

REGIONAL RESOURCE STEWARDSHIP COUNCIL MEETING
APRIL 24TH & 25TH, 2013
VOLUME I OF II

LOCATION:

LAKE GUNTERSVILLE STATE PARK LODGE
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REPORTED BY:

KIMBERLY J. NIXON, RPR
NATIONAL REPORTING AGENCY
1255 MARKET STREET
CHATTANOOGA, TENNESSEE 37402
WWW.NATIONALREPORTING.COM
423.267.8059 (OFFICE)
423.266.4447 (FAX)

MEMBERS OF THE REGIONAL RESOURCE STEWARDSHIP COUNCIL

*MR. WILSON TAYLOR (FACILITATOR)

*MS. RUSSELL TOWNSEND (COUNCIL CHAIR)

*MR. JOE HOAGLAND (DFO)

MR. MIKE BALL

*MR. KARL W. DUDLEY

MS. JEAN KELLEMS ELMORE

*MR. BILL FORSYTH

*MR. PHIL HAZLE

MR. MARK HOMMRICH

*MR. MARK IVERSON

*MR. GARY JOINER

*MR. MITCH JONES

*MRS. AVIS KENNEDY

*MR. ADAM KINSER

MR. GEORGE KITCHENS

*MR. BRAD KREPS

*MR. TOM LITTLEPAGE

MR. ROBERT MARTINEAU

*MR. WILL NELSON, III

*MS. RHONDA RICE

*MR. JACK SIMMONS

*PRESENT FOR THE MEETING

TENNESSEE VALLEY AUTHORITY DESIGNATED FEDERAL OFFICER

MR. JOE HOAGLAND, DFO
TENNESSEE VALLEY AUTHORITY
400 WEST SUMMIT HILL DRIVE
KNOXVILLE, TENNESSEE 37902

P R O C E E D I N G S

CHAIR RUSSELL TOWNSEND: Council, come to order this morning and we will get started. Let's please come to order.

DFO JOE HOAGLAND: Okay. Can everybody hear me? I am trying to figure out how to use the microphone. All right. Good morning, everybody. We appreciate everybody coming to Guntersville. I think at dinner last night someone made the comment, "You have to really want to get here," I think that's a true statement, but on the other hand when you look outside it's well worth it.

If you haven't looked outside you might do that quickly because I believe the rain is going to be here shortly. And Beth is working, I guess is probably the right way, to make sure the rain is gone by this afternoon's tour. If she accomplishes that one, we will be really impressed. So we will see how that one goes, but there is an alternate plan B.

Anyway, I appreciate everybody. Welcome to our new folks. We will introduce them more formally in a few minutes. We have got a pretty cool agenda today, I think, to talk through and a great subject.

1 With that, I am just going to turn it
2 over. Russ, do you have any comments?

3 CHAIR RUSSELL TOWNSEND: No, I don't.
4 Actually, I am going to turn it over to Wilson until
5 I need to make the introduction of the new members.

6 FACILITATOR WILSON TAYLOR: All right.
7 Thank you. Thank you, Russ. Thank you, Joe. First
8 off, welcome, as Joe says, and I will be serving as
9 facilitator today for this meeting.

10 What I would like to do is just some
11 housekeeping notes. For a safety moment, you know,
12 Joe mentions it's going to be raining today. So just
13 as a reminder to all of us as springtime gets here,
14 we think about getting outdoors and enjoying the
15 outdoors and having fun on the water.

16 So I would just like to do a quick
17 reminder about lightning safety. I am sure many
18 people already know this, but one key that I read is
19 if you can see the lightning it could be an issue for
20 you. I'm just saying, you know, if you can see it,
21 it could be an issue at some point.

22 So when you think about when you see
23 lightning the rule is, when you see the flash, how
24 many minutes should you wait before you resume
25 activity. Does anybody know? How many?

1 MR. KARL DUDLEY: 30.

2 FACILITATOR WILSON TAYLOR: The
3 30-minute rule. So if you have impatient folk with
4 you or if you have kids with you and they don't see
5 the lightning for 26 minutes they are ready to go
6 back, but the rule is if you see one at 26 minutes,
7 guess what, you have to wait another 30 minutes. So
8 it's a matter of safety, probably not as convenient
9 all the time.

10 Another thing I read is don't huddle
11 up. So if you're out and there's lightening around
12 you may attract more lightning if there's a big group
13 of people together. So I don't know what that means.
14 If you're with your kids you probably should try to
15 stay with them, I guess, but the key is getting
16 indoors or getting to somewhere that's safe, that's
17 the key element.

18 So I wanted to pass along that safety
19 message to all of us, particularly today if we're
20 outside at some point, and then also for the rest of
21 the time that you are outdoors enjoying the weather
22 this spring. So that's our safety moment.

23 Now, for housekeeping, when you think
24 about the agenda here, Joe said it's a really
25 exciting agenda. One thing I want to remind the new

1 members of, if you would please check through your
2 notebook and there's some expense reimbursement forms
3 in there. So make sure that you get those to Beth
4 and that way you can get your reimbursement.

5 Also, there's a photo release form.
6 We have a photographer from TVA who will be here. So
7 if each one of us will fill that out so we can use
8 your likeness in an appropriate video, then I think
9 that would be helpful.

10 And then looking at the agenda, we're
11 going to just follow the agenda as it's laid out
12 here. I will say that for the speakers, we have four
13 speakers that will be talking. I will be timing the
14 speakers and watching them and giving each one of the
15 speakers 20 minutes.

16 So in that 20-minute time what we
17 would like to have happen is the presenter presents
18 their material and then have any clarifying
19 questions, but I want to allow at least 20 minutes
20 for each one of them.

21 If it doesn't take 20 minutes, then
22 certainly we will have some Q&A at the very end. I
23 don't want to have one presenter get up and then we
24 take most of the time with Q&A and then the other
25 presenters don't have enough time to get through

1 their material. So I will be watching the time on
2 each presenter to make sure each one has at least 20
3 minutes.

4 Then when we get into a discussion or
5 if you have a question, what I would like for you to
6 do, if you don't care to, if you would put your card
7 up in this manner, that means you have a comment or a
8 statement to make, and then I will try to keep track
9 of who's next or whatever.

10 If you have a burning question,
11 certainly you can just jump in there anytime. At
12 least once today you can do that. Typically I want
13 to go in order of who had their card up first.

14 As far as the microphone, there are
15 two buttons on the microphone. The blue button, you
16 have to hold that button down if you're talking. So
17 if you had a quick comment you can hold it down. The
18 red button, you turn it on, but when you get done
19 talking you have to turn it off or we can still hear
20 what you're saying.

21 So with that I will turn it over to
22 Russell.

23 CHAIR RUSSELL TOWNSEND: Thank you,
24 Wilson, and thank you Council members for being here.
25 This is the seventh term. We have some new members

1 and we have some big issues to talk about this time.

2 I think this Council has always been a
3 very useful tool for TVA because they are able to
4 bring in a lot of diversity to get a lot of
5 viewpoints on certain issues before they even go to
6 the stakeholders. It really helps them make some
7 decisions.

8 Today we will be making some advisory
9 comments and tomorrow we're going to really look at
10 those questions and make some advisory comments for
11 TVA so that they can look at addressing this larger
12 overall issue.

13 For those of you who know me you know
14 I have never been afraid to speak out and let people
15 know what I'm thinking, but I have never ever been a
16 chairman of anything. They say a man's the king of
17 his castle. Well, my wife will tell you that that is
18 not true.

19 So this is going to be a big new
20 experience for me, and I am following in the
21 footsteps of Deb and Tom and they have done excellent
22 jobs as Chairmen and I hope that I do half as good a
23 job. I hope you will bear with me and be patient as
24 I get the hang of things for a little bit.

25 What I wanted to do is I wanted to

1 introduce the new members at this time. We have
2 several. Adam Kinser is a partner in the law firm of
3 Montgomery Kinser Law Offices based, excuse me y'all,
4 in Jonesville, Virginia. He previously worked as a
5 law clerk for the Honorable Glen M. Williams, U.S.
6 Federal District Judge in Western Virginia. He is a
7 member of the Lee County Bar Association, the
8 Virginia State Bar, the Virginia Trial Lawyers
9 Association, and the Virginia Indigent Defense
10 Association. So welcome to Adam.

11 We have Will Nelson, III, president
12 and CEO of Nelson Tractor Company, a farm equipment
13 dealership headquartered in Blairsville, Georgia.
14 Prior to joining the family firm, Nelson was
15 consultant for Dematteo Moness Research, an investing
16 firm, and was involved with several product
17 development groups, including Deere, Kubota, and New
18 Holland. Welcome, Will.

19 Gary Joiner, plant manager for CC
20 Metals & Alloys based in Calvert City, Kentucky.
21 Prior experience included working for Smith Coal,
22 also known as Lode Star Energy, a surface and
23 underground mining company, Martin Marietta
24 Materials, and other positions in the Ferro Alloy
25 industry. He serves on the board of Jackson Purchase

1 Energy.

2 We have Rhonda Rice, who I got to meet
3 last night at dinner. I enjoyed visiting with her.
4 She is the Executive Vice President of the Knoxville
5 Chamber executing daily operations of that
6 organization. She's serves on the Board of Directors
7 of the Historic Tennessee Theater Foundation, Tech
8 2020, and is a member of the Executive Women's
9 Association and a 2003 graduate of Leadership
10 Knoxville.

11 Brad Kreps, across the way, Director
12 of the Nature Conservancy's Clinch Valley Program
13 focused on the preservation and protection of 2,200
14 square miles of mountains and valleys in Southwest
15 Virginia and Northeast Tennessee. Prior to his
16 current position he managed the Nature Conservancy's
17 Warm Springs Mountain Preserve and conservation
18 partnerships across western Virginia's Allegheny
19 Highlands.

20 And finally, Gary Myers, Executive
21 Director of the Tennessee Wildlife Resource Agency,
22 but he is not here with us today, I understand. So
23 we will look forward to meeting him at the next
24 meeting.

25 Anything else that I need to do right

1 now?

2 FACILITATOR WILSON TAYLOR: No, sir.
3 Thank you, Russell for that introduction. Again,
4 welcome to the new members. It's good to see all the
5 past members again. So we will go right into our
6 next agenda item, which is a DFO briefing, which will
7 be Joe, Joe Hoagland, Kelly Love, and Kendra Mansur.
8 Kelly.

9 MS. KELLY LOVE: Good morning,
10 everyone. Is this on? My name is Kelly Love and I
11 am an attorney in TVA's Office of the General
12 Counsel. For the past few years I have been the
13 primary legal advisor for the Regional Resource
14 Stewardship Council and on this Council's governing
15 statute, the Federal Advisory Committee Act.

16 I would also like to introduce my
17 colleagues Kendra Mansur who is transitioning into
18 this work and whom you will see a lot more of over
19 the course of the seventh term and beyond.

20 This morning my task is to give you a
21 little bit of background on the Federal Advisory
22 Committee Act and the creation and operation of this
23 Council. For those of you who have been on the
24 Council before, I think a lot of this is going to be
25 information that you're already familiar with, but

1 since this is the first meeting of the new term and
2 we do have some new members on the Council we wanted
3 to make certain that everyone had a base level amount
4 of information and knowledge about the how's and
5 why's of the Council's functions.

6 In its most basic form an advisory
7 committee is simply a group of individuals who don't
8 work for a particular federal agency and who provides
9 that agency with outside expertise and advice.

10 Advisory committees have been around
11 since the time of George Washington who sought the
12 advice of such a committee during the Whiskey
13 Rebellion of 1794, but much of the growth of advisory
14 committees occurred after World War II.

15 Eventually with that growth Congress
16 became concerned about the operations of advisory
17 committees. One concern was the sheer proliferation
18 of committees. An investigation by a congressional
19 committee in 1970 estimated that there were possibly
20 as many as 3,200 interagency and advisory committees,
21 and that number might have been even larger because
22 many agencies were not even enable to say how many
23 advisory bodies they were dealing with.

24 Another concern was that special
25 interests had captured advisory committees and were

1 exerting undue influence on public programs in which
2 those groups had vested interests.

3 For example, the house discovered that
4 when the advisory council on federal reports
5 considered a national industrial waste inventory
6 questionnaire the Council met only with
7 representatives of industry. No representatives of
8 conservation, environment, consumer or other public
9 interest groups were present.

10 This lack of balance of representation
11 of different points of view was disconcerting.
12 Another concern was the lack of transparency and
13 accountability. In general, the meetings of these
14 many advisory committees were not public and it was
15 impossible to find accurate and complete records on
16 all of the committees.

17 Finally, the waste of federal funds
18 was, of course, of concern. The 1970 report
19 estimated that the annual cost of maintaining all of
20 these many bodies within the federal government was
21 approximately \$75 million.

22 So as a result of these concerns, in
23 1972 Congress passed the Federal Advisory Committee
24 Act which gave advisory committees much more
25 structure. Some of the key elements of that Act are,

1 first, public access. The meetings and records of
2 advisory committees are by default open to the public
3 and they can be closed only under one of the very
4 limited and specific exemptions in the Government and
5 Sunshine Act.

6 The agency is also required to give
7 timely public notice of the time and place of
8 meetings in order to ensure public access to the
9 deliberations of the committees.

10 Second, balanced membership, this
11 responds directly to the concern that advisory
12 committees reflected only the views of those special
13 interest groups, and it's thought balanced membership
14 leads to even handedness of the committee's advice.

15 Third, structured management. And
16 there are quite a few aspects of this, but I will
17 highlight just a couple of them quickly.

18 First, agencies must file charters for
19 advisory committee, and this means that there's a
20 record of each committee's existence and purpose.
21 Every charter expires two years from its creation and
22 must be proactively renewed by the agency. So this
23 hopefully prevents committees that have outlived
24 their usefulness from continuing to languish, and
25 obviously we find this Council to be very useful

1 since we have kept renewing it.

2 Third, the president must file reports
3 to Congress every year on the advisory committees
4 that were in existence during the previous year.

5 And finally, each meeting of an
6 advisory committee must be attended by the Designated
7 Federal Officer for that committee, which is a
8 federal employee selected by the agency. This
9 provides a bridge between the private sector
10 attendees and the agency.

11 So pursuant to the Federal Advisory
12 Committee Act TVA created the Regional Resource
13 Stewardship Council to provide advise on TVA's
14 stewardship activities and the priorities among
15 competing objectives and values.

16 The first term of the Council began in
17 February of 2000. TVA stewardship activities that
18 are within the scope of the Council include the
19 operation of TVA's dams and reservoirs, navigation
20 and flood control, the management of lands in TVA
21 custody, water quality, wildlife, and recreation.

22 The Council has provided advice to TVA
23 over the years on a number of topics and issues
24 related to these activities. For example, the
25 Council provided valuable input into TVA's integrated

1 management of the Tennessee River system, including
2 on TVA's reservoir operations policy.

3 The Council has also looked at TVA's
4 environmental policy, our aquatic plant management
5 policy, TVA's drought management strategy, our
6 recreation strategy, water quality and watershed
7 improvements activities, and TVA's land policy.

8 Most recently this group served as the
9 stakeholder review group for TVA's Natural Resource
10 Plan. That plan provides a strategy for TVA's
11 management of its natural resources focusing on six
12 different areas, biological resources, culture
13 resources, recreation management, water resources,
14 reservoir lands planning, and public engagement.

15 As the seventh term rolls on you will
16 no doubt hear a lot more about TVA's continued
17 implementation of the NRP, and this group remains an
18 important component of that plan and input into that
19 plan.

20 As I said earlier, each Council under
21 the Federal Advisory Committee Act must have a
22 charter. So on this slide I have highlighted just a
23 few of the key points from this Council's charter. I
24 believe that you have a copy of the full charter in
25 your notebooks as well as the bylaws and operating

1 procedures.

2 So as required by the statute the
3 Council provides advice only. TVA does remain the
4 decision-maker with respect to our natural resource
5 stewardship activities.

6 However, the advice of this Council is
7 very valuable to TVA. It's taken into consideration
8 by our management and it's regularly reported to the
9 board committee with responsibilities for natural
10 resource management.

11 The term of the Council is two years.
12 And as I said, we have been renewing this Council for
13 successive terms since its creation. We're now in
14 the seventh term, and that lasts from February 2013
15 to February 2015.

16 This Council typically meets
17 approximately twice per year. The charter requires
18 balanced and diverse membership and specifies the
19 various groups from which the members must come.

20 Of the 20 members of the Council the
21 charter requires seven members who are appointed by
22 each of the seven valley Governors, four
23 representatives of distributors of TVA power, and one
24 representative each of TVA's direct-serve customers,
25 TVA's navigation program, our flood control program,

1 a recreation interest, and an environmental interest.
2 Then TVA selects four additional at-large members to
3 round out the membership to ensure a broad range of
4 views on the Council.

