/economic issues, water use and water quality
11 issues. These are some of the areas we'd like to hear
12 your comments on.

13 Again, you can submit your written comments
14 for the scoping process through July 25, 2008. We do
15 have copies of the Federal Register notice of intent to
16 prepare an Environmental Impact Statement and conduct the
17 scoping on the table in the front lobby area. The notice
18 describes how you, the public, can submit your scoping
19 comments. The next slide will also share this
20 information with you.

21 Once the staff has completed the draft
22 Environmental Impact Statement, the NRC will make it
23 publicly available to allow the public to provide
24 comments. The public will have 75 days to provide
25 comments on this Draft Environmental Impact Statement.

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1 This again, in the summer of 2009 time frame, we will
2 have another public meeting to share the results of the
3 review and receive your public comments on this draft.
4 Once we evaluate these comments, the agency expects to
5 issue the Final Environmental Impact Statement in May
6 2010.

7 The NRC website, and specifically the Shearon
8 Harris project web page, contains the current information
9 about the schedule of activities. If there is a schedule
10 change, it will be reflected on the project web page.
11 The specific project web page is listed on a later slide.

12 All oral comments received today will be
13 transcribed. Any written comments we receive today will
14 also be included in the scoping summary report. The
15 address to submit written comments by mail is noted on
16 this slide. We also made available an e-mail address
17 where you can also submit comments. That address is as
18 shown, Harris.COLEIS@nrc.gov. You also can submit your
19 comments in person in our Rockville office in Maryland.
20 This slide will be shown again at the end of the
21 presentation for your convenience.

22 The hearing process offers another
23 opportunity to have public involvement. The public has
24 60 days from the publishing of the hearing notice to
25 petition to intervene in the hearing. This notice was

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1 published on June 4, 2008 for a petition deadline of
2 August 4, 2008. Anyone who wishes to file a petition to
3 intervene should give the hearing notice close attention,
4 because it contains important information related to
5 intervention. Please note that in order to file a
6 petition to intervene, you must obtain a digital
7 certificate approval in advance or a waiver from the
8 digital certificate requirement. Instructions for
9 e-filing are in the hearing notice and on the website
10 shown on this slide. It's important not to wait until
11 the last week of the notice period because it may take up
12 to ten days to receive the digital certificate.

13 I would like to take this time to recap some
14 very important public involvement information. Once
15 more, the environmental review process is beginning and
16 the public comment period for scoping will end of July
17 25, 2008. Once more, you can participate in the scoping
18 meeting and at the meeting on the Draft EIS. The NRC web
19 page for the Shearon Harris project can help you stay
20 informed on activities related to the project, such as
21 access to the Draft and Final Environmental Impact
22 Statements that discuss our review results. Again, the
23 opportunity for leave to intervene in the hearing process
24 closes on August 4, 2008. Please, note you must receive
25 a digital certificate approval before you file a petition

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1 to intervene. The hearing covers both safety and
2 environmental issues. To obtain more information you can
3 visit the website listed here.

4 Here are the NRC points of contact for the
5 Shearon Harris combined license application. In addition
6 to myself, I have given you the name and number of Manny
7 Comar, who is our lead safety Project Manager. Manny has
8 the responsibility for the overall coordination of the
9 project as well as the safety review. The application
10 can be viewed on the internet at our electronic reading
11 room at the NRC's website, which is nrc.gov.

12 The Eva H. Perry Library, the West Regional
13 Library and the Holly Springs Library have been kind
14 enough to give us some shelf space for the environmental
15 report and later the Draft and Final Environmental Impact
16 Statement. If you wish to be on our mailing list, make
17 sure your name and address is provided to one of our NRC
18 staff at our registration desk. This is one way of
19 ensuring that you will be notified of upcoming meetings,
20 and ensuring that you'll get copies of the Draft and
21 Final Environmental Impact Statement.

22 Thank you and that concludes my presentation.

23 MR. CAMERON: Thank you, Don and thank you,
24 Butch. And we have a few minutes for questions about the
25 process. Don covered a lot of ground in terms of what

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1 our process considers, and if there is anything we can
2 clear up for you, we will be glad to do that. Any
3 questions?

4 (No response.)

5 Okay, we are going go to the comment part of
6 the meeting at this point. And we are going to start out
7 with David Goodwin, and then we will go to James Sauls,
8 and then we're going to go to Professor Lee Craig.

9 MR. GOODWIN: Good evening. I am speaking on
10 behalf of the Wake County Government. My name is David
11 L. Goodwin. I am the Director of Wake County General
12 Services Administration. I am here to speak on behalf of
13 the County and maybe provide you a little different
14 insight to Progress Energy. We see a different view of
15 Progress and we would like for the community and our
16 citizens to understand that. We in the county manage
17 many facilities for you. Some are popular and some are
18 not. Jails are some of them, courthouses are some of
19 them. Those are things that we have to keep going.
20 Power is required to keep the jail doors shut and things
21 of that nature. We have libraries. We have public
22 safety facilities. We have emergency medical facilities.
23 We have all sorts of facilities that many years ago we
24 just had a few of, and we have a lot of. Over 3.5
25 million square feet in all of Wake County now. And as a

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1 citizen of Wake County, as an original Wake County-ite, I
2 grew up in Apex, it's just really beyond belief. Our
3 citizenry has grown exponentially and will grow. And to
4 the heart of that is, if we are going to continue to
5 grow, we have to have an infrastructure that grows with
6 us. And at the heart of that, of course, is power.

7 I would like to share with you a little bit
8 about Progress as it relates to a business partner. We
9 just spoke to that. What a corporate partner they are,
10 and what a community partnership they have brought to us.
11 And so very quickly, just so you'll know, performing
12 arts, of course, is one of the leading beneficiaries of
13 Progress Energy. But in Wake County we have an energy
14 commission; a board of commissioners appointed energy
15 commission. And that commission has produced guidelines
16 that help our buildings be constructed to a very
17 environmentally low effort. This building is one. We
18 have an energy design guideline that this building in
19 partnership with Holly Springs was built under and our
20 energy consumption for the long haul will be much lower
21 because of this energy commission of which Progress has
22 been a member since 1972.

23 This commission also sponsors an energy camp
24 where 40 rising sixth graders every year participate in
25 energy and energy conservation week-long survey regarding

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1 that type of education. Progress Energy has supported
2 that for 13 straight years as a beneficiary. And so we'd
3 like you to know that.

4 From a land donation standpoint, we the
5 county have developed this 600-acre tract of land, Harris
6 Lake which is a environmental oriented park or facility
7 for you, our citizens, and that has served us well, as
8 well as our local fire -- volunteer fire departments have
9 been training since the mid '80s in a facility that is
10 owned by Progress Energy. And it is very close to the
11 park.

12 So from a community partnership, this is just
13 a slice we would like you to know about. There is a
14 broad range of ideas in this room and we respect them
15 all. But also from a personal community interaction
16 point of view. We have a kids museum that was in trouble
17 in Raleigh. Many of you've heard of it. And for
18 whatever reason, the formula didn't work and it was a
19 little sick. And our Progress Energy chair and CEO at
20 the time, now Bill Johnson, took the helm of that local
21 kids museum and really turned it around. It is not
22 something that a government group can do. We need our
23 citizens to get behind museums. We need our citizens to
24 get behind the things that are true to our citizenry.
25 Progress helped us turn that around. We have a different

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1 museum today because of it.

2 That is just a tiny slice of a perspective.
3 Many of you all have your own perspective, but we want to
4 share ours. Thank you very much.

5 MR. CAMERON: Thank you, David. James Sauls.

6 MR. SAULS: Good evening. My name is James
7 Sauls, and I am with Wake County Economic Development. We
8 are here in support of Progress Energy's application for
9 two new reactors at the Shearon Harris site. Wake County
10 Economic Development is the lead group for recruitment of
11 new business and the retention of existing companies.
12 Having safe, reliable, and reasonably priced electricity
13 is a critical component for our continued job creation
14 and for us to maintain a high quality of life that we
15 enjoy in this region.

16 A few reasons why Wake County Economic
17 Development supports Progress's combined license
18 application:

19 Electricity is a vital part of our state's
20 infrastructure, as are roads, schools, and water. This
21 area's impressive infrastructure serves as a magnet for
22 businesses and economic development.

23 Progress Energy's strategy to meet the
24 demands of growth responsibility is a combination of
25 enhanced energy efficiency, investments in renewable

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1 alternative energy technologies, and state of the art
2 power plants.

3 The planned increase in reservoir capacity
4 accounts for potential drought conditions in the future.
5 By raising the lake level there is increased storage
6 capacity and the ability to limit river withdrawals
7 during times of drought.

8 The Harris Plant has been in operation for
9 more than 20 years providing a safe, efficient, and
10 economical source of electricity.

11 Currently the Harris Plant employees
12 approximately 450 people, an additional 200 contractors.
13 Approximately 640 additional people would be needed to
14 operate two new reactors at the site.

15 Currently the Harris Plant contributes 126
16 million in personal and property income, and 30 million
17 in tax revenue to the surrounding area.

18 Progress Energy has an obligation to meet the
19 growing needs of the service area by providing reliable
20 and affordable electricity for many years to come. Thank
21 you.

22 MR. CAMERON: Thank you very much, James. We
23 are going to go to Professor Craig at this point, and
24 then we will go to Lee Ragsdale and then to Hilda
25 Pinnix-Ragland.

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1 PROFESSOR CRAIG: Good evening. My name is
2 Lee Craig, and I'm a professor of economics at North
3 Carolina State University. I'm here to represent my
4 colleague, Dr. Edward Ericson, who in 2005 conducted an
5 economic impact study of Progress Energy's Harris Nuclear
6 Plant. In addition, Dr. Ericson estimated the economic
7 impact from adding another reactor to the plant, but
8 unfortunately, Dr. Ericson could not be here this
9 evening.

10 As a college economics professor, I would
11 like to add that I understand that most of you are
12 probably asking yourselves two questions. Will I be able
13 to stay awake during this presentation? And will this
14 material be on the final exam. The answers are, I don't
15 know, and yes.

