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BEFORE THE FEDERAL ENERGY REGULATORY COMMISSION

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In the Matter of: :  
DISPUTE RESOLUTION TECHNICAL : Project Number 2237-013  
CONFERENCE FOR THE MORGAN FALLS :  
PROJECT :  
- - - - - x

Chattahoochee Nature Center  
9135 Willeo Road  
Roswell, Georgia  
Wednesday, January 19, 2005

The above-entitled matter came on for hearing,  
pursuant to notice, at 9:20 a.m.

BEFORE: NICHOLAS J. JAYJACK  
GERALD A. THORNTON  
DOUGLAS NEIMAN

1           A P P E A R A N C E S

2

3           THE PANEL:

4

5                       NICHOLAS J. JAYJACK

6                       Fisheries Biologist

7                       Office of Energy Projects

8                       Federal Energy Regulatory Commission

9                       888 First Avenue Street, Northeast

10                      Washington, D.C. 20426

11

12                      GERALD A. THORNTON

13                      Staff Attorney

14                      Office of the Field Solicitor

15                      U.S. Department of the Interior

16                      530 South Gay Street, Room 308

17                      Knoxville, Tennessee 37902

18

19                      DOUGLAS NEIMAN (appearing telephonically)

20                      Senior Scientist

21                      Norman Beau Associates

22                      400 Old Redding Pike

23                      Building A-101

24                      Stowe, Pennsylvania 19464

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I N D E X

E X H I B I T S

NUMBER	IDENTIFIED
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## P R O C E E D I N G S

(9:20 a.m.)

1  
2  
3 MR. JAYJACK: Good morning, everyone. Welcome to  
4 our first Study Dispute Resolution Conference. It is a  
5 brand-new process so bear with us. We are trying to figure  
6 out how all this is going to work and we are trying to  
7 follow the Rule that the Commission has put forth and we are  
8 kind of a guinea pig in this process so it is kind of an  
9 exciting time, to say the least.

10 As we stated earlier, unfortunately, one of our  
11 panelists could not be here so we are trying to accommodate  
12 him as much as possible by providing the speaker phone here.  
13 So I think the way we will try to work this so that we can  
14 communicate effectively is we may have to pass this  
15 microphone out if Doug, Doug being the other panelist, is  
16 unable to hear what's going on, and so we will try to work  
17 as much as we can with Doug so that he can participate as  
18 fully as possible.

19 With me here today also is our other panelist,  
20 Jerry Thornton with the Department of Interior Solicitor's  
21 Office in Knoxville, Tennessee. So on behalf of the three  
22 of us I would just like to welcome you all here.

23 I guess a couple of administrative things, the  
24 attendant here mentioned to me about the restroom  
25 facilities. These facilities here in the corner

1 (indicating) are unheated so if you prefer a heated  
2 facility, then go down the hallway here (indicating) and off  
3 to the left by the staircase; there's two other facilities  
4 to be used.

5 We have a court reporter, two court reporters  
6 here today, one from FERC and the other from Georgia Power.  
7 Like I say, this is a new process so the purpose of the  
8 court reporters, at least for FERC's sake, is for us to be  
9 able to record everything that takes place here so that we  
10 can, of course, go back and read through the material. I  
11 imagine you are all probably aware there's a lot of material  
12 on the record and it sometimes can be difficult for us when  
13 we leave to try to sift through the printed materials so  
14 this, hopefully, will help us as well.

15 Jerry, anything you wanted to add?

16 MR. THORNTON: (Shaking head.)

17 MR. JAYJACK: Let's talk a little bit about the  
18 purpose of this meeting. This statement of purpose pretty  
19 much comes straight from FERC's final Rule, which outlines  
20 the purpose of holding this technical conference. We're  
21 here today to provide the opportunity for us, the panel, to  
22 receive clarifying information with reference to the study  
23 criteria, and that clarifying criteria is going to be used  
24 by us to form our determination of the disputed matters.  
25 That, kind of in a nutshell, is why we're here.