5 The charter also provides that a
6 maximum of 14 members who served on the immediately
7 preceding term may serve on the next term of the
8 Council, and the thought behind that is that it helps
9 to ensure that fresh ideas are brought to the Council
10 every couple of years.

11 Now, I want to talk a little bit about
12 the mechanics of the Council's meetings. Joe
13 Hoagland, TVA's senior vice president of policy and
14 oversight, is the Designated Federal Officer for the
15 Council.

16 For the seventh term of the Council
17 TVA officially appointed an alternate DFO; and that
18 is, John Myers, the Director of Environmental Policy
19 and Regulatory Affairs.

20 The DFO or the alternate DFO is
21 responsible for attending all meetings of the
22 Council, ensuring public notice of the meetings,
23 preparing the agenda, and submitting issues for your
24 consideration, as well as a host of other activities
25 and tasks related to the Council's operations.

1 The required quorum for the meetings
2 is 11 voting members. The driving purpose behind
3 each of our meetings is for TVA staff to provide the
4 Council members with enough background information
5 concerning the natural resource stewardship issues
6 about which we're seeking your advice, and then, of
7 course, the primary deliverable resulting from each
8 meeting is the advice from the Council to TVA.

9 Any advice provided by the Council
10 requires the affirmative vote of at least a majority
11 of the members present at that meeting. And to that
12 end, the Council's discussions typically do drive
13 toward consensus on the advice to be given. However,
14 there is a mechanism in the charter for minority and
15 dissenting views to be reflected in the materials.

16 And as I stated earlier, one of the
17 key elements of the Federal Advisory Committee Act is
18 public meetings. So TVA does provide notice in the
19 Federal Register of all Council meetings. Interested
20 members of the public may attend the meetings and
21 sometimes do. Members of the public can file
22 statements with the Council, and if allowed by the
23 Chair, they may speak at the meetings.

24 As far as the role that you will all
25 be playing on the Council, at the risk of being

1 incredibly overly obvious, as you know, members of
2 the Council are not employees of TVA, and therefore,
3 Council members don't speak for TVA, but who you do
4 speak for is for your constituent group.

5 Each of the Council's members is
6 considered a representative of the group,
7 organization or other entity identified by TVA in
8 making your appointment to the Council. Of course,
9 it's also important in Council deliberations for you
10 to use your personal knowledge and experience because
11 although you do represent a constituent group, you
12 each come to the table with different individual
13 knowledge and experiences, as Russ said eloquently
14 earlier, and so I think we would all agree that the
15 most valuable advice is provided when everyone speaks
16 their mind and shares those diversity points.

17 Finally, and most importantly, we
18 thank you for your public service on the Regional
19 Resource Stewardship Council. The staff associated
20 with this Council has watched how this process has
21 worked over the last years. TVA management and the
22 TVA Board truly do appreciate your advice and take it
23 into account, it's important to us. So we appreciate
24 your willingness to serve and to provide that advice
25 on these very important TVA issues.

1 Any questions for me? Thank you.

2 FACILITATOR WILSON TAYLOR: Thanks,
3 Kelly.

4 Joe.

5 DFO JOE HOAGLAND: So as I mentioned
6 earlier, I do appreciate the — all of you being here
7 and taking the time out of your schedules to help TVA
8 with our — some of our challenges that we have
9 around our stewardship activity.

10 Those of you that don't know Kelly,
11 you should get to know her. I told somebody at
12 dinner last night that she's the one that keeps us
13 out of trouble. So she's always making sure that
14 we're doing things the right way and making sure we
15 follow the processes and procedures. So if you don't
16 — besides that she has good advice, too. So get to
17 know her.

18 Oh, I have the slide changer, don't I?
19 Okay. So this is the seventh term of

20 the Regional Resource Stewardship
21 Council. When we brought the charter up to our board
22 and said, you know, do we want to renew this for
23 another term, of course, our recommendation was that,
24 yes, we wanted to do that. We got a very resounding,
25 yes, we needed to do that, that they felt like it was

1 very important that the input that this Council has
2 given over the years on everything from our river
3 management plans and land plans for the recent NRP
4 has been very helpful.

5 For us it's incredibly interesting
6 because when we are in our offices in Knoxville or
7 Chattanooga or wherever we are and, you know, we
8 think about what an issue is and we think about what,
9 you know, we think people care about and what people
10 worry about and we get that all built up in our head
11 that, you know, this is the way it is and this is how
12 it works and this is what's important and what's not
13 important.

14 What I've found interesting is when we
15 bring all of that back to this Council and we put
16 that on the table and say that this is what we think
17 is important and this is where we think we need to go
18 and how we need to fix it, what do you-all think,
19 we're surprised in a number of instances where
20 you-all have said, oh, no, no, no, you need to worry
21 about this, not this.

22 And so I think one of the key
23 take-aways for us and the importance of this Council
24 is the fact that the perception sometimes we build up
25 in our office in Knoxville is not the reality of what

1 stakeholders care about in the Valley.

2 I have a physics issue. Okay. And
3 so, hence, the -- renewing this

4 for this term, I think, is very
5 important. Your input on how we deal with issues
6 going forward, I think, is very important.

7 The Board, in fact, has, because of
8 the success of this Council, at the board meeting we
9 held last week has approved us to start a new
10 advisory council called the Regional Energy Resource
11 Council which will focus on TVA's energy resources of
12 our portfolio for how we provide energy, how we do
13 things like renewables, how energy efficiency and
14 those kind of things play into it for the same kinds
15 of reasons as I just described here, to make sure
16 that we really are getting the views of what folks in
17 the Valley feel are really important in the
18 directions that we go in and how we get there.

19 I guess I have kind of covered the
20 second point there. The board really does appreciate
21 and use your input when we're thinking about
22 decisions that we're making. And we, as management,
23 appreciate that as well.

24 I believe it was the last Council
25 meeting where we talked about fees associated with

1 some of our campgrounds and marinas, you know, to be
2 openly honest we -- one of the conversations we had
3 when we built our perception in the towers in
4 Knoxville was that, you know, everybody would be
5 really upset if we raised our fees and that it would
6 not be a good thing.

7 Well, the advice we got from the
8 Council was, no, that the ratepayers shouldn't carry
9 that, that the folks involved in those kinds of
10 activities ought to cover that. That was not a view
11 that we thought would be well handled by our
12 constituents.

13 It turned out it's been very well
14 handled, it's been very well received as it's been
15 implemented, and it helped us a lot as we were
16 building the direction and policy that we wanted to
17 establish for that. So we really appreciate that
18 input.

19 For this year and as we get into this
20 Council I am trying really hard to get us into some
21 level of cadence so that you-all will have a little
22 bit of an expectation as to what you're going to see
23 in the springtime and what you will see in the fall.

24 Now, as I have learned over the years,
25 one problem with cadence is generally stuff happens

1 in between and so you can't always make cadence work,
2 but the goal we're going to try to shoot toward is in
3 the spring meetings we're going to talk about
4 reservoirs, we're going to talk about reservoir
5 operations and how those operate. Today's
6 conversation will focus on some of those issues.

7 In the fall from the input I think we
8 received at the last Council meeting we want to,
9 first of all, be sure you're up-to-date on the
10 progress that we're making around the Natural
11 Resource Plan and the direction it's heading and then
12 also talk about issues that we are seeing come up.

13 One of the things that I'm seeing as
14 we begin into this next term in the next few years
15 and challenges for TVA is that some of the work that
16 you-all have helped with over the years may begin to
17 recycle itself, right?

18 This Council now has been in existence
19 for, I think, 14 years, right?

20 And so some of the advice and the
21 decisions TVA made and policies that were put in
22 place a number of years ago are now beginning to kind
23 of maybe need some refreshing and looking at because
24 the world has changed so much. So I think you will
25 see as we go through the next couple of years that

1 we're going to begin to relook at some of those
2 things and how, you know, TVA implements that going
3 forward.

4 One thing I will mention here too that
5 I think is encouraging is our new CEO Bill Johnson,
6 he's been here 120 days or something like that now, I
7 think, and he's been going around the Valley and he's
8 been learning all about us, all about the
9 stakeholders, all about our customers, trying to
10 understand what we value, what the stakeholders
11 value, what our customers value, and how that needs
12 to play.

13 One thing that he came back with on
14 his own very quickly was TVA's core mission and that
15 TVA's core mission is not just being a power company
16 and it's not just providing low cost, reliable power
17 to the Valley. For our customers sitting back here,
18 don't get me wrong, that's still a No. 1 priority,
19 but he also realizes that we're broader than that and
20 that we have a bigger responsibility to the Valley.

21 Now, going back to that low-rate,
22 affordable electricity, the fact that we don't get
23 any appropriations, how we balance those other
24 activities against those rates is in his mind the
25 biggest challenge, but it's very important that we

1 continue to do those activities and do them well.

2 So I think you will see from us as we
3 move forward a bigger focus or refocus on some of
4 those activities and trying to be creative about how
5 we fund those and make sure that they stay.

6 And, in fact, today's topic is going
7 to be somewhat about that subject, how we continue to
8 make sure that we have funds available to do
9 important stewardship activities for the Valley.

10 So at the bottom I have two bullets.
11 It says to engage, open, honest, and clear views. I
12 have not seen anybody in here that's been shy about
13 an opinion. So I don't know that those bullets are
14 terribly important to remind everybody, but there are
15 some new folks on the Council and it is very helpful
16 for us to really understand your opinions and
17 positions.

18 So I would ask that as we go through
19 whatever discussion we're having, if you disagree, if
20 you have a different view, please get it out on the
21 table. I think it's often those different views that
22 make us pause and think about what we're doing and
23 how we're doing it, and in many cases over the years
24 it's been a situation in which we have backed up or
25 we have changed some of our thinking because of some

1 of those views. So it's very important to me and to
2 all of us that we get that.

3 On the back table over here we have
4 got a whole lot -- it kind of looks like a
5 congressional staff room when I look back over here,
6 but these are all folks that work in stewardship
7 areas. The information and the input that they get
8 is very helpful on how we begin to structure some of
9 our things.

10 Also, up here on the front row I want
11 to recognize -- we have got four individuals, we will
12 introduce them officially in a moment, but from our
13 colleagues at Fish & Wildlife, TWRA, Georgia, and TVA
14 that are going to be talking to us about our topic
15 today and giving you a perspective of how we have
16 done trout management over the years. We appreciate
17 them being here and their willingness to help support
18 this meeting because I think this is a great
19 opportunity.

20 I am going to stop there for a minute
21 because -- before we go into the topic, but does
22 anybody have questions?

23 No questions. Great. So we're like
24 way ahead, Wilson?

25 FACILITATOR WILSON TAYLOR: Keep

1 moving.

2 DFO JOE HOAGLAND: Keep moving. All
3 right. So let me introduce the topic for today that
4 we want to get into.

5 Historically TVA Fish & Wildlife
6 Service and the states in the Valley have worked to
7 create a fish -- a healthy fish environment. And
8 with that, we have also worked with a number of
9 hatcheries to create fisheries within the Valley that
10 folks can enjoy different kinds of fish.

11 We have done warm water and we have
12 done cold water. Now, cold water is not typically
13 something that you would think about being down here
14 in the southeast, but the fact that we have put the
15 dams in and created the impoundments, the water that
16 comes out from underneath those dams during the
17 summertime is much cooler than what you would see
18 coming off of the surface.

19 The result is that the tailwaters of
20 those dams, because of their cool nature, allows for
21 cool water fish to grow, specifically trout. We have
22 worked with the agencies over the years to provide an
23 environment and to provide fish for folks to enjoy
24 and to fish and take out of the stream, and the end
25 result has been a fairly robust industry that has

1 built up across different locations in the Valley
2 over the years.

3 Well, as time has gone on the ability
4 to fund those activities has become more and more of
5 a challenge. You-all are aware with, you know, TVA,
6 as we have lost appropriations, we still work very
7 hard every year. We will talk about today on how we
8 work to make sure the environments are healthy above
9 and below all of impoundment structures.

10 As Fish & Wildlife, which they will
11 talk about today, their budgetary constraints are
12 getting harder and harder every year. You know, for
13 fear of stepping off into the politically incorrect
14 world, you know, the things going on in Washington
15 aren't making much sense in some ways. So trying to
16 resolve how you deal with some of those funding
17 issues is becoming more and more of a challenge.

18 The states have both worked very hard
19 to create the environment and create the needed fish
20 available, but they have their challenges as well.
21 Where we found ourselves as the organizations working
22 together, and at least from my perspective, is that
23 trying every year to figure out, how are we going to
24 find next year's funding, is becoming more and more
25 difficult and more and more challenging.

1 And for the fish themselves, you know,
2 the fish don't much care where the money comes from
3 or what date the money gets assigned, they have to be
4 grown and they have to be grown in a certain order,
5 right?

6 And so for them to wait for Congress
7 to decide, okay, we're going to pass a budget or
8 we're going to -- you know, it doesn't work for the
9 fish, they don't care.

10 So we -- us organizations have gotten
11 together and started working with one another to try
12 to figure out, how do we come up with a sustainable
13 mechanism for providing this resource over the
14 long-term that at least maybe to some degree lessens
15 our need to worry about an impact on things going on
16 in Washington that allows TVA to continue to do the
17 activities that we need to do but, you know, keeping
18 in mind that all of that gets passed through to the
19 ratepayers. The same with the states, their
20 budgetary may not be as insane as Washington, but
21 they have still have their challenges.

22 So what we really want to do this
23 morning is to let each agency talk about what they
24 do, how they do it, how it creates the environment
25 and the resource that's available for folks, and then

1 talk to you about the challenges that we're seeing
2 going forward. Then we really want to seek your
3 input and advice on the direction in which you think
4 we ought to proceed to try to find a solution to
5 this.

6 You know, solutions can be very wide
7 ranging, right? They can go everything from -- you
8 know, we all go back up to Washington and somehow
9 force them to give us money, not a high probability,
10 I don't think, but it's an option, all the way over
11 to the other side of, well, okay, if you're the
12 person doing the fishing, then you pay for the fish,
13 right? That also is probably not, in itself, a
14 practical solution, but it's kind of at another
15 extreme.

16 We're trying to figure out what makes
17 best sense for everybody. So we really would like
18 your advice on how we do that. We have four specific
19 questions that you can see here, they are in your
20 book if you can't read those, that we would like
21 advice on.

22 I think, Wilson, correct me if I am
23 wrong, but we will actually address these
24 specifically tomorrow.

25 FACILITATOR WILSON TAYLOR: That's

1 correct.

2 DFO JOE HOAGLAND: But to give you an
3 idea of what we're looking for and asking for, this
4 will give you a chance to think about that through
5 the conversations today. I am going to stop there
6 and see if there's questions or comments.

7 Okay. If not, how would you like to
8 proceed?

9 FACILITATOR WILSON TAYLOR: What I
10 would like to do now, Joe, if we could go ahead with
11 our presenters. So we're a little bit ahead of time.
12 So we'll just keep rolling on the agenda.

13 So do you want to introduce the
14 speakers or do you want them to introduce themselves?

15 DFO JOE HOAGLAND: Are you first?
16 Linda is first. Sorry. I don't have the agenda up
17 here. There we go right there.

18 So, Linda, I will let her give her
19 background. She's with the U.S. Fish & Wildlife
20 Service. She's going to kick off the conversation
21 and about what's being done.

22 I think we're taking a break, Wilson.

23 CHAIR RUSSELL TOWNSEND: Why don't we
24 go ahead and hold for just a second while people
25 refill their coffee cups and then we will get going

1 again. I don't think this is our official break,
2 this is just to refill coffee, danishes, that type of
3 thing.

4 If the Council would please come back
5 to order, I think we're ready to begin again. I hope
6 everybody has some coffee and some danishes, but we
7 need to get going back with the schedule now.

8 Before we start with our speakers
9 formally, one thing Beth provided for us that I think
10 it's important to share with you-all is some of the
11 topics that the Council has dealt with over the --
12 over its history.

13 During the first term the Council was
14 very busy. They dealt with integrated management of
15 the Tennessee river system, Reservoir Operation
16 Study, management of public lands, aquatic plant
17 management policy, water quality monitoring,
18 watershed improvement process, reservoir releases
19 improvement, transmission line rights-of-way
20 maintenance, policies, and practices, navigation
21 responsibilities, and the issues on the Tennessee
22 River system, biodiversity in the Tennessee River
23 system.

24 During the second term the Council
25 dealt with issues consisting of management of public

1 reservoir lands, watershed wide partnership regarding
2 water quality and quantity, recreation, including
3 trends, strategy, and an overarching program, public
4 involvement in integrated management of the Tennessee
5 River system.

6 During the third term the Council
7 dealt with public lands management, lands planning,
8 maintain and gain, balance issues, a draft for
9 recreation strategy, infrastructure stewardship and
10 emergency preparedness and coordination efforts, and
11 a TVA land policy.

12 The fourth term Council dealt with
13 drought management policy and communications,
14 environmental policy focused on land and water
15 stewardship perspectives, stewardship compliance,
16 recreation, recreation strategy and dispersed
17 recreation.