16 Currently in its Carolina service area,
17 Progress Energy serves 1.4 million customers. And it is
18 adding an average of 25,000 to 30,000 new homes and
19 businesses per year. Thus by 2026, Progress Energy
20 expects to add 500,000 new customers to its current base.
21 That will put the total customer base at almost two
22 million homes and businesses by 2026. Currently, the
23 Harris facility itself supplies power to more than
24 550,000 residents and businesses.

25 In terms of the economic impact of these

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1 figures, my statement tonight will summarize Dr.
2 Ericson's findings as reported in his economic impact
3 statement.

4 Probably the best way to interpret these
5 findings would be to think of them as an answer to the
6 following question. If this plant had never been
7 constructed or if it were to be closed or otherwise go
8 missing, then how would that absence impact the local
9 economy? The report contains information on at least
10 four economic indicators or answers to this question.

11 These are: One, the value of economic
12 output; two, employment; three, income, which is largely
13 wages and salaries; and four, state and local tax
14 revenues.

15 As of calendar year 2005, Dr. Ericson
16 estimates the Harris Plant generated the following
17 economic impacts:

18 The plant generated roughly 700 million
19 dollars in economic output for the eight-county or
20 triangle region. Please note that all of the figures in
21 this report and the ones that I will cite are adjusted
22 for inflation.

23 The plant supports more than 2,100 jobs in
24 the region. The plant generates nearly 130 million
25 dollars in personal income. And the report estimates

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1 that the plant generates roughly ten million dollars in
2 indirect business taxes. These are largely sales taxes
3 and another 20 million dollars in local property taxes.
4 Income tax estimates are excluded from the report.

5 In addition to these current impacts, Dr.
6 Ericson studied the expected economic impact of the
7 construction and operation of an additional nuclear
8 reactor at Harris. Economic impact of the construction
9 phase is substantial. The average additional annual
10 impacts during construction are projected to be as
11 follows:

12 Roughly 340 million dollars in economic
13 output, 3,500 jobs, nearly 160 million in income, and 14
14 million in indirect business taxes, and 10 million in
15 municipal and county property taxes.

16 Once the new facility is fully operational,
17 the report estimates that the combined Harris facility
18 will generate annually, and again as a reminder, these
19 are inflation adjusted figures, 2.2 billion dollars in
20 output, nearly 5,000 jobs, more than 300 million dollars
21 in income, and 27 million dollars in direct business
22 taxes and 30 million in municipal and county property
23 taxes.

24 I would add one note to these figures.
25 Professor Ericson only studied the addition of a single

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1 reactor. If an additional reactor is constructed then
2 these impacts will need to be revised.

3 Finally, in concluding my statement, I want
4 to give you a feel for how large these impacts are
5 relative to the size of the local economy. To see this
6 and to take just one example, consider that at current
7 property tax rates in the Triangle, the property value
8 required to generate the 30 million dollars in property
9 taxes, that's the 30 million which I had just cited a
10 moment ago in reference to one additional reactor, is
11 approximately 4.3 billion dollars. That figure would be
12 roughly two and a half percent of the total value of
13 assessed property in the Triangle at the time of the
14 study. Again, that was 2005. Professor Ericson
15 concludes that by any reasonable economic comparison,
16 these must be considered large economic impacts.

17 Thank you.

18 MR. CAMERON: Thank you very much, Professor.
19 Let's go to Lee Ragsdale. And no one's asleep.

20 MR. RAGSDALE: Good evening. I'm Lee
21 Ragsdale, manager of power resources at the North
22 Carolina Electric Membership Corporation. We provide
23 electricity to 26 rural electric cooperatives serving
24 over 800,000 meters across the state. The energy needs
25 in North Carolina's electric cooperatives are tracking

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1 the significant growth of our state in the digital age.
2 While all utilities are reviewing alternative fuel
3 resources and implementing energy efficiency and
4 conservation programs, we will need base load generation
5 in the next ten years.

6 North Carolina's electric cooperatives
7 believe nuclear power is a viable and practical option.
8 Expansion of nuclear units at an existing site may be the
9 only option to provide significant generation.
10 Additionally, concerns regarding carbon emission make
11 nuclear an even more attractive option for base load
12 power.

13 North Carolina Electric Membership Corporation
14 is a wholesale customer of Progress Energy Carolinas.
15 The Harris Plant is an important part of Progress
16 Energy's energy resources. Providing for the option of
17 expanding that site with additional generation units is
18 prudent in today's global environment of rising energy
19 costs and environmental sensitivity allows for the
20 continuation of emission-free reliable power at the
21 lowest possible costs to the citizens of North Carolina,
22 including our membership.

23 In a broader context, nuclear power is
24 essential to a balanced portfolio for any energy company,
25 and North Carolina Electric Membership Corporation has an

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1 interest in a nuclear plant, as well as supports the
2 continuation and development of nuclear resources in the
3 state. We support the possible expansion of the Harris
4 Plant and encourage the Nuclear Regulatory Commission to
5 take the steps necessary to allow Progress Energy to move
6 forward in this planning process. Thank you.

7 MR. CAMERON: Thank you very much, Lee. We
8 are next going to hear from Hilda Pinnix-Ragland, and as
9 Hilda is coming up, after she is done, we will go to
10 Kevin Johnson, Jim Fain and Sasha Weintraub. This is
11 Hilda Pinnix-Ragland.

12 MS. PINNIX-RAGLAND: Good evening. I am Hilda
13 Pinnix-Ragland, the Vice-President of the northern region
14 for Progress Energy. And I actually happen to be one
15 that is serving from a distribution perspective, the
16 500,000 customers that we are talking about adding over
17 the next 30 years.

18 This evening, I wanted to share with you just
19 a brief summary of why we are applying for a license, and
20 why the Harris site is really just an ideal place for two
21 new potential nuclear units.

22 First, growth. It's actually a good thing.
23 When you think about the states around us and many parts
24 of North Carolina, growth is a great thing. We are
25 growing. Over one hundred people move to Wake County

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1 every day, and that is a good thing. Now with the growth
2 we need to provide electricity, and we're obligated to
3 serve. We want to make sure we provide the electricity
4 that our customers need. Thus, by 2026 or 30 years from
5 now, an additional 500,000 new customers, which is good.

6 In addition, our homes are larger than they
7 were many years ago, and we use almost 50 percent more
8 electricity than 30 years ago. So we must be ready to
9 meet the needs of our community, making sure that we
10 provide safe, reliable, economic, and environmentally
11 sound energy.

12 Now, we are looking at many different
13 options, and it won't take just one solution. We have to
14 balance energy or balance solution strategy. That
15 includes first enhanced energy efficiency. And we
16 believe in energy efficiency. Investments in alternative
17 energy and renewables, that's critical. And of course
18 continuing our state of the art power plant.

19 Even with our commitment to energy
20 efficiencies and renewables, we will still need
21 additional base load generation. And while I would love
22 to say we can conserve our way, it's not going to happen.
23 So we must plan now for the future.

24 Now, there are four key reasons why the
25 Harris Plant. And it's an ideal site. First, there is

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1 sufficient water supply, and all of us remember the
2 drought. We faced it head on. But I am here to say that
3 we did not have a problem at all operating the Harris
4 Nuclear Plant. And that is a key message. We had
5 adequate power supply for the water component. And no
6 matter which base load generation you select, all of them
7 require some kind of water usage. We have a wonderful
8 lake. And yes, we have discussed raising the lake levels
9 by 20 feet, and it actually includes an additional 4,000
10 acres to the lake. And we will have the adequate water
11 supply once we do that.

12 Some of you are wondering about the park.
13 Well, I was actually here when we had the first park. We
14 will make sure we will have a park, a wonderful park, so
15 that all of us can enjoy.

16 The second key reason for Harris is the
17 transmission capability. We already have it right here.
18 We have the transmission capacity right here on site.

19 The third is the land. We have an abundance
20 of land. So we have no problems with securing land or
21 buying that property. And finally, it is located, the
22 Harris Plant, it is located adjacent to North Carolina's
23 growing population. The Triangle and the Charlotte area
24 are growing more than any other area. So we are right
25 here where the customer base is. So Harris is ideal. We

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1 believe we have a balanced solution approach, and we are
2 ready to serve it.

3 And there is one other thing I would like to
4 mention. We have a history, and a great history, of
5 running wonderful nuclear plants. In fact, we have been
6 in the business for 36 years. We have operated an
7 excellent record, for Harris for 20 years. We are very
8 proud of that. We have received recognition from our
9 peers. We have received recognition from the Edison
10 Electric Institute, that occurred in 2006. We were
11 recognized for operational effectiveness, for
12 reliability, for customer satisfaction. We just received
13 an outstanding award from what we call EEI or Edison
14 Electric Institute.

15 As I close, there is one thing that really --
16 that I'm really, really proud of, and it's our wonderful
17 employees. I believe we have the best employees in the
18 world, and they are here to handle any task put before
19 them. Thank you.

20 MR. CAMERON: Thank you very much, Hilda. We
21 are next going to hear from Kevin, Kevin Johnson.

22 MR. JOHNSON: Good evening. My name is Kevin
23 Johnson. I'm the vice president of the Research Triangle
24 Park. I want to first tell you how proud I am to be
25 here, and also how proud I will feel when I get home,

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1 because I promised my 11-year-old daughter who is in the
2 midst of end of grade testing for Wake County that I
3 would be there to tuck her in tonight. So I appreciate
4 the expediency for which we have engaged in this process.
5 I want to first again thank you for the opportunity. And
6 I would like to kind of take a different approach in
7 terms of our support of Progress Energy and their need to
8 expand the Shearon Harris facility. I want to take this
9 in two different cuts.

10 One cut is to explain to you what is
11 happening at Research Triangle Park(RTP)today, and then
12 kind of explain to you where we think our growth will
13 occur, and our need to have reliable power for RTP in the
14 future.