1           Based on that meeting purpose I have come up with  
2 a few ground rules, and the reason I have done this is the  
3 final Rule is pretty specific as to the matter that is to be  
4 discussed at this conference and, as much as possible, I  
5 want to stay wedded to what's there. It was a long drawn-  
6 out process to actually write this Rule. And a number of  
7 agencies, NGOs, and folks from the hydropower industry were  
8 instrumental in developing the final Rule, including the  
9 discussions that should be taking place at this technical  
10 conference today so, with respect to them, I have written a  
11 few of the ground rules that, hopefully, will meet with the  
12 meeting purpose, the reason why we are here.

13           What we want to do is we want to receive  
14 information that will be consistent with the matters that  
15 are in dispute. I know there are a number of other issues  
16 that are out there related to the Morgan Falls project, and  
17 we want to stay away from those other issues and simply  
18 focus on the matters that Interior has raised with regard to  
19 disputes that they have with that material.

20           Let me give you a few examples of what acceptable  
21 discussion topics would be. They would be such things as  
22 comments that clarify study goals and objectives,  
23 clarification of the nexus between project operations and  
24 effects. I want to get into a little bit of the technical  
25 and scientific rationale for why additional information is

1 needed and other such information or discussion topics that  
2 are pretty much referenced by the study criteria, criteria  
3 that have been spelled out in the final Rule. Any questions  
4 at this point on why we are here?

5 (No response.)

6 When you all signed up and signed in here, I had  
7 at this desk a technical profile, a typical conference  
8 agenda, so why don't we go through that a little bit to give  
9 you an idea how this is going to take place.

10 What I would first like to do is start out with  
11 technical questions that we, as panel members, have. A  
12 couple of us here have prepared some questions to ask of you  
13 to help clarify some of the matters, and then there will be  
14 some time later for any of the participants here to provide  
15 us with information that they think would help clarify the  
16 matters in this meeting and would be important for us to  
17 hear.

18 My hope is that much of the information that you  
19 want us to look at has already been filed with FERC and has  
20 come out through the records of the proceedings. If there  
21 is anything else that you think we need to listen to or feel  
22 that the material needs clarification that would be the  
23 appropriate time provide that information to us. Any  
24 questions?

25 (No response.)

1 Doug, can you hear us okay?

2 MR. NEIMAN: So far, so good.

3 MR. JAYJACK: We are trying to get the heating  
4 turned off so that you can better hear so bear with us a  
5 little bit.

6 One of the recent development that has taken  
7 place is last Friday, Fish & Wildlife Service filed a letter  
8 to us saying that they wanted to step back from a couple of  
9 the matters that they originally had disputed and so now the  
10 matters of dispute have been narrowed. Does Fish & Wildlife  
11 Service have a statement you want to make at this point to  
12 help explain that or is there somebody from the Department  
13 of Interior here?

14 MR. DUNCAN: I'm Jeff Duncan, Regional Hydropower  
15 Coordinator for National Park Service. We are actually  
16 waiting for our counsel to arrive that was flying in at 8:00  
17 o'clock this morning. Basically we are no longer disputing  
18 under Section 4(e) of the Federal Power Act, though we  
19 continue to dispute, or the Department of Interior continues  
20 to dispute, under the Fish & Wildlife Service's Section 18  
21 authority so that's basically the change that has been made.

22 MR. JAYJACK: Thank you, Jeff. Why don't we  
23 start with the sediment contaminant study dispute, and we  
24 have a list of questions; I know I do and I believe Doug has  
25 mentioned that he may have some questions as well. Let me



1 first go over what my understanding is of the goals and  
2 objective of the study proposal. In its May 20, 2004  
3 filing, Fish & Wildlife Service had indicated that they  
4 wanted the information to better understand the presence or  
5 absence, levels and distribution, of potential contaminants  
6 in the surface sediments of the reservoir. They wanted to  
7 focus the analysis within the project boundary.