18 The fifth term included recreation,
19 natural resource and/or recreation management
20 activities, commercial recreation, prioritization of
21 stewardship activities, and a Natural Resource Plan,
22 which included prioritization, criteria for success,
23 flagship ideas, economic valuations, and guiding
24 principles.

25 In the sixth term the Council dealt

1 with the Natural Resource Plan, including funding
2 challenges, benefits, resolutions, and recommending
3 the NRP to TVA's Board, floating structures and
4 non-navigable houseboats, that was an interesting
5 one, partnership for stewardship activities,
6 including foundation ideas, and Section 26(a) permit
7 application fees.

8 We're just starting the seventh term,
9 and we're going to be talking today about sport
10 fishing and trout hatcheries. And with that, I am
11 going to turn it over to someone to introduce our
12 speakers this morning.

13 FACILITATOR WILSON TAYLOR: Okay. I
14 think Kelly Love helped pull this list together. So
15 thank Kelly for this great list of what we have done
16 in the past. So we will go right to our speakers.

17 MS. LINDA KELSEY: Good morning,
18 everyone. I am Linda Kelsey, and I work with the
19 U.S. Fish & Wildlife Service. I am the Assistant
20 Regional Director over the fisheries program for the
21 Southeast Region, and that includes ten states.

22 So I just want to kind of give you a
23 brief overview of what's the role of our agency in
24 regards to the topic that we're here to discuss the
25 next two days. I just want to start with giving you

1 what is the overall mission of our agency; and that
2 is, to work with others to conserve, protect, and
3 enhance fish wildlife and plants and their habitats
4 for the continuing benefit of the American people,
5 which is what our agency is all about.

6 Then within our fisheries program we
7 also have a specific mission; and that is, working
8 with partners to restore and maintain fish and other
9 aquatic resources at self-sustaining levels and to
10 support federal mitigation programs for the benefit
11 of the American public.

12 Some background on this particular
13 issue is that we -- when these national fish
14 hatcheries were constructed and money was
15 appropriated to us by Congress, there was no specific
16 statutory obligation or court action ordering the
17 Fish & Wildlife Service to produce and stock trout.

18 It was implied when Congress actually
19 appropriated the money to the agency to construct the
20 facilities and then to operate the facilities. So we
21 have been doing that since 1965. Since then we have
22 stocked over 1,000,000 fish a year for 14 different
23 TVA water development projects in the southeast
24 region. When I say no statutory obligations, that is
25 in regard to the TVA facilities or water projects.

1 In the southeast region we have six
2 cold water hatcheries, one of which is a broodstock
3 facility which actually produces the eggs that are
4 shipped not only here in the southeast but shipped
5 all over the country. It's part of the national
6 broodstock program of the fisheries program.

7 We also have in the southeast region
8 seven warm water hatcheries. As Joe told you, the
9 difference between the warm water and the cold water
10 is the nature of the fish that we produce and the
11 habitat types that they live in.

12 We also have a regional fisheries
13 center in Warm Springs, Georgia that includes an
14 additional hatchery, a fish health center, and a fish
15 technology center.

16 Then we currently have two other
17 hatcheries that are off line right now and not
18 operating, but they are still our property and our
19 facilities.

20 Then in addition to the hatchery
21 system, we have eight other field offices, Fish &
22 Wildlife Conservation offices scattered around the
23 ten states in the southeast region. All total I
24 think we have roughly about 120 employees that cover
25 all of this for us for the southeast region.

1 So I want to focus on the facilities
2 that are involved in the TVA stocking if you're not
3 aware of some of them already. One is Dale Hollow,
4 that is in Celina, Tennessee. That was opened in
5 1966. Its original mission when it was constructed
6 and the money obligation was to mitigate the impacts
7 of federal water development projects in Tennessee
8 and Kentucky.

9 At that facility 60 percent of its
10 production is for the TVA related projects. Annually
11 Dale Hollow produces 944,000 fish, roughly 180,700
12 pounds a year. It's one of our larger facilities.

13 Chattahoochee Forest National Fish
14 Hatchery in Suches, Georgia was opened in 1939. Its
15 original mission was to restore and enhance
16 recreational fisheries within the Chattahoochee
17 Forest National Forest.

18 They own -- 7 percent of their
19 production is related to TVA facilities. The
20 majority of the production work that they do is for
21 Corps of Engineers' facilities in the southeast, but
22 they do contribute to TVA facilities. Of that 7
23 percent that equates to about 77,560 fish yearly and
24 over 8,000 pounds.

25 Then the other facility is Erwin

1 National Fish Hatchery in Tennessee. This one was
2 opened in 1897. It's well over 100 years old. We
3 have quite a few hatcheries in the system that are
4 over 100 years old.

5 Its original mission was to produce
6 trout and other fish species for Tennessee waters.
7 It is, as I mentioned earlier, this is the broodstock
8 facility that produces eggs. They don't produce fish
9 for stocking. Annually they produce almost a million
10 eggs a year related to TVA.

11 Then we have roughly a 1,000 fish, 100
12 pounds that are basically spent broodstock. We're
13 done using them for spawning purposes and we usually
14 stock those out. They tend to be the trophy fish
15 that the states like to get because they are
16 obviously really big fish.

17 Then as I mentioned earlier we have
18 the Health Center in Warm Springs, Georgia. The
19 services they provide is the disease diagnostic
20 services for the TVA production fish even though they
21 are not producing the fish themselves.

22 I know all of you are well aware of
23 the benefits of trout stocking in the southeast as
24 was discussed earlier. We had worked with our
25 economists in the Washington office and they had done

1 a study in 2010, which is noted at the bottom,
2 because we wanted them to do an updated evaluation of
3 the economic benefit of the work that the Services
4 Fisheries Program does and all that it does, whether
5 it be trout production or doing fish passage or
6 habitat work. So that's where these numbers come
7 from.

8 I have copies of some materials that
9 Beth is going to make available to you after we speak
10 that gives -- it's not that actual document. It's
11 sort of the public version of it. Anyway, you will
12 see it. There's a web site link and all of that.

13 Anyway, from that study it was
14 determined that the -- in the southeast region and
15 the trout stocking portion of our program that it
16 equates to 444,000 angler days a year from the fish
17 that we produce at our facilities.

18 As you know, it's a major economic
19 driver for state, local, and regional economies. The
20 total economic output is \$45 million, and we've
21 determined it generates 504 jobs a year. Wage and
22 salary income, 13 million a year. For each dollar,
23 each of those federal dollars that we spend to
24 produce trout, it is associated with almost \$73 in
25 economic output. So that's a 73-to-1 return on that

1 investment of that one federal dollar. Big business.

2 It's often been said if this -- if you
3 had -- this would be better than a Fortune 500
4 company if you had that kind of return on the
5 investment of your funds.

6 So to do the stocking we meet annually
7 with the states in Tennessee and Georgia to develop
8 our distribution schedules for the fish. We meet
9 annually to agree upon, you know, how many fish, how
10 big a fish, how big do they want them, the weights
11 they are looking for, where the stocking locations
12 are.

13 It's important to note here that the
14 states have the management authority over the water.
15 That is not the authority of the Fish & Wildlife
16 Service. The states have the lead for all
17 recreational fishing and use of the state waters.

18 And this is -- we stock in 14
19 different locations. These are the locations. Some
20 of them you may be aware of. I will just run through
21 them really quickly. We have at the Apalachia
22 Tailwater in Tennessee; Blue Ridge in Georgia;
23 Cherokee in Tennessee; Fort Patrick Henry tailwaters;
24 Patrick Henry Reservoir; the Normandy tailwater in
25 Tennessee; Norris tailwater here. Well, actually

1 we're in Alabama. Sorry about that. Parksville
2 Reservoir in Tennessee; South Holston tailwater in
3 Tennessee; Tellico Reservoir, Tellico State Fish
4 Hatchery; Tims Ford Reservoir in Tennessee; Watauga
5 Reservoir in Tennessee, and Wilbur Reservoir in
6 Tennessee.

7 We also have an agreement with the
8 State of Tennessee where they provide us with funds
9 and we produce for them an additional 100,000 pounds
10 of trout that are also stocked in the state waters.

11 In total the cold water species that
12 we stock are predominantly rainbow trout, which is 76
13 percent, and that's followed by brown trout, brook
14 trout, and lake trout.

15 As was mentioned earlier by Joe, you
16 know, we are stocking these trout in these areas
17 because the native warm water and cool water fish,
18 like small mouth bass and large mouth bass, were
19 eliminated by the cold water discharges from the
20 reservoirs. If not for us stocking these cold water
21 fish, there would not likely be any fish there to
22 catch at all.

23 This is kind of the issue that kind of
24 is bringing us all together. It basically comes down
25 to the costs of operating these facilities. The

1 service has been directed for many years now by the
2 Office of Management and Budget, which is part of the
3 administration.

4 We have been given directives from
5 Congress when they have appropriated our funds. We
6 have been given advisement to that effect from our
7 FACA group, which is the Sport Fishing and Boating
8 Partnership Council. It's a FACA group to the
9 Department of Interior that we work with.

10 All of these groups have instructed
11 the Fish & Wildlife Service to seek the full cost
12 reimbursement for the operation and maintenance of
13 these facilities that support trout production for
14 federal water projects.

15 We have also -- as Joe mentioned,
16 there are budget shortfalls occurring in our agency
17 as well. Our agency is also in the process of
18 undergoing a new review of the entire national fish
19 hatchery system, and that has not been released yet.
20 That will be coming out sometime in May, and you
21 certainly will be given a copy of that.

22 Within that review the agency itself
23 is also looking at the future role of the fisheries
24 program and what kinds of activities are we doing now
25 and what kinds of activities should we be doing in

1 the future, and this topic is certainly rolled up in
2 there.

3 So that's been the driver for why we
4 have been -- starting next year that if we are not
5 reimbursed -- well, actually starting this year,
6 excuse me, fiscal year '13, that if we are not
7 provided the funding to produce those fish and
8 operate those hatcheries from those federal water
9 development agencies we no longer will be doing that
10 work. For here in the southeast, the Corps and TVA
11 are the predominant folks that we work with on those
12 types of issues.

13 We have made agreements with the Corps
14 of Engineers as recently as 2010. So they have
15 started repaying the agency, the Fish & Wildlife
16 Service, for the work that we do.

17 We also out in the west, predominantly
18 the Bureau of Reclamation and Bonneville Power
19 Administration, already have agreements in place
20 where they pay the Fish & Wildlife Service to produce
21 fish to mitigate for the impacts of their federal
22 water projects.

23 So we have been talking with TVA and
24 they have graciously offered to provide funding for
25 us for the next three years. In the meantime if --

1 during that three-year period we're going to work
2 together with both TVA, TWRA, Georgia DNR, and folks
3 like you around this table to try to find a permanent
4 source of funding for this issue.

5 Again, our agency has been directed,
6 and it's very clear from our director on down, that
7 we will only continue this work if we're fully
8 reimbursed. So it's really imperative that we're
9 able to come to some agreement on this issue.

10 So with that, I would like to open it
11 up for any questions folks might have. I am here all
12 day today and then tomorrow. So I can -- anytime
13 off-line if you want to speak with me, I am here for
14 that as well.

15 FACILITATOR WILSON TAYLOR: Phil.

16 MR. PHIL HAZLE: How much is your
17 Agency's budget?

18 MS. LINDA KELSEY: The fisheries
19 program budget for the southeast region is roughly
20 about \$14,000.

21 MR. PHIL HAZLE: How much?

22 MS. LINDA KELSEY: I'm sorry.
23 \$14,000,000 for Fish & Wildlife Service for the
24 fisheries program for the southeast region.

25 MR. PHIL HAZLE: And that's ten

1 states?

2 MS. LINDA KELSEY: Yes, \$14,000,000.

3 MR. PHIL HAZLE: \$14,000,000.

4 MS. LINDA KELSEY: It's varied from
5 year-to-year when we get Congressional adds. That's
6 sort of a ballpark.

7 FACILITATOR WILSON TAYLOR: So let's
8 make sure we talk into the mics each time.

9 Brad.

10 MR. BRAD KREPS: Okay. The numbers
11 you provided as far as the economic benefits, was
12 that specific to trout or was that more broadly the
13 economic benefits of fishery?

14 MS. LINDA KELSEY: No, that was for
15 trout production in the southeast region.

16 MR. BRAD KREPS: Do you have any feel
17 for the economic benefits of warm water fisheries
18 versus the cold water fisheries?

19 MS. LINDA KELSEY: We do. They are in
20 that report. I don't have that report with me. So I
21 don't want to quote a number, but it's significantly
22 less because those facilities aren't producing to the
23 same degree a production program.

24 Those programs are more involved in
25 restoration and recovery work of imperiled species.

1 So they are not producing on the same number for an,
2 you know, economic return, but they certainly have an
3 economic return. The two economists had equated that
4 or valued that for us. So I can get you copies to
5 that report that speak to the actual numbers.

6 CHAIR RUSSELL TOWNSEND: Ma'am, you
7 offered an interesting point, that if it wasn't for
8 these trout that are released in these cold waters
9 the natural fish, the non and invasive fish like the
10 large and small mouth bass, would be absent.

11 Can you speak to the impacts to the
12 environment of these rivers rather than the economic
13 benefit associated with fishing if the trout were to
14 be absent from these rivers?

15 MS. LINDA KELSEY: That would be hard
16 to say. It would almost be the opposite of the
17 economic benefit that's provided because they're
18 there. I'm not sure I understand your question.

19 If we were not producing those trout,
20 those economic benefits would not be accrued.

21 CHAIR RUSSELL TOWNSEND: I'm sorry. I
22 misled you. I am not at all interested in economics.

23 MS. LINDA KELSEY: Oh, okay. I'm
24 sorry.

25 CHAIR RUSSELL TOWNSEND: I'm not

1 remotely interested in economics.

2 MS. LINDA KELSEY: So you're --

3 CHAIR RUSSELL TOWNSEND: I am
4 interested -- I can't even balance my checkbook. I
5 am interested in the environmental impacts. If
6 rainbow trout, which is an invasive species in these
7 waters, if they were absent from the upper regions of
8 the Clinch River, for instance, what would be the
9 overarching negative impacts to the environment, not
10 the economies?

11 MS. LINDA KELSEY: There would
12 basically be very little, if any, aquatic wildlife in
13 those cold waters because they are not native to this
14 part of the southeast. We have no species that are
15 conducive to those cold waters.

16 FACILITATOR WILSON TAYLOR: Mark
17 Iverson.

18 MR. MARK IVERSON: Thanks for your
19 presentation. That was very good. The economic
20 study shows that \$73 for every dollar invested. I am
21 assuming that report identifies the parties that gain
22 benefit from that?

23 MS. LINDA KELSEY: Yes. It's pretty
24 much -- it's angler days and then they also looked at
25 services, and that could be anything from bait and

1 tackle shops, the local hotels, gas stations, the
2 restaurants where these activities are taking place.

3 I must say, this was a peer reviewed
4 journal. It has a lot of respect and approval from
5 other economists that also try to get a dollar value
6 on natural resources, which it's not as easy a topic
7 as some other kinds of economic valuation. It's peer
8 reviewed and it's pretty rigorous of an analysis.

9 MR. MARK IVERSON: And outside of
10 their, I guess, income tax they pay and sales tax,
11 they don't have any contribution stream that they
12 particularly fund this type of program?

13 The little bait and tackle shops, for
14 example, do they -- they don't have the means by
15 which they can support these programs?

16 MS. LINDA KELSEY: Not directly, no.
17 No. It's an indirect.

18 MR. MARK IVERSON: Thank you.

19 FACILITATOR WILSON TAYLOR: Tom.

20 MR. TOM LITTLEPAGE: Yeah. Thank you
21 for that presentation. I guess I do have a passing
22 interest in the economics and I am trying to
23 understand. I guess my perception on this talk is
24 that you're in a transition period where the funding
25 sources are -- somebody is going to have to come up

1 with some dollars. You indicated your expenditures
2 are around 14,000,000 but you're getting some
3 dollars.

4 MS. LINDA KELSEY: Actually, the
5 14,000,000 was for the entire fishing program. The
6 hatchery piece is a component of that.

7 MR. TOM LITTLEPAGE: So I guess I am
8 just trying to get a scope of what is the amount that
9 you're looking to try to figure out how to generate
10 either through some state contributions or other
11 party --

12 MS. LINDA KELSEY: The dollar amount
13 to operate the facilities associated with the TVA
14 production in the southeast region is close to \$1
15 million a year.

16 MR. TOM LITTLEPAGE: A million a year?

17 MS. LINDA KELSEY: Right. We have
18 determined for this year the current value is
19 \$906,101 annual operating costs for the TVA related
20 production.