15 First as many of you are aware and I am sure
16 most of you in this room have been to RTP. I will give
17 you a quick snapshot. RTP is a 7,000-acre research and
18 development park. We are the largest research park in
19 the western hemisphere, the second largest research park
20 in the world. The largest research park in the world is
21 in China, at 10,400 acres. So we're right below that
22 number. We have 41,250 employees in Research Triangle
23 Park. We have 172 research companies in the park. We
24 have a capital investment in the park of 2.8 billion
25 dollars and an annual payroll of 2.7 billion dollars. We

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1 are what we are proud to say the economic engine of the
2 Triangle region.

3 With that being said, what about the future?
4 The future for RTP is predicated on a couple of things.
5 One is available of reliable water. Two is availability
6 of talent. Three the availability of adequate utilities
7 to fund and manage what we think is the most successful
8 economic development experiment in the history of the
9 United States of America.

10 So what does that number look like? In our
11 market area, what we call the sphere of influence, which
12 is about a five-mile radius around the park, there is a
13 couple of numbers that we like to throw out, and I think
14 justifiably so, in our percentage share of what that
15 number looks like. So first, let's look at one area,
16 what we call a general office market in the Research
17 Triangle sphere of influence.

18 Our five year projection for growth in
19 general office space is 5.3 million square feet. Our
20 research component of the office is about 1.7 million
21 square feet. Our percentage share of that over a five
22 year period is another 265,000 square feet in RTP on top
23 of the 24 and a half million square feet that already
24 exists in RTP. The research part of that is another
25 500,000 square feet of R&D space in the next five years.

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1 You're talking about 2026. We are talking about five
2 years from now.

3 If those trends continue, and there's plenty
4 of land in park, let's not get that confused, we also
5 feel like we will absorb another 500,000 of R&D space.
6 We will absorb in retail space in the park, which is a
7 new component, or an expansion of a component in RTP.
8 Our general market area, five mile radius, is adding
9 another 900,000 square feet of retail in the next five
10 years. Our proportion share of that is another 335,000
11 square feet in the park.

12 Apartments: Live, work, play has been a buzz
13 word in this area, and we are beginning to introduce that
14 concept in the Research Triangle Park. What does that
15 number look like? Well, in our five mile sphere of
16 influence, we're looking at another 20,000 dwelling units
17 in the five-miles radius, 20,000 dwelling units. Our
18 share of that is a thousand dwelling units in the park.

19 In hotel space, we do have a hotel in the
20 park. We are happy about it. But we need another one.
21 We think that we have the capacity to add another 600
22 rooms in RTP. So that's looking out into the future. I
23 told you about where we are today. I think that this is
24 the right thing to do. We think that in order for us to
25 hit these numbers, which will come one way or the other,

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1 we will have to have the ability to service our needs.

2 Thank you very much, and I hope you have a good evening.

3 MR. CAMERON: Thank you, Kevin, for taking
4 the time to come down and talk to us. And we're going to
5 go to Jim Fain.

6 MR. FAIN: Good evening. I never had a
7 college economics professor that didn't put everybody to
8 sleep, so hats off, Doctor. If you couldn't do it, let
9 me take a crack at it.

10 My name is Jim Fain, and I currently serve as
11 Secretary to Commerce for the State of North Carolina.
12 The mission of our department is to enhance the economic
13 well being and quality of life for all North Carolinians.
14 Of course, there are many measures of success in
15 accomplishing that mission. But two key and easy to
16 understand metrics are quality job growth and increases
17 in ad valorem tax paying investment.

18 North Carolina's strategy to add well paying
19 jobs and opportunities for citizens is based on
20 consistent investment and education and work force
21 development, augmented by investments in infrastructure
22 innovation and quality of life assets. Our companion
23 strategy to investing in the skill of know-how of our
24 work force, building a knowledge base accounting, if you
25 will, is investment in quality of life and place.

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1 Knowledgeable workers expect and gravitate to places
2 where they can find good schools, park and recreation
3 opportunities, good health care, and a sound environment.
4 For example, they typically want to live where
5 investments and policies reduce carbon and other
6 emissions and the intended impacts on air quality and
7 climate.

8 Obviously inducing good new jobs and
9 investment depends on many variables, certainly including
10 the availability of reliable and affordable electric
11 power. Further, in my opinion, an appropriate proportion
12 of nuclear generation in our electric power mix is
13 important to meet the growing needs of both employers and
14 the expectations that citizens have for air quality. And
15 in a growing jurisdiction, and you've heard a number of
16 statistics on the growth. In a growing jurisdiction,
17 economic opportunity depends on adequate base load
18 capacity, and that's particularly an important issue in
19 our state, which has been growing rapidly.

20 Since July 2003 which was the bottom of the
21 recession driven employment decline in North Carolina,
22 our state over that four and about half years, our state
23 has added 416,000 jobs through the first quarter of this
24 year. That's an average of 89,000 jobs per year during
25 that time frame. And in 2007, as measured by the payroll

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1 survey, our state added more jobs than all other states,
2 except Florida, Texas, and California. Generally those
3 new jobs have been in sustainable, well-paying industry
4 sectors and include both commercial and industrial users
5 of power. During this decade, North Carolina's
6 population has grown by about a million residents, or
7 12.6 percent. And as I think many of you know, in 2006
8 the state became the tenth largest in the nation,
9 surpassing New Jersey in population.

10 An interesting aspect of our growth has been
11 in migration. About 70 percent of our population growth
12 has been fueled by the relocation of people from other
13 states and other countries, we believe drawn by, among
14 other things, opportunity and liveability.

15 The infusion of talent and diversity from
16 this migration has strengthened our economy and helped
17 fuel healthy growths in employment and investment.
18 Clearly, the availability of reliable and affordable
19 power has supported our growth, as has, no doubt,
20 initiatives such as our clean smoke stacks legislation
21 which has encouraged investment in scrubbing equipment.

22 Now, occasionally in my work I hear arguments
23 that we should limit growth in our state. And in my work
24 I have seen the challenges experienced by areas of our
25 state that had little growth or have been in decline.

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1 That experience underscores for me the importance of
2 healthy growth. Growth enables our communities to
3 develop scale benefits, which enhance the quality of life
4 of our citizens. Growth means better airports, more
5 culture amenities, more shopping and recreation choices,
6 just to mention a few of the possibilities in a
7 jurisdiction that encourages healthy and manages healthy
8 orderly growth.

9 In conclusion then, I believe that it's
10 strategically important that we add to base load capacity
11 in the state in a timely fashion to sustain orderly
12 healthy growth. Certainly nuclear power must be an
13 important part of the base load mix. In my opinion, it's
14 an excellent vehicle for accomplishing efficient
15 generation of power, certainly at base load scale, in
16 reducing our carbon foot print. Coupled with
17 conservation, in a realistic mix of renewable and other
18 forms of generation, nuclear power helps support our
19 growth, reduce carbon and other emissions, and achieve
20 our national objective of energy self-sufficiency. So I
21 believe more nuclear capacity is good public policy and I
22 certainly support this combined license application.
23 Thank you very much.

24 MR. CAMERON: Thank you, Secretary Fain.
25 We're going to go to Sasha Weintraub.

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1 MR. WEINTRAUB: Good evening. My name is
2 Sasha Weintraub. I'm the Vice President of the Fuels
3 Department responsible for procuring the coal, oil, and
4 natural gas that we use to generate electricity at
5 Progress Energy Carolinas power plants. What I would
6 like to talk to you about today, real briefly, is the
7 challenges on a global scale as we talk about growth. In
8 places like China, they are building a 500 megawatt coal
9 plant a week to power a city the size of Dallas or San
10 Diego. In places like India, they're putting cars on the
11 street at a record number that's requiring gasoline and
12 oil to fuel those vehicles. Just recently, one of the
13 largest Indian automotive manufacturers, Tata Energy,
14 purchased from Ford, Jaguar and Land Rover brand as they
15 become a more global player.

16 The challenge for us is the fact that just in
17 the past year, when you look at the fossil fuel prices
18 that we use today to generate our electricity, natural
19 gas has gone up over 64 percent in just one year, crude
20 oil is up over 107 percent in one year, and coal is up
21 over 180 percent in just one year. So across the world
22 as we talk about growth here in Wake County, growth is
23 really occurring across China, India and other countries.
24 In order for us to maintain a balanced solution where we
25 utilize alternative energy, efficiency, and state of the

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1 art power plants, Harris 2 and 3 play a key role in order
2 to allow Progress Energy to help secure our energy
3 future. Thank you.

4 MR. CAMERON: Thank you very much, Sasha.
5 Our next speakers, we're going to go to Anita Badrock,
6 Liz Cullington and Audrey Schwankl. This is Anita.

7 MS. BADROCK: Good evening. Thank you. My
8 name is Anita Badrock, and I live and work in Chapel
9 Hill. I work as a recruiter for local area businesses,
10 and I most recently served as the past president of the
11 Chapel Hill-Carrboro Chamber of Commerce. And thank you
12 for the opportunity to come here tonight and sort of give
13 you a finger from our pulse on the western part of the
14 Triangle.

15 The issue of nuclear power is complicated and
16 very emotionally charged, and I feel like I can speak to
17 that with some personal knowledge. I grew up on a farm
18 in upper South Carolina, and when I was about ten years
19 old, give or take a little bit, Duke Energy built the
20 Oconee Nuclear Power Plant within about five miles of our
21 family farm. We had a siren on our barn roof. We had a
22 radio in our house, and we participated in all of the
23 drills, the information sessions, and things from Duke
24 Energy to educate us. My father was a professor of
25 Spanish at Clemson University, and so we of course

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1 listened and tried to learn as much as we could about
2 nuclear energy.

3 I am happy to say that after 30 years of
4 studying, our family came from a position of complete
5 opposition to nuclear energy, to become a family that
6 thinks that nuclear energy should deserve a seat at the
7 table when we talk about our energy needs for this
8 century and beyond. I know that this hearing is about
9 the environmental impacts of nuclear energy, and I am
10 sure there are a lot of scientists in the room and
11 members of the Nuclear Regulatory Commission that know a
12 lot more than I do about this.