8 On December 16, 2004, Interior indicated that the  
9 information will help it to gain an understanding of whether  
10 or not there would be the need for providing safe, timely, and  
11 effective fish passage at the project. So that is my  
12 understanding of what the study goals and objectives are.

13 Given that statement of the goals and objectives,  
14 one question I have for the Fish & Wildlife Service is the  
15 basis of the concern. The gist of the question is why is  
16 there a concern about reservoir sediments given that  
17 contaminants have been found upstream and downstream as well  
18 as the water column, and related to that, is the main  
19 concern bioaccumulation or direct contact with the sediments  
20 of the various aquatic species?

21 MS. LAWRENCE: Alice Lawrence with Fish &  
22 Wildlife Service. I'm out of our Athens ES Office and I  
23 have been working on this project for the duration. We have  
24 requested a sediment contaminant study starting from our  
25 initial filing all the way through until now, starting May

1 14th and in our following letters, the same study. In this  
2 particular situation there is a large amount of sediment  
3 that has located in the reservoir. In light of the fact  
4 that there is this large amount of sediment, the counties  
5 upstream that drain into the river that would catch--the dam  
6 being right there, catching all the sediment, the counties  
7 that are draining into this area, just within the 1990s, the  
8 last decade, the population grown had increased from 23 to  
9 123 percent.

10 Also, as far as other sampling that has been done  
11 in the reservoir itself, in the impoundment, the last  
12 sediment analysis that was done was in the 1980s so that's  
13 about 24 years ago. Lab techniques have changed.  
14 Detectability has changed. And several things that the  
15 applicant has said here, they said, well, hey, we are  
16 conducting water quality sampling now currently. This is in  
17 the water column. When you look at the best available  
18 literature out there, the best scientific information, which  
19 is what we are charged to do, it says that you need to be  
20 looking at the sediment instead of the water quality levels  
21 to determine toxicity, bioaccumulation effects.

22 Also, the applicant has stated some other data  
23 that was collected in the 1990s--this was some USGS data  
24 that they referenced; it's Frick, et al., 1988. This was  
25 collected from 1992 to 1995 so a little bit more recent, but

1 none of these samples were conducted in the project  
2 impoundment itself and that's where we would like to look.  
3 We are trying to determine project effects here. Those  
4 other samples were in some of the tributaries draining into  
5 the impoundment, some areas upstream and downstream, but not  
6 within the project impoundment itself and that's what we are  
7 trying to determine here. The impoundment itself is where  
8 all this sediment is accumulating; that's where we need the  
9 sampling.

10 The applicant has also stated that they meet  
11 State water quality standards and that these standards  
12 protect aquatic life. Once again, we are going with the  
13 best scientific information available, saying that the  
14 sediment is where you need to be looking.

15 Also, the State of Georgia is conducting fish  
16 fillet sampling. That is done for human health reasons so  
17 when they sample and analyze these fillets, you aren't  
18 analyzing the high-fat areas of the fishes that need to be  
19 sampled, like the liver and other areas like that. Because  
20 these are the areas that would bioaccumulate, that would be  
21 going through the food chain. When you are just looking at  
22 the filet itself that's really not the area where these  
23 contaminants would be concentrated anyway.

24 The applicant also cites a report; it's an EPA  
25 report from 1994, "The Incidence and Severity of Sediment

1 Contamination in Surface Waters of the United States", and  
2 this is in their last filing, their January 10th filing. In  
3 this, applicant says that this area of the Chattahoochee is  
4 not identified as an area of potential concern. But this  
5 paper is drawn from the same data that we have already been  
6 looking at, the USGS study I listed before, and a database  
7 that EPA has, the STORET database. None of these has  
8 sampled within the project impoundment. In this paper EPA  
9 has a strength and limitations section where they say  
10 limitations of this data include incomplete sampling  
11 coverage, the age and quality of the data, and then they go  
12 on to say, because this analysis was based only on readily  
13 available electronically-formatted data, contamination  
14 problems may exist at some locations where data are lacking.

