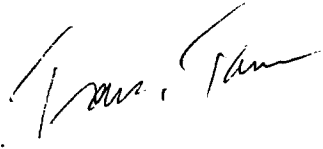




UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

February 25, 2013

MEMORANDUM TO: David J. Wrona, Chief  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation

FROM: Tam Tran, Project Manager  
Projects Branch 2  
Division of License Renewal  
Office of Nuclear Reactor Regulation 

SUBJECT: SUMMARY OF PUBLIC MEETINGS CONDUCTED TO DISCUSS  
THE DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT  
STATEMENT RELATED TO THE REVIEW OF THE SOUTH  
TEXAS PROJECT, UNITS 1 AND 2, LICENSE RENEWAL  
APPLICATION (TAC NOS. ME5122, ME5123, ME4938, AND  
ME4939)

On January 15, 2013, members of the U.S. Nuclear Regulatory Commission (NRC) staff held public meetings in Bay City, Texas, concerning the staff's environmental review of the application submitted by STP Nuclear Operating Company (STPNOC) for renewal of the South Texas Project (STP), Units 1 and 2, operating licenses. The purpose of the meeting was to provide the public with an opportunity to comment on the draft supplemental environmental impact statement (DSEIS) which was issued in December 2012. The public meetings were held at the Bay City Civic Center, 201 Seventh Street, Bay City, TX 77414. Presentations were made by the Division of License Renewal staff, with participation from Region IV staff.

The DSEIS is a plant-specific supplement for STP license renewal to the Generic Environmental Impact Statement for License Renewal of Nuclear Plants (NUREG-1437). The NRC staff described the overall license renewal process, provided a description of the National Environmental Policy Act review process, and discussed the environmental requirements outlined in Title 10 of the Code of *Federal Regulations* Part 51 (10 CFR Part 51). The NRC staff also described the preliminary results of its analyses. The environmental impacts of continued operation were predicted to be small to moderate significance in all areas. The impacts of alternatives (including the no-action alternative) were predicted to have impacts in at least some environmental aspects that could reach moderate or large significance.

After the presentations were given by the NRC staff, members of the public were invited to provide comments. Approximately 30 people attended the two sessions. Attendees included members of the public, representatives of the NRC, STPNOC, and the news media.

CONTACT: Tam Tran  
301-415-3617

In an effort to improve communication and increase interaction with members of the public, the NRC staff conducted open houses for one hour before each meeting and encouraged the public to submit meeting feedback forms. The staff provided brochures and met with members of the public to answer questions about the proposed renewal of the STP operating licenses.

A combined listing of attendees for both sessions is provided in Enclosure 1. Enclosure 2 is a copy of the meeting agenda. Enclosures 3 and 4 contain the official corrected transcripts for the afternoon and evening meetings, respectively. Enclosure 5 contains a copy of the slides used during the NRC's presentation.

Docket Nos. 50-498 and 50-499

Enclosures:

As stated

cc w/encls: See next page

**LIST OF ATTENDEES  
SOUTH TEXAS PROJECT  
DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT  
PUBLIC MEETINGS**

**JANUARY 15, 2013**

<u>Participants</u>	<u>Affiliation</u>
David Wrona	U.S. Nuclear Regulatory Commission (NRC)
Tam Tran	NRC
Emily Larson	NRC
Binesh Tharakan	NRC
Lara Uselding	NRC
Susan Salter	NRC
Bob Hagar	NRC
Marub Johnston	Palacios Chamber of Commerce
Owen Bludau	Matagorda County Economic Development Corporation (MCEDC)
Heather Mencies	MCEDC
DC Dunham	Bay City Economic Development Corporation
Carolyn Thames	Bay City Resident
Eugene Davis	Crisis Center
Terry Farrar	Farrar Financial Group
Susan Dancer	South Texas Association for Responsible Energy (STARE)
Lisa Keonitzer	STARE
Karen Hadden	Sustainable Energy and Economic Development
Catherine Gann	STP Nuclear Operating Company (STPNOC)
Charles Bowman	STPNOC
Ken Taplett	STPNOC
Buddy Eller	STPNOC
Kevin Pollo	CPS Energy
Jonnie Montalbo	Bay City Tribune

ENCLOSURE 1

**AGENDA FOR PUBLIC MEETINGS TO DISCUSS THE  
DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT FOR THE  
LICENSE RENEWAL OF SOUTH TEXAS PROJECT**

**Tuesday, January 15, 2013**

Two Meeting Sessions - 2:00 p.m. to 5:00 p.m. and 7:00 p.m. to 10:00 p.m.

- I. Welcome and Purpose of Meeting      10 minutes (Susan Salter)
- II. Overview of License Renewal Process      10 minutes (Tam Tran)
- III. Results of the Environmental Review      30 minutes (Tam Tran)
- IV. How Comments can be Submitted      5 minutes (Tam Tran)
- V. Public Comments      2 hours
- VI. Closing/Availability of Transcripts, etc.      5 minutes (Susan Salter/Dave Wrona)

ENCLOSURE 2

**Welcome to the NRC's Open House  
Associated with the Environmental Review for the Proposed  
License Renewal of South Texas Project, Units 1 and 2**

This open house is intended to provide an opportunity for interested members of the public and staff from other Federal, State, and local agencies to interact with the NRC staff in an informal information exchange.

The NRC is gathering information necessary to prepare an Supplemental Environmental Impact Statement (SEIS) to the Generic Environmental Impact Statement (GEIS) for License Renewal of Nuclear Plants, regarding the proposed renewal of the operating licenses for South Texas Project, Units 1 and 2. Please note that if you wish to provide formal comments regarding the draft Supplemental Environmental Impact Statement (DSEIS) to the GEIS, they must be presented at today's transcribed public meeting, or provided in writing or by electronic mean at [www.regulations.gov](http://www.regulations.gov), docket ID: nrc-2010-0375, by February 22, 2013. Comments received after this date will be considered if it is practicable to do so, but the NRC staff is able to assure consideration only for comments received on or before this date. Written comments on the DSEIS should be sent to:

Chief, Rules, Announcements, and Directives Branch (RADB)  
Division of Administrative Services  
Office of Administration  
Mailstop TWB-05-B01M, Faxes: 301-492-3446.  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001

Comments may be hand-delivered to the NRC at 11545 Rockville Pike, Rockville, Maryland, between 7:45 a.m. and 4:15 p.m. on Federal workdays. Submittal of electronic comments may be registered at [www.regulations.gov](http://www.regulations.gov), docket ID: nrc-2010-0375.

Thank you for your participation.

# **Official Transcript of Proceedings**

## **NUCLEAR REGULATORY COMMISSION**

Title: South Texas Project License Renewal  
Public Meeting: Afternoon Session

Docket Number: (n/a)

Location: Bay City, Texas

Date: Tuesday, January 15, 2013

Work Order No.: NRC-3030

Pages 1-34

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1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION

3 + + + + +

4 PRELIMINARY SITE-SPECIFIC RESULTS  
5 OF THE ENVIRONMENTAL REVIEW FOR  
6 SOUTH TEXAS PROJECT LICENSE RENEWAL

7 + + + + +

8 PUBLIC MEETING  
9 AFTERNOON SESSION

10 + + + + +

11 Tuesday, January 15, 2013

12 201 7th Street

13 Bay City, Texas

14 2:00 p.m.

15  
16 ON BEHALF OF THE NRC:

17 SUSAN SALTER, Facilitator

18  
19 OTHER NRC STAFF:

20 TAM TRAN

21 BINESH THARAKAN

22 DAVE WRONA

23 EMILY LARSON

24 LARA [USELDING]

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## 1 CONTENTS

2	<u>SPEAKER/TOPIC</u>	<u>PAGE</u>
3	NRC Introduction.....	3
4	NRC Staff Presentation.....	5
5	Public Comments.....	20
6	NRC Closing Remarks.....	32
7	Adjourn	

18  
19  
20  
21  
22  
23  
24  
25  

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P R O C E E D I N G S

MS. SALTER: Welcome to the NRC's public meeting. My name is Susan Salter, and I'm going to be your facilitator for the meeting this afternoon. Bob Hagar is going to be helping me facilitate, and our role as facilitators is really just to help the meeting run smoothly, keep us on time, make sure that everyone who's come out to make a comment has an opportunity to do so.

A couple of housekeeping items: We are having the meeting transcribed. Leslie Berridge is our recorder, and to help Leslie get an accurate recording, we ask you to help us with a couple of things.

One is to keep background noise or sidebar conversations to a minimum. In addition, if you have electronic devices, please put them on silent mode. If you need to take a call, we certainly understand that and just ask that you step outside of the meeting room to do that.

Restrooms: If you go out this door to the left, the first left is the women's room; straight is the exit; and right next to the exit is the men's room. You can also go to the right and there are some other restrooms and exits out there, but I think the closest one is to your left as you exit out of this room.

So let me get started by just restating the

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1 purpose of tonight's meeting, which is to present the  
2 findings and collect public comment on the Draft  
3 Environmental Impact Statement for the proposed renewal  
4 of the South Texas Project nuclear power plant's  
5 operating licenses for an additional 20 years.

6 Now, during this meeting you may hear  
7 individuals refer to the Environmental Impact Statement  
8 as the EIS or the DEIS, for Draft Environmental Impact  
9 Statement, and I know NRC staff tries to keep those  
10 abbreviations to a minimum, but those ones I'm sure will  
11 probably creep up.

12 The agenda for the meeting this afternoon,  
13 as well as the meeting tonight, which will begin at 7:00,  
14 is to have a presentation by NRC staff, and following that  
15 we'll have a very brief, maybe ten-minute, Q&A session.

16 And the reason for that is during the public  
17 comment period, which will follow the Q&A, the NRC staff  
18 is really in a listening mode so they don't engage in a  
19 dialog with the public; they really just listen to the  
20 public's comments. That's why they're here.

21 But to provide any clarifications on what  
22 you may hear during the presentation or to answer any  
23 questions on the NRC process, they want to give the public  
24 about 10 or 15 minutes or so to ask those questions and  
25 to get those clarifications.