13 But I was happy to hear in the presentation
14 that you had, that you talked about the human
15 environment, because I think in Chapel Hill that we've
16 spent a lot of time talking about what the human
17 environment needs. We would define that a little
18 differently. We talk about sustainability and the triple
19 bottom line, and that is the issue of environmental
20 stewardship, social equity, and economic vitality. And
21 we believe that any community can not survive without a
22 balanced presence of all three of those in the community.
23 If you want to see communities that are the most
24 environmentally degraded, look at ones that have pushed
25 economic issues above all else. If you want to see

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1 communities with absolutely no economic vitality and no
2 ability for children to live and work and stay in their
3 own communities, look at communities that have paid no
4 attention to economic issues. So we really believe that
5 anything, whether it be an energy policy or any kind of
6 big development that happens, has to balance all three of
7 those things.

8 We also believe in flexibility, and we
9 believe that a nuclear power plant has to be part of the
10 discussion when we look at the future. And I want to
11 just give you a couple of examples. One thing, it is
12 amazing how quickly the price of oil has affected the
13 budgets of our governments, of our families. We have
14 seen double digit increases in Orange County for tax
15 payers on their homes because we don't -- and primarily
16 because of the cost of fuel. We have this problem
17 because we didn't keep our options open when we planned
18 this area to think about other ways of getting around.
19 We needed to do that before we needed them. And we are
20 paying a price now. Greenhouse gas emissions. The
21 greenhouse gas emissions that this country puts out is
22 disproportionately affecting people all around the world,
23 and that's happened because we put too much emphasis on
24 using fossil fuels to produce energy. And that has
25 affected our economic vitally and our environmental

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1 stewardship throughout the world.

2 A sustainable energy plan is nimble and it
3 has options; one that we can utilize quickly when
4 circumstances change, as science advances, as our needs
5 change and as the cost and availability of raw materials
6 change.

7 Most of us don't think about what it's like
8 to live without electricity. I have a mother that is
9 completely oxygen dependent, and when we had the last ice
10 storm, she quickly became an emergency situation and had
11 it not been for the ability of our family, to be on -- in
12 this case Progress Energy is not even our provider, but
13 had it not been for the ability of our family to be on
14 Duke Energy's special list that we had someone in our
15 family whose life was at stake, my mother could have
16 died. So we really rely on power companies to provide us
17 energy when we need it, on demand, and I believe we need
18 to give our energy companies the tools and flexibility
19 they need to meet that demand for us.

20 Our utility companies just do not have the
21 option of running out of energy. So I would say that I
22 want a sustainable energy plan for our needs. A
23 sustainable energy plan protects the environment, it
24 promotes social justice and it encourages economic
25 vitality. So first and foremost I think we have to work

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1 on conservation and we have to work on it both as a
2 business community and personally. We have to reduce our
3 energy demands.

4 Secondly we have to expand and reward the use
5 of renewable sources of energy and do what's needed to
6 make them viable in the market place. And third, we
7 really need to keep our options open, and that includes
8 keeping nuclear energy on the table. If it's done right
9 it has the potential to keep the cost of electricity
10 down, gives expanded and reliable capacity to meet the
11 needs that we have in our community, and we can limit
12 harmful green house emissions. The doing right is the
13 key part, and I know that there are people who are much
14 smarter than I am that will figure out how to make that
15 happen.

16 A sustainable energy policy, one that
17 balances the issues of environmental stewardship, social
18 justice, and economic vitality by its definition keeps
19 options open and weighs them according to the best and
20 latest knowledge in order to make good decisions.

21 Flexibility on how we produce and deliver electricity is
22 essential for the public safety, for security, and yes
23 for our environmental protection too. All forms of
24 energy production, including nuclear energy, need to be
25 available to the companies that we've tasked to do that.

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1 So I would support Progress Energy's application. Thank
2 you.

3 MR. CAMERON: Thank you, Anita. Liz, Liz
4 Cullington.

5 MS. CULLINGTON: My name is Liz Cullington,
6 and I live in Pittsboro, about 14 miles from the Harris
7 site. I didn't learn about this meeting until May 29th,
8 so needless to say, I have not had time to both download
9 and read all 1636 pages of Progress Energy's
10 Environmental Report, let alone the rest of the license
11 application. However, there has been no local publicity
12 about this meeting that I'm aware of, and I did try
13 searching for that on line. And I believe people would
14 need one or two months to digest this amount of
15 information. So you can expect to get only general
16 comments. And it appears that most of them are coming
17 from people recruited by Progress Energy to speak in
18 favor of more nuclear power.

19 In the past I made detailed comments on the
20 Harris unit 1 license renewal application, and that seems
21 to have been a waste of time also.

22 Many climate scientists tell us that we only
23 have a few years, possibly as little as 18 months, to
24 take global action on climate changes and its primary
25 causes, including rainforest destruction and man-made

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1 carbon emissions, and to slow down all the feedback
2 mechanisms, such as melting permafrost causing methane
3 emissions, melting Arctic and Antarctica ice, and
4 shrinking glaciers. All of these too have already begun.

5 Progress Energy claims that nuclear power
6 involves no emissions and is carbon-neutral or carbon
7 free but they go further to argue, not only to the
8 public, but to scientists at a federal agency like the
9 NRC, that a nuclear power plant would actually lower
10 carbon emissions. None of that is actually true.

11 Nuclear power is not magic, and it can not
12 remove carbon dioxide from the air, and it especially is
13 not going to do that when it is operated in addition to
14 coal plants to meet what Progress Energy says is going to
15 be ever increasing demand. This is important for the
16 public to understand. Progress Energy's plans do not
17 show them shutting down coal plants. Instead they plan
18 for more and more electricity powered by coal and
19 nuclear. They have proposed only a 2-year moratorium on
20 additional coal plants, presumably just long enough for
21 them to get approval for these two new nuclear power
22 reactors, then they apparently will be adding yet more
23 coal plants.

24 Coal fired power plants are the single most
25 avoidable and concentrated cause of human greenhouse gas

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1 emissions. The carbon dioxide emissions from coal plants
2 are so great that they can wipe out the reductions that
3 individuals and businesses are planning to make.

4 Even if nuclear were to replace coal, which
5 in this case it won't, that nuclear plant would need to
6 be on line immediately. Instead it's going to be a
7 minimum of ten years, and quite possibly longer.

8 Even if two new reactors in Wake County were
9 actually part of a solution to global warming, then we
10 would still have to also consider the safety issues, the
11 problem of the long-lived waste, the global shortage of
12 uranium and its increasing price, the problem of water
13 supply for the two new reactors, and the effect of
14 putting an additional five to 20 billion dollar debt onto
15 North Carolina and South Carolina rate payers who are
16 losing their jobs in batches of several hundred to a
17 thousand at a time, and seemingly every week.

18 But nuclear reactors don't operate in
19 isolation, and just because they don't emit carbon
20 dioxide out of the cooling tower does not make them a
21 carbon-free source of power. The uranium fuel has to be
22 mined, then the ore transported halfway around the world,
23 with the U.S. importing about 85 percent of its uranium,
24 a greater percentage than our imports of oil. Then the
25 uranium ore has to be chemically processed, enriched, and

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1 manufactured into fuel, a process that not only uses lots
2 of energy, but also releases other processed chemicals
3 into the air that contribute to global warming. The
4 nuclear plant itself has to be manufactured, the waste
5 has to be cooled, processed, shipped, and isolated. The
6 entire business would only start actually becoming carbon
7 neutral in about 20 years, which would be in 2038 at the
8 very earliest.

9 Many other countries, however, are also
10 planning new nuclear plants. Since there's not enough
11 viable uranium for all of these planned nuclear plants,
12 this means the U.S. nuclear plants might in fact be
13 carbon neutral, and they're certainly going to be more
14 expensive to operate.

15 Water supply for these particular two new
16 reactors at Harris is a vital issue. Several other
17 speakers have mentioned this. Many people think that
18 since four reactors were once planned there, there's
19 bound to be enough lake capacity already for the
20 additional plants. However, during drought conditions,
21 the current reactor has to have water pumped from the
22 lower level larger lake to the smaller higher level
23 reservoir.

24 Progress Energy plans to raise the level of
25 the larger lake by 20 feet or more since the

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1 environmental report shows a map up -- the level up to
2 250. But even so, they feel it would be necessary to add
3 a long pipeline to pipe water from that lake from the
4 Cape Fear River. This is because Harris Lake, while
5 already large in appearance, is only fed by very small
6 creeks, not several large rivers like Jordan Lake.

7 Contrary to what you'd expect, the new
8 reactors are not to be sited next to this larger lake,
9 but north of the smaller reservoir so that the water
10 supply and heat sink required to prevent a meltdown would
11 be the same smaller reservoir for three reactors that
12 currently is not always enough for one reactor. And
13 water supply for the three reactors would depend on two
14 active pumping systems, which would basically depend on
15 off site power from other sources, rather than power from
16 the reactors themselves.

17 I'd also like to address the section that
18 Progress Energy has devoted in its Environmental Report
19 to why it needs more power plants. Progress Energy is
20 arguing based on NRC regulations that if our local North
21 Carolina Utilities Commission has indicated that Progress
22 Energy may need additional base load power in the future,
23 then Progress Energy does need additional base load
24 power, and nuclear is preferable. However, the data
25 provided to both the state and the Nuclear Regulatory

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1 Commission is all peaking demand data, not base load
2 data. Base load demand is the 24-hour always-on demand
3 for power.

4 The last of North Carolina's industries are
5 shutting up -- manufacturing industries are shutting up
6 shop, and indeed the planning data filed by our utilities
7 show a dramatic drop in industrial demand. Recently the
8 credit crunch has pushed many national retail chains into
9 filing for bankruptcy protection. So base load demand is
10 more likely to drop in our region overall rather than
11 increase. We are not just talking about Research
12 Triangle Park. We are talking about overall demand in
13 the North Carolina and South Carolina service area for
14 Progress Energy.