15 And then they continue and say, more than two-  
16 thirds of all stations evaluated are in Washington,  
17 Virginia, California, Illinois, Florida, Wisconsin, New  
18 York, Texas, Oregon, and South Carolina. Other states of  
19 similar or larger size, such as Georgia and Pennsylvania--so  
20 they do state those two states as examples--have far fewer  
21 sampling stations and data for evaluation.

22 So all we are saying here is that we need to look  
23 at project effect, and the impoundment has not been sampled  
24 since the 1980s, and in light of the large amount of  
25 sediment that has accumulated, the large amount of fine

1 sediment behind the dam, that we just need to see what's  
2 going on there.

3 MR. HASTY: May I add something to that?

4 MR. JAYJACK: Sure. Please state your name for  
5 the record.

6 MR. HASTY: My name is Keith Hasty. I am also  
7 with Fish & Wildlife Service. The question was whether we  
8 are concerned about--I'm a contaminant specialist whether  
9 it's direct toxicity or cumulative effects or  
10 biomagnification of the food chain--all of the above. We  
11 don't know and that's the problem is we don't know what is  
12 in the reservoir so at this point we can't really say  
13 specifically what we would find out, just that we would like  
14 to find out. Hopefully, there is no problem.

15 MR. THORNTON: I had a question that had to do  
16 with, I don't believe Fish & Wildlife Service has ever  
17 identified exactly what parameters they want tested. Have  
18 you submitted to the record a clear statement of what  
19 testing criteria for contaminants you are interested in?

20 MR. HASTY: In the original letter we did, in  
21 goals and objectives. It is not overly specific as far as  
22 methodology, analytical methods, and whatnot, but in general  
23 we would be looking at the normal parameters we look for in  
24 any contaminant study--chlorinate compounds, some of the  
25 metals, along with the physical parameters of the sediments,

1 total organic compounds, total organic content, grain size,  
2 and whatnot--so it is nothing exotic or unusual that we  
3 would be asking for.

4 MR. JAYJACK: Upon reviewing your filing I noted  
5 that there are many stated study objectives that are  
6 associated with those contaminant studies, and the one I am  
7 really focusing on here is the goal that the study results  
8 will help informed decisions with regards to fish passage.  
9 I'm not quite, at this point, sure the connection you are  
10 making between the two. In other words, what I would like  
11 clarification on is how knowing what the contamination level  
12 of the reservoir sediments is will help you to decide  
13 whether or not fish passage would be necessary to the  
14 project.

15 And related to that is, I would like to touch on  
16 a little bit about any concerns you have with sediments  
17 upstream, outside of the project boundary, because certainly  
18 any fish that might be passed by the dam will not restrict  
19 themselves to the reservoir but would very likely continue  
20 on upstream. So I just need a little clarification on how  
21 you separate those two and how it is all related.

22 MS. LAWRENCE: Your first question is about fish  
23 passage and relation to fish passage. This study is done  
24 not only for the purpose but also the threats to the current  
25 aquatic community. That being said, for fish passage right

1 now we are looking at a range of alternatives here. I can  
2 give a little bit of a rundown on that, if you like.

3 Historically, before the dams that are currently  
4 on the Chattahoochee River, which I think it's 14 now,  
5 before they were here we had historical spawning migrations  
6 of diadromous fishes, such as Gulf sturgeon, Alabama shad,  
7 American eel, striped bass. These are very limited now  
8 compared to what the migrations were before. That being  
9 said, we do have a lot of changes going on in the watershed  
10 right now. The lowermost three dams are locker dams so they  
11 do allow passage for some species. We have two dams that  
12 are proposed for removal downstream. We have a reservation  
13 of authority at three dams. There is also another dam  
14 coming up for re-licensing soon.