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1           So I'll go over the process that we'll use  
2     for the public comment period when we get to that point,  
3     but just as a reminder, as I said, if you want to make  
4     a comment, you do need to fill out a yellow card. Those  
5     are helpful for Leslie to make sure we have accurate  
6     spelling of your names.

7           So please, if you change your mind during  
8     the meeting, if you haven't signed up yet, you can always  
9     sign up during the meeting. Bob has cards as well. You  
10    can raise your hand or get his attention and get a card  
11    from him, fill it out, give it back to him.

12          So with that, I think I've covered all the  
13    housekeeping items. I think I'm going to turn it over  
14    to Tam Tran.

15          Tam is the project manager in the Division  
16    of License Renewal in the NRC's office of Nuclear Reactor  
17    Regulation, and he is going to provide the NRC  
18    presentation for this afternoon.

19          MR. TRAN: Thank you, Susan. Thank you all  
20    for taking the time to come to this meeting. My name is  
21    Tam Tran; I'm the project manager for the environmental  
22    review of the South Texas Project license renewal.

23          I hope the information we provide with this  
24    presentation will help you to understand the process  
25    we're going through, what we have done so far, and the

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1 role that you can play in helping us and make sure that  
2 the Final Environmental Impact Statement is accurate.

3 With that, I would like to acknowledge a few  
4 NRC staff here today. First of all, I would like to  
5 acknowledge our South Texas Project resident inspector,  
6 Binesh Tharakan. Next I would like to acknowledge our  
7 branch chief for the Environmental Project Branch for  
8 License Renewal, Dave Wrona.

9 Next Emily Larson's our social scientist  
10 who contributes significant review to our draft  
11 supplemental Environmental Impact Statement. Also we  
12 have today Lara [Uselding], who is from Region 4,  
13 representing our regional office.

14 Next I would like to start off by briefly  
15 going over the agenda for today's presentation. I will  
16 explain the NRC license renewal process for nuclear power  
17 plants, with emphasis on the environmental review  
18 process, when we are going to present the preliminary  
19 finding of our environmental review, which assesses the  
20 impacts associated with extending the operating license  
21 of the South Texas Project for an additional 20 years.

22 Then we'll give you some information about  
23 the schedule for the balance of our review and how you  
24 can submit comments in the future, and then finally  
25 really the most important part of today's meeting is

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1 where we receive any comment that you may have for this  
2 review.

3 Before I get into the discussion of license  
4 renewal process, I would like to take a minute to talk  
5 about the NRC in terms of what we do and what our mission  
6 is.

7 The Atomic Energy Act authorizes the NRC to  
8 regulate the civilian use of nuclear materials in the  
9 United States, including the use of nuclear materials for  
10 power production.

11 In exercising that authority, the NRC's  
12 mission is threefold: To ensure adequate protection of  
13 public health and safety, to promote the common defense  
14 and security, and to protect the environment.

15 The NRC accomplishes its mission through a  
16 combination of regulatory programs and processes, such  
17 a reviewing license applications, conducting  
18 inspections, issue enforcement actions, assessing  
19 licensee performance, and evaluating operating  
20 experience from nuclear plants across the country and  
21 internationally.

22 The Atomic Energy Act is the legislation  
23 that authorizes the NRC to issue licenses. The Atomic  
24 Energy Act provides for a 40-year license term for power  
25 reactors. This 40-year terms is based primarily on

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1 economic considerations and antitrust factors, not on  
2 safety limitations of the plant.

3 NRC conducts license reviews for plants  
4 whose owners wish to operate them beyond their initial  
5 license period.

6 This slide gives an overview of the South  
7 Texas Project license renewal process. The review  
8 process involves two parallel paths: the safety review  
9 and environmental review. For the purpose of today's  
10 meeting, we will discuss the environmental review.

11 The staff environmental review consists of  
12 the Generic Environmental Impact Statement and the  
13 Supplemental Environmental Impact Statement. The  
14 Generic EIS examines the possible environmental impacts  
15 that could occur as a result of renewing licenses of  
16 nuclear power plants under 10 CFR Part 54.

17 The Generic EIS, to the extent possible,  
18 established the bounds and significance of these  
19 potential impacts. The analyses in the Generic EIS  
20 encompasses all operating light-water power reactors.  
21 These analyses attempt to establish a generic finding  
22 covering as many plants as possible.

23 For some environmental issues the Generic  
24 EIS found that the generic evaluation was not sufficient  
25 and that a plant-specific analysis was required.

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1 To supplement the Generic EIS, the staff  
2 conducted site-specific reviews of the South Texas  
3 Project. The site-specific findings for South Texas  
4 Project are contained in the Draft Supplemental  
5 Environmental Impact Statement. This document contains  
6 analyses of all appropriate site-specific issues as well  
7 as a review of issues covered by the Generic EIS. This  
8 is to determine whether the conclusions in the Generic  
9 EIS are valid for South Texas Project.

10 In this process NRC staff also reviewed the  
11 environmental impacts of potential power generation  
12 alternatives to license renewal to determine whether or  
13 not the impacts expected from the license renewal are  
14 unreasonable.

15 Together the Generic EIS and the  
16 Supplemental EIS form the staff's analysis of the impact  
17 of the license renewal for South Texas Project.

18 This slide shows the approach that the staff  
19 used for environmental analysis. The NRC evaluates  
20 impacts of all plants across the entire country to  
21 determine if there were impacts that were common to all  
22 operating plants.

23 NRC looked at 92 separate impact areas and  
24 found 69 issues. The impacts were the same for plants  
25 with similar features. NRC called these Category 1

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1 issues and made the same, or generic, determinations  
2 about the impacts in the Generic Environmental Impact  
3 Statement for license renewal.

4 NRC was not able to make generic conclusions  
5 about the remaining 23 issues. Twenty-one of these  
6 issues, which the NRC called Category 2 issues, the NRC  
7 decided to prepare site-specific supplements to the  
8 Generic EIS that address these 21 issues.

9 For example, electromagnetic field acute  
10 effects are electric shock associated with the  
11 electrical lines at South Texas Project, is a Category  
12 2 issue.

13 In addition, two issues are referred to as  
14 not categorized, and therefore a site-specific analysis  
15 is also needed.

16 The Supplemental Environmental Impact  
17 Statement for South Texas Project license renewal is  
18 being discussed today. The NRC did not rule out the  
19 possibility that the generic conclusions in the Generic  
20 EIS may not apply to any specific plant in all cases.

21 If new and significant information is found  
22 that would change the generic conclusions in the Generic  
23 EIS, then the staff would perform a site-specific  
24 analysis on that issue.

25 This slide shows important milestones for

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1 the environmental review process. The highlighted  
2 dates indicate opportunities for public involvement in  
3 the environmental review.

4 As each plant comes in for license renewal,  
5 we publish a plant-specific supplement to the Generic  
6 EIS. The Draft Supplemental Environmental Impact  
7 Statement for South Texas Project was published on  
8 December 5, 2012, and also known as Supplement 48 of the  
9 Generic EIS. And we are currently accepting public  
10 comments on this document until February 22, 2013.

11 Today's meeting is being transcribed, and  
12 comment provided here will be considered the same way as  
13 written comment submitted to NRC. Once the comment  
14 period closes, we will develop the final Supplemental  
15 EIS, which we expect to publish in 2013, approximately  
16 seven months from the draft.

17 Now I'm going to discuss in more detail  
18 about the preliminary result of the review. For each  
19 environmental issue identified, an impact level is  
20 assigned.

21 For a small impact, the effect is not  
22 detectable or too small to destabilize or noticeably  
23 alter any important attribute of the environmental  
24 resource being reviewed.

25 For a moderate impact, the effect is

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1 sufficient to alter noticeably but not destabilize  
2 important attributes of the resource.

3 And finally, for impact to be considered  
4 large, the effect must be clearly noticeable and  
5 sufficient to destabilize important attributes of the  
6 resource.

7 For example, the operation of South Texas  
8 Project may cause the loss of adult and juvenile fish at  
9 the intake structure. If the loss of fish is so small  
10 that it does not appear to have noticeably altered  
11 population of those species found in the lower Colorado  
12 River, the impact will be small.

13 If losses cause some population to increase  
14 or decrease and then stabilize at a different level, the  
15 impact would be moderate.

16 If losses at the intake structure cause the  
17 fish population to decline to the point where it cannot  
18 be stabilized and continue to decline, then the impact  
19 would be large.

20 For South Texas Project, the impact to the  
21 fishery are small.

22 In conducting the review, an environmental  
23 review team from NRC and Pacific Northwest Laboratory  
24 analyzed [the] various impacts to the environment. This  
25 review involves a wide range of expertise illustrated on

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1 this slide. The team examined environmental justice,  
2 ecology, land use, regulatory compliance, climate  
3 change, et cetera, for the supplement.

4 This slide lists the site-specific issues  
5 that the NRC staff reviewed for the continuing operation  
6 of South Texas Project during the proposed license  
7 renewal period. Each issue is assigned a level of  
8 environmental impact of small, moderate, or large by the  
9 environmental reviewers.

10 In addition, there are two uncategorized  
11 issues. Those are environmental justice and  
12 electromagnetic field chronic effect. For  
13 electromagnetic field chronic effects, the staff  
14 considers the Generic EIS finding of uncertain impacts  
15 is still appropriate. No further review was performed  
16 on the chronic effects from exposure to electromagnetic  
17 fields, because currently there's no scientific  
18 consensus on this issue.

19 The staff's preliminary conclusion is that  
20 the site-specific impacts related to license renewal for  
21 South Texas Project are small, except for the impact of  
22 electromagnetic field acute effects, or current-induced  
23 electric shocks that are small to moderate.

24 For license renewal, South Texas Project  
25 reported that their transmission lines from South Texas

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1 Project to the electric grid, which exceed the national  
2 electrical safety code, South Texas Project Nuclear  
3 Operating Company also listed potential mitigation  
4 options to reduce or avoid impacts.