15 With fewer jobs in that area overall, we may
16 still see more retirees moving for instance to North
17 Carolina, but only to the limits of our water supply,
18 which is already stretched to the limit in drought years,
19 and residential customers tend to only increase
20 intermittent peaking demand.

21 Nuclear power plants must operate around the
22 clock except when shutdown for refueling. It is very
23 dangerous to keep starting them up and shutting them down
24 to meet intermittent demand. They do, however, shutdown
25 unexpectedly which makes them less than a 100 percent

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1 reliable source of power for base load. So a large
2 centralized nuclear plant requires more backup plants
3 than would more smaller, more varied renewable sources.
4 Or just other smaller plants.

5 If Progress Energy actually wanted to do
6 something about the climate, then they would need to
7 shutdown their coal plants and put the money they plan to
8 put into two new reactors into reducing energy demand and
9 increasing our energy efficiency.

10 The best, cheapest, and fastest way to lower
11 carbon emissions from the electricity sector is to reduce
12 wasted electricity, upgrade existing buildings and
13 appliances, and educate the public about the importance
14 and urgency of slowing down runaway climate change,
15 including quite probably us having to make life style
16 changes and just stop living like we have eight more
17 planets at our beck and call, just for us Americans.

18 Clearly Progress Energy has stopped arguing
19 that wind and solar don't work, which they used to do.
20 Instead they have dredged up some slightly dotty claims
21 such as the ones that a concentrating solar plant or wind
22 farm is really much uglier than a nuclear reactor, and
23 that the land that the wind farm or solar plant would be
24 sited on would be just ruined forever. They claim that
25 these other sources have the same small environmental

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1 impact as a nuclear reactor, even though wind and solar
2 do not require fuel, don't involve constant mining and
3 waste disposal, don't require and then pollute a water
4 supply and can't meltdown and permanently contaminate up
5 to half the east coast.

6 Progress Energy has its highest peak demand
7 in summer, and that occurs in the late afternoons of the
8 hottest, sunniest days, when air conditioners, fridges,
9 fans, and grocery store coolers and freezers are all
10 running full tilt. Yet this is exactly when the most
11 solar power could be generated.

12 Even though centralized solar concentrating
13 plants using parabolic troughs have been safely operating
14 in the U.S. for fourteen years, Progress Energy claims
15 that this technology is still at the demonstration stage.
16 By that standard, so is the uniquely designed Shearon
17 Harris Plant, unit one. But more importantly, the new
18 Westinghouse AP1000 reactor has no full scale operating
19 prototype anywhere in the world. In fact, the design is
20 still going through revisions that one NRC Commissioner
21 has called substantial in a public speech.

22 Given the impossibility of evacuating the
23 Apex, Cary and Raleigh downwind areas in a timely manner,
24 where the population has increased exponentially since
25 the 1960s when the site was first proposed, we would

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1 prefer not to be among the first guinea pigs for this
2 still experimental new reactor design.

3 It is important for members of the public to
4 understand that when a group of power companies
5 approached Westinghouse for a new reactor design back
6 around 1990, the utilities wanted a plant that would be
7 cheaper and faster to build, and easier to operate. This
8 wasn't because of concern over global warming back then.
9 Increased safety in the design would also mean fewer
10 unexpected shutdowns. But between the first prototype
11 and now there have been many safety compromises because
12 utilities like Duke and Progress Energy were stuck on the
13 idea of a 10000 megawatt reactor, not a 600 megawatt
14 reactor.

15 MR. CAMERON: Excuse me Liz, we appreciate
16 all the information but --

17 MS. CULLINGTON: Four lines.

18 MR. CAMERON: Four lines, beautiful

19 MS. CULLINGTON: -- not a 600 megawatt
20 reactor. Perhaps one reason was so that they could
21 utilize existing sites and tell the locals, we already
22 have approval for four reactors at that site. The fact
23 is that Progress Energy does not have approval. It's
24 proved by the fact that we are here today, neither from
25 the NRC, nor from the state. And they have not proved

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1 that they need over 2000 more megawatts of power plant,
2 nor that new nuclear reactors are the least
3 environmentally harmful, or least cost, option.

4 MR. CAMERON: Thank you. Audry.

5 MS. SCHWANKL: Good evening everyone. My
6 name is Audry Schwankl, and I live in Pittsboro. I'm a
7 citizen of North Carolina. My husband and I live on a
8 small homestead in Pittsboro with our four children. We
9 are also foster parents. I don't work. I am a
10 stay-at-home mom right now. I will tell you that about
11 two years ago I heard about the possible expansion of
12 Shearon Harris. I didn't know anything about the plant
13 except that it was close by and it scared me to death. I
14 said over my dead body will they expand the nuclear power
15 plant, and that was based on my knowledge of the waste
16 that is produced by the nuclear power plant. We can talk
17 about economics, we can talk about the great things that
18 it can do for our community now, but the fact of the
19 matter is that the legacy that we are going to leave when
20 we are gone and our kids are gone and our grandkids are
21 gone, and all their grandkids are gone and all their
22 grandkids are gone and so on and so forth.

23 According to David Flemming, who wrote an
24 article about nuclear power plants that was saying
25 basically that they aren't a viable option, said that he

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1 showed the scientific sort of formula of how radioactive
2 material disintegrates or becomes harmless to humans,
3 that it would take for the half-life, that means for half
4 of it to degrade to an acceptable place for us as human
5 beings to have contact with it, basically the time for
6 that is the age of the earth. So that's what we're
7 producing in order to fuel our homes and our dreams and
8 everything else that is great and was mentioned by so
9 many folks here tonight. Because what you're saying is
10 true. We have a very high standard of living and that
11 standard of living is getting higher and higher, and we
12 need energy to fuel that. But this is what we're really
13 producing. This is our legacy with nuclear power.

14 One thing I'll have to say about Progress
15 Energy that I absolutely love and adore, and it was
16 stated by Mr. Goodwin, is their community partnership.
17 You see the name everywhere. I mean they're helping in
18 all kinds of ways, they are involved, they want to get
19 involved with communities. They want to show people that
20 they are concerned about the community. I have
21 participated in many of the things that they have been
22 behind, and I love the theater and I go to the Progress
23 Energy place in Raleigh and take my daughter to see the
24 Nutcracker and saw a great production of Man of Lamancha
25 last year. They do wonderful things that way.

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1 However, when it comes to producing energy,
2 when it comes to nuclear power plants, I don't believe
3 they do that great a job. For two years now, I have been
4 studying the nuclear power plant there and listening to
5 what people have to say about the safety issues there,
6 and well, they have been out of compliance with fire
7 safety for 15 years. That is a fact. And that is not
8 changing any time soon, because the NRC is allowing them
9 more time for studies. So basically okay, the plant's 20
10 years old and it's finally going to be made safe,
11 supposedly. So when we talk about safe, reliable,
12 affordable energy, I can't jive with that. The Harris
13 safety record should disqualify the building of any new
14 nuclear power plants as far as I'm concerned. If the old
15 ones couldn't be maintained correctly, how can we trust
16 them with new untested power plants?

17 They're not affordable. Everybody knows that
18 nuclear power plants would not be built if it weren't for
19 the subsidies from the government, and you know the tax
20 payers are basically holding it up. Wall Street is not
21 behind it. They're not going to loan money for any
22 nuclear power plant, unless it's backed up by the
23 government. So financially, it's not a good bet. It's
24 something that could fall apart in the middle. It could
25 be under construction for five years, which by the way, a

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1 plant takes between five and 15 years to come -- so it's
2 finally ready to produce power. So for the folks that
3 we're talking about, the economic growth here in the
4 Triangle in the next five years, it ain't going to be
5 ready. It's just not going to be there. It's going to
6 take ten, 15, 20 years to get this thing on line. And it
7 may stop in the middle. It may not even come to
8 completion. And all the money that has going into it is
9 going to be paid by the folks that are paying their
10 electric bills. It's just going to be a huge economic
11 burden, a billion dollar loss for our economy.

12 So also when we're talking about the lowest
13 cost option, we have a choice here. We are facing global
14 warming. According to the scientific community, it's a
15 reality. And if we squander our money and time on
16 nuclear power plants that aren't going to be on line for
17 ten to 15 years, and that's way beyond where the point of
18 no return happens, if we're saying okay, we're going to
19 put our money there, you know, that's not -- that's
20 possibly not even going to come to fruition. And as far
21 as lowest cost, when we're talking about the waste that
22 is produced by these nuclear power plants, we have to
23 come up with the money to store this stuff for eternity.
24 That's not low cost. That's the most expensive kind of
25 power that could ever possibly be produced.

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1 I've also come into some knowledge that
2 there's actually a glut of energy in the Southeast right
3 now. There are 60 power plants that could be used to
4 produce all of this energy that we need to support
5 economic growth and that are not being fully exploited at
6 this time because they want these nuclear power plants to
7 be built so that we can possibly sell to maybe somewhere
8 else, right. I don't believe the plants are necessary,
9 and also energy efficiency, better building models,
10 conservation. I think conservation could play a very
11 small part, but our personal conservation. We've got to
12 look to industry for the real conservation, for the real
13 decisions, right, real change making decisions.

14 I've written notes down next to each speaker,
15 and I just wanted to address some things for each one,
16 and I think I've gone through most of them.

17 MR. CAMERON: Audry, I am going to have to
18 ask you to just sum up for us if you could please.

19 MS. SCHWANKL: Basically, I believe that the
20 construction of two new nuclear plants, reactors here at
21 Shearon Harris, it would be an example of Progress Energy
22 impeding our transition to truly safe and efficient
23 energy, which we have the capability to produce here in
24 North Carolina. It just squanders the resources needed
25 to slow the global warming and to put us on the path of

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1 true safe and efficient energy. Thank you.

2 MR. CAMERON: We're going to go to Bob
3 Funderlic and Sol Cammarata, Barry Porter and Shirley
4 Hubert.

5 MS. HUBERT: She just said it for me.

6 MR. CAMERON: And you're Shirley Hubert. So
7 let the record show that Audry Schwankl said it for
8 Shirley Hubert. Thank you. And this is Bob Funderlic.