15 American eel are coming upstream or being able to  
16 come farther upstream than some of the other species. We  
17 have got the Gulf Coast strain of striped bass that's  
18 currently in West Point and is making spawning migrations to  
19 the base of Morgan Falls Dam currently. Also, there is a  
20 proposal to do some fish passage studies with some of these  
21 species at the locks of the four dams downstream.

22 So reservational authority is one thing we would  
23 be looking, at least changing the watershed where the  
24 license term is three to 50 years, changes in management  
25 objectives, talking about the striped bass coming up to the

1 dam currently. That's something that we would want to look  
2 at in the future.

3 Also, we have State imperiled species that are  
4 currently impacted by this dam. We have got shoal bass;  
5 there is an isolated population of shoal bass that is Big  
6 Creek, which is a tributary to the impoundment and it's  
7 severed from the downstream population. There is also a  
8 State listed fish, the high scale shiner, that has also been  
9 detected in Big Creek; I think five individuals were located  
10 there in 1995. So one thing is we are looking at a range of  
11 alternatives here and this would help us make that decision.  
12 Understanding the status and the quality of the habitat  
13 would help us, once again, make our decision.

14 Do you want to talk about the upstream? I guess  
15 really what we have to go on is that 1998 data from Frick,  
16 et al.?

17 MR. HASTY: Our concern is that the dam is acting  
18 as an accumulation zone for the fine particles where you  
19 would expect to find any contamination bound to the fine  
20 organics or some of the clay particles in the water column.  
21 They tend over time to work their way down that reach of  
22 river and presumably be settled out at the base of the dam.  
23 So upriver, while there may be--and again this is  
24 hypothetical--may be some contamination, we expect over time  
25 that it will be concentrated at the base of the dam. That's



1 why we are concerned with sampling in the reservoir itself  
2 and not necessarily up and down the river.

3 MS. TUCKER: Sandy Tucker, Fish & Wildlife  
4 Service. What maybe you are trying to get at, let me just  
5 make a link between the fish and that accumulated sediment.  
6 I think either the fish that are there now or fish that may  
7 pass into the future, if they were to get there, larvae and  
8 eggs that are upstream, even if they are way upstream, float  
9 back and if they are exposed to those sediments and if there  
10 are some sort of pollutants in it that could be either  
11 direct contact, sort of carcinogenic-depositing pollutants  
12 or bioaccumulating kinds of things, that would be the  
13 connection. So that's how you get the fish to the sediment.  
14 That's the part I didn't hear you guys say. The fish is  
15 what we are concerned about of course. That's the unknown,  
16 if those fish pass through there as well as, as Alice said,  
17 the health of the community that's in there. That's all I  
18 wanted to say.

19 DR. LAYMAN: My name is Steve Layman with Geo  
20 Syntec Consultants. I'm a fisheries biologist and I work  
21 with Georgia Power supporting development of the study plans  
22 and I would like to respond to a few of the comments made in  
23 clarification. First of all, Mr. Jayjack initially said  
24 that there was evidence of contamination in the water column  
25 sediments; I don't believe he intended that. And I just

1 wanted to clarify that there are no data suggesting  
2 contamination of the water column or the sediments in the  
3 project area.

4 Alice Lawrence mentioned the EPA has a date of  
5 1994; that is in fact a 2004 data report. I would like to  
6 clarify that the water quality monitoring data in the  
7 project impoundment and existing sediment data for the Upper  
8 Chattahoochee River do not indicate any potential threat to  
9 aquatic communities. Project waters meet their designated  
10 uses. The sources of data proposed for use in the study,  
11 which include USGS data and EPA STORET data, have been  
12 collected as recently as the 1990s and in fact were used in  
13 the EPA's 2004 report as the basis for its screening level  
14 assessment. To imply that these data are outdated is not  
15 appropriate, does not properly reflect the comprehensive  
16 nature of studies that have been conducted in this basin  
17 involving water allocation over the past decade or more.