5 These options are reexamining the induced  
6 current calculations for some transmission lines;  
7 raising the transmission towers at potentially affected  
8 road-transmission line intersections; modifying the  
9 double-circuit lines to reduce the current-induced shock  
10 potential, or placing caution signs under the  
11 transmission lines.

12 The staff review concludes that impact of  
13 electromagnetic field acute effects would be small to  
14 moderate.

15 The staff also reviewed cumulative impact  
16 associated with the continued operation of South Texas  
17 Project. For cumulative impacts, the NRC staff looked  
18 at the effects on the environment from past, present, and  
19 reasonably foreseeable future human actions.

20 The impacts include both from the South  
21 Texas Project operations and from other activities near  
22 South Texas Project, such as the development of the  
23 proposed White Stallion Energy Center, the Texas Prairie  
24 Wetland Project, climate change, et cetera.

25 Past actions are those related to the

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1 environmental resources at the time of the power plant  
2 licensing and construction. Present actions are those  
3 related to the resources at the time of current  
4 operations of the power plant. And future actions are  
5 considered to be those that are reasonably foreseeable  
6 through the end of the plant's operations, including the  
7 period of extended operations.

8 In other words, the cumulative impact  
9 analysis considers potential impacts through the end of  
10 the current license term as well as the 20-year renewal  
11 license term.

12 While the level of impacts due to the direct  
13 and indirect effect associated with the continued  
14 operation of South Texas Project are mostly small, the  
15 staff preliminarily concluded that cumulative impacts  
16 are small to moderate.

17 For the term beyond the 20-year period of  
18 extended operations, the NRC addresses the management of  
19 spent nuclear fuel in the waste confidence decision and  
20 rule.

21 Previous license renewal Supplemental EIS  
22 noted that the environmental impacts of temporary  
23 storage of nuclear fuel for the period following the  
24 reactor operating license term were addressed by this  
25 rule.

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1           The Draft Supplemental EIS does not discuss  
2           the potential environmental impacts of the storing spent  
3           nuclear fuel for an extended period after the plant  
4           ceases operations. That address will be addressed in  
5           the NRC Waste Confidence Environmental Impact Statement  
6           and Rule. That document is expected to be issued by  
7           September 2014.

8           In August of 2012 the Commission decided  
9           that the agency will not issue final licensing decisions  
10          for reactors, including license renewal until the waste  
11          confidence rule is completed. If at that time  
12          site-specific issues related to the spent fuel storage  
13          at South Texas Project remain unresolved, they will be  
14          addressed separately.

15          The National Environmental Policy Act  
16          mandates that each Environmental Impact Statement  
17          consider alternatives to any proposed major federal  
18          actions. A major step in determining whether a license  
19          renewal is reasonable or not is comparing the likely  
20          impacts of continued operation of nuclear power plants  
21          with the likely impacts of alternatives of power  
22          generation.

23          In the draft supplements, the NRC staff  
24          initially considered 18 different alternatives to  
25          license renewal at the South Texas Project. After this

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1 initial consideration, the staff then chose the five most  
2 likely alternatives and analyzed these in depth.

3 Finally the NRC staff considered what would  
4 happen if no action is taken and South Texas Project shut  
5 down at the end of its current license without a specific  
6 replacement alternative. This alternative would not  
7 provide power generation capacity, nor would it meet the  
8 needs currently met by South Texas Project.

9 The NRC preliminary conclusion is that  
10 there is no clear environmentally preferred alternative  
11 to license renewal. All alternatives capable of meeting  
12 the needs currently served by South Texas Project entail  
13 impacts greater than or equal to the proposed action of  
14 license renewal.

15 This slide identifies me as your primary  
16 point of contact with the NRC for the preparation of the  
17 Environmental Impact Statement, and it also identifies  
18 where documents related to our review may be found in the  
19 local area.

20 The South Texas Project Draft Supplemental  
21 Environmental Impact Statement is available at the Bay  
22 City Library. All documents related to the reviews are  
23 also available on the NRC website listed on this slide.

24 This slide provides the status of the safety  
25 review. In December 2012 the applicant requested the

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1 safety review be suspended until January 1, 2014. As a  
2 part of the license renewal process, the Advisory  
3 Committee for Reactor Safeguards will provide  
4 independent review for this review.

5 The members of the Advisory Committee for  
6 Reactor Safeguards consists of nuclear experts from the  
7 industry and academics.

8 NRC staff will address written comments in  
9 the same way we address spoken comments received today.  
10 You can submit written comments either online or via  
11 conventional mail, meaning Postal Service.

12 To submit written comments online, visit  
13 the website regulations.gov and search for docket ID  
14 nrc-2010-0375. If you have written comments today, you  
15 may give them to any NRC staff member today.

16 This concludes my presentation, and I'm  
17 turning the meeting over to Susan.

18 MS. SALTER: Thank you, Tam.

19 So as I said, before we go into the public  
20 comment period, let me just take a few minutes for any  
21 questions or clarifications you may need -- questions  
22 you have or clarifications you need on what Tam has  
23 presented this afternoon.

24 So we're just going to have folks raise  
25 their hand. If they have a question, we'll bring you the

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1 mic. Do we have any?

2 (No response.)

3 MS. SALTER: Okay. So what we're going to  
4 do is we're going to move right into the comment period.  
5 And, again, during this period NRC staff are in a  
6 listening mode.

7 And we don't have very many speakers this  
8 afternoon, but if you change your mind or if you decide  
9 during the course of the comments that you now would like  
10 to make a comment, you can always fill out a yellow card  
11 and give it to myself or to Bob.

12 I'm going to call up our first speaker, is  
13 Owen Bludau. And then we have Carolyn Thames and Terry  
14 Farrar, in that order.

15 Please introduce yourself with your name  
16 and any affiliation you have when you're at the  
17 microphone.

18 MR. BLUDAU: Okay. I am Owen Bludau,  
19 executive director of the Matagorda County Economic  
20 Development Corporation.

21 The results that were presented are exactly  
22 as I anticipated they could be, that there were small to  
23 minimal impacts of any kind. I think the proof of the  
24 pudding is that STP has been here for well over 20 years  
25 now, and we have an environment that we appreciate and

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1 admire.

2 We went through a lot of internal furor two  
3 years ago over a coal plant, and the people who opposed  
4 that kept saying we have such a great environment here,  
5 we don't want to destroy it. That means STP has not done  
6 anything adverse to it, and I don't think renewal of this  
7 permit is going to do anything that's going to change  
8 that, so I firmly am in support of the findings of this  
9 environmental impact study.

10 MS. SALTER: Thank you, Mr. Bludau.

11 Our next speaker is Carolyn Thames.

12 MS. THAMES: Good afternoon and welcome to  
13 Bay City. My name is Carolyn Thames. I'm a business  
14 consultant with Workforce Solutions, a local workforce  
15 office here in Bay City, as well as a council member with  
16 the City of Bay City.

17 I am here today to strongly support the  
18 license renewal for STP Units 1 and 2 for an additional  
19 20 years. STP is the largest employer in Matagorda  
20 County, with approximately 1200 employees.

21 STP's license renewal will provide jobs for  
22 our children and build a strong, stable economic base for  
23 our community.

24 In my two terms on council, I've had the  
25 opportunity to serve with several employees. These

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1 people donate their time, their talents to make a  
2 difference in our community.

3 We trust the employees of STP; they're  
4 experts at engineering, operations, maintenance, and the  
5 environment. They are our neighbors, they are our  
6 friends.

7 Thank you for being here. Thank you for  
8 consideration of the license renewal.

9 MS. SALTER: Thank you, Ms. Thames.

10 And our next speaker is Terry Farrar.

11 MR. FARRAR: Thank you, Susan.

12 I am Terry Farrar. I own a business in  
13 town, Farrar Financial Group. I serve on the Bay City  
14 ISD school board, and I am also the chairman-elect for  
15 the Bay City Chamber of Commerce.

16 I've been here for 28 years. The entire  
17 time I've been here, STP has been, without a doubt, the  
18 lifeblood of this community. I do not know anybody who  
19 donates as much money to civic purposes, fund raisers.  
20 They're very good about being a part of this community  
21 with the Chamber.

22 Buddy Eller is the current chairman of the  
23 Chamber of Commerce. He works at STP. Tim Powell, the  
24 vice president at STP, is the president of the school  
25 board here. Bart Brown is the department director of my

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1 Sunday School class there where I'm a Sunday School  
2 teacher. Tim is a Sunday School teacher at First Baptist  
3 Church.

4 The people at STP are not only -- do not only  
5 just give the money that they give to make this community  
6 viable, but they give their time. The leadership that  
7 we experience because of the training that these people  
8 have received at STP has made a difference in this  
9 community. This community is what it is predominantly  
10 because of STP and their influence in this community.

11 And I strongly support that we relicense  
12 them and ask them to continue to participate and do what  
13 they've done in this community for the last 25, 30 years.  
14 Thanks.

15 MS. SALTER: Thank you, Mr. Farrar.

16 Those are all of the individuals who signed  
17 up to speak.

18 I have your card, but it said the evening;  
19 it didn't say -- but you are more than welcome to do both.  
20 Would you like to do both?

21 Karen Hadden.

22 MS. HADDEN: Good afternoon. I'm Karen  
23 Hadden, and I am the director of a statewide organization  
24 called SEED Coalition, Sustainable Energy and Economic  
25 Development Coalition.

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1 I'm going to speak in opposition to  
2 relicensing Units 1 and 2. In fact, the option that I  
3 think should be pursued is not actually on the list of  
4 options.

5 I understand the importance of a major  
6 industry in this community. I understand the importance  
7 of jobs, and our organization does as well, and we support  
8 that. We want every community in Texas to be  
9 economically viable and thriving.

10 But what I think should be happening,  
11 instead of relicensing two nuclear reactors that are set  
12 to retire in 2027 and 2028, this is the time to plan for  
13 a transition, to plan for worker training, to plan to move  
14 toward cleaner, safer energy for the future.