21 MR. TOM LITTLEPAGE: And at this point
22 are you getting anything from the states?

23 MS. LINDA KELSEY: No. We have been
24 provided the funding from Congress, and next year
25 there will be no -- there is no funding in the

1 services budget to do that work any longer. We have
2 funding for this year. We are operating for the rest
3 of this fiscal year, but come October 1 we will not
4 be producing any more TVA trout.

5 MR. TOM LITTLEPAGE: Thanks.

6 FACILITATOR WILSON TAYLOR: Phil.

7 MR. PHIL HAZLE: Do we currently have
8 a federal trout stamp?

9 MS. LINDA KELSEY: Yes. I believe
10 there is a federal -- isn't there? No. It's just
11 the states. I'm sorry. Each state has them. No,
12 there is no federal trout.

13 MR. PHIL HAZLE: Okay.

14 FACILITATOR WILSON TAYLOR: Avis.

15 MS. AVIS KENNEDY: Phil got part of my
16 question there. So trout stamp money all goes to the
17 states. Okay. Wallop-Breaux Act funds, which I
18 believe are from a tax on fishing equipment.

19 MS. LINDA KELSEY: License, tackle,
20 yes.

21 MS. AVIS KENNEDY: Does any of that go
22 to support of Fish & Wildlife's fishery programs?

23 MS. LINDA KELSEY: No. That money is
24 through formulas provided back to the states for
25 their work with Fish & Wildlife.

1 MS. AVIS KENNEDY: Okay.

2 MS. LINDA KELSEY: Wallop-Breaux,
3 that's the fish restoration portion.

4 MS. AVIS KENNEDY: Thank you.

5 FACILITATOR WILSON TAYLOR: Jack.

6 MR. JACK SIMMONS: Good morning.

7 Several of my questions have already been answered,
8 but I did have a couple of others.

9 You mentioned the roughly million
10 dollars a year for the costs for providing the
11 stocking support for the TVA-related facilities and
12 then you also talked about TVA providing the funding
13 for the next three fiscal years.

14 Is that a partial funding or a total
15 funding of that?

16 MS. LINDA KELSEY: Total funding.

17 MR. JACK SIMMONS: Okay. And so there
18 is an expiration on that time period?

19 MS. LINDA KELSEY: Yes.

20 MR. JACK SIMMONS: Which leads me back
21 to one of the other questions that was addressed
22 earlier about the reduction in federal support of
23 some of these programs. I'm assuming that, for
24 instance, that 900,000 was actually funded through
25 federal dollars or some mechanism or combination of

1 federal dollars previous to this, correct?

2 MS. LINDA KELSEY: It was. When
3 congress put that -- the money was actually taken out
4 of our base operations, if you will, when our
5 President's budget was produced last year. Congress
6 was very unhappy about that. So they put money back
7 in to cover the costs of doing this type of work.
8 Our budget for next year, the President's budget that
9 was just released a couple of weeks ago, yet again,
10 the money to produce this work is not in our budget.

11 MR. JACK SIMMONS: What's the history
12 of -- and I think you mentioned how long you have
13 been doing these programs, but has there been total
14 or full federal support previous to this up to this
15 point?

16 MS. LINDA KELSEY: Yes. Up until 2010
17 the agency fully funded these operations.

18 MR. JACK SIMMONS: And when did that
19 start?

20 MS. LINDA KELSEY: When did it start?

21 MR. JACK SIMMONS: Yeah. When did you
22 begin getting the federal funding for the projects?

23 MS. LINDA KELSEY: As late as 1965,
24 yeah, depending on which facility.

25 MR. JACK SIMMONS: So it's been a

1 long-standing federally funded program?

2 MS. LINDA KELSEY: Yes, absolutely.

3 MR. JACK SIMMONS: Just during the
4 recent discussions with fiscal budget issues in
5 Washington this -- you've kind of been a casualty of
6 that?

7 MS. LINDA KELSEY: Well, that's a
8 small portion of it. I mean, we have been directed
9 to move in this way for -- since 2010. So, I mean,
10 that's when we were actually directed, when the money
11 was taken out of our budget.

12 Prior to that we were given directives
13 from O&B and Congress and others that said, Fish &
14 Wildlife Service, you need to get out of this
15 business. You need to seek reimbursement for this
16 work and not cover it with your own funds and use
17 your funds to focus on other high priority fishery
18 issues.

19 MR. JACK SIMMONS: Okay. And being a
20 federal entity, this is not just a Tennessee Valley
21 issue, it's really a nationwide issue, correct?

22 MS. LINDA KELSEY: Yes. As I
23 mentioned earlier, Bonneville Power and Corps of
24 Engineers and Bureau of Reclamations are the other
25 agencies that we're working with on this issue.

1 MR. JACK SIMMONS: Is there a
2 difference on those because I know there they have
3 got the migratory issues on fish versus here where
4 ours is not necessarily migratory issues as much as
5 just the tailwater impacts.

6 MS. LINDA KELSEY: Right. And the
7 reason for that is the dams that were built here in
8 the southeast are really old often times. As I told
9 you, Erwin is over 100 years old.

10 A lot of the dams in the west were
11 built much later. When they were constructed there
12 was statutory language associated with the
13 construction of those dams that said that you will
14 produce fish and you will provide X amount of dollars
15 to the agency every year.

16 Here in the southeast we didn't have
17 that kind of, you know, absolute statutory language
18 that was implied when Congress provided us the
19 funding to construct the dam and produce the fish.

20 MR. JACK SIMMONS: But is there a
21 difference on how the migratory issue is considered
22 or mitigated versus here where it's just stocking of
23 the tailwater?

24 MS. LINDA KELSEY: I'm not sure I
25 understand your question. We were stocking there as

1 well.

2 MR. JACK SIMMONS: It seems to me
3 there's a -- the migratory issue is a different issue
4 in my mind?

5 MS. LINDA KELSEY: Oh, migratory. I
6 thought you said mandatory.

7 MR. JACK SIMMONS: Migratory. The
8 dams in the northwest, for instance, you have got the
9 migratory pattern that's been interrupted here.

10 MS. LINDA KELSEY: Yes.

11 MR. JACK SIMMONS: I'm not sure that's
12 -- maybe I am wrong, I don't know, but I am not sure
13 that's as big of an issue here in the southeast.

14 MS. LINDA KELSEY: No, it's not.
15 That's a totally different issue because they are
16 migratory. Now many of those runs of salmon have
17 since been listed as endangered, you know, federally
18 endangered. So, yeah, they have to do all kinds of
19 other additional management plans associated with
20 producing those trout because of that very nature.

21 Ours we stock annually because the
22 fish don't live. I mean, we might get a couple of
23 volunteers or survivors that might, but they are not
24 a self-sustaining population here in the southeast
25 which is why we stock every year.

1 The ones that are stocked in the west,
2 I mean, a lot of those or some of those, I don't know
3 the numbers, I am not a salmon person, you know, but
4 they do get returns on some of those fish. So it's
5 an entirely different issue basically.

6 MR. JACK SIMMONS: Yeah. And I think
7 that's an important point here, that this is a
8 put-and-take type of fishery.

9 MS. LINDA KELSEY: Yes, it is.

10 MR. JACK SIMMONS: So it's not a
11 sustainable thing to where you're putting this
12 population in and they are continuing to grow?

13 MS. LINDA KELSEY: Correct.

14 MR. JACK SIMMONS: Thank you.

15 FACILITATOR WILSON TAYLOR: Phil.

16 MR. PHIL HAZLE: Has your agency been
17 working with Trout Unlimited any?

18 MS. LINDA KELSEY: We work with Trout
19 Unlimited as one of our major partners. We have done
20 work -- actually we're doing work with restoring
21 Appalachian brook trout in the southeast and we have
22 worked with them as a partner. But as far as any
23 kind of direct funding from them for this issue, no,
24 no. We have worked with them jointly on other types
25 of restoration projects for trout habitat.

1 MR. PHIL HAZLE: Thank you.

2 FACILITATOR WILSON TAYLOR: Well,
3 other questions for Linda?

4 Thanks, Linda.

5 MS. LINDA KELSEY: Sure. Thank you.

6 MR. FRANK FISS: My name is Frank
7 Fiss. I am with the Tennessee Wildlife Resources
8 Agency. For those of you that may not know our
9 agency, we are a -- we are supported by our hunters
10 and fishermen. They pay a license fee and they also
11 pay taxes when they purchase fishing and hunting
12 supplies, and that comes back to us in Wallop-Breaux
13 federal dollars. We are supported by our fishermen.

14 Among our missions is to manage
15 fisheries in these tailwaters. So we have a very
16 keen interest in this topic.

17 This is Norris Dam. It's typical
18 impoundment that its primary use is for flood control
19 and for hydropower, and that's when the dam was built
20 and that's still the primary use today. The fishing
21 activity that's going on below these dams are
22 secondary uses in comparison.

23 When this dam, for example, was built
24 there was a warm water fish community down there that
25 provided some fisheries for local anglers and

1 probably across the region. It might have been small
2 mouth bass, walleye, species like that that would
3 produce naturally every year. They would require
4 very little management on the part of our agency to
5 maintain those fisheries.

6 With the cold water releases that come
7 in the summertime, tailwaters like this one cannot
8 support trout or can only support cold water species.
9 That is why early on a decision was made to stock
10 trout in these waters, and that's why it continues
11 today because the dam's still is in place and it's
12 still primarily being used for flood control and
13 power and we're trying to replace the fishery that is
14 there.

15 Why stock trout? There's thousands of
16 species of fish out there we maybe could stock if we
17 had the technology. Trout has hundreds of years of
18 animal husbandry behind them. We know how to raise
19 trout to big sizes to stock them in an economical
20 fashion, and that's why trout is the species of
21 choice here. They also have some native connection
22 in that there are native brook trout in Tennessee.
23 These fish are raised very easily at hatcheries and
24 they survive in these tailwaters.

25 Just to give you an idea of the

1 localities that are affected by this decision or the
2 problem that we're talking about, it ranges from down
3 in Franklin County on the Elk River all the way up to
4 the tip and say South Holston Dam. So there's a lot
5 of localities affected by this decision.

6 You see up on the very top where it
7 says Clay County, that's where Dale Hollow National
8 Fish hatchery is. It serves all of those waters. I
9 guess we couldn't have put it in a worse spot. Those
10 guys drive 14 hours a day to sometimes service these
11 places, but that hatchery is built at the base of
12 Dale Hollow Dam where they get their cold water
13 supply. We have got five reservoirs that are stocked
14 with trout and nine tailwaters throughout the state.

15 Just a quick overview of the kind of
16 -- I want to give you a feel for the magnitude of the
17 program and what kinds of things we're doing. We
18 stock rainbow, brown trout, and brook trout.

19 Rainbow trout in the tailwaters are by
20 far our bread and butter species. We're stocking
21 hundreds of thousands of those. This represents
22 stocking by Dale Hollow, the U.S. Fish & Wildlife
23 Hatchery, and our Tennessee Wildlife Resources
24 hatcheries.

25 There's a rainbow trout. Again, they

1 — these are stocked throughout the year. We don't
2 just drop all of the fish in at one time. We put
3 them out over the months. Rainbow trout are stocked
4 in small sizes and in large sizes.

5 Brown trout are typically stocked only
6 once a year or maybe twice a year depending on the
7 management strategy for that river. The brown trout
8 are neat because they can get really big. The
9 rainbow trout might only get to about 16 inches.
10 These fish are getting up to 26 or 30 inches in some
11 places. So they are the real trophy. We add them in
12 to add that extra element to drive up the economic
13 value of these rivers.

14 Likewise, brook trout are stocked in a
15 few TVA locations because there's local interest in
16 brook trout. We don't do a lot of that though.

17 Just to give you a view of what these
18 tailwaters look like. They are -- by Tennessee
19 standards, they are larger rivers. They are places
20 where you really have to -- you can wade around and
21 fish in them if the water is off. We really
22 appreciate, whoever it is here at TVA that we need to
23 thank for the app that tells us when the water is
24 coming on and off, that has been a great service, I
25 mean, just from safety and for trip planning. I

1 mean, you can actually plan your day and your week
2 sometimes with that device.

3 So, anyway, these guys are out there.
4 They are making trips. The access on the rivers are
5 typically looking at about 10 miles of river below
6 these dams on average in Tennessee that have trout
7 fishing. There might be a half dozen access points.

8 So another way to fish it is by boat
9 when the water is on or by putting a canoe in while
10 the water is off. Here's the Elk River tailwater on
11 a weekday. It's not too crowded today.

12 Here's the Hiwassee River. It's
13 commonly floated in drift boats and gets lots of
14 attention from those kind of fishermen.

15 Our reservoir fisheries are pretty
16 unique to be able to catch lake trout and trout this
17 far south. We attract people from North Carolina,
18 and of course, Tennesseans that like to go out
19 down-rigging on a summer day and catch big trout.

20 The rainbow trout that we put in these
21 reservoirs, we will stock them at like 9 inches and
22 they will grow almost an inch a month for a few
23 months. It's faster than we can grow them in our
24 hatcheries to produce pretty big fish pretty quickly.

25 The rainbow trout typically top out

1 around 20 inches or so. Then the lake trout on the
2 right there, those fish can get really big. That's
3 probably one of the bigger ones that I have seen.
4 They are supposed to be getting bigger. That's our
5 chief of fisheries, Bobby Wilson, who finally caught
6 a fish.

7 Anyway, that's our stocking schedule
8 for all of the reservoirs that are in the state. You
9 see we stock a lot of lake trout, but those are -- by
10 cost they are probably cheaper because we stock them
11 in a lot smaller size. It's a little more detail
12 than we probably need.

13 So where do all of these trout come
14 from?

15 A majority of these fish are coming
16 from Dale Hollow National Fish Hatchery, which was
17 established to produce these trout for federal water
18 development projects.

19 In the late '80s about the time when
20 that Wallop-Breaux funding became available to the
21 states, Dale Hollow National Fish Hatchery was
22 expanded using TWRA's money and basically added about
23 50 -- there was two series of raceways. This project
24 added a third series of raceways. So it expanded by
25 about 50 percent.

1 That agreement to operate those
2 raceways is still in effect and will be until, I
3 think, 2025 or something. We pay the Fish & Wildlife
4 Service \$100,000 a year to produce 100,000 pounds of
5 fish out of those -- out of that series of raceways.

6 As it turns out, a lot of those fish
7 have been going -- we could stock them anywhere, but
8 we have been stocking a lot of them in TVA and Corps
9 of Engineers projects because that's where we have
10 our biggest demand from fishermen to go out and catch
11 fish.

12 In a typical year when we're talking
13 about TVA waters only, it's something like 75 to 80
14 percent of the fish are coming from Fish & Wildlife
15 Service hatcheries. Tennessee Wildlife is stocking
16 the other fish at a cost of about 140,000 a year.

17 Like I said, in addition to some
18 portion of that 100,000 pounds that we pay for at
19 Dale Hollow is also distributed to TVA waters. The
20 accounting on those fish is -- I didn't want to
21 figure out what they were spending on it. So just
22 know there's some more costs that we put into that
23 contract that is in addition to that 140,000 a year.
24 So sportsmen already are paying for this problem.

25 Another point I want to make is that

1 we talk about -- I heard somebody ask about the
2 ecological functions of these rivers, you know, the
3 work that TVA has done through this reservoir release
4 improvement and lake improvement plan, that's a
5 little before my time, but I came on as a trout
6 biologist right when the benefits from this plan were
7 coming to fruition. This plan addressed minimum
8 flows and oxygen, which are -- which were totally
9 limiting these systems, and we saw the same thing in
10 the Corps of Engineers systems.

11 Great work. I mean, this has been
12 really helpful for us. We don't have to stock as
13 many fish as we would have to otherwise because the
14 water quality is so good. So we really appreciate
15 that.

16 You know, a lot of money and a lot of
17 capital investment went into making these fixes, I'm
18 sure, at TVA and would hate to see the bottom fall
19 out of it because we can't put the fish in.

20 There have been other keys to success.
21 You know, we have got water quality, TVA has handled
22 that. Access, Tennessee Wildlife has bought some
23 access areas. TVA manages good access areas.

24 Tennessee Wildlife has paid for
25 research to figure out how many people are using

1 these rivers. We did one economic evaluation of our
2 own. These rivers are some of the best and can be
3 worth up to \$2 million a year annually. Some of the
4 less traveled ones in the hundreds of thousands.

5 We have provided those data on use to
6 Dr. Jim Caudle at the Fish & Wildlife Service so he
7 could build the total economic output for these
8 rivers. Of course, our agency does the management,
9 but I think this program has been a great success,
10 one of our favorites within the agency.

11 It's been popular among anglers. This
12 is a group of fishermen no doubt coming in from out
13 of town. They have hired two guides to float the
14 Watauga River. There's no telling how much money
15 they spent on this trip. I mean, that's the high end
16 of a fishing trip.

17 So it's not a surprise to me that we
18 get the economic output out of the dollars spent on
19 trout that we see. We get tens to 20,000 trips a
20 year at these tailwaters. We can't bank all of
21 those. This only happens if we keep up what we have
22 been doing.