9 MR. FUNDERLIC: I'm one of those professors
10 again over at that really, really good university, best
11 in the Triangle. I think it's the same place that the
12 economist is from. I have been to Chapel Hill as well,
13 six times, I think. That is a scary 'place.

14 I am a professor emeritus at NC State. I am
15 not sure they want to claim me. I came there in '86 as
16 department head of computer science. Before that, I was
17 at a national laboratory and was chief computational
18 scientist on energy problems. The person at the desk in
19 there suggested that I talk about something. Somebody
20 was saying they only learned about this thing today or
21 something, but I did too, 1:30. But it was in the
22 newspaper.

23 Anyway, there was talk about professors
24 putting people to sleep. I have to tell you though, that
25 I'm an expert in keeping you awake. The proudest

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1 teaching evaluation I got is this guy said, this guy
2 could be a stand up comedian, but if I wanted that I'd
3 watch Seinfeld.

4 What I'm going to do is just, like some of my
5 students do, plagiarize. Finally, I have no conflict of
6 interest. I suspected a good many -- supposed to have
7 respect right? Anyway, I don't have any. I don't work
8 for Progress Energy. I don't want to work for them. I
9 don't even have any a salary. I don't work for a salary.
10 I think it's important, by the way, that people do
11 mention their conflicts of interest.

12 What I'm going to do is just read for you an
13 e-mail that I got August of last year from a colleague
14 who I worked with at a national lab, and he's at some
15 famous institute, but he's like me. They don't like for
16 him to speak much. They want to keep his name secret.
17 So I guarantee you he is very good. He's a global
18 warming type person. He thinks that Al Gore is his
19 patron saint and he's just absolutely on the side of
20 global warming, as I am too. I mean, I don't want global
21 warming. I would like to do something about that. I
22 think the nuclear business is the way to do that.

23 Burt sent me this message, and he said,
24 you're right about the reactors. We should all be
25 driving electric cars, which we could plug in every night

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1 to recharge them with nuclear generated electricity.

2 The most famous of all environmental guru's,
3 James Lovelock, argues that reactors are our only chance
4 of preserving civilization through the coming
5 catastrophe. In his latest -- by the way, if you want me
6 to send you references on all this, just give me your
7 e-mail address and say something in the subject line that
8 doesn't have the word bigger in it. My spam thing
9 doesn't do so good.

10 In his latest book the Revenge of GAIA,
11 somebody must know that what that is, I don't, points out
12 that it would take 58,000 windmills to replace one
13 nuclear power reactor. I know you guys argue about this.
14 We heard the word kilowatt come up quite a bit today and
15 it never said per hour or what it was. So you can argue
16 that maybe this is someplace where there isn't any wind,
17 or you can say the nuclear reactor was bigger than the
18 state, or something like that. But I give you the
19 reference. 58,000 windmills to replace one nuclear
20 reactor.

21 He has also written a four-page article about
22 this in the Reader's Digest, and I'm not a fan of the
23 Reader's Digest either, which I have attached. So I can
24 send you that article. You can find other stuff about it
25 on his webpage. It's www.ecolo.org/lovelock. Just like

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1 you'd expect, the word love lock, L-O-C-K.

2 The French get 80 percent of their
3 electricity from reactors. They are way ahead of us.
4 They are just like they are -- Burt's a controversial guy
5 too -- just as they are on health care. We are a nation
6 of very stupid people. I shudder to think about what's
7 going to happen when we are faced with the first year of
8 world-wide crop failures caused by climate change. Maybe
9 we can just drink all of the alcohol that we converted
10 from corn.

11 I am intrigued by your new interests in the
12 hazards of coal-fire power. It's incredible -- I have to
13 tell you about this. The Bullrun Steam Plant in Oak
14 Ridge, a big tall smoke stack, they give out free car
15 washes within ten miles. Those things aren't any good.
16 I think the people for WARN, I think there's some people
17 here from WARN, they are the ones responsible for that
18 coal plant that's going to go up in the foothills of the
19 Smokey's. They should have been arguing for a nuclear
20 plant.

21 Gives free car washes to get rid of the fly
22 ash from the local power plant. I hope that I moved to
23 Nebraska Avenue before any permanent damage was done to
24 our lungs. It's going to be hard to try to put those
25 coal mine guys out of business, but we had better start

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1 by trying right now. That's it.

2 MR. CAMERON: Thank you very much.

3 MR. FUNDERLIC: I hope I didn't go over my
4 time.

5 MR. CAMERON: No, you didn't You were fine.
6 You were informative and entertaining. Thank you,
7 professor. Sal Cammarata, that's a hard act to follow,
8 Sol.

9 MR. CAMMARATA: You took my first line away.
10 Good evening and thank you for allowing me to speak
11 tonight. My name is Sal Cammarata. I live in Cary with
12 my wife and two children who are six and eight years old.
13 When my wife and I moved to the Triangle back in '96 we
14 thought we had missed out on all of the opportunity that
15 came with the growth in this area in the '90s. As we all
16 know now, this area has continued to grow and has
17 continued to be envied by cities around the world.

18 Even though with this growth comes some
19 increase in traffic and congestion, this area continues
20 to be an outstanding community to live, work, and raise a
21 family. As I look at my neighbors and friends, I see
22 people who have prospered from the growth, and it is
23 important to all of us that this growth is sustained.
24 Many of us know from experience that the prosperity of a
25 community can change quickly and we don't want our

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1 children to be part of a slumping local economy.

2 When I go to the gas pump or read the morning
3 paper I say to myself, there's got to be a different way.
4 How can we sustain our growth while at the same time
5 reduce our dependence on oil and coal? I believe that
6 nuclear power is the most cost effective means, and one
7 that has proven to be also safe.

8 I would also like to give some insight on
9 working with Progress Energy. Although I would have no
10 reason to discuss nuclear power with them, my company
11 owns and manages commercial real estate, and I've had
12 many dealings with people at Progress Energy. The people
13 at this company are forward thinking professionals, with
14 integrity and a commitment to customer service and
15 safety. Recently, I was asked by my company to promote
16 energy savings and create an energy saving task force.
17 When I approached the utility companies for assistance,
18 Progress Energy was the first and only one to step
19 forward and offer assistance. Based on this community's
20 need for sustained growth with a movement away from coal
21 and oil, and my knowledge of Progress Energy as a Raleigh
22 based company, I would ask that the commission support
23 the application by Progress Energy. Thank you.

24 MR. CAMERON: Thank you, Sol. Barry Porter.

25 MR. PORTER: Does that mean I'm the last one?

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1 MR. CAMERON: Yeah.

2 MR. PORTER: Oh, great. I'm the guy standing
3 between everybody going home.

4 MR. CAMERON: You're not the last one. We
5 have some repeat speakers from this afternoon. So go
6 ahead.

7 MR. PORTER: Good afternoon. My name is
8 Barry Porter. I'm with the American Red Cross. I'm the
9 regional director for the Red Cross in this area. You
10 know the mind can absorb what the seat can endure. How
11 many of you are tired of sitting? So what I'd like to
12 do, part of my relationship with Progress Energy, when I
13 looked at, why would I come and talk. It's because we're
14 part of that social network in the community that
15 benefits from the fact that we all pay energy bills. You
16 know, I don't understand how many times things work in my
17 community. I really don't understand how they collect
18 the trash and what they do with it. I don't understand
19 how the energy comes on necessarily. I've toured power
20 plants before and turned on my light switch and the light
21 switch works, and my wife is happy when the air
22 conditioning comes on in the 100 degree heat. The same
23 way many of you probably never thought about how the
24 blood supply gets there, how safe it is, how reliable it
25 is, and how unlikely you are to contract AIDS from a

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1 blood transfusion, but how likely you are to die from a
2 ruptured spleen from an accident on Interstate 40. So
3 from that we all learn about who we are as a community
4 and what we can contribute.

5 So I would like to teach you a little bit
6 about change. We've had a lot of good professors speak
7 this evening, that kept us awake and if you had fallen
8 asleep, I would have slipped a needle in it and gotten a
9 pint of blood. So here's what I'd like you to do. This
10 is an audience participation moment. What I would like
11 you to do is take your hands and act as though you're in
12 church and fold them almost in prayer. What I would like
13 you to do is look at them, and those of you who did it
14 correctly, that means you put your left thumb on top,
15 would you please stand and take a load off your seat for
16 a moment. So if you did it correctly and have your left
17 thumb -- so look around the audience. Half of you
18 couldn't even get that simple assignment correct.

19 Now, those of you that are still standing and
20 those of you who are seated, I want you to participate in
21 a change exercise. I want you to take your hands apart
22 and put them together the opposite way and give me a
23 response to that exercise.

24 MR. _____ : It's wrong.

25 MR PORTER: It's wrong. How does it feel?

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1 Odd, but notice that half the people sitting in the room
2 did it exactly opposite you did it. Those of you who are
3 standing may have your seat back. Notice what I did when
4 I made my statement. First of all I put a value
5 statement on it, didn't I. I said if you did it my way,
6 you did it what? The right way. How did that make any
7 of you feel that did it the wrong way?

8 MR. ____: You were wrong.

9 MR. PORTER: I was wrong. He must be an
10 engineer. Is that true? See.

11 So from that change, then when we introduce
12 change into any environment it's difficult for us to
13 manage and to cope. Even with that simple, some of you
14 said it's weird, it feels wrong, it doesn't feel right.
15 I'm not expert at all in any of the subject matters that
16 have been talked about tonight. I am concerned about the
17 future of my community, the future of sustainable
18 resources. But I also know that I interact with on many
19 occasions the leadership of people at Progress Energy. I
20 know they too are concerned about sustainability, family,
21 environment, quality of life issues. None of us would
22 probably wanted a hundred years ago for them to build a
23 power line within a hundred yards of our house because of
24 the fear that thousands upon thousands of people would
25 die from electric shock. But when we introduce change

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1 into a world that's changing all too rapidly, it's
2 frightening and it's fearful.