18 As further justification for there not being any  
19 evidence of potential threats, the US Army Corps of  
20 Engineers prepared an Environmental Impact Statement in 1992  
21 evaluating commercial sand and gravel dredging in the  
22 Chattahoochee River National Recreation Area and did not  
23 identify sediment quality as a significant issue. In fact  
24 dredging occurs today in the Chattahoochee River and it has  
25 occurred as recently as the last two years within the Morgan

1 Falls impoundment, and the National Park Service issued  
2 permits for these dredging activities without requiring  
3 sampling of sediment quality.

4 The Department of Interior has not explained the  
5 nexus between project operations and its effect on sediment  
6 quality. Georgia Power is not proposing any major new  
7 construction or sediment-disturbing activities at the  
8 project. The project does not cause or contribute to  
9 sediment contamination in the Chattahoochee River. Although  
10 the project can influence sediment deposition, sediment  
11 chemical loads related to the suburban land usage that  
12 surrounds the project, and therefore the NAQA data, the  
13 National Water Quality Assessment data collected by USGS,  
14 properly reflect the sources of sediment that enter the  
15 basin and that are deposited in the Morgan Falls  
16 impoundment.

17 DOI, the Department of Interior, has acknowledged  
18 that there are no applicable sediment arteria in Georgia and  
19 therefore gathering information on sediment quality without  
20 applicable standards, simply based on presence or absence  
21 would inform licensing decisions. Department of Interior  
22 has not adequately explained its relevant resource  
23 management goals or study objectives related to Section 18,  
24 which is required by the study criteria one and two at  
25 Section 18, CFR 5.1.

1           They have not mentioned fish passage in their  
2 original study request. They never mentioned fish passage  
3 in the study plan meetings and it was only after the  
4 Commission issued its final study plan determination that  
5 fish passage was brought up as an objective for the study.

6           I would like to also observe that in terms of  
7 diadromous fish species--diadromous species are those that  
8 migrate between fresh water and soft water environments to  
9 complete their life history--there is one species that is  
10 located downstream of the project and it is the striped  
11 bass, which was introduced into West Point Lake in the early  
12 1990s. There is evidence of some reproduction of striped  
13 bass in the Chattahoochee River below Morgan Falls; however,  
14 studies done by Brent Hess and Cecil Jennings have looked at  
15 temperature and food habits of the striped bass.  
16 Temperature of the cold water releases from Buford Dam  
17 apparently limit the reproductive capacity of striped bass  
18 in this reach.

19           The striped bass also feed on trout; trout are  
20 the number one fish food item of striped bass that migrate  
21 into this reach. And these issues and this existing  
22 information has not been explained by the Department of  
23 Interior with regard to resource management goals and  
24 objectives for this reach of the river.

25           One final point regarding the impoundment and its

1 ability to retain sediment. Information provided in the  
2 pre-application document has shown, based on three estimates  
3 using best available information on sediment deposition in  
4 the impoundment that that sediment deposition has declined  
5 dramatically since 1976 and that sediment is moving through  
6 the project now more than it is depositing in the  
7 impoundment.

8 Finally, with respect to sediment quality and its  
9 ability to inform decisions regarding Section 18, as  
10 documented in the USGS NAQA study as well as the EPA  
11 Sediment Report in 2004, the areas of greatest concern  
12 regarding sediment quality are in the Chattahoochee River  
13 downstream of the City of Atlanta, which is outside of the  
14 watershed of the Middle Chattahoochee project. This is an  
15 area that fish migrating upstream from West Point Reservoir  
16 would have to pass through on their journey upstream to the  
17 Morgan Falls impoundment and there is no evidence to suggest  
18 that sediment quality of the impoundment has any greater  
19 bearing on potential passage of these fish than the sediment  
20 quality downstream of Atlanta.