23 So part of this presentation was to
24 talk about TWRA's perspective on this issue of what
25 if the Fish & Wildlife Service can only get funding

1 from someone else to provide fish for the federal
2 government the way we see it.

3 Our perspective is that the stocking
4 of these federally owned and managed water
5 development projects should rely with the primary
6 user; and that is, the people that are operating the
7 water development project.

8 What will we be able to do if that
9 funding is cut? So it's not total elimination of
10 stocking. I wanted to tell you what we are able to
11 react and provide for fishermen. Certainly stocking
12 will be reduced. Let's talk about that.

13 Well, why can't we just get the fish
14 somewhere else? This histogram here shows Dale
15 Hollow Fish Hatchery on the far left and our four
16 state trout hatcheries in blue. You can see that
17 Dale Hollow makes up like 50 percent of everything we
18 do in trout in Tennessee. We are inextricably tied
19 to Dale Hollow and the Fish & Wildlife Service as a
20 state agency.

21 If you gave us more money or anybody
22 gave us more money to make more fish at maybe any of
23 these locations, we couldn't do it. We're limited by
24 the amount of water we have at these sites. So they
25 are already maxed out.

1 We have -- in the last few years on
2 our hatcheries we have gotten that last little bit of
3 production out of it by adding oxygen systems and
4 improving the water connections. So we're already
5 limited.

6 This red bar on the far right is
7 150,000 pounds of fish that our staff identified we
8 needed in the state to provide the best fisheries,
9 and we did this analysis, I don't know, like eight
10 years ago. It was a long time ago and we already
11 recognized the need for more fish. So it's not like
12 we have extra fish that we can just stock in TVA
13 waters.

14 Here's how -- this pie chart is all
15 public waters in the state that are stocked. It's
16 about 550,000 pounds. You will see TVA is a pretty
17 good chunk of that.

18 Next comes going clockwise USACE's
19 Corps of Engineers, we can't take their fish and put
20 them in TVA waters. They are already paying for
21 their fish.

22 Brookfield, Great Smoky Mountain
23 Hydro, is the private company that we work with in
24 the state. They pay us for us to stock Calderwood
25 and Chilhowee Reservoirs for mitigation purposes, and

1 that was worked out in their FERC relicensing. So we
2 can't use those fish.

3 The rest of the pie chart is our
4 smaller stocking trips that we do to these little
5 creeks all across the state. We only stock a few
6 hundred to maybe a few thousand fish in these
7 locations. If we were to start taking fish from
8 those areas to cover the tailwaters and the
9 reservoirs that require so many fish, we would have
10 to cancel lots of locations.

11 So we can't -- we don't want to have
12 that much damage across the state. We want to keep
13 the damage in the bigger waters where the problem is.
14 So that's been our management as we go forward here.

15 What we can do, as I mentioned, we
16 already have maxed our capacity at our hatcheries.
17 So we are trying to do the best we can with what we
18 have. We want to fill this gap as much as possible
19 because we recognize the value of these waters, and
20 that has added like 20,000 pounds of capacity to the
21 system.

22 The other thing we have done is we
23 have looked at the 100,000 pound contract that we
24 have. We have some discretion on where those fish
25 are stocked and what species they are. We recognize

1 the value of lake trout and brown trout, and brook
2 trout to some degree, at Dale Hollow because they are
3 the only -- that's the only hatchery in the state
4 that can even raise lake trout and brown trout for a
5 variety of husbandry reasons. So we're relying on
6 them and we're going to ask them to continue
7 producing all of those fish.

8 Then the -- some of the other -- so
9 whatever is left over in that 100,000 you're also
10 moving towards fingerlings for particularly probably
11 the Clinch River and some of the other tailwaters
12 that get fingerling trout.

13 So in a sense the only change that
14 will happen under the current scenario where the
15 funding is cut for TVA waters, we would be cutting
16 only the 9-inch rainbow trout that's stocked, but we
17 would be cutting it by 45 percent.

18 So the people that are interested in
19 those recently stocked fish, which are often people
20 that are more novice anglers who are kind of
21 following the hatchery truck and that kind of thing,
22 the people that want to know when the fish are
23 stocked, they are going to notice it because their
24 catch rates are going to probably be cut in half.
25 That is where the impact will occur.

1 What is this going to mean? We're
2 going to have reduced fishing success. Some anglers
3 are going to be unsatisfied. Going back to the
4 fishing success, I do want to point out that because
5 of water quality improvements in some of the
6 tailwaters that the impact is not going to be widely
7 — the same across the board.

8 We're going to have a much bigger
9 impact on the Elk River than we will at the South
10 Holston where for whatever reason the water quality
11 is just right on the South Holston where we have
12 natural reproducing brown trout. So that's a great
13 thing up there. The people that want to see the
14 rainbow trout coming are still going to be a little
15 upset, but that reduced fishing success will vary
16 across the Valley.

17 Whether or not fishing catch rates
18 change, people will still be upset just by
19 perception. We are familiar with that experience.
20 We had anticipated a reduced number of trips which
21 could reduce license sales for the agency, which is
22 our only funding source. And as a result, we're
23 going to have reduced spending and tax revenue across
24 the Valley.

25 So what solutions would TWRA like to

1 see happen?

2 You know, again, we see this as a
3 federal responsibility. How that comes to be, maybe
4 the working group can figure that out, but that's the
5 starting point we would like to start at. We feel
6 like the sportsmen have already paid plenty at this
7 point, and we want to have something for the future
8 on these rivers.

9 So that concludes my presentation.

10 FACILITATOR WILSON TAYLOR: Phil.

11 MR. PHIL HAZLE: Thank you for your
12 presentation. I have got a couple of questions.

13 FACILITATOR WILSON TAYLOR: Make sure
14 you use the microphones, please.

15 MR. PHIL HAZLE: How many trout stamps
16 do y'all sell in Tennessee?

17 MR. FRANK FISS: We — you know, we
18 have a comprehensive license now that is a sportsman
19 license where you buy all of your licenses at one
20 time, including the trout stamp, and I don't know how
21 many of those we have. So that hurts me here.

22 We generally sell in the 65,000 range
23 of the one-time trout stamp, but that doesn't count
24 people that come in and buy non-resident one-, two-,
25 three- or one-, three- or ten-day licenses that would

1 also include trout.

2 So it's really hard. As a trout
3 coordinator I used to get that question all the time
4 from our commissioners and I pulled my hair out
5 trying to figure it out. It's a really crude way of
6 figuring out how many people are fishing for trout.

7 We do have other surveys that say
8 there's about 150,000 resident anglers over 16 in
9 Tennessee that are fishing for trout.

10 MR. PHIL HAZLE: How much does a trout
11 stamp cost in Tennessee?

12 MR. FRANK FISS: \$12, maybe 12 to 18.
13 I'm sorry. I bought one. I can pull my wallet out
14 and find out, but it's in that ballpark.

15 MR. PHIL HAZLE: Around \$12?

16 MR. FRANK FISS: Yes, it's around \$12.

17 MR. PHIL HAZLE: How long does the
18 rainbow trout live in the tailwater when you put them
19 in?

20 MR. FRANK FISS: It depends on the
21 tailwaters. We have our best success -- I will give
22 you the success stories. The Clinch River where we
23 can stock a fingerling rainbow trout, a short fish at
24 high numbers, cheap to raise at the hatchery, they
25 come out by the hundreds of thousands, a lot of them

1 die, that's okay because they are cheap, they went in
2 small and there's lots of them, but we have learned
3 that those fish will grow and they are a majority of
4 the, quote, adult fish in that river and are from
5 that short fish stocking. So those fish have lived
6 at least a year or two.

7 We have fish that are quality fish
8 that will by luck or by survival, however you want to
9 call it, that will live two or three years. That's
10 in good habitat like we have at a lot of your TVA
11 waters.

12 We have other rivers that -- I would
13 say to pick on -- well, even a 9-inch rainbow trout
14 that is stocked in marginally good habitat, say, on
15 the Elk River, we're measuring their survival in
16 days. Most of those fish are out of the system in
17 three months. A few of them hang on. We do see some
18 carryover fish, but it takes a lot of fish in and
19 some luck to get some of those bigger fish in some of
20 our waters.

21 MR. PHIL HAZLE: If it weren't for the
22 TVA dams, how many streams would sustain the fish?

23 MR. FRANK FISS: Well, I think all of
24 them would sustain fish. I mean, there would be warm
25 water fisheries for -- I mean, you can go to other

1 parts of the country where there's fabulous fisheries
2 for small mouth bass where there's guides and all
3 kinds of economic boom, you know, associated with it,
4 but they are naturally reproducing. So I think you
5 could see that on these rivers today if there weren't
6 dams on them.

7 MR. PHIL HAZLE: Okay. Rainbow trout.

8 MR. FRANK FISS: Well, if you want
9 rainbow trout, they are a western species. They
10 would not be native to Tennessee. They were stocked
11 in the mountains. They would only be at those
12 elevations above what, like 2,500 over in the
13 mountains.

14 MR. PHIL HAZLE: I guess what my
15 question is: Would a rainbow trout live in the
16 Tennessee rivers if it weren't for the dams producing
17 the cold water?

18 MR. FRANK FISS: Not in the places
19 that we're talking about today, no. They would just
20 be in the mountains.

21 MR. PHIL HAZLE: Okay.

22 FACILITATOR WILSON TAYLOR: Mitch.

23 MR. MITCH JONES: Your 65,000 count,
24 can you remind me what that represents again?

25 MR. FRANK FISS: 65?

1 MR. MITCH JONES: 65,000. There was a
2 point that you made, that's trout stamps?

3 MR. FRANK FISS: Yeah. Again, that's
4 — that is people that bought one of four or five
5 license types that would let them fish for trout. So
6 don't think of that as a holistic count of trout
7 fishermen, that's all I am cautioning you on.

8 MR. MITCH JONES: Okay.

9 MR. FRANK FISS: That's a minimum
10 number.

11 MR. MITCH JONES: That's a minimum
12 number. In essence, the trout stamp that you have is
13 \$18?

14 MR. FRANK FISS: It was 18. Okay.
15 Thank you.

16 MR. MITCH JONES: At 65,000 stamps,
17 that's a conservative number.

18 MR. FRANK FISS: That's a low number.
19 It's a low number if you're trying to — I don't know
20 what our goal here is. To count trout anglers, then
21 it's a low number, yes.

22 MR. MITCH JONES: That's 1,170,000 in
23 revenue just off that stamp annually. Would that be
24 safe?

25 MR. FRANK FISS: Yeah.

1 MR. MITCH JONES: Do you want me to
2 ask the question differently?

3 MR. FRANK FISS: I don't hear a
4 question.

5 MR. MITCH JONES: Would it be safe to
6 say that you have 65,000 trout stamps in the State of
7 Tennessee?

8 MR. FRANK FISS: Yes.

9 MR. MITCH JONES: At an average cost
10 of \$18 a stamp for \$1,170,000 on my handy-dandy
11 calculator, is that accurate?

12 MR. FRANK FISS: I guess so.

13 MR. MITCH JONES: Thank you.

14 FACILITATOR WILSON TAYLOR: Will.

15 MR. WILL NELSON: Could you give a
16 brief overview of your trout season, the length of
17 it? Do you have size limits and quantity limits? I
18 am familiar with Georgia, but Tennessee I am not
19 familiar with.

20 MR. FRANK FISS: We're lucky that we
21 can allow people to fish year-around for trout in
22 Tennessee. There are no closed seasons, per se. We
23 do have times of years when we stock trout and times
24 when we don't, and a lot of people like to coincide
25 their fishing to when we're stocking.

1 Obviously, trout fishing kind of picks
2 up in March, it actually peaks in July on some of
3 these tailwaters because people want to get out to
4 those cool areas. Then it winds down again in the
5 fall, but you could still go out and fish just any
6 day you wanted.

7 And the regulations, we require seven
8 fish creek limit is the most liberal creel we have.
9 We have other areas that have tighter regulations.

10 In order to manage these fisheries for
11 a very diverse set of fishermen, it's -- we have got
12 people who want to catch just trophy fish. We have
13 got people that just want to fly fish. We have
14 regulations to try to accommodate a lot of that by
15 having slot limits and minimum size limits and such.

16 MR. WILL NELSON: Thank you. You
17 mentioned earlier that some fish may not last three
18 months, is that due to them being caught or
19 mortality?

20 MR. FRANK FISS: A lot of that is what
21 we would call natural mortality or not fishing
22 mortality, yeah. They are not well equipped for the
23 system when they come out of the hatchery being in
24 the hatchery 12 to 16 months, and that's why it would
25 be a lot cheaper if we could let a bunch go at one

1 time. That natural mortality is working every day.
2 So we know that. So we keep them alive in the
3 hatchery and we put them out every week to two to
4 three weeks depending on the location, and that way
5 we don't get hit that much of that natural mortality
6 because they are not out in nature.

7 CHAIR RUSSELL TOWNSEND: If there are
8 no other questions, I think what we want to do is to
9 step outside on the balcony before it rains and get a
10 picture of the Council, and then I would like us to
11 take a ten-minute break following that. So let's
12 take 20, but the first thing we want to do is get
13 that picture.

14 (Brief recess.)

15 CHAIR RUSSELL TOWNSEND: By all means,
16 when you're speaking get that microphone close to you
17 so our court reporter can take down all of your
18 genius. Thank you.

19 MR. JOHN BIAGI: I would like to thank
20 the Council and TVA for inviting me to speak on this
21 important issue. You have got a great background
22 from the Fish & Wildlife Service on the scope of
23 their program and the impacts that they're facing
24 with the lack of funding from Congress and the
25 President's budget and the need to get the

1 responsible agencies I think might be a term that
2 they have used to help fund the mitigation trout
3 stocking programs that they have been conducting for
4 years.

5 Then you heard from Frank and how big
6 a scale it is to the State of Tennessee. Georgia is
7 a much smaller scale for us. There's only three TVA
8 reservoirs in Georgia, and only one of them has this
9 kind of altered flow regime below the dam.

10 Really, I think it's important to say
11 that the native fish don't exist in the river below
12 these dams when they are that cold. So if there's
13 not something put in there, there's not something
14 there. So it's basically a degraded habitat that
15 doesn't support native aquatic wildlife.

16 And over the years, as Frank really
17 described well, trout has been selected because it's
18 easily produced. You can grow it to a size that an
19 angler can catch and keep and take home and feed it
20 to their family and generate a recreational activity
21 that would be there with other species if the dam
22 wasn't designed the way it was and operated how it
23 was.

24 So, again, in this case in Georgia the
25 only project we have relative to this issue is Lake

1 Blue Ridge, and Lake Blue Ridge Dam was constructed I
2 think in the '30s on the Toccoa River and the
3 tailwater or the water coming out of the dam flows
4 about 15 miles until it hits the Tennessee line where
5 apparently Tennessee doesn't like the word Toccoa and
6 then they call it the Ocoee River. So a little
7 change there for folks out of state.

8 To TVA's credit, they have had a
9 conscientious resource stewardship approach and in
10 the '90s made improvements at the dam, and those
11 included oxygen injection in the forebay which
12 resulted in improved oxygen downstream of the project
13 and put in a minimum flow generator that keeps
14 continuous flow out of the dam.

15 Before they turn the generators on
16 water comes up, and then when they stop producing
17 power they'd turn it off and there would be no water
18 coming out of the dam except for leakage. That's
19 really hard on aquatic resources. So in '95 they put
20 in that minimum flow generator. So there's always
21 water coming out of the dam, and that's had huge
22 effects on the fishery below.

23 In this case it's really allowed the
24 trout fishery to develop into a renowned trophy trout
25 fishery that's generated interest from across the

1 southeast really. We maintain this fishery just the
2 same way Frank described. We stock regularly or the
3 Fish & Wildlife Service I should say stocks regularly
4 in this tailwater a few fish at a time, you know, a
5 1,000, 2,000 every two weeks.

6 Some of the same issues that we
7 discussed before occur or are in play here. The
8 trout that are stocked in this tailwater last in the
9 order of months, you know, three months, four months
10 before natural things happen, which typically is
11 something furry like an otter or something with
12 feathers like a great blue heron but something eats
13 these fish and they are not in the system long-term.
14 So to maintain the recreational fishery we have to
15 stock on a regular basis to keep those fish going.

16 Obviously from the pictures I showed
17 you, some of these fish wise up, get acclimated, find
18 someplace to live, and find something to eat and grow
19 to much larger sizes.

20 We have got a five-year stocking
21 history up on the screen here. Just to give you an
22 idea of the scale we're talking about, you know, this
23 coming season we're requested from the Fish &
24 Wildlife Service that 26,000 catchable trout be
25 stocked.

1 We also request fingerling stockings
2 go in this river also. I don't have those numbers,
3 but when I say fingerling that's about a 3- to 4-inch
4 trout. When I say catchable it's the same as
5 Tennessee's, it's 9-inch trout. Most anglers feel
6 satisfied with catching a fish that large.