15 And with 14 and 15 years to work with, that  
16 is a doable goal. It's also very doable in today's world  
17 to replace the energy with renewables combined with  
18 energy efficiency, and that can be backed up with natural  
19 gas. This is affordable; this is real. Other  
20 communities are looking at these options. It can be  
21 done; it is being done.

22 For an example, right now wind turbines are  
23 booming across Texas. We've already had a point in time  
24 where wind was producing 25 percent and more of the power  
25 that was up on the ERCOT grid. Nuclear reactors at the

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1 time were around 11 percent.

2 We can do this; we are doing this. Granted,  
3 the wind comes in and out. That's why you combine with  
4 energy storage, that's why you do backup. And ERCOT is  
5 becoming very expert in making these things level out.

6 What could this do for the community?  
7 There could still be jobs, and lots of them, and hopefully  
8 even more. This could be growth for the community. So  
9 I think the thing to do is to plan.

10 Nuclear reactors were used in this country  
11 as a bridge between the time when we could get to the point  
12 where renewables were viable. That day is here; that  
13 time is now.

14 I'm personally using this in my own home.  
15 I have solar panels on the roof that do more than I ever  
16 thought they would. There are days when I can run the  
17 whole house and charge an electric car, which does most  
18 of my daily driving. That's possible, that's doable.  
19 We're doing it. It's here today.

20 There are many ways to move forward. The  
21 risks of continuing with nuclear power are great, and  
22 that's because of the inherent nature of nuclear power.  
23 There are accidents; there are fires. We've just been  
24 through that.

25 There's an increasing amount of fracking,

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1 and fracking has been linked to earthquakes, and who  
2 knows what will be happening over time. I think the  
3 environmental impact research needs to look further at  
4 that question.

5 In the case of Fukushima, reactor number 1  
6 had been set to retire one month before the accident  
7 there, which, you know, involved their diesel  
8 generators, to large extent, as well as tsunami and  
9 earthquake.

10 So if that plant had been shut down as it  
11 should have been -- they were given 10 more years, not  
12 20, like we're looking at in this case -- then that would  
13 be one less reactor that had a meltdown. And the whole  
14 world is feeling the impacts of that disaster in many  
15 different ways, including radiation that travels around  
16 the globe and impacts fisheries, it impacts products and  
17 workers' lives and people who live in Japan, as well as  
18 in the US it's been measured. This radiation does reach  
19 the US.

20 I'm concerned about at the plant -- and I  
21 think there needs to be further look at tritium. There  
22 are tritium problems at the site. There's monitoring  
23 wells that show that.

24 When you combine that with the fact that the  
25 bottom of the main cooling reservoir has some leakage

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1 going on -- this is documented; this was in the  
2 application for South Texas Project 3 and 4 -- okay,  
3 where is the research? Where is that tritium going? Is  
4 it going out the bottom of the cooling reservoir and going  
5 into the Gulf of Mexico?

6 Is it going into fish? Is it going into the  
7 food chain? Is it impacting animals that feed upon these  
8 species? Could it be a factor impacting whooping  
9 cranes, which are endangered?

10 Nobody has looked at this, and it needs to  
11 be looked at. This is part of the environmental impact  
12 assessment. You've already got the factor that the huge  
13 amount of water being used to cool these reactors means  
14 less fresh water can reach the Gulf of Mexico; less blue  
15 crabs. That impacts birds.

16 But in addition to that, we need to be  
17 looking at, at this point in time, whether the radiation  
18 is getting into these species; not just the numbers of  
19 fish. There needs to be additional analysis.

20 There have been problems with this reactor  
21 over the years, and they seem to be increasing. While  
22 we read about great safety reports and great numbers of  
23 days without shutting down, well, that's good, and great  
24 worker safety; that's what the reports say.

25 But when you look across the

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1 country -- there's an expert by the name of David  
2 Lochbaum; he has worked for the NRC; he's also worked for  
3 the Union of Concerned Scientists, and he did a report  
4 called The Nuclear Tightrope.

5 And he looked at plants where they had  
6 year-long outages. What he found was a typical pattern,  
7 that in a reactor that had a serious accident, serious  
8 problem, there would be glowing reports, right up until  
9 the accident happened. Nothing was wrong, everything  
10 was perfect, and then all of a sudden, catastrophic  
11 problem that had been missed all along that just wasn't  
12 showing up. And then we had this major problem.

13 So this has happened over and over, and I  
14 think it's time for this report and for the NRC in general  
15 to look deeply into what's going on.

16 Now, in 2003 there was leakage of  
17 radioactive material outside the reactor, at the base of  
18 it. That's not where radioactive material's supposed to  
19 be, ever.

20 And I remember when these reactors got  
21 built. We were told there was a backup system and then  
22 another backup system and then another. In fact, there  
23 were 12 -- there used to be 12 backup systems, and  
24 radioactivity would never escape, and yet it did. It  
25 has, within this operating lifetime.

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1 We still have quite a ways to go before the  
2 retirement dates of these reactors, and we've got these  
3 problems.

4 Recently there have been problems with the  
5 control rods getting stuck, not being able to function  
6 properly. We had an outage just last week that involved  
7 that, control rods dropping when they're not supposed to.

8 That is unsafe. That means that we don't  
9 have full control of this reactor. I'm concerned. I  
10 personally live in Austin, Texas, and Austin is an owner  
11 of this reactor. I'm happy that we get some power from  
12 it, but I'm very concerned about this safety aspect, for  
13 the people who live here, for people downwind and around  
14 the state.

15 Metal fatigue increases as reactors age.  
16 The most dangerous years are the early startup years and  
17 the final years of a reactor. So to consider giving a  
18 nuclear reactor 20 more years of time to operate 14 and  
19 15 years ahead of time, to me this is like telling  
20 somebody you're going to sell them a used car, but you're  
21 going to sell it to them today, and they're going to  
22 receive it 14 and 15 years later. That doesn't make  
23 sense.

24 This decision is being looked at and this  
25 meeting is being held way, way too early. This is wrong

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1 timing, and it needs to hold, it needs to wait.

2 Short of declaring that it's time to look  
3 at transition away, I would urge you to do no action for  
4 now and to delay until we know more. With the current  
5 problems with the reactor, with the current fire, that  
6 needs to be fully investigated.

7 And it's good that it appears that no  
8 radioactivity got released, but what if this fire was  
9 bigger? What if it was elsewhere? What if  
10 circumstances had somehow been different?

11 It concerns me that reactors are operating  
12 in a community that, after all of these years, still has  
13 no paid professional fire department. I'm sure the  
14 volunteers are very good people and probably trained, but  
15 if you've got nuclear reactor in your backyard, that  
16 means that there should be a paid professional fire  
17 department that can be called on.

18 Furthermore, I think everyone should be  
19 asking the question, if this was a very large fire,  
20 extensive, how long would it take to get backup fire  
21 departments here; for example, from Houston? -- because  
22 I have a feeling that it's longer than just the drive to  
23 get here.

24 These are serious safety concerns.

25 There are questions about the impacts of

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1 when the reactor is down. It becomes expensive. With  
2 the 16 percent ownership of Austin Energy, the months  
3 that they were down, roughly from November till almost  
4 April of 2012 -- November 2011 to almost April, that cost  
5 Austin 42 million, and so I think it's increasingly  
6 expensive as we have these outages. These reactors have  
7 been part of the year-long outages in years past.

8 Preliminary findings of small to moderate  
9 in terms of cumulative impacts, that should be none.  
10 There's a serious problem here. If this community was  
11 hosting wind energy or solar, I don't think you would be  
12 having these same impacts.

13 Moderate is not acceptable. And it matters  
14 to whom? Who is it moderate for? To whom is it low?  
15 The workers on site? I'm concerned about the fact that  
16 as contract employees get laid off, as some of the  
17 existing workers are impacted in the world of job cuts,  
18 that safety is taking a backseat to economics and trying  
19 to shave costs.

20 That means workers on the site have to work  
21 longer hours, have to work more, and potentially are  
22 exposed to more radioactivity. That is of great  
23 concern, and these things need to be addressed in the  
24 Environmental Impact Statement.

25 And so for a worker, that impact might not

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1 be moderate; that impact might be huge. It depends on  
2 who we're talking about.

3 I think I'll wrap up my remarks at this point  
4 in time, and I thank you for this opportunity.

5 MS. SALTER: Thank you, Ms. Hadden.

6 So that was all of the folks that signed up  
7 to make a comment. I'll give one last chance.

8 (No response.)

9 MS. SALTER: All right. Well, thank you  
10 again for coming out this afternoon. We will be having  
11 another meeting this evening at 7:00. You're welcome to  
12 join us again for that. It will be the same meeting as  
13 this was but with probably different folks making  
14 comments.

15 I also want to let you know that we had  
16 feedback forms at the front table when you came in, and  
17 the NRC is always looking to improve their public meeting  
18 format and process, so please take some time to fill those  
19 out on your way out. You can leave them here or drop them  
20 in the mail to the NRC.

21 So with that, I'd like to turn the meeting  
22 over to Dave Wrona, Branch Chief in the Division of  
23 License Renewal in the NRC's Office of Nuclear Reactor  
24 Regulation, for some closing remarks.

25 MR. WRONA: Thank you, Susan.

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1 Tam, would you mind going back to the slide  
2 that shows the various ways that folks can comment on our  
3 Draft Environmental Impact Statement.

4 First of all, I want to thank you all for  
5 coming out tonight -- this afternoon and taking some time  
6 out of your schedule to actually contribute to the  
7 process to help us make our Final Environmental Impact  
8 Statement the best that it can be.

9 I want to let everybody know it doesn't  
10 matter whether you commented today, you comment in the  
11 evening, you write us a letter, you go on the internet.  
12 All the comments are treated the same.

13 The NRC will consider all these comments,  
14 go through them as we develop our final impact -- Final  
15 Environmental Impact Statement.

16 If you get your comments in by February 22,  
17 we can guarantee that they will be considered. We will  
18 include them all in the final report, and responses to  
19 all those comments.