21 Finally, the striped bass that would pass  
22 upstream, if fish passage were provided, would spawn in  
23 habitats in the free-flowing river upstream of the Morgan  
24 Falls impoundment and would not be spawning in substrates in  
25 the Morgan Falls impoundment. As young fish they would

1 drift in currents downstream of the impoundment and they  
2 would maintain a more or less pelagic lifestyle in the  
3 impoundment without strong interaction with the substrates.  
4 Finally, there is no present evidence of sediment  
5 contamination or adverse effects on aquatic communities in  
6 the impoundment.

7 MR. TANAKA: Ted Tanaka from the Department of  
8 Interior Solicitor's Office. I just want to respond to a  
9 couple of what I think were general points. There is a lot  
10 of detail just brought out by Georgia Power's fish  
11 biologist, but to me it seems that most of it is going to  
12 feasibility type issues, and in my opinion under the Rule,  
13 under the Commission's regulation, that argument is fine but  
14 that should come up later in this process. At this point in  
15 time the Department of Interior does not prescribe any  
16 provision for fish passage; it is still in the process of  
17 determining whether or not it is going to prescribe fish  
18 passage, how we are going to implement the Section 18  
19 authority.

20 For us this study, this sediment contaminant  
21 study, is going to help the Secretary of Interior and the  
22 Fish & Wildlife Service implement that authority. At this  
23 point in time we have not decided on this specific  
24 provision. I think we are premature, quite frankly, in  
25 arguing the specifics of fish passage feasibility and

1        whatnot at this point. That is something you will have an  
2        opportunity when and if the Secretary does implement fish  
3        passage provisions at this dam. There is a mandatory  
4        petition for review process. There is an EPA process, legal  
5        process. There is plenty of time for that.

6                    At this point in time, the way I read the  
7        regulations, the way the Department feels about this is that  
8        information is necessary for the Secretary to determine  
9        whether or not fish passage is going to be required or  
10       necessary, whether it is going to be appropriate there, and  
11       how should the Department best implement the authority.  
12       That is kind of a general--and I don't know what else to say  
13       about that. I think we're down into details on feasibility  
14       and, quite frankly, fine points of biological issues before  
15       we have even decided what we are doing, flat out. The data  
16       and the studies we are asking for will provide beneficial  
17       information, as Fish & Wildlife had already explained, to  
18       help the Department of Interior decide whether or not to  
19       prescribe, to reserve authority, or whatnot in the future.  
20       Thanks.

21                    MR. JAYJACK: Let me clarify a little bit the  
22       point of the question I was asking. One of the things we,  
23       as a panel, have to do is try to assess a nexus between the  
24       study objectives and the information that is to be obtained.  
25       So what I have tried to do, and not given any previous

1 guidance on exactly how to do this, but it seemed logical to  
2 me to put myself in the place of a Fish & Wildlife Service  
3 biologist in making an assessment of whether fish passage  
4 would be needed.

5 And based on the information that Interior gave  
6 to me it seemed like that the line of thinking was that if  
7 the sediments in the reservoir would be found to be  
8 contaminated, that would give cause for consideration as to  
9 whether or not it's a good idea to pass fish upstream for  
10 fear that these fish may be harmed, that the sediment  
11 contamination could potentially be so severe that  
12 populations could not be established upstream. So I am  
13 speaking very generally; I am not speaking specifically to  
14 the project but just in general terms with regards to the  
15 line of thinking that the Fish & Wildlife has.

16 And I do that to try to figure out what the nexus  
17 is here. In my opening statement I mentioned that the issue  
18 of sediment contamination reaches across broad resource  
19 levels, but for purposes of this study dispute resolution I  
20 am simply focused on what Interior has stated are its goals  
21 and objectives with regard to this particular matter in  
22 dispute, if that makes sense.

23 MR. THORNTON: Georgia Power just reiterated a  
24 few minutes ago its allegation that there is no applicable  
25 sediment contamination criteria because the State of Georgia



1 doesn't have any, and I remember the Fish & Wildlife Service  
2 said in its submission that they would be glad to supply  
3 some. And I guess my question is, what criteria does Fish &  
4 Wildlife Service have in mind and have they been supplied  
5 through the record or will they be today?