7 You also note, and I have got some
8 asterisks up there, in 2010 and 2011 the numbers are
9 higher. Well, leading up to that the Tennessee
10 Valley Authority was doing dam rehabilitation work.
11 So they had to draw the reservoir way down and do
12 much needed repair work, which was certainly
13 understandable, and in doing so during the summertime
14 warm water was released out of the dam which, you
15 know, obviously is what's supposed to be there in
16 this river system, but because it had been changed to
17 a cold water fishery and it was supporting the trout
18 fishery it really knocked back that trout population.

19 One thing I have learned in my career
20 as a fishery biologist and a fish chief is that when
21 things are bad and when fishing is bad you hear from
22 anglers, and the anglers went crazy complaining about
23 the loss of that trout fishery.

24 So we worked with the Fish & Wildlife
25 Service to scrounge up any and all trout we could to

1 try to supplementary stock that tailwater to build
2 that trout population back up. We got a bump in it
3 in the fall. We stocked during the off season when
4 we normally don't stock to try to recover it.

5 Anglers got quiet for a little bit,
6 but the numbers still didn't fully recover. So the
7 next year we stocked extra fish again, and now they
8 have been quiet again. So we feel pretty good that
9 we have helped recover that population back to its
10 former status prior to the rehabilitation work.

11 Now, I believe the dam is coming up or
12 the lake is coming up and we should not have to worry
13 about any more of those warm water events causing the
14 problems.

15 Just a little background on Georgia's
16 trout program, we operate three trout hatcheries in
17 the state. Two of these facilities raised --
18 primarily raise our 9-inch trout. The third facility
19 primarily raises the fingerlings that we utilize in
20 addition to the fingerlings we receive from the
21 national fish hatchery system.

22 The important thing to note is that
23 the cost for raising or operating a hatchery is
24 pretty -- much of it is fixed cost. So if you want
25 to raise one trout at Buford Trout Hatchery, it's

1 going to cost you 3 to \$400,000. If you want to
2 raise 450,000 trout, it's not going to cost much more
3 than that.

4 So by definition we are already
5 operating our facilities at maximum efficiency and
6 maximum capacity to lower our overall operating costs
7 and cost per fish.

8 Chattahoochee National Fish Hatchery
9 in Georgia, we -- TVA is only one of the tailwaters
10 we deal with to mitigate. The other two tailwaters
11 is Lake Lanier's tailwater in Atlanta, which is a
12 Corps of Engineers' project, and Lake Hartwell, which
13 is also a Corps of Engineers' project.

14 As Linda already said, the Corps of
15 Engineers has been paying for the production of those
16 fish. So those fish -- those tailwater fisheries
17 continue to be stocked.

18 I don't -- you have been hearing
19 economic. I don't have any direct economics on the
20 Toccoa River Tailwater Fishery, but we did recently
21 complete a research project on the trout fishery and
22 part of that included information on the anglers that
23 fish the river. So I thought I would mention some of
24 that.

25 This is really -- because it's become

1 a renowned trophy fishery is more of an
2 out-of-towner-type fishery, bringing in people from
3 other parts of the area. We used a 30-mile radius,
4 which I live in Atlanta and that's a drive to the
5 grocery store. In the mountains that's a one-hour
6 drive. So it's a long way to get 30 miles in the
7 mountains. So nearly 60 percent of the anglers are
8 coming from outside a 30-mile range and 25 percent of
9 those anglers are from Metro Atlanta coming up to the
10 mountains into the TVA area.

11 And interestingly, I thought, was
12 while Tennessee and North Carolina are big in
13 out-of-state anglers on the river, Florida is the
14 second most common non-resident fishing for Toccoa
15 River. So folks are driving a long way to come and
16 fish this resource.

17 Then finally I just wanted to talk
18 about, you know, the basis for federal
19 responsibility. As Linda said, the Fish & Wildlife
20 Service has assumed that federal responsibility and
21 has done such since 1976 on this river. Although,
22 they did start stocking in the early '60s, they
23 didn't continuously stock it until 1976 and have done
24 so ever since.

25 They formalized that federal

1 responsibility in agreements with the State of
2 Georgia and have been a great partnership to maintain
3 this fishery. The states are now kind of stuck in a
4 catch-22, they are being told by their partner that
5 they can't afford to pay for it anymore and they
6 wanted the power companies that operate the
7 facilities that change the water quality to step up.

8 It's my understanding that all of the
9 other power companies have agreed to pay the cost for
10 these stockings in the tailwaters across Georgia and
11 across the southeast and the U.S., and I am very
12 gratified that TVA has agreed to pay at least for
13 three years while we try to work out an applicable
14 solution to this long-term funding issue.

15 With that, I will be happy to take any
16 questions.

17 FACILITATOR WILSON TAYLOR: Phil.

18 MR. PHIL HAZLE: How much do y'all's
19 trout stamp cost?

20 MR. JOHN BIAGI: \$5.

21 MR. PHIL HAZLE: How many do you sell?

22 MR. JOHN BIAGI: Just straight trout
23 stamps, about 90,000.

24 MR. PHIL HAZLE: Is your agency funded
25 by the sportsmen as Kentucky and Tennessee are?

1 MR. JOHN BIAGI: We sell fishing
2 license that help cover the costs of our operations,
3 in addition to receiving federal funds like Tennessee
4 and Kentucky and the other states.

5 I think the important thing to note is
6 that at least in this issue, you know, the user, the
7 Tennessee Valley Authority, is taking or utilizing a
8 public trust resource, which is the water in the
9 State of Georgia, and altering it in a way that does
10 not necessarily continue to support aquatic life.

11 And while you may not fall under the
12 Clean Water Act responsibilities TVA, as I have
13 already mentioned, has actually led the country in
14 dealing with these water quality issues and Clean
15 Water Act-type things.

16 The sportsmen and women that fund our
17 agency pay us to make fishing available for them in
18 future generations but to -- I know you're not asking
19 the question should they subsidize the ratepayers by
20 improving the fishery resources below a dam that's
21 degrading that resource, but it sounds like that's
22 where you may be going, at least as one solution.
23 While, yes, they do pay fees and pay our agency to
24 operate and manage those fishery resources, I'm not
25 sure we believe that they are responsible in this

1 case for that resource.

2 MR. PHIL HAZLE: Does your state
3 legislature appropriate money for your agency?

4 MR. JOHN BIAGI: Yes.

5 MR. PHIL HAZLE: And how many sites do
6 you have that you supply fish for TVA projects?

7 MR. JOHN BIAGI: One. Oh, that our
8 state agency?

9 MR. PHIL HAZLE: Yes.

10 MR. JOHN BIAGI: Zero.

11 MR. PHIL HAZLE: Thank you.

12 FACILITATOR WILSON TAYLOR: Mitch.

13 MR. MITCH JONES: The \$5 per tag that
14 you receive, does it go -- where does that go?

15 MR. JOHN BIAGI: Into the fishery
16 section budget to produce trout.

17 MR. MITCH JONES: So it's appropriated
18 specifically?

19 MR. JOHN BIAGI: No. It just comes to
20 our budget.

21 MR. MITCH JONES: Help me follow the
22 math for just a second. I come and buy a tag for \$5,
23 \$18 in the State of Tennessee.

24 MR. JOHN BIAGI: Which is probably the
25 highest in the country?

1 MR. MITCH JONES: The 18?

2 MR. JOHN BIAGI: Uh-huh.

3 MR. MITCH JONES: So that \$5 goes into
4 your operating fund and you're asking the utility to
5 foot the cost to stock it?

6 MR. JOHN BIAGI: The \$5 goes to run
7 our three trout hatcheries that raise 900,000 trout
8 that are stocked across the State of Georgia and
9 about 4,000 miles of trout streams.

10 The Fish & Wildlife Service has been
11 stocking these mitigation tailwaters for the State of
12 Georgia. So Georgia has not invested money in those
13 tailwater stockings.

14 MR. MITCH JONES: Okay.

15 FACILITATOR WILSON TAYLOR: Will.

16 MR. WILL NELSON: And I guess really
17 this question really could go to both state's
18 representatives. If we're talking stocking the
19 tailwaters, who is stocking the water above the lake?
20 I know on the Toccoa River that river is stocked,
21 who's paying for that stocking?

22 MR. JOHN BIAGI: We do.

23 FACILITATOR WILSON TAYLOR: So Georgia
24 is paying for the stocking above the lake, TVA is --
25 you're asking TVA to pay for it below the lake?

1 MR. JOHN BIAGI: The Fish & Wildlife
2 Service is asking TVA.

3 FACILITATOR WILSON TAYLOR: Fish &
4 Wildlife Service. Okay. Thank you.

5 Jason.

6 MR. JASON YARBROUGH: Good morning. I
7 am Jason Yarbrough. I manage TVA's aquatic
8 monitoring program. I would just like to say thank
9 you for letting me come and share a little time with
10 you and give you a little information. I appreciate
11 this opportunity.

12 TVA has a pretty big challenge in
13 balancing the demands of all of our residents and
14 happenings of the Tennessee Valley. When the TVA Act
15 was initially enacted, the main focus areas were on
16 flood control, navigation, and then low cost power
17 production.

18 As you may have noticed in the late
19 winter, early spring rains that we had, flood control
20 is still pretty much one of our main focuses.
21 Keeping the channels open for cargo coming up and
22 down the river to supply our industries is still very
23 important. We're still trying to achieve low cost
24 power production, but with the power production you
25 have got an increase in inhabitants over the Valley

1 in the years. So having a clean and readily
2 available water supply for those inhabitants and the
3 industries had also become one of our main focus
4 areas.

5 Well, when you bring in more people
6 living on our shorelines they want to have some
7 recreational activities associated with our
8 reservoirs and streams. So that's become yet another
9 one of our focus areas.

10 With all of the wonderful resources
11 that we have, being a good steward of those in recent
12 years, recent for me 10, 20 years, has really popped
13 up on the radar.

14 So to give you a little bit of
15 overview of the vast size of the Tennessee River
16 Valley, the light tan or ecru color is the TVA
17 watershed and then the darker tan is our power
18 service area.

19 We have dams all over this seven-state
20 area. Most of the dams are multi-purpose dams. They
21 are used for water supply. They are used for
22 electric power generation, for flood control, for
23 recreational releases.

24 Behind those dams you have got our
25 reservoirs. We have got approximately 650,000 acres

1 of reservoirs behind those dams. They are warm
2 water, cold water, a mixture of habitats.

3 Also in the Valley we have got -- this
4 number encompasses all of the -- even the tiny
5 streams, 42,000 miles of rivers and streams in this
6 area. So there's a lot of water that we're looking
7 at here.

8 I appreciate the kind words from Frank
9 earlier about the lake improvement plan and the
10 reservoir release improvements that we started. Back
11 in '91 TVA implemented this plan because we had a lot
12 of areas below our tailwaters that were just dry
13 riverbeds, low to no oxygen, because when you do put
14 these large dams in place you stack up a lot of water
15 behind them and the depths of that water is fairly
16 cold because you don't get much sunlight penetration
17 and dissolved oxygen is at or near zero. So the
18 water coming out of the dams is not really good
19 habitat for our native warm water fish.

20 So what we did in '91 is we
21 implemented minimum flows, and to do that we used
22 weir systems below the dams to back up water that
23 when we're not generating will allow a slow release
24 of water. We used small turbines as was shown to you
25 at our Blue Ridge Dam.

1 We pulse water periodically. As was
2 mentioned, we have an app out that you can see when
3 we're going to be pulsing water to keep the riverbed
4 wet. At Tellico we have a siphon that comes over the
5 top of the dam and gives you mere 8 cubic feet per
6 second of water coming through, but that's enough to
7 keep the riverbed wet which is good for them and for
8 our inhabitants.

9 We have also installed aeration
10 systems throughout the Valley. And those systems are
11 noted here on the picture at the bottom. They are as
12 complex as the aeration weirs. That can be anything
13 from the stair-step concrete emplacements to the
14 finger weirs that I will show you here in just a
15 moment. They do a really good job of aerating.

16 Then you have auto-venting turbines.
17 We can put a turbine in the dam that will actually
18 produce and supply oxygen into the water flowing
19 through the dam while we're producing electricity
20 also.

21 Then you have surface water pumps.
22 These are like really big ceiling fans. I think they
23 are like 19 feet in diameter. They inject water.
24 While they are pushing water down, that warm water
25 gets circulated that's oxygenated and you get the

1 oxygen being pushed down into the water that's being
2 pulled through the dam and sent to the tailwaters
3 below.

4 Then on the bottom right you have line
5 diffusers. If any of you are gardeners you have got
6 the little black soaker hoses that you turn it on and
7 it's just a nice, little soak coming out. Well, we
8 will take and put liquid oxygen that we have
9 pressurized and vaporized and push it through those
10 little diffuser lines. And when I say little, they
11 are like 2 to 3 inches in diameter, something like
12 that, and we will push liquid oxygen into the
13 reservoir.

14 We will also use something -- with
15 liquid oxygen we will use something as low tech as
16 compressors or air blowers to put oxygen in through
17 those diffuser lines also.

18 Since '91 TVA has spent \$60 million
19 installing these capital projects. So that's a
20 pretty big investment to make these areas
21 inhabitable. So as you can see, with these two
22 programs we have been able to keep an extra 180 miles
23 of riverbed wet and oxygenate another 300 miles of
24 river, that's a pretty nice little project.

25 The aeration systems that we have

1 installed at our 16 projects, and you can see those
2 listed up here, but some projects get more than one
3 system installed. We will start off with the lowest
4 cost that we think -- lowest cost type of aeration
5 system that we can install and then evaluate that and
6 then if we need to we will bump it up to the next
7 level. We spend annually 3 to \$4 million on these
8 systems.

9 The bottom left is one of the liquid
10 oxygen storage tanks and vaporizer. The next slide
11 over is one of the surface water pumps. I think this
12 is at Cherokee Dam. The next one is one of our
13 weirs. Then the right slide is one of the turbines.
14 And I am not an engineer by trade and so it's really,
15 really difficult for me to explain how that works.
16 So I am not going to. If you want to know, I will
17 find an engineer that can explain that to you.

18 Now, South Holston, and I am not
19 playing favorites. I could talk about any of the 16
20 projects that we have worked at. South Holston just
21 had really pretty pictures. So I am showing -- this
22 is the weir, that went from a dry -- mostly dry
23 riverbed to becoming a world class trout fishery.
24 People are coming in from all over the place to fish
25 this. It's really a wonderful story. Just to

1 mention a few others, Blue Ridge, another wonderful
2 trout fishery.

3 We also do these projects for more
4 than just good fishing. Excuse me. We have changed
5 our flows at our Bear Creek projects to help out
6 endangered mussels that are living below those
7 tailwaters.

8 At Tims Ford we have warmed the water
9 up just a little bit, which actually improved the
10 trout fishery there and also improved the warm water
11 fishery below that area. So these projects are more
12 than just for good fishing. Although, we like the
13 good fishing.

14 This Council, if you have been on it,
15 then you will know a little bit about our Natural
16 Resources Plan, which has been enacted to help us
17 become better stewards and to identify problem areas
18 and focus our monies on those areas.

19 The first one is the shoreline
20 stabilization. To date we have protected over 100
21 miles of critically eroding area at 500 sites, and
22 those sites are anything from just bends in the river
23 to cultural archeological sites that need to be
24 protected, and that's near and dear to my heart. So
25 I am really proud of that one.

1 We're focusing on nutrient source
2 watershed identification. The retention rate, which
3 is how long the water stays behind on one of our dams
4 before it passes to the next reservoir, our retention
5 rates are pretty quick compared to natural lakes. So
6 we don't have quite the problem that naturally
7 occurring lakes have with phosphorus and nitrogen
8 loading into reservoirs.

9 It's still an issue that we need to
10 look at. So we're identifying the top three
11 reservoirs that have issues with nutrient loading.
12 We're going to come up with a plan to reduce that
13 loading and then implement it.

14 The Duck River will be my point for
15 the third and fourth bullets aquatic ecology
16 management. The river was featured in National
17 Geographic a couple of years ago in the story about
18 one square foot. They came in with a -- the green
19 box is one square foot and then they sat there and
20 saw what passed through it within a day.

21 The Tennessee River Valley is one of
22 the most diverse systems in North America. Well, it
23 is the most diverse system. It is a source of pride
24 for us, and the Duck River is absolutely gorgeous.
25 If you ever have the opportunity to go out and just

1 wade that area and look at it, it's very serene and
2 very calming and it's a source of pride for those of
3 us in aquatic monitoring.

4 Stream and tailwater monitoring,
5 that's what we do. I will talk about it in a little
6 more depth a little bit later.

7 So to this point I have talked about
8 the capital projects, the big things that we have
9 done. To make a sports analogy, what we have done is
10 we have built a stadium. We have supplied the
11 stadium with the best turf, the best locker rooms,
12 the best seats for the fans that we possibly can to
13 this point. What I want to move into now is how we
14 monitor what we have done to make sure the conditions
15 stay great for those players that we're putting in
16 the water.