20 Again, I just want to thank everybody for  
21 the time and coming out and helping us with our  
22 environmental review process.

23 Thank you.

24 MS. SALTER: Be back at seven o'clock; open  
25 house at 6:00 if you'd like to join us again this evening.

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1 (Whereupon, at 2:47 p.m., the hearing was  
2 concluded.)  
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Date: Tuesday, January 15, 2013

Work Order No.: NRC-3030

Pages 1-22

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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

+ + + + +

PRELIMINARY SITE-SPECIFIC RESULTS  
OF THE ENVIRONMENTAL REVIEW FOR  
SOUTH TEXAS PROJECT LICENSE RENEWAL

+ + + + +

PUBLIC MEETING  
EVENING SESSION

+ + + + +

Tuesday, January 15, 2013

201 7th Street

Bay City, Texas

7:00 p.m.

ON BEHALF OF THE NRC:

BOB HAGAR, Facilitator

OTHER NRC STAFF:

SUSAN SALTER

TAM TRAN

BINESH THARAKAN

DAVE WRONA

EMILY LARSON

LARA USILING

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## CONTENTS

<u>SPEAKER/TOPIC</u>	<u>PAGE</u>
NRC Introduction .....	3
NRC Staff Presentation .....	5
Public Comments .....	12
NRC Closing Remarks .....	21
Adjourn	

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P R O C E E D I N G S

(7:02 p.m.)

MR. HAGAR: Well, good evening to everybody, and thanks for coming to this meeting. My name is Bob Hagar, and with Susan Salter we're going to facilitate this meeting, and the whole purpose of our being here is to help the meeting run smoothly, and we're going make sure that everyone that wants to say something has an opportunity to say something.

Before we get started, I want to remind everybody that this meeting is being transcribed. We've got a court reporter over here, and we want everything that's said in the meeting to be on the transcript, so please be sure when you have -- if you have something to say, to speak into a microphone and speak very clearly.

And the first time you speak, be sure and say your name and what organization you're with so we can get that in the transcript properly.

I remind everybody the restrooms are just outside this hall -- this door, down the hall. The ladies' restroom is first hallway to the left, and the men's restroom is down at the end of the hall to the right. And exits are right here (indicating) and then out in the hall to the left and to the right.

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1 In addition, everybody, if you would please  
2 turn off your electrical devices; at least turn them  
3 on silent mode so that the meeting is not disrupted,  
4 and if you get a call during the meeting, if you would  
5 please step out in the hall so you don't disturb anybody  
6 else in the meeting.

7 Now, the purpose of tonight's meeting is  
8 to present the findings and collect public comments on  
9 the Draft Environmental Impact Statement for the  
10 proposed renewal of the South Texas Project nuclear  
11 power plant's operating licenses for an additional 20  
12 years.

13 During this meeting you may hear  
14 individuals refer to the Environmental Impact Statement  
15 as the EIS or the Draft Environmental Impact Statement  
16 as the DEIS. Please don't get confused by that.

17 Now, the agenda for the meeting will  
18 include -- we're going to first have a presentation by  
19 the NRC staff, where they'll present the results of the  
20 environmental review, and when that's done, we'll have  
21 an opportunity for questions and answers about the  
22 presentation.

23 So if you have questions about the  
24 presentation as we're going through, I want you to hold  
25 those until we're done, and then we'll have question

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1 and answers. And then after that we'll have an  
2 opportunity for anyone who wants to make a comment to  
3 comment on the record.

4 But if you want to say something, if you  
5 want to have your comments on the record, please first  
6 fill out a yellow comment card. Susan has some over  
7 there on the table; I have some in my pocket. And if  
8 you want to say something and haven't filled out a card,  
9 please raise your hand and we'll bring you one.

10 Okay. I think that's all I want to say  
11 about the ground rules, so I'll turn the meeting over  
12 now to Tam Tran, who's a project manager in the Division  
13 of License Renewal in the NRC's office of Nuclear Reactor  
14 Regulation, and he will do the presentation.

15 MR. TRAN: Thank you.

16 Thank you all for taking the time to come  
17 to this meeting. My name is Tam Tran; I'm the project  
18 manager for the environmental review for the South Texas  
19 Project license renewal.

20 I hope the information today will provide  
21 you with understanding of how we've done the review,  
22 what we -- and the preliminary result of the review,  
23 and hopefully the comment that we collect today will  
24 help us to make the Final Environmental Impact Statement  
25 accurate.

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1 If I can have slide number 8, this slide  
2 show important

3 This slide shows important milestones for  
4 the environmental review process. The highlighted  
5 dates indicate opportunities for public involvement in  
6 the environmental review.

7 The Draft Environmental Impact Statement  
8 for South Texas Project was published on December 5,  
9 2012, and also known as Supplement 48 of the Generic  
10 Environmental Impact Statement, and we are currently  
11 accepting public comments on this document until  
12 February 22, 2013.

13 Today's meeting is being transcribed, and  
14 therefore the comment that we're taking back today will  
15 help us in developing the Final Environmental Impact  
16 Statement starting from the end of the comment period,  
17 and we at this point anticipate that we will publish  
18 the Final Environmental Impact Statement approximately  
19 seven months from the draft document.

20 Slide number 9, please.

21 As described on this slide, the NRC defines  
22 impact levels in three categories: small, moderate,  
23 or large.

24 For example, the operation of South Texas  
25 Project may cause the loss of adult and juvenile fish

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1 at the intake structure. If the loss of fish is so small  
2 that it does not appear to have noticeably altered  
3 population of the species found in the lower Colorado  
4 River, the impact will be small.

5 If losses cause some population to increase  
6 or decrease, then stabilize at a different level, then  
7 the impact would be moderate.

8 If losses at the intake structure cause the  
9 fish population to decline to the point where it cannot  
10 be stabilized and continually declines, then the impact  
11 would be large.

12 For South Texas Project, the impact to  
13 fishery are small.

14 Slide number 10, please.

15 In conducting the review, the environmental  
16 review team from NRC and Pacific Northwest National  
17 Laboratory analyzes various impacts to the environment.

18 The team examined environmental justice, ecology, land  
19 use, regulatory compliance, climate change, et cetera,  
20 for the supplement.

21 Slide number 11, please.

22 This slide lists the site-specific issues  
23 that the staff reviewed for the continuing operation  
24 of South Texas Project during the proposed license  
25 renewal period. Each issue is assigned a level of

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1 environmental impact of small, moderate, or large by  
2 the environmental review team.

3 In addition, there are two uncategorized  
4 issues. They are environmental justice and  
5 electromagnetic field chronic effects. For  
6 electromagnetic field chronic effect, the staff  
7 considers the Generic EIS findings of uncertain impacts  
8 is still appropriate. This is because -- simply  
9 because there's no scientific consensus on these issues.

10 The staff's preliminary conclusion is that  
11 the site-specific impacts related to license renewal  
12 for South Texas Project are small, except for the impact  
13 of electromagnetic field acute effects that are small  
14 to moderate.

15 Slide number 13, please.

16 The staff also reviewed cumulative impacts  
17 associated with the continued operation of South Texas  
18 Project. For cumulative impacts, the NRC staff looked  
19 at effects on the environment from past, present, and  
20 reasonably foreseeable future of human actions.

21 The impacts include both from the South  
22 Texas Project operations and from other activities near  
23 the South Texas Project site; for example, I think that  
24 we looked at the White Station Energy Center, the Texas  
25 Prairie Wetland Project, climate change, et cetera.

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1 Past actions are those related to the  
2 environmental resources at the time of the power plant  
3 licensing and construction. Present actions are those  
4 related to resources at the time of current operations  
5 of the power plant. And future actions are considered  
6 to be those that are reasonably foreseeable through the  
7 end of the plant's operation, including the period of  
8 extended operations.

9 In other words, the cumulative impact  
10 analysis considers potential impacts through the end  
11 of the current license term as well as the 20-year  
12 renewal license term.

13 While the level of impacts due to the direct  
14 and indirect effect associated with the continued  
15 operation of South Texas Project are mostly small, the  
16 staff's preliminary conclusion is that the cumulative  
17 impacts are small to moderate.

18 Slide number 15.

19 A major step in determining whether a  
20 license renewal is reasonable or not is comparing the  
21 likely impacts of continued operation of nuclear power  
22 plants with the likely impacts of alternatives of power  
23 generation.

24 In the draft supplement, the NRC staff  
25 initially considered 18 different alternatives to

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1 license renewal of the South Texas Project. After this  
2 initial consideration, the staff then chose the five  
3 most likely alternatives and analyzed these in depth.

4 Finally the NRC staff considered what would  
5 happen if no action is taken and South Texas Project  
6 shut down at the end of its current license without a  
7 specific replacement alternative. I want to note that  
8 this alternative would not provide power generation  
9 capacity, nor would it meet the need currently met by  
10 South Texas Project.

11 The NRC preliminary conclusion is that  
12 there is no clear environmentally preferred alternative  
13 to license renewal. All alternatives capable of  
14 meeting the needs currently served by South Texas  
15 Project entail impacts greater than or equal to the  
16 proposed action of license renewal.

17 Slide 16, please.

18 This slide identifies me as your primary  
19 point of contact with the NRC for the comments, and it  
20 also identifies where documents related to our review  
21 may be found.

22 The Draft Supplemental EIS is available at  
23 the Bay City Library. Also it's available on the NRC  
24 website listed on this slide.

25 Slide 18.

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1           You can submit written comments either  
2 online or via conventional mail. To submit written  
3 comments online, visit the website regulations.gov and  
4 search for docket ID nrc-2010-0375. If you have written  
5 comments today, you may give them to any NRC staff member  
6 today.

7           This concludes my presentation, and I'm  
8 turning the meeting over to the facilitator.

9           MR. HAGAR: All right. Thank you, Tam.

10           Does anyone have any questions for Tam?  
11 Is there anything he covered that you'd like to over  
12 again? If so, just raise your hand and I'll bring a  
13 mic to you.

14           (No response.)