3 But I'm glad that we have the support as an
4 organization like the Red Cross of the people and the
5 power behind the people at Progress Energy. They
6 contribute money, time and blood to my organization that
7 helps the quality of life in our community. I don't know
8 what the right solution is because I'm not smart enough
9 and qualified enough to ever make those decisions, but I
10 hope that we have people like those of you on the staff
11 of the NRC making effective decisions in a changing
12 world, the changing climate and the changing environment
13 that will help us sustain our quality of life, leave a
14 legacy that is not destroying the environment, and at the
15 same time adapting ourselves to change. I appreciate the
16 opportunity to speak on behalf, I appreciate the
17 financial support of not only the corporation but the
18 employees of Progress Energy who take time from their
19 daily schedule to stick their arm out and let me stick a
20 needle into it. Those of them who make contributions in
21 their internal campaigns for financial support that
22 support the social network of the community in which we
23 all enjoy living. Thank you for your time.

24 MR. CAMERON: Thanks, Barry. No one is going
25 to fall asleep while you're still in the room. We are

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1 going to go to Nina Cann-Woode at this point and then to
2 Bill Hummel.

3 MS. CANN-WOODE: I spoke in the first session,
4 I just want to follow up my comments with the same
5 statement I suppose. My name is Nina Cann-Woode and I
6 speak today on behalf of The Clean and Safe Energy
7 Coalition. We support the construction of new reactors
8 at Shearon Harris by Progress Energy and are actively
9 engaged in generating a public dialogue to educate others
10 about the ways nuclear power enhances American's energy
11 security and economic growth, and helps improve the
12 environment.

13 Our nation is addicted to electricity and
14 that addiction will only grow in the future. U.S.
15 Department of Energy estimates that our electricity
16 demand will increase 25 percent by 2030. As technology
17 advances, our economy expands, and our population
18 increases, our need for energy will grow. Consider that
19 today all renewable sources produce two percent of our
20 electricity, while nuclear power accounts for 20 percent,
21 that's one out of every five homes and businesses in the
22 United States. And here in North Carolina, nuclear power
23 provides over a third of the state's energy needs.

24 The reality is, we will require more from a
25 variety of sources in the years ahead. A wise energy

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1 policy recognizes the virtue of diversity and in that
2 diverse plan, nuclear energy is a critical component. As
3 we approach the hot summer months, it is important to
4 recognize that nuclear power plants have a proven record
5 for performance in severe weather conditions, including
6 drought. Given extreme temperatures, it will continue to
7 operate safely. In fact, nuclear plants here in the
8 southeast were critical to meeting electricity demand
9 during a two-week heat wave in August of last year, and
10 posted an average daily capacity factor of more than 98
11 percent.

12 Consider the facts, nuclear energy is clean.
13 It is the only large scale emissions resource of
14 electricity that we can readily expand to meet our
15 growing energy demand. We all have a shared stake in
16 American's energy future. Now is the time for our
17 country to support nuclear energy as a means to generate
18 electricity with a clean, safe, and dependable source of
19 power. Thanks.

20 MR. CAMERON: Thank you very much, Nina. And
21 Bill, do you want to talk to us? Okay. This is Bill
22 Hummel.

23 MR. HUMMEL: Thank you for indulging me. I
24 suppose I'm the last speaker, so I'll be brief. As he
25 said, my name is William Hummel. I'm also speaking on

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1 behalf of the Clean and Safe Energy Coalition. CAS
2 Energy is a grass-roots organization dedicated to
3 informing the public of the benefits of the nuclear
4 technology. Our coalition's comprised of over 1600
5 individuals, state legislators, federal employees, and
6 organizational members. It's lead by our two co-chairs,
7 the former governor of New Jersey and EPA administrator,
8 christy Todd Whitman, and the founder of Green Peace and
9 former leader, Dr. Patrick Moore.

10 Nuclear already provides 20 percent of the
11 United States electricity, and with electricity demands
12 expected to increase by 25 percent nationally by 2030,
13 the United States needs more nuclear energy if it wants
14 to keep up with our growing energy needs. Conservation
15 alone won't meet our growing needs. A diverse mix of
16 energy sources will serve us all best. However, as we
17 look down the road, we should promote an increase in the
18 use of nuclear energy as it is environmentally clean and
19 a reliable path to take in meeting our country's energy
20 needs.

21 Nuclear energy is clean. The environmental
22 impact of nuclear plants is far lower than many other
23 types of power generating plants.

24 Nuclear energy is safe. In fact, the United
25 States Bureau of Labor Statistics has shown that it is

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1 safer to work at a nuclear power plant than in the
2 manufacturing sector or even in the real estate or
3 financial industries.

4 Additionally, you would have to live by a
5 nuclear power plant for more than 2000 years to get the
6 same amount of radiation exposure that you would receive
7 from a single diagnostic medical X-ray. With rising
8 energy costs a concern for every American, nuclear energy
9 is an affordable and reliable economic choice for
10 electricity. Nuclear power has the lowest production
11 costs of all the major sources of electricity. Nuclear
12 plants are the most efficient on the electrical grid, and
13 their costs are more predictable than many other energy
14 sources.

15 But most importantly, a nuclear plant makes a
16 good neighbor. It supports high paying jobs directly at
17 the plant, generates additional jobs in the community
18 where it is located, and contributes by helping to build
19 good schools, good roads, and civic improvements. It is
20 with this that the CAS Energy Coalition wholly supports
21 Progress Energy in their application for additional
22 reactors, and I thank you for your time. Have a
23 wonderful evening.

24 MR. CAMERON: I think it's that time to turn
25 it over to our senior manager, Andy Campbell to close out

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1 for us. Did we catch everybody? I think that we did.

2 MR. CAMPBELL: So everybody has had an
3 opportunity to speak. It's 8:00. We will close out a
4 little bit earlier than we would have. But I do
5 appreciate people -- some people came back and people who
6 were able to make it out tonight. I do want to thank the
7 town and the city government, Holly Springs, for
8 providing this wonderful venue for this meeting, and
9 providing us the opportunity to be here tonight and to
10 get your comments.

11 Our purpose here as we've said repeatedly
12 through tonight's meeting, is to get information from
13 you, to get input from you. And as we've pointed out,
14 you can still provide comments if you didn't want to
15 speak tonight. If you know other people who want to
16 provide comments, they can e-mail to us. They can send
17 them by regular mail until July 25th.

18 Also there are sources of information on the
19 NRC's website. If you go to the NRC's public website and
20 look up new reactors, you can get all of the information
21 on the Harris combined operating license, the
22 application, and get information on the AP1000 design
23 certification REV 16. All of that information is
24 available. You can get information on how to participate
25 in the hearing process. So again, I want to thank

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1 everybody. In particular I want to get the names right,
2 but I do want to thank Cassie and Emily for helping us set
3 this all up. We really appreciate your help. And Barry
4 Jaked who helped us with the audio/visual and the great
5 sound in this facility. Again, this is a great
6 opportunity for us. We will be back in a year to talk
7 about the Draft Environmental Impact Statement and get
8 your input on that. In the meantime, have a great
9 evening and thank you very much.

10 (The meeting was concluded at 8:04 p.m.)
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June 10, 2008

"Wake County Economic Development supports Progress Energy's Combined License (COL) for two new reactors for the Shearon Harris site. Wake County Economic Development is the lead economic development group in Wake County and is responsible for the recruitment of new business and the retention of existing companies. Having safe, reliable, and reasonably priced electricity is a critical component to our continued job creation and for us to maintain the high quality of life that we enjoy in this region."

Some of the reasons WCED support Progress Energy's Combined License (COL) application are:

- Progress Energy has operated nuclear power plants safely and efficiently since 1971. The company's plants are consistently among the top performing plants in the world.
- Electricity is vital part of our state's infrastructure, as are roads, schools and water. This area's impressive infrastructure serves as a magnet for businesses and economic development.
- Progress Energy has not built additional baseload generating plants since the Harris Plant came on line in 1987.
- Progress Energy's strategy to meet the demands of growth responsibly is a combination of enhanced energy efficiency, investments in renewable and alternative energy technologies, and state-of-the-art power plants.
- The planned increase in reservoir capacity accounts for potential drought conditions in the future. By raising the lake level, there is increased storage capacity and the ability to limit river withdrawals during times of drought.
- The Harris Plant has been in operation for more than 20 years, providing a safe, efficient and economical source of electricity.
- Currently the Harris Plant employs approximately 450 people, and an additional 200 contractors. Approximately 640 additional people would be needed to operate two new reactors at the site.
- Currently the Harris Plant contributes \$126 million in personal and property income and \$30 million in tax revenue to the surrounding area.
- As population and demand for power grows, Progress Energy has an obligation to meet the needs of its service area.
- Progress Energy has an obligation to meet the growing needs of its service area by providing reliable and affordable electricity for many years to come.

James Sauls
Project Manager
Wake County Economic Development

STATEMENT TO THE NUCLEAR REGULATORY COMMISSION
ON
THE PROGRESS ENERGY SHEARON HARRIS COL APPLICATION
JUNE 10, 2008
HOLLY SPRINGS, NORTH CAROLINA

Thank you for the opportunity to share some thoughts about the combined license application by Progress Energy to add two reactors to the Shearon Harris site.

My name is Jim Fain and I currently serve as Secretary of Commerce for the State of North Carolina. The mission of our department is to “enhance the economic well-being and quality of life for all North Carolinians.” There are many measures of success in accomplishing this mission, but two key and easy to understand metrics are quality job growth and increases in ad valorem tax paying investment. North Carolina’s strategy to add well-paying jobs and opportunities for citizens is based on consistent investment in education and workforce development – augmented by investments in infrastructure, innovation and quality of life assets.

Our companion strategy to investing in the skill and know how of our workforce – building a knowledge-based economy – is investment in quality of life and place. Knowledge workers expect and gravitate to places where they can find good schools, parks and recreation opportunities, good health care and a sound environment. For example, they typically want to live where investments and policies reduce carbon and other emissions and the attendant impacts on air quality and climate.