17 So to do that we use what we call the
18 vital signs monitoring program. Much like when you
19 go to the doctor, the first thing they do, they check
20 your blood pressure, your height, your weight, they
21 check your temperature to see if those basic metrics
22 are in alignment with what they would expect. If
23 they see something that's wrong, they will know
24 exactly where to start looking to see what's wrong
25 with it.

1 So we use a basic set of metrics much
2 like doctors do with vital signs on you to see where
3 we have problems with our water bodies. The
4 objective of this, as you can read up there, is to
5 provide current and long-term data to support TVA's
6 power production operations and its stewardship of
7 the Tennessee Valley.

8 Case in point, we can be out on a
9 reservoir monitoring DO. If we see that the
10 dissolved oxygen in that area is low, we can call one
11 of the dams operators and have them send a slug of
12 highly oxygenated water toward us to increase the
13 dissolved oxygen in the area that we're working, and
14 that's happened on more than one occasion.

15 So the vital signs monitoring program
16 has four core activities or vital signs that we're
17 looking at. That's the reservoir ecological health,
18 that's where we're focusing on the reservoirs
19 themselves. We check -- I will come back to that in
20 a little more detail in just a second.

21 We do sports fish assessments. Now, I
22 know the focus today has been on trout and that's a
23 sports fish. Well, the sports fish assessments that
24 we're doing are on black bass and crappie. So we
25 don't really go looking for trout, I'm sorry to say.

1 With a little more money we would be happy to try.

2 Then we also look at contaminants in
3 fish flesh. We want to protect our inhabitants of
4 the Valley who enjoy eating the fish that they catch
5 out of the river. So will go through, and we do this
6 jointly with the other state agencies, to collect
7 fish tissue and analyze it for any contaminants that
8 may be harmful to the inhabitants of the Valley.

9 Then lastly the stream and tailwater
10 ecological health, that's where we go out and we look
11 at the streams and tailwaters. We will discuss that
12 in detail in just a second.

13 What I -- the takeaway from this
14 though is that we look at warm water and cold water
15 systems. We don't just focus on trout. We don't
16 just focus on large mouth bass. We don't just focus
17 on one specific species. We look at the entire
18 Valley all together because we're responsible for the
19 whole thing.

20 Now, this slide right here gives you
21 the vital signs and the reservoir ecological health
22 sites that we do. We -- now, TVA has more than 31
23 reservoirs, but we monitor the health of 31
24 reservoirs at 69 sites. I know that's a lot of
25 numbers to throw at you, but just know that we cover

1 the entire Valley when we're looking at these areas.

2 To do the reservoir monitoring we have
3 what we call -- oops, wrong way -- the reservoir
4 ecological health, which is comprised of water
5 quality, fish community assessments, and then the
6 community assessments.

7 Now, the water quality, which is the
8 slide -- next to the last slides on top and bottom,
9 it's really hard to get a good picture of that
10 happening because it's usually like watching paint
11 dry. You dip it in a little bucket of water and you
12 pour it into another bucket and you send it off to a
13 lab for analysis.

14 The fish community assessment is a lot
15 more interesting to me personally because that's what
16 I do. It's shocking fish, netting fish. We look for
17 health, length, weight. There's 12 metrics that we
18 look at, and we're not going to go into because that
19 would bore you to tears but to me it's exciting.

20 And then the last slides over here,
21 that's our spring sport fish assessment, that's fun.
22 We're in the process of doing that right now. If you
23 enjoy looking at a lot of large mouth bass and small
24 mouth bass, check out our web site and make an
25 appointment to come out and ride with us. We welcome

1 the public to come. It's really enjoyable.

2 And just because we're talking about
3 trout today, I felt it necessary to put a couple of
4 pictures of trout on the top. Although, those are
5 kind of rare for us to see when we're doing the
6 reservoir stuff.

7 The stream monitoring, we monitor
8 about 500 stream sites on a five-year rotational
9 basis. So we cover — we try to cover a
10 representative sample across the entire Valley every
11 year. For the discussion today, the trout, we focus
12 on 17 tailwaters, and those get done on a two-year
13 rotation basis.

14 So the stream monitoring it's done,
15 and you will forgive me because I am fixing to have
16 to go scientific on you and I'm sorry to do that, but
17 we use an index of biotic integrity.

18 Now, can anybody tell me what that
19 means?

20 I couldn't either until I studied it
21 really hard. It's 12 metrics that we look at that
22 tells us how healthy the fisheries are. I know
23 scientists, we love metrics, and I apologize for
24 that. So the fish — how healthy that fish community
25 is in these tailwaters and in these streams, that's

1 our long-term indicator of how healthy that water
2 body is.

3 Now, we also look at the benthic
4 community. That's the bugs, the caddisfly, larvae,
5 the mayflies, dragonflies, those guys. Those are our
6 short-term indicators of how healthy that water body
7 is. If they are not present there's not a food
8 source for the fish and so the fish are not going to
9 be there in the long-term.

10 So we look at both of those
11 communities, and then we compare that to what -- if
12 we had a pristine-never-touched-by-man stream, that
13 would be the ideal thing to compare these streams to.
14 Unfortunately, in the Tennessee Valley we don't have
15 that anymore. So we compare it to the best that we
16 can possibly find. Then we report all of this data
17 out to our state partners and anyone -- universities,
18 anyone that's interested in it.

19 As you can see, we use a little bit of
20 electric fishing in some of the bigger waters. We
21 seine the fish in big and medium waters. In the
22 lower right corner, if it's an area where there's
23 threatened and endangered species electricity stays
24 at home and we a put on the snorkeling gear, which is
25 a lot of fun.

1 Then in the lower right corner, that's
2 one of our benthic analysis experts. It could be a
3 state project that he's working on since he's propped
4 up on his shovel. I apologize, I just had to throw
5 it in there.

6 Again, since we're talking about trout
7 today, I felt it necessary to show you some small
8 trout that we collect.

9 With that, I will entertain any
10 questions that I may be able to answer. And if I
11 can't answer it, then I will try by best to get
12 someone that will. Oh, yeah, and that is me by the
13 way.

14 FACILITATOR WILSON TAYLOR: Russell.

15 CHAIR RUSSELL TOWNSEND: Yeah, Jason,
16 I heard you mention it being necessary to warm some
17 of the waters.

18 MR. JASON YARBROUGH: Yes.

19 CHAIR RUSSELL TOWNSEND: Is there any
20 good data on the use of line diffusers and liquid
21 oxygen and the additional cooling to the waters? Is
22 it minimal? Has that metric been taken?

23 MR. JASON YARBROUGH: To be honest
24 with you, Russell, that is not my area of expertise.
25 I am sure that there's data out there that support it

1 and I will be happy to get that to you if you will
2 give me contact information.

3 CHAIR RUSSELL TOWNSEND: Sure.

4 MR. JASON YARBROUGH: I will send you
5 more than you want to read.

6 CHAIR RUSSELL TOWNSEND: Okay. Thank
7 you, sir.

8 MR. JASON YARBROUGH: Oh, man, I have
9 got it easy. If there's no questions, I thank you
10 for your time and I am going to get out of the way,
11 Wilson.

12 FACILITATOR WILSON TAYLOR: Thank you,
13 Jason. So, Joe, I will turn it over to you if you
14 want a final Q&A and for you to sort of close us out
15 in this session.

16 DFO JOE HOAGLAND: So I think we have
17 given you an overview of the different things that
18 each agency does and how we do them.

19 Are there any other -- now that you
20 have heard kind of all the pieces, are there any
21 other questions, information, data, anything else
22 that you-all feel you need to help understand the
23 situation a little better?

24 I believe everybody is staying through
25 today and tomorrow -- oh, just today. So we need to

1 get what we can out of the folks today.

2 CHAIR RUSSELL TOWNSEND: One thing,
3 Joe, I just would just like to say is that I think
4 for this Council to really be able to speak to this
5 issue we need to understand the long-term impacts of
6 not stocking these rivers.

7 We need to try to understand better
8 not only the economic downside to stocking rainbow
9 trout in these tailwaters, but we need to understand
10 the biological impacts as well. Three years doesn't
11 give us much time to gather that data, and I think a
12 lot of us need to be thinking about those types of
13 issues between now and tomorrow when we answer these
14 questions.

15 You know, the short answer that has
16 been -- that I have taken away from this morning is
17 that if these trout were not stocked there wouldn't
18 be any aquatic wildlife below the dams. I find that
19 kind of difficult to believe because I understand
20 biology enough to understand that if there's a vacant
21 knitch something moves into it. It might not be
22 something desirable.

23 If you have seen the movie Chernobyl
24 Diaries, you know, when the people moved out the
25 cannibal zombies moved in. So something is always

1 going to go back in to an open -- to an open
2 ecological knitch, and I think we need to understand
3 what those changes would be.

4 I think we need to understand TVA's
5 legal responsibilities to the wildlife resources, not
6 just what they desire to do with regard to good
7 stewardship but what they are required to do with
8 regard to good stewardship.

9 So we can -- I think it's going to
10 take those kinds of in-depth discussions to allow
11 this committee to really provide input on who the
12 ultimate funder of this -- these projects should be.

13 DFO JOE HOAGLAND: Okay. Good point.

14 FACILITATOR WILSON TAYLOR: Thanks,
15 Russell.

16 DFO JOE HOAGLAND: So I am going to
17 look to our panelists for a moment on the first
18 question. Is that something we can answer now or is
19 that something that --

20 MR. JOHN BIAGI: I can take a short
21 stab.

22 FACILITATOR WILSON TAYLOR: Grab a
23 mic.

24 MR. JOHN BIAGI: That's a great
25 question, Russell. I think the best way to explain

1 that, at least in the case of the Blue Ridge
2 tailwater, when I say there's nothing there, what I
3 mean is there is no valuable recreational fishery.

4 There will still be some minnows, some
5 suckers. There will be fish there, but the small
6 mouth bass fishery and the large mouth bass fishery
7 that would be there if the dam was not there would
8 not be there, which is what likely is going to
9 support the recreational fishery.

10 CHAIR RUSSELL TOWNSEND: One thing I
11 would like to comment on, and thank you very much, I
12 was talking with one of the Fish & Wildlife Service
13 folks, US Fish & Wildlife Service folks at the break
14 and I was talking to Joe last night at dinner about
15 the perspective that I bring to this issue coming
16 from Cherokee, North Carolina and working for an
17 Indian tribe.

18 There is a -- some of you may know
19 that we are very dependent on our trout fishing
20 industry in Cherokee and we stock the Oconaluftee.
21 It's probably one of the most stocked rivers in the
22 southeast, and we depend on that for a lot of
23 economic value.

24 Our elders though are at odds with our
25 economic development folks because our tribal elders

1 want to see the silverside and the hogsuckers and the
2 mumbleheads come back because that's what they used
3 to rely on and that's what they used to eat and
4 that's what tastes good to them and that's what they
5 want.

6 So unlike navigable and non-navigable
7 houseboats where I don't really have a lot of
8 capability to provide input on those resources, even
9 as an archeologist I understand that there are a lot
10 of facets to this discussion and this argument or not
11 this argument, but this situation that we find
12 ourselves in.

13 And so I want to see a lot of
14 discussion and a lot of data and a lot of thought
15 going towards those questions because I think TVA has
16 a stewardship responsibility, but I know from my
17 elders the stewardship responsibility is not always
18 what the economic sports fishermen want to look at.
19 So I want to look at this very carefully.

20 FACILITATOR WILSON TAYLOR: Comments?
21 Jack.

22 MR. JACK SIMMONS: I would like to
23 hear some comments from all of the presenters if they
24 have expertise in this area but specifically relating
25 to some things that Russell brought up about the

1 environmental aspects of this, not necessarily from
2 the sport fishing perspective but from -- if you look
3 at the things that you see that TVA has done here
4 over the years in terms of improving the habitat,
5 Jason, I know you mentioned the vital sign monitoring
6 and so on, has there been an improvement as a result
7 of those programs in the aquatic insects and snails
8 and all of the food chain, if you will, that's
9 necessary to support whatever type fishery it is?

10 I'm just curious if we have seen the
11 -- has TVA been able to put back or restore or
12 enhance the living conditions, if you will, for the
13 game fisheries, whether they are there through
14 stocking or through natural or whether, as Russell
15 said, other species will come in if you don't stock
16 the trout. I am just curious about the -- are we
17 seeing a baseline improvement on the ecology?

18 MR. FRANK FISS: From what I
19 understand from talking to -- TVA actually does more
20 monitoring of the invertebrates and such, the things
21 that would be food base for whatever is living there,
22 and they have seen a good response. I am sure Jason
23 has reams of data on that. He doesn't want to brag
24 right now, but there has been a positive response and
25 that's why we have had a positive response of

1 survival of the fish that we're stocking.

2 DFO JOE HOAGLAND: Jason, do you want
3 to add anything?

4 MR. JASON YARBROUGH: I would prefer
5 to not be self-serving at this point, but, yeah, it
6 looks wonderful after the improvements that we have
7 made there. We do have reams of data we could have
8 put up there, but you would all be in tears at this
9 point.

10 DFO JOE HOAGLAND: But that
11 information -- well, I shouldn't say all of it, some
12 of that information is available on our website,
13 right, as part of our --

14 MR. JASON YARBROUGH: Yes, sir. On
15 our external web we post a lot of the reservoir data.
16 We're working on getting our stream data out there
17 for the public to see also.

18 FACILITATOR WILSON TAYLOR: Mitch.

19 MR. MITCH JONES: Mr. Fiss, I want to
20 go back to you again. I have got to follow the
21 money. You're collecting \$18 for approximately
22 65,000 trout stamps. That million dollars goes
23 where?

24 MR. FRANK FISS: That million dollars
25 goes to our agency budget and in its grandest shape

1 is not allocated in any way, and then we do our
2 budget process to allocate money throughout our
3 entire agency.

4 It would be -- one of the things that
5 we do with the money when we get it is -- and if you
6 want to say that some of that is clearly going to
7 trout eventually, but we are stocking, like I said,
8 the State of Georgia, not just these tailwaters.

9 We have somewhere between 120 and 140
10 locations that we're stocking around the state as
11 well and that -- you know, there is agency overhead
12 and everything else, enforcement, research management
13 that's going on.

14 Projects like Jason talked about, we
15 do that similar type of work across the state on wild
16 trout streams and these areas. Trout streams are
17 kind of free -- the wild trout streams are kind of
18 free in a sense that we don't have to stock, but we
19 do put a lot of our research dollars and effort into
20 maintaining native stocks of trout as well.

21 MR. MITCH JONES: Do you see the
22 quandary that I think a few of us are in; and that
23 is, you're collecting the recreational dollar, the
24 direct recreational dollar, the U.S. in each state,
25 and then coming back to the utility and asking them

1 to fund the effort which -- let me finish, which
2 rolls downhill on occasion to the ratepayers, to
3 those of us in the room. I need a little better
4 understanding why that is.

5 MR. FRANK FISS: Yeah. The way the
6 sportsmen would look at it as our ratepayer, if you
7 will, is that these federal projects are generating
8 power and providing flood control to the greater
9 society at a cost of a lost river that has to be
10 mitigated.

11 So why should they subsidize the
12 federal power company for doing that service? Why
13 should the fishermen subsidize the federal power
14 company?

15 It doesn't matter how much money we're
16 taking in, it's not our price to pay, that's our --
17 that would be our perspective.

18 FACILITATOR WILSON TAYLOR: Brad.

19 MR. BRAD KREPS: Just going back to
20 the last question. I was just curious. I mean, it
21 sounds like there have been some real improvements in
22 terms of how the dams are managed and the quality of
23 the downstream fisheries and the survivability of
24 some of the stocked species.

25 I guess in my mind I'm thinking if you

1 can increase that survivability, then your cost or
2 need to stock intensively goes down, which would
3 reduce this on the cost side of this challenge.

4 So I am just kind of curious, have we
5 pushed it as far as we can in terms of the successes
6 and improvements to the dam management or other
7 strategies that would increase the quality of the
8 survivability of the fish stocks?

9 If we haven't, what more could we do
10 on that end because that -- you know, those
11 improvements would reduce the number of fish we need
12 to stock, and therefore, reduce the dollar number
13 we're trying to get to. So I'm just curious if y'all
14 can speak to that a little bit.

15 Are there more things we can do in
16 terms of dam management and otherwise that would
17 increase the health of the downstream fishing?

18 FACILITATOR WILSON TAYLOR: Go ahead.

19 MR. FRANK FISS: I think that the work
20 that TVA has done on habitat and water quality have
21 brought them into compliance with state rules and
22 that has been great and that allows a lot of benefit.

23 I don't -- and those standards are set
24 based on minimum -- well, I don't know how they set
25 the standards, but those standards that they have set

1 will provide adequate habitat. If you improve the
2 oxygen even more or provided more flow, it's not
3 necessarily going to make survival better.