15           MR. HAGAR: All right. I don't see any  
16 hands, so we'll move directly into the comment period.

17           Two people signed up to make comments on the record,  
18 and so Susan Dancer and Eugene Davis, in that order.

19           Susan, if you'll go ahead and come up, you  
20 have an opportunity now to make whatever comments you  
21 want.

22           MS. DANCER: Thank you. My name is Susan  
23 Dancer; common spelling on both words.

24           I want to thank the NRC staff for traveling  
25 all this way and giving us an opportunity to participate

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1 in this process.

2 I'm a Matagorda County native and a business  
3 person here locally and a state-licensed wildlife  
4 rehabilitator. I live on a 65-acre ranch in Blessing,  
5 about eight miles from STP, and I run an animal sanctuary  
6 there as well.

7 I really appreciate the opportunity to come  
8 and be heard during this scoping process. I believe  
9 that accountability, transparency, and the right to  
10 challenge industry are very important and that to  
11 question is every citizen's duty.

12 I have several areas of this EIS that I would  
13 like to fundamentally disagree with and respectfully  
14 ask you to reconsider.

15 I continually see and hear that STP is  
16 lauded as beneficial to local wildlife and habitat, and  
17 that angle is accepted and incorporated into the EIS.

18 This is not what I see as a local citizen and one of  
19 only three licensed wildlife rehabilitators here in our  
20 county.

21 I see a large corporation doing a great job  
22 of showing you and the public the good and  
23 beneficial-to-them part of the picture.

24 In reality, the contract granted by STP to  
25 deal with wildlife issues goes to the lowest bidder.

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1 currently GCA. GCA, as well as previous environmental  
2 contractors, requires its employees to destroy bird  
3 nests, eggs, and infant birds that nest on the site as  
4 part of standard housekeeping.

5 These employees receive no training in  
6 applicable laws such as the Migratory Bird Treaty Act,  
7 no training on species identification, and don't even  
8 know what kind of avian life they're destroying.

9 One year ago this week STP initiated a  
10 nuisance-bird eradication program, whereby seed was set  
11 out for several days in a row to establish feeding  
12 stations on site, and then the seed was replaced with  
13 poison.

14 This project was aimed primarily at several  
15 protected species of grackles that congregate in large  
16 numbers to overwinter on the Texas Gulf Coast. The  
17 poisons that are used are neurotoxic, and the animals  
18 that ingest them die a horrible death, often beating  
19 themselves to death on the ground.

20 Predator species such as hawks, eagles, and  
21 owls are drawn to the activity and, by ingesting the  
22 tainted birds, they ingest the poisons as well. These  
23 are biocumulative in the food chain.

24 I got calls about several raptors on and  
25 around the STP site that week that were acting

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1 abnormally. One red-tail hawk was brought to my  
2 facility but could not be saved.

3 I emailed STP authorities before this  
4 poisoning took place and asked them to consider other  
5 options. They did not reply to my email, which is  
6 attached; I'll leave my comments here.

7 There are much more humane ways to keep the  
8 site free of unwanted birds, short of killing them,  
9 though maybe none so inexpensive. These kinds of  
10 activities must be considered in the scoping process,  
11 and we must acknowledge that fact, that profit  
12 supersedes environmental concerns.

13 STP also regularly deals with mammals on  
14 site with lethal solutions, and when problem animals  
15 are relocated, employees lack the training to recognize  
16 disease which may be infectious, and they are not trained  
17 on the laws that pertain especially to our fur-bearing  
18 species.

19 Our wildlife rehabilitation group has  
20 offered training to STP personnel at no expense but were  
21 told -- and I quote -- "We are not ready to take it to  
22 that level."

23 Additionally, STP regularly kills entire  
24 bee colonies that swarm on site. Honeybee numbers are  
25 in serious decline, and most of our food crops depend

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1 on their pollination.

2 Another aspect of the EIS I think is  
3 understated and not given serious weight: the serious  
4 water shortage facing our region. To assign a small  
5 impact valuation to a shortage of life-giving necessity  
6 is irresponsible. In what will undoubtedly be a new  
7 drought of record, this is premature and presumptuous.

8 Profit and safety are not at the same end  
9 of the business spectrum; they are polar opposites.  
10 It costs money and cuts into profit to be safe. As time  
11 goes on and more and more equipment ages and fails,  
12 safety and concern for community must be sacrificed if  
13 shareholders are to be kept satisfied.

14 STPNOC's only objective is to make money  
15 for their owners. The appearance and grand gestures  
16 toward community and safety are an important part of  
17 that process, but the actual implementation of the same  
18 is counterproductive to the process of making money.

19 For example, STP has long been a top  
20 producer in the nuclear industry in both profit and  
21 output; however, when forced outages in Unit 2 caused  
22 the profitability to fall, the new management sent  
23 nearly 300 people, 25 percent of STP's workforce, home  
24 without pay days before Thanksgiving, and they were  
25 unpaid through the end of the year.

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1           Where was the professed concern for family  
2           and employees and community then? Taking a backseat  
3           to profit, as they always will, and even more so as the  
4           plant ages and reasonable maintenance is neglected in  
5           the interest of cost savings.

6           Today's corporate world demands lean,  
7           efficient operation. A process of trial and error  
8           establishes how lean a company can be and still profit.  
9           The workforce is ever more and more comprised of  
10          contract workers with lower wages and no benefits.

11          One might argue that's just business, and I  
12          completely agree. However, framed by the reason that  
13          we are here, to discuss STP's environmental impact,  
14          including the socioeconomic indicators, on our  
15          community, we must consider all the factors fully and  
16          realistically in the final EIS.

17          Thank you very much.

18          MR. HAGAR: Thank you, Susan.

19          Eugene Davis, if you have anything to say,  
20          please step up.

21          MR. DAVIS: I'm Eugene Davis. I'm the  
22          executive director of the Matagorda County Women's  
23          Crisis Center, known as The Crisis Center. And I'd like  
24          to speak, quite briefly, on four points.

25          One is that what I have observed and seen

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1 and heard is that STP has an excellent safety record.

2 It seeks to be transparent; it seeks to let people know  
3 when things are going on and seeks to be proactive, from  
4 my point of view.

5 I believe, from my point of view, that STP  
6 has the safety of everyone at stake and is one of the  
7 best-run plants as far as safety and energy in the US.

8 And with that, I think that's the second  
9 point, is the efficiency, that we do have an excellent  
10 run plant. As my predecessor made the comment just a  
11 moment ago about what happened with the contract  
12 workers, we are in a unique situation where STP is,  
13 because of the price of natural gas, losing money, and  
14 as in any household, if you spend more than you make,  
15 you go under, so there's that need to conserve resources.

16 Also, I cannot comment about what my  
17 predecessor has said about the environment on plant  
18 site. However, I know that with safety being what it  
19 is and the need for safety, they are taking that as the  
20 most important course.

21 I look at the overall impact, county- and  
22 area-wide. Every year Matagorda County is rated number  
23 one in migratory bird population in different species.

24 That tells me, with STP having been here for 30 years,  
25 that environmentally they have had a minimal, at best,

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1 impact upon this area. Otherwise we would not see that  
2 kind of wildlife still in the region across this area.

3 And then, too, finally, is the fact that  
4 STP is, in my view, an excellent corporate citizen,  
5 always willing to step in, always willing to make the  
6 difference, always willing to help, and has instilled  
7 that in all its employees, that their employees are also  
8 involved in the community. And they are a vital part  
9 of this community that we really appreciate and want  
10 to see them stay.

11 Again, I believe in our current energy  
12 situation across the state of Texas and electrical  
13 generation, Texas as a whole needs STP.

14 Thank you very much.

15 MR. HAGAR: All right. Thank you, Mr.  
16 Davis.

17 And then there was one other speaker that  
18 didn't sign up but indicated she might want to make a  
19 few comments. Karen, do you want to say something  
20 tonight?

21 MS. HADDEN: Briefly.

22 MR. HAGAR: Okay. Please introduce  
23 yourself when you get up here.

24 MS. HADDEN: Good evening. I'm Karen  
25 Hadden, and I am the director of the SEED Coalition.

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1 Sustainable Energy and Economic Development Coalition,  
2 and I will add to the comments that I made at the earlier  
3 session today, largely in response to some of the other  
4 comments that have been made here tonight.

5 And I wish I could say that I shared the  
6 opinion of transparency for South Texas Project. I find  
7 it to be of concern that information is not more  
8 forthcoming.

9 And in terms of safety, I'm very concerned  
10 about the cutting of employees. I think that's a way  
11 to increase safety risks. And even though there's been  
12 luck so far, I have great concerns, as do many others  
13 who are not here tonight -- and I'll go ahead and say  
14 that I'm speaking for many other people as well -- that  
15 while we have so far no major accident at the site, there  
16 needs to be research in the amount of radiation,  
17 radionuclides migrating off the site.

18 And also we need to prepare, because  
19 historically at some of the sites that were touted as  
20 being the safest, the most productive, the ones that  
21 were running beautifully, that is exactly where the  
22 major problems have occurred in US nuclear history.

23 And I think we should be looking carefully.  
24 I think we should be more forthcoming with information,  
25 digging into recent events such as the fire that

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1 occurred; digging deeper on many issues and looking more  
2 closely.

3 Thank you.

4 MR. HAGAR: All right. Is there anyone  
5 else that wants to make any comments tonight on the  
6 record?

7 (No response.)

8 MR. HAGAR: Then let me kind of wrap this  
9 up by reminding everybody that the NRC wants to continue  
10 to improve the way we present public meetings, and so  
11 there are some feedback forms on the corner of the table,  
12 and if you have a mind to, grab a feedback form on the  
13 way out and suggest to us on how we can improve these  
14 meetings.

15 And for a final few words, I want to turn  
16 this meeting over to Dave Wrona, who's Branch Chief in  
17 the Division of License Renewal in headquarters' Office  
18 of Nuclear Reactor Regulation.