Obviously, inducing good new jobs and investment depends on many variables – certainly including the availability of reliable and affordable

electric power. Further, in my opinion, an appropriate proportion of nuclear generation in our electric power mix is important to meet the growing needs of employers and the expectations that we citizens have for air quality. And in a growing jurisdiction, economic opportunity depends on adequate base load capacity – and that’s particularly important in this region and in our state which have been growing rapidly.

Since July, 2003 the bottom of the recession-driven employment decline in North Carolina, our state has added 416,000 jobs through the first quarter of this year. That’s an average of 89,000 jobs per year during that time frame. In 2007, as measured by the payroll survey, our state added more jobs than all other states except Florida, Texas and California. Generally, those new jobs have been in sustainable, well-paying industry sectors and include commercial and industrial users of power. During this decade, North Carolina’s population has grown by about a million residents – or 12.6% - and in 2006, this state became the tenth largest, surpassing New Jersey in population. An interesting aspect of our growth has been in migration – about 70% of our population growth has been fueled by the relocation of people from other states and other countries – we believe drawn by opportunity and livability. This infusion of talent and diversity has strengthened our economy and helped fuel healthy growth in employment and investment.

Clearly, the availability of reliable and affordable power has supported our growth, as no doubt, have initiatives such as our clean smokestacks legislation which has encouraged investment in scrubbing equipment.

Now, occasionally I hear arguments that we should limit growth in our state. In my work I have seen the challenges experienced by areas of the state that have little growth – or have declined. And that experience underscores for me the importance of healthy growth.

Growth enables our communities to develop scale benefits which enhance the quality of our citizen's lives. Growth means better airports, more cultural amenities, and more shopping and recreation choices, just to mention a few of the possibilities in a jurisdiction that encourages and manages healthy, orderly growth.

In conclusion, then, I believe it's strategically important that we add to base load capacity in the state in a timely fashion to sustain orderly, healthy growth. Certainly nuclear power must be an important part of the base load mix. In my opinion, it's an excellent vehicle for accomplishing efficient generation of power and reducing our carbon footprint. Coupled with conservation and a realistic mix of renewable and other forms of generation, nuclear helps us support growth, reduce carbon and other emissions and achieve our national objective of energy self-sufficiency. I believe more nuclear capacity is good public policy and I support this combined license.

James T. Fain
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**Comments for NRC Environmental Scoping Meeting
Progress Energy Combined Operating License HAR-2, HAR-3
Environmental Report, Holly Springs Cultural Center, June 10, 2008**

My name is Liz Cullington and I live in Pittsboro, about 14 miles from the Harris site.

I didn't learn about this meeting until May 29th, so needless to say I have not had time to download and read all 1,636 pages of Progress Energy's Environmental Report, let alone the rest of the license application.

However, there has been no local publicity about this meeting, and people would need one or two months to digest this amount of information, so you can expect only general comments and most of them from those people recruited by Progress Energy to speak in favor of more nuclear power.

In the past I made detailed comments during the design approval of the Westinghouse AP1000 reactor that Progress Energy is proposing to use at the Harris site, comments on math and logic errors that were totally ignored in the final rule. I also made detailed comments on the Harris unit 1 license renewal application and that seems to have been a waste of time also.

Many climate scientists tell us that we only have a few years, possibly as little as 18 months, to take global action on climate change and its primary causes, including rainforest destruction and man-made carbon dioxide emissions, and to slow down all the feedback mechanisms, such as melting permafrost causing methane emissions, melting arctic and antarctic ice, and shrinking glaciers. All of these too have already begun.

Progress Energy claims that nuclear power involves "no emissions" and is "carbon-neutral" or "carbon free" but they go further to argue, not only to the public, but to scientists at a federal agency like the NRC, that a nuclear power plant would actually "lower carbon emissions." None of that is actually true.

Nuclear power is not magic, and it cannot remove carbon dioxide from the air, and it especially is not going to do that when it is operated in

addition to coal plants to meet what Progress Energy says is going to be ever increasing demand. This is important for the public to understand. Progress Energy's plans do not show them shutting down coal plants, instead they plan for more and more electricity powered by coal and nuclear. They have proposed only a 2-year moratorium on additional coal plants, presumably just long enough for them to get approval for these two new nuclear power reactors, then they will apparently be adding yet more coal plants.

Coal fired power plants are the single most avoidable and concentrated cause of human greenhouse gas emissions. The carbon dioxide emissions from coal plants are so great that they can wipe all the reductions that individuals and businesses are planning to make.

Even if nuclear were to replace coal, which in this case it won't, that nuclear plant would need to be online immediately. Instead it is going to be a minimum of 10 years, maybe more.

Even if two new reactors in Wake County were actually part of a "solution" to global warming, then we would still have to also consider the safety issues, the problem of the long-lived waste, the global shortage of uranium, the problem of water supply for two new reactors, and the effect of putting an additional \$5 to \$20 billion debt onto North Carolina and South Carolina ratepayers who are losing their jobs in batches of several hundred to a thousand at a time, and seemingly every week.

But nuclear reactors don't operate in isolation and just because they don't emit carbon dioxide out of the cooling tower does not make them a carbon-free source of power. The uranium fuel has to be mined, then the ore transported half way round the world, with the US importing about 85% of it's uranium, a greater percentage than our imports of oil.

Then the uranium ore has to be chemically processed, enriched and manufactured into fuel, a process that not only uses lots of energy but also releases other process chemicals into the air that contribute to global warming. The nuclear plant itself has to be manufactured, the waste has to be cooled, processed, shipped, isolated. The entire business would only start becoming carbon neutral about 20 years in 2038 at the very earliest. Many other countries are also planning new nuclear plants. There is not enough viable uranium, meaning that these new US nuclear plants might probably never be carbon neutral at all, and are going to be very very expensive to operate.

Water supply for these particular two new reactors at Harris is a vital issue. Many people think that since four reactors were once planned there, there is bound to be enough lake capacity for the plant. However, during drought conditions, the current reactor has to have water pumped from the lower level, larger lake to the smaller, higher level reservoir.

Progress Energy plans to raise the level of the larger lake by 20 feet or more. But even so they feel it would be necessary to add a long pipeline to pipe water to that lake from the Cape Fear River. This is because Harris Lake, while already large in appearance, is only fed by small creeks, not several large rivers like Jordan Lake.

Contrary to what you'd expect the new reactors are not to be sited next to this larger lake, but north of the smaller reservoir, so that the water supply and the "heat sink" required to prevent a meltdown, would be the same smaller reservoir for three reactors, that currently is not always enough for one reactor.

I would would also like to address the section that Progress Energy has devoted in its environmental report to why it needs more power plants. Which is Chapter 8.

Progress Energy is arguing, based on NRC regulations, that if our local North Carolina Utilities Commission (NCUC) has indicated that Progress Energy MAY need additional baseload power in future, then Progress Energy DOES need additional baseload power, and nuclear is preferable.

However, the data provided to the NCUC and NRC, is all peaking demand data, not baseload data. Baseload demand is the 24 hour always-on demand for power.

The last of North Carolina's industries are shutting up shop, and indeed the planning data filed by our utilities show a dramatic drop in industrial demand. Recently, the credit crunch has pushed many national retail chains into filing for bankruptcy protection. So baseload demand is more likely to drop in our region rather than increase.

With fewer jobs we may still see more retirees moving to North Carolina, but only to the limits of our water supply which is already stretched to the limit in drought years, and residential customers tend to only increase intermittent peaking demand.

Nuclear plants must operate around the clock except when shut down for

refueling, it is very dangerous to keep starting them and shutting them down to meet intermittent demand. They do however shut down unexpectedly, which makes them less than a 100% reliable source of power. So a large centralized nuclear plant requires more backup plants than would more smaller more varied renewable sources.

If Progress Energy actually wanted to do something about the climate then they would need to shut down their coal plants, and put the money that they plan to put into two new reactors, into reducing energy demand and increasing our energy efficiency.

The best, cheapest and fastest way to lower carbon emissions from the electricity sector is to reduce wasted electricity, upgrade existing buildings and appliances, and to educate the public about the importance and urgency of slowing down runaway climate change.

Clearly Progress Energy has stopped arguing that wind and solar don't work, instead they have dredged up some dotty claims such as the one that a concentrating solar plant or wind farm is uglier than new reactors, and that the land they are sited on is ruined forever. They claim that these sources have the same "small" environmental impact as nuclear reactors even though wind and solar don't require fuel, don't involve constant mining and waste disposal, don't require and then pollute a water supply and can't meltdown and permanently contaminate up to half the east coast.

Progress Energy has its highest peak demand in summer, and that occurs in the late afternoons of the hottest sunniest days, when air conditioners, fridges, fans and grocery store coolers and freezers are all running full tilt. Yet this is exactly when the most solar power could be generated.

Even though centralized solar concentrating plants using parabolic troughs have been safely operating in the US for fourteen years, Progress Energy claims that this technology is still at the demonstration stage. By that standard so is the uniquely designed Shearon Harris Plant. But more importantly, the new Westinghouse AP1000 reactor has no full scale operating prototype, in fact the design is still going through revisions that one NRC Commissioner called "substantial" in a public speech.

Given the impossibility of evacuating the Apex, Cary and Raleigh downwind areas in a timely manner, where the population has increased exponentially since the 1960s when the site was first proposed, we would

prefer not to be among the first guinea pigs for this still experimental new reactor design.

It is important for the public to understand that when a group of power companies approached Westinghouse for a new reactor design back around 1990, they wanted a plant that would be cheaper and faster to build, and easier to operate. This wasn't because of concern over global warming. Increased safety in the design would also mean fewer unexpected shutdowns. But between the first prototype and now there have been many safety compromises because nuclear utilities like Duke and Progress were stuck on the idea of a 1000 megawatt reactor, not a 600 megawatt reactor, and perhaps one reason was so that they could utilize existing sites and tell the locals "we already have approval for four reactors at that site."

The fact that they don't is proved by the fact that we are here today. They don't already have approval, either from the NRC or the state NCUC, and they have not proved they need over 2000 more megawatts of power plant, nor that new nuclear reactors are the least environmentally harmful, or least cost, option.