4 We think that those -- hitting those
5 targets of six part per million in oxygen and having
6 the optimal flows for these trout that have been
7 probably studied by your engineers to see what will
8 fill the channel, that work has been done.

9 On the trout production side, you
10 know, we have invested in figuring out whether or not
11 we should be stocking small fish or big fish or which
12 species and we adjust accordingly. We could be doing
13 a lot more of that research, we just don't have the
14 funding for it. We have identified that as a need.
15 As we go along every year things change a little bit
16 and you wonder if you should be doing things a little
17 differently.

18 FACILITATOR WILSON TAYLOR: We will go
19 to Joe.

20 DFO JOE HOAGLAND: So one thing to add
21 to that too is as we look at the river and -- you
22 know, I think Jason showed the chart, we're trying to
23 balance, right, all of the different activities that
24 are going on between, you know, everything from flood
25 control to recreation to the power production. So a

1 lot of work has gone into how much can we release?
2 How much can we oxygenate and still try to balance
3 all of those parameters?

4 FACILITATOR WILSON TAYLOR: Mitch.

5 MR. MITCH JONES: I wanted to wait
6 just a minute, Mr. Fiss, before I got back to this.
7 If you didn't have a dam you wouldn't have a trout.

8 MR. FRANK FISS: And that might not be
9 bad thing because we would have a natural running
10 river that would provide recreational benefits from
11 fishing. There are warm water rivers in the country
12 somewhere I'm sure that have economic development
13 right up to the banks because people enjoy fishing
14 and boating on those rivers.

15 So, you know, at some point we have to
16 say, well, how much -- how good do we -- we're in a
17 weird position here as an agency. It doesn't matter
18 what the habitat is, our charge is to make it as good
19 as it possibly can be. So you're -- you know, there
20 could be some negotiating there on how good is good
21 enough, but that is something that we have to involve
22 our constituents in in a broader questioning because
23 a lot of the things we do we don't have -- we don't
24 have to stock brook trout. We just know that
25 fishermen kind of like it and, you know, it's a good

1 thing. We don't have to stock brown trout, but we do
2 feel an obligation to do the best we can with the
3 resources that we are provided to manage.

4 MR. MITCH JONES: Fair enough.

5 FACILITATOR WILSON TAYLOR: Jack.

6 MR. JACK SIMMONS: You know, as we're
7 living in the Valley and we enjoy all of the what I
8 would say premiere and tremendous natural resources
9 here. You mentioned the diversity earlier. We have
10 got one of the most diverse biological things,
11 especially in our lakes and reservoirs and rivers,
12 but we kind of get used to that.

13 You know, you hear about things out in
14 the Pacific northwest and what they are doing with
15 their salmon and so on, but I am just curious, John,
16 with Georgia, I know Georgia Power has got 15 or 20
17 dams, something like that, have they done any kind of
18 mitigation things like TVA has related to minimal
19 flows and DO enhancement?

20 What's your relationship with them and
21 how do they participate in this type of thing so we
22 can sort of benchmark what we do versus what others
23 do?

24 MR. JOHN BIAGI: Sure. It's a much
25 different process dealing with a power company that

1 falls under the Federal Energy Regulatory Commission.

2 So you have to go through a process of
3 looking at the project, how it's operated, how it
4 impacts recreation, cultural, natural resources, and
5 you go through about a — I guess Terry would
6 probably be one of the better ones to talk about this
7 since he came from a company that used to work with
8 some of these projects, but you go through a
9 negotiation process and a research process to kind of
10 highlight what the problems are.

11 They also fall under the Clean Water
12 Act that the Federal Power Administration or the
13 federal agencies don't fall under. So they have to
14 meet state water quality standards. They do
15 enhancements and mitigation to meet those up to and
16 including — you know, on one project they pay us to
17 produce walleye to stock in their reservoir every
18 year.

19 FACILITATOR WILSON TAYLOR: Tom.

20 MR. TOM LITTLEPAGE: I guess I'm
21 struck by — this is a very interesting discussion,
22 and to me it's one of the really appropriate uses of
23 the Council with a broad background of the members
24 that are here.

25 This issue is one where it seems to me

1 TVA has provided a number of benefits that are
2 relatively easy to describe and quantify to the
3 Valley, and I think the challenge of this issue is to
4 look at -- to the degree that there is a stocking of
5 non-native and non self-sustaining fisheries to
6 support an economic development benefit, among other
7 things, and what is the obligation of the
8 organization relative to either state or some local
9 or private partnerships for that activity, and I
10 don't know that I have an answer to that yet.

11 It really is challenging to think --
12 you know, the slide I think that Frank put up and
13 said, well, we just think it's a federal
14 responsibility because we think it is, and I would
15 agree with that to the extent that the dams represent
16 an impact to the natural fisheries and an attempt to
17 try and restore what would have been there had the
18 projects not been built, I certainly think there's an
19 obligation to do that.

20 To look at going beyond that to try to
21 create a sport fishing industry that otherwise
22 wouldn't exist to me represents a borderline
23 challenge and whether that's an appropriate activity
24 or use of TVA dollars to do that.

25 And I am kind of like Jack here, I'm

1 very interested to see the obligations that have been
2 met by other agencies such as the Corps, you know, to
3 look at to what degree they have stepped into this
4 and provided — is there a federal benchmark to say
5 what have agencies done to step in and provide this
6 economic development activity to, if you will, a
7 relatively select group of beneficiaries?

8 MS. LINDA KELSEY: Yeah. The other
9 agencies that have been reimbursing the Fish &
10 Wildlife Service that I mentioned earlier, the Corps,
11 the Bureau of Rec, Bonneville Power, they are — they
12 recognize both. They agree that they are responsible
13 for paying for the mitigation with the fish,
14 mitigating of the impact with the fish, and they are
15 also responsible for doing the other similar
16 stewardship responsibilities within those reservoirs
17 and systems, such as adhering to the Clean Water Act
18 and water quality standards that follows, as well as
19 the Endangered Species Act. So they look at it as a
20 responsibility to do both of those things.

21 FACILITATOR WILSON TAYLOR: Other
22 questions or comments for our panelists while we
23 still have them available?

24 So, Joe, do you want to go ahead and
25 give us the wrap-up of this?

1 DFO JOE HOAGLAND: I think there's a
2 couple of things I am hearing here which I think is
3 really good. I think we do need to get you, and I
4 think we can do that, a clearer picture of our
5 obligations that TVA has for all of our impoundments.

6 When we look at the activities that
7 Jason described and the mitigation and improvement of
8 the habitat, that helps us meet all of the state
9 requirements that we have for each of our
10 impoundments. The stocking of the trout is not
11 considered part of our requirements under those
12 mitigation activities and we -- we will get you the
13 details on how that falls out.

14 The other thing that I heard, which I
15 think is also good, is if we set the economics aside
16 for a minute, what are the environmental impacts one
17 way or the other on how this works, and I think we
18 can provide some more information on that.

19 Some of that I think we can probably
20 put together between now and tomorrow before we talk
21 again. We may have to provide some more information
22 after that, but we can see what we can do between now
23 and then.

24 I appreciate this conversation. I
25 think your comments at the end are right. I have

1 been struggling with this now for several months
2 trying to figure out how do we -- how should we and
3 how can we deal with this in a long-term sustainable
4 nature?

5 I think that's really the key to me in
6 all of this is it's not about this year and it's not
7 about the three years that we have got it going, it's
8 about that longer-term picture. Because even if we
9 say, well, it is a federal government responsibility,
10 the fact is that the federal government keeps putting
11 pressure on all of us, whether it's the Fish &
12 Wildlife, whether it's the Corps or the Bureau, all
13 of those entities that get taxpayers dollars are all
14 under pressure.

15 We, of course, don't get that, but we
16 have the similar issues with the ratepayer. So how
17 do we -- how do we deal with that over the long run I
18 think is the part we have to struggle with.

19 Mitch.

20 MR. MITCH JONES: Just for a lighter
21 moment, Tom Littlepage came up with a perfect
22 solution.

23 DFO JOE HOAGLAND: Joe.

24 MR. MITCH JONES: TVA is going to
25 create an app. We're going to charge what, \$200 for

1 the app.

2 DFO JOE HOAGLAND: \$200 for the app.

3 MR. MITCH JONES: 200 for the app.

4 The app is going to tell you when the fishery truck
5 is moving and so you're going to follow the fishery
6 truck now to the creek instead of — I just wanted to
7 make sure we have a little levity in this.

8 DFO JOE HOAGLAND: No. No. That's
9 great. We will actually put that on the list.

10 MR. MITCH JONES: Tom came up with
11 this.

12 DFO JOE HOAGLAND: Okay. With that,
13 if you do have additional questions though our guests
14 are going to be here certainly through lunch and I
15 think on whatever tour we're going to go on. It's
16 probably the rain tour. So please continue to ask
17 them questions. We will work on some of the answers
18 to some of the other questions you have asked.

19 I think, Wilson, I will turn it back
20 to you.

21 FACILITATOR WILSON TAYLOR: Thank you,
22 Joe. Russell had a request for the Council members.
23 So Russell.

24 CHAIR RUSSELL TOWNSEND: Yeah. I just
25 thought that it might be good for the new Council

1 members to hear who each of us are, what our
2 constituents are here on the Council, who we're
3 representing. They may have already seen that in the
4 packet and read that, but I just think it would be a
5 good idea to introduce ourselves.

6 So I will start out and we will go
7 down the line. I am Russell Townsend. I am with the
8 Eastern Band of Cherokee Indians. I am the Tribal
9 Historic Preservation Officer for the Eastern Band.
10 I deal with public history and archeological sites,
11 protection, things like that. I am a member of the
12 Cherokee Nation of Oklahoma where I come from
13 originally.

14 And before I pass the mic, I want to
15 thank all of our speakers this morning for coming and
16 providing us this information. It was very helpful.
17 Thank you.

18 DFO JOE HOAGLAND: I am Joe Hoagland.
19 I work for TVA. I have been with TVA for a little
20 over 20 years and worked many years in our
21 environmental and stewardship side and our research
22 and development and some years in operations. I
23 currently have responsibilities for all of our
24 policies with TVA, which includes these kinds of
25 working groups and how we set policy and governance

1 for the agency.

2 MR. MARK HOMMRICH: I am Mark
3 Hommrich. I am president of Volunteer Barge &
4 Transport in Nashville, Tennessee. Our company
5 operates barges and provides barge transportation
6 throughout the inland river system, including the
7 Tennessee River, and I'm here to represent navigation
8 interests.

9 MR. BILL FORSYTH: I am Bill Forsyth.
10 I represent North Carolina on the Council, but I am
11 also a power distributor and Chairman of Murphy
12 Electric Power.

13 MR. KARL DUDLEY: My name is Karl
14 Dudley. I'm the president of Pickwick Lake
15 Cooperative in Selma, Tennessee. We serve parts of
16 six counties in southwest Tennessee, and I represent
17 the distributors, the Tennessee Valley Public Power
18 Association, and this is my 43rd year to deal with
19 TVA. So it's been an interesting ride, to say the
20 least.

21 MR. TOM LITTLEPAGE: My name is Tom
22 Littlepage, and I work for the State of Alabama
23 managing our water quantity program for the state.
24 We have another agency that deals with water quality.
25 Our interests have led to the creation of Tennessee

1 Valley Water Supply Partnership which has membership
2 of water quantity activities of most of the other
3 states. We form kind of an uneasy alliance.

4 I saw Linda reference the fact that
5 this water is not TVA's water, that TVA manages water
6 from state-to-state, and the states have this
7 opportunity to work together on management issues as
8 we move forward. That's one of the things that I
9 value in this group and in that partnership group is
10 the opportunity to work together as we kind of work
11 through some of these issues.

12 MR. JACK SIMMONS: I am Jack Simmons
13 with the Tennessee Valley Public Power Association.
14 We represent all of the 155 local power companies
15 across the seven states that are served by TVA. Our
16 members represent about 85 percent of TVA's total
17 electricity usage. The other 15 percent are
18 direct-serve industrial customers by TVA.

19 We're the interface or organized
20 customer interface between the power companies and
21 TVA on rates and contracts issues and all other TVA
22 related matters. We have a 19 member board.
23 Actually, Karl was on the board that hired me ten
24 years ago. So I guess I did something right back
25 then, Karl.

1 Then, of course, Mark is one of our
2 members, too. George Kitchens, who isn't here, is
3 one of our members. So we have four representatives
4 from the power distributor community here.

5 I know, Bill, you are on the board as
6 one of our members, but you came through as a
7 Governor appointee. So we're not trying to stack it
8 up. We're just glad the Governor feels like you need
9 to be here.

10 We're very interested in obviously any
11 kind of impacts to the power consumers of the valley.
12 There's three basic things that Joe Hoagland has
13 heard me say 100 times, and, Wilson, you have too at
14 the board meetings, that we're concerned about a
15 reliable power supply for economic development in the
16 Valley.

17 We're also advocates of both
18 affordable competitive rates, and those are two
19 different things. There's some subtleties there.
20 Then also we're very, very interested in a balance of
21 all of the other competing objectives, one of which
22 we're talking about today. We recognize that's part
23 of the overall equation, too.

24 So I think it's our job to represent
25 our stakeholders that care about all of these things

1 because our stakeholders are not only power customers
2 but they are also the users of the reservoirs and so
3 on and so forth. So it's a very hard equation to
4 balance, and I just thank everybody on this Council
5 for the input that they provide because I think
6 there's some good things that come out of it.

7 MR. MITCH JONES: I'm Mitchell Jones
8 and I own and manage a number of resort properties on
9 the Tennessee Valley System and Army Corps system. I
10 represent the Tennessee Marina and Kentucky Marina
11 Associations as their past president, and I live in
12 Knoxville.

13 MR. PHIL HAZLE: I'm Phil Hazle. I
14 represent the commonwealth of Kentucky, and I live on
15 Kentucky Lake in Calloway County. A little trivia,
16 Kentucky is the only state in the United States that
17 elects a county jailer, that's in our 1850
18 constitution, and I happen to be that person in
19 Calloway County since 1999.

20 MR. MARK IVERSON: My name is Mark
21 Iverson, General Manager for Bowling Green Municipal
22 Utilities in Bowling Green, Kentucky. I just ditto
23 what Jack said with trying to strike the right
24 balance between all of these competing interests is a
25 very challenging thing. So we have got to think

1 about the scope of what TVA has on its plate.

2 MS. AVIS KENNEDY: My name is Avis
3 Kennedy. I retired about two years ago as Chief of
4 the Natural Resources Management Branch for the
5 Nashville District Corps of Engineers. I have 33
6 years of experience in land management and recreation
7 management.

8 FACILITATOR WILSON TAYLOR: Okay.
9 Thank you. Thank you, Russell. Just a couple of
10 quick notes before we go to lunch.

11 First off, I invite the Council
12 members to take a look at those questions that Joe
13 introduced because we will be talking about those to
14 get your advice tomorrow. So just sort of reflect on
15 what you heard today and kind of look at those
16 questions.

17 Our legal staff will be counting noses
18 tomorrow to make sure we have a quorum as we give the
19 advice. So we have to have 11 people in the room as
20 we give the advice.

21 Kelly, is that correct?

22 MS. KELLY LOVE: That's correct.

23 FACILITATOR WILSON TAYLOR: So if
24 you're out in the hallway they may ask you to come in
25 so we can make sure we have a quorum at the time we

1 are giving advice.

2 Then Kelly also made a note about
3 where these Councils started and Russell shared with
4 me that, you know, he regrets that he was not around
5 to share in the whiskey rebellion.

6 CHAIR RUSSELL TOWNSEND: It's probably
7 the only one I am qualified for.

8 FACILITATOR WILSON TAYLOR: With that,
9 Russell, we go to lunch.

10 CHAIR RUSSELL TOWNSEND: Yes. Break
11 for lunch.

12 FACILITATOR WILSON TAYLOR: Lunch is
13 at Noon and we will have the field trip after that.

14 CHAIR RUSSELL TOWNSEND: Beth has some
15 instructions.

16 MS. BETH KEEL: Lunch is in the Pine
17 Crest 2 room, which you will access by going
18 downstairs through the main restaurant and you will
19 see the doors on the far side and we are all set up
20 there. For the Council members and guests at this
21 meeting table just give me two seconds to give you
22 the cards so they know what they will serve you.

23 Then after lunch what we are going to
24 do is come upstairs to the front lobby for a few
25 minutes of briefing before we go on our field trip,

1 which because of the weather will be in vans, but we
2 have that all taken care of and we will have an
3 interesting trip. So we welcome all of you to come
4 on the trip. Just meet us upstairs after lunch.

5 FACILITATOR WILSON TAYLOR: Thanks,
6 Beth.

7 CHAIR RUSSELL TOWNSEND: So we will
8 break for lunch.

9 (Lunch recess was taken, and the
10 meeting continued on April 25, 2013.)
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