19 Dave.

20 MR. WRONA: Thank you, Bob.

21 Just to wrap things up, I want to thank  
22 everybody. The turnout tonight, we have a lot of  
23 duplicate attendance in the crowd, so we did abbreviate  
24 our presentation, hitting the high points.

25 I just want to let everybody know that the

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1 NRC staff will be hanging around after the meeting for  
2 a little bit, especially as we clean up. So if anybody  
3 has any specifics on our analysis and our Draft  
4 Environmental Impact Statement, they can stop and see  
5 any one of us, and we can go into a little bit more detail.

6 And in general, too, if you have any  
7 questions on the NRC and what we do and how we function,  
8 you know, we'll be here to be able to answer those  
9 questions.

10 I do thank you for taking the time out of  
11 your busy schedules to come and provide us with comments  
12 that we'll use when we develop our Final Environmental  
13 Impact Statement, as Tam mentioned, to be -- it's  
14 expected to be published around the July 2013 time frame.

15 And just as a reminder, as Tam has up on  
16 the screen, this isn't the only forum to provide the  
17 public comments to us that you have. Regulations.gov  
18 will allow you to go online and provide them to us, or  
19 you can mail them in to the address that's shown on the  
20 screen, and that information is available in the  
21 handout. So if you haven't take a set of the handouts,  
22 those are still available over at the table.

23 Thank you very much.

24 MR. HAGAR: With that, this meeting is  
25 adjourned. Thank you for being here.

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1 (Whereupon, at 7:28 p.m., the hearing was

2 concluded.)

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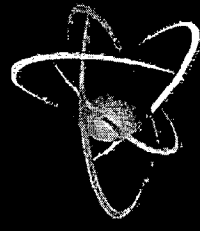
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# **Preliminary Site-Specific Results of the Environmental Review For South Texas Project License Renewal**



**U.S. NRC**

United States Nuclear Regulatory Commission

*Protecting People and the Environment*

January 15, 2013

# Purpose of Today's Meeting

- Present the results of the review
- Accept any comments you may have today



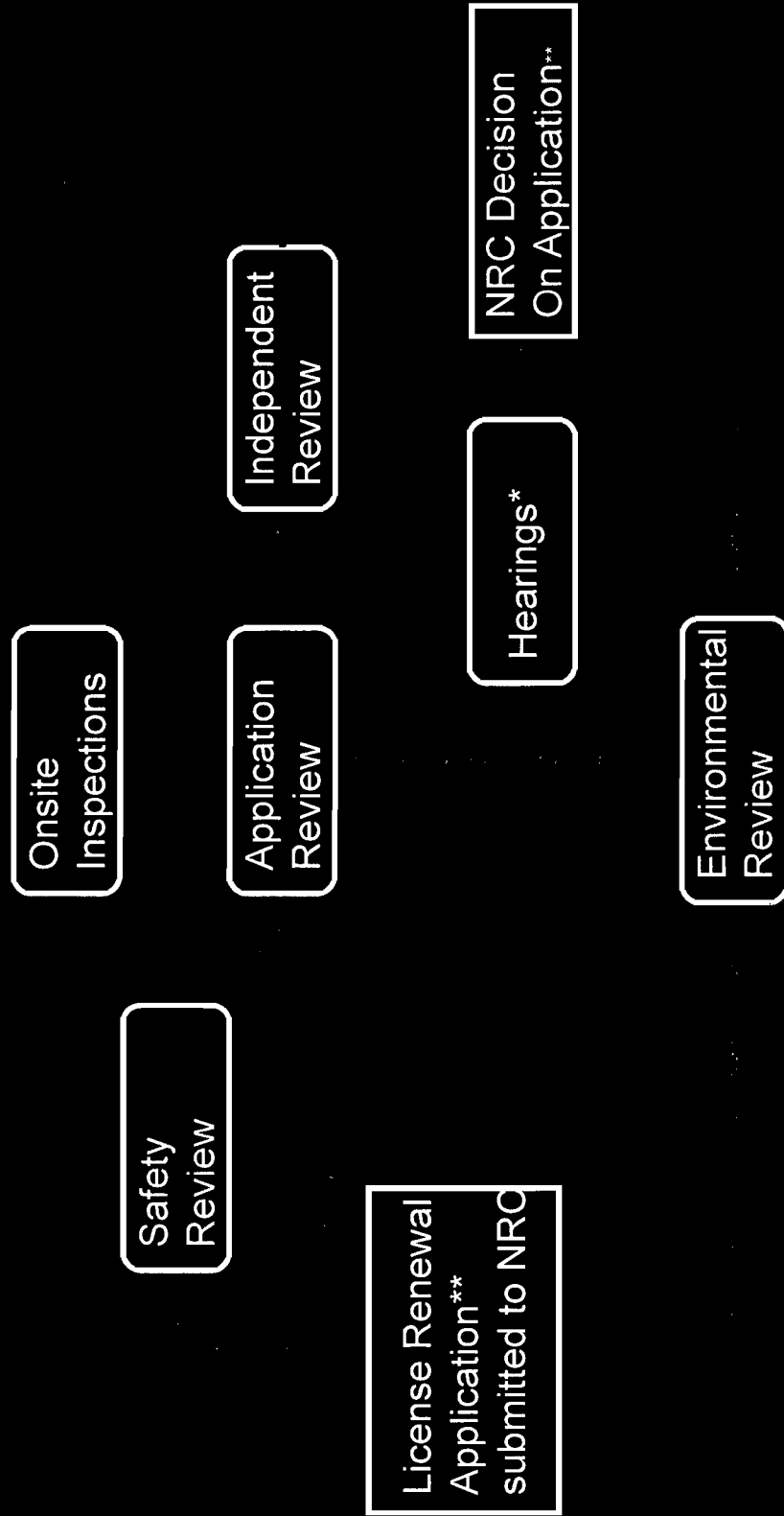
# Overview

- NRC presentation
  - NRC's regulatory role
  - Summary of environmental review
  - Upcoming milestones and how to submit comments outside this meeting
- Your comments

# NRC's Regulatory Oversight

- NRC regulates commercial use of nuclear materials including nuclear power plants
- NRC's mission:
  - Protect public health and safety
  - Promote common defense and security
  - Protect the environment

# License Renewal Process



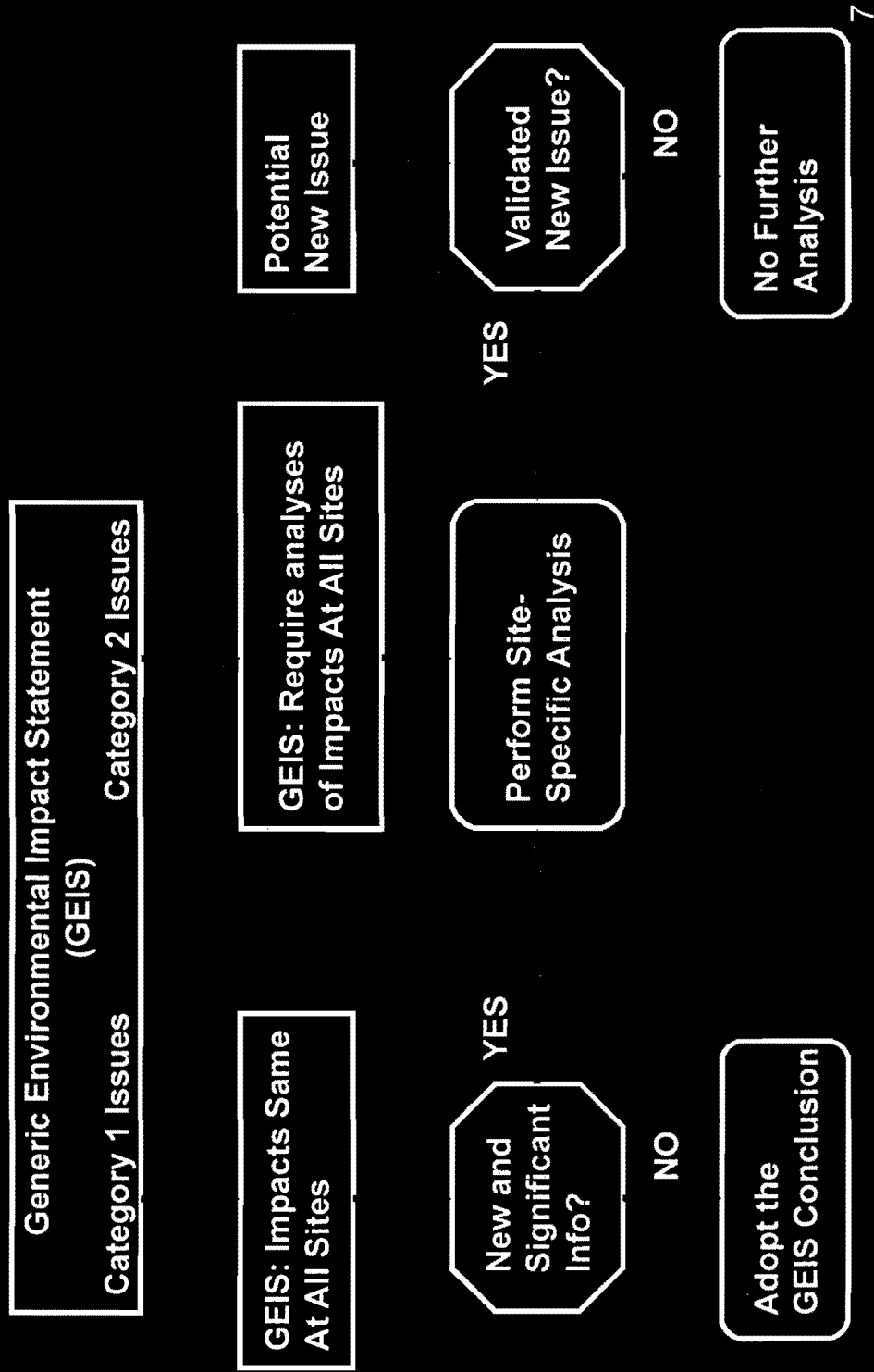
\* If a Request for Hearing is Granted

\*\* Available at [www.nrc.gov](http://www.nrc.gov)

# Environmental Review

- Generic Environmental Impact Statement (GEIS) addresses issues common to all plants
- Supplemental Environmental Impact Statement (SEIS) addresses site-specific issues for South Texas Project (STP) license renewal
- Review proposed action (license renewal) and alternatives

# Analysis Approach



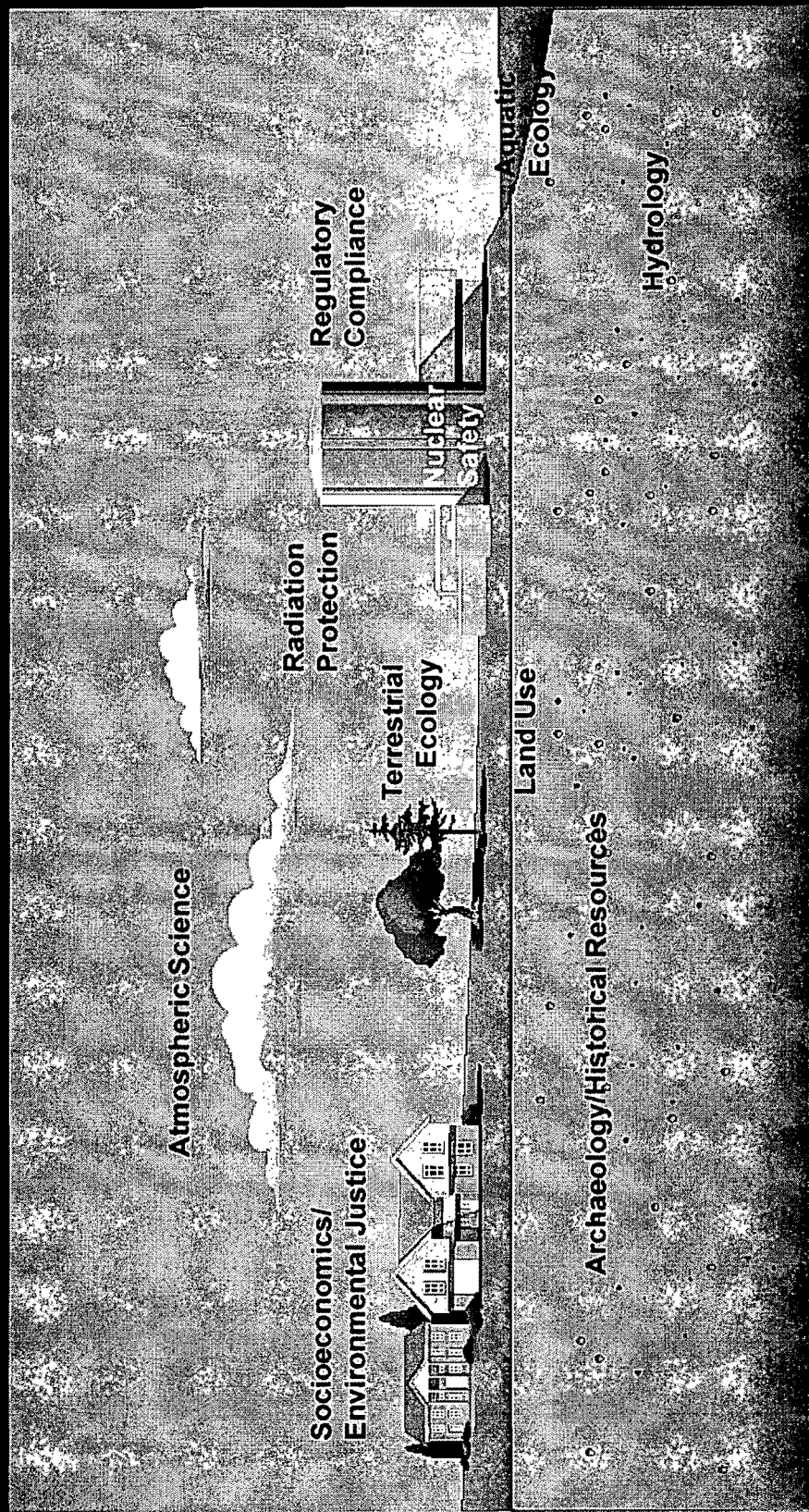
# Environmental Review Milestones

Application Received	October 26, 2010
Notice of Intent	January 31, 2011
Scoping Public Meeting	March 2, 2011
Scoping Period Ended	April 1, 2011
Scoping Summary Report	November 15, 2012
Draft SEIS	December 5, 2012
Draft SEIS Public Meeting	January 15, 2013
Draft SEIS Comments Due	February 22, 2013
Final SEIS	July 2013

# How Impacts are Quantified

- NRC-defined impact levels:
  - **SMALL** - Effects are not detectable or are so minor that they will neither destabilize nor noticeably alter any important attribute of the resource.
  - **MODERATE** - Effects are sufficient to alter noticeably, but not to destabilize, important attributes of the resource.
  - **LARGE** - Effects are clearly noticeable and are sufficient to destabilize important attributes of the resource.

# Reviewing Areas





# Site-Specific Environmental Review of STP License Renewal

Reviewing Areas	Impact	DSEIS Section
Land Use	SMALL	4.1
Air Quality	SMALL	4.2
Surface Water Resources	SMALL	4.3
Groundwater Resources	SMALL	4.4
Aquatic Resources	SMALL	4.5
Terrestrial Resources	SMALL	4.6
Protected Species and Habitats	SMALL	4.7
Human Health	SMALL to MODERATE*	4.8
Socioeconomics	SMALL	4.9

\* SMALL impacts except for the impacts of electromagnetic fields acute effects (electric shock) that are SMALL to MODERATE

# Electromagnetic Fields Acute Effects

- To prevent electric shock from induced current, National Electric Safety Code limits the transmission lines to 5 milliamperes.
- Some transmission lines from STP exceed the 5 milliampere criterion.
- STPNOC has provided potential mitigation options to reduce or avoid the adverse impacts.

# Cumulative Impacts

- Overall impacts to environment including past, present, and reasonable foreseeable future actions
  - evaluated to end of 20-year renewal term
  - geographic boundaries dependent on resource
- Preliminary findings
  - SMALL to MODERATE cumulative impacts

# Waste Confidence Decision

- NRC Waste Confidence Decision and Rule (WCD) addresses management of spent fuel after the renewal term.
- Consistent with the Commission direction, STP renewed licenses will not be issued until the issues related to waste confidence are appropriately addressed.
- WCD Environmental Impact Statement is being developed by the WCD directorate, to be available in 2014.

# Alternatives

- Alternative energy sources analyzed (power replacement)
  - New generation (Coal, Natural Gas, Nuclear)
  - Combination of alternatives (Gas, Wind, and Energy Efficiency)
  - Purchased electrical power
  - Other considered but dismissed alternatives (e.g., Oil, Wind, Solar, Conservation)
- No action alternative
- Environmental effects of alternatives in at least some impact categories reach MODERATE or LARGE significance

# Additional Information

- Environmental PM:  
Tam Tran  
(800) 368-5642, Ext. 3617  
[tam.tran@nrc.gov](mailto:tam.tran@nrc.gov)
- The draft SEIS can be viewed at:
  - Bay City Public Library, 1100 Seventh Street, Bay City, TX 77414
- NRC's Web site ([www.nrc.gov](http://www.nrc.gov)):
  - <http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1437/>

# NRC Safety Review Status

- The reviewing status is on the web.  
<http://www.nrc.gov/reactors/operating/licensing/renewal/applications/south-texas-project.html>
- In December 2012, the applicant requested the safety review be suspended until January 1, 2014, to better focus the applicant's safety resources.
- Safety review will be independently reviewed by the Advisory Committee for Reactor Safeguards (ACRS) . There will be ACRS reviewing meetings open to the public.

# **Submitting Comments After the Meeting**

- **By mail:** Chief, Rules, Announcements, and Directives Branch (RADB)  
Division of Administrative Services  
Mailstop TWB-05-B01M, Faxes 301-492-3446  
U.S. NRC, Washington, D.C. 20555-0001
- **In person:** 11545 Rockville Pike  
Rockville, Maryland
- **Internet:** [www.regulations.gov](http://www.regulations.gov), docket ID: nrc-2010-0375

**Comments due by February 22, 2013**



# Purpose of Today's Meeting

- Present the results of the review
- Accept any comments you may have today

In an effort to improve communication and increase interaction with members of the public, the NRC staff conducted open houses for one hour before each meeting and encouraged the public to submit meeting feedback forms. The staff provided brochures and met with members of the public to answer questions about the proposed renewal of the STP operating licenses.

A combined listing of attendees for both sessions is provided in Enclosure 1. Enclosure 2 is a copy of the meeting agenda. Enclosures 3 and 4 contain the official corrected transcripts for the afternoon and evening meetings, respectively. Enclosure 5 contains a copy of the slides used during the NRC's presentation.

Docket Nos. 50-498 and 50-499

Enclosures:  
As stated

cc w/encls: Listserv

DISTRIBUTION: See next page

RidsNrrDlr Resource	JDaily
RidsNrrDlrRpb1 Resource	TTran
RidsNrrDlrRpb2 Resource	ICouret, OPA
RidsNrrDlrRerb Resource	BSingal, DORL
RidsNrrDlrRpob Resource	NO'Keefe
RidsNrrDraApla Resource	GPick, RIV
RidsOgcMailCenter	JDixon, RIV
-----	VDricks, RIV
	WMaier, RIV
	AVegel, RIV

**ADAMS Accession Nos.**

**Package: ML13044A466**

1. Meeting Summary (w /Encls. 1 & 2): **ML13023A334**
2. Encl. 3: Afternoon Transcript (Corrected): **ML13029A755**
3. Encl. 4: Evening Transcript (Corrected): **ML13025A008**
4. Encl. 5: Slides: **ML13029A497**

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DATE	02/12/2013	02/13/2013	02/25/2013

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