6 MR. MOORE: If I may, I needed to respond to the  
7 previous argument regarding study criteria made by Mr.  
8 Tanaka.

9 MR. THORNTON: Okay, let's hold my question for a  
10 minute then and get your response.

11 MR. MOORE: I appreciate it. My name is David  
12 Moore and I'm an attorney with Troutman, Sanders. I am also  
13 a biologist and my experience includes some years of  
14 involvement with environmental groups and environmental  
15 protection agencies, specifically in the area of water  
16 quality standards as well as toxicology and toxic substances  
17 in the Superfund program.

18 I would like to address, just very briefly, the  
19 request of the panel for additional information regarding  
20 what possible nexus this study could possibly have to  
21 Section 18. I think we all can observe we heard some  
22 statements regarding possible impacts to fish and aquatic  
23 life from some toxic substances, which there is no evidence  
24 exist in this impoundment or upstream.

25 We also heard a discussion that some of the

1 aquatic species that Fish & Wildlife Service is interested  
2 in were shoal bass and other species that are not  
3 diadromous, and I would present that those are not  
4 considerations for the panel because those would not relate  
5 to Section 18 authority.

6 With the existing information, which was  
7 described very adequately by Dr. Steve Layman of Geo Syntec,  
8 and with an understanding of current operations in the  
9 system, and that involves the contributions of contaminants  
10 that if they do arrive in this river they would arrive from  
11 some of the things that Ms. Lawrence mentioned, the  
12 suburbanized area--nothing to do with the project itself--  
13 and the studies that were being proposed, there would be  
14 more than adequate information for Mr. Tanaka to make his  
15 determination regarding whether or not Section 18 needs to  
16 be addressed or not in a license.

17 We will point out that, again, Section 18 has  
18 never been raised not even in scoping; it was raised, in the  
19 first instance, after the Commission issued its study plan  
20 determination, which is procedurally questionable; however,  
21 it was raised in that document and there is not a lot of  
22 implication of the basis for a nexus.

23 Now, Mr. Tanaka asked us to take it under  
24 advisement that they haven't decided whether fish passage is  
25 necessary so they don't need to provide additional specific

1 information, but we stand here today without having any  
2 information as to how any of these species might be affected  
3 by contaminants or whether or not they would have any  
4 bearing on the question of fish passage. There has been no  
5 specific identification of species that might be affected,  
6 no specific identification of contaminants that might affect  
7 those species.

8 We would submit that if the issue was whether or  
9 not aquatic life would be affected somehow by contaminated  
10 sediment that the Georgia Water Quality Standards do  
11 specifically address those issues, and those issues have  
12 been addressed through the appropriate mechanism, which is  
13 through the rule-making process in the State of Georgia,  
14 administered by the Georgia Environmental Protection  
15 Division.

16 If you look through the original request of May  
17 14th Fish & Wildlife Service, not in the context of Section  
18 18 but in the context of general goals, did identify some  
19 general types of contaminants, not real specific  
20 contaminants except for PCBs and Mercury. The Georgia Water  
21 Quality Standards specifically address PCBs and Mercury,  
22 specifically for the protection of aquatic life in Georgia.

23 Regarding the other types of contaminants--poly  
24 aromatic hydrocarbons, organic chlorines--Georgia Water  
25 Quality Standards have over 100 different toxins for which

1       there is a specific criteria that has gone through rule-  
2       making and the State has determined that those criteria in  
3       ambient water quality are protective of aquatic life. And I  
4       will also note, those standards are reviewed and approved by  
5       the United States Environmental Protection Agency and also  
6       through consultation with the Department of Interior Fish &  
7       Wildlife Service through memoranda of agreement, those  
8       standards are also reviewed by Department of Interior.

9               So we would present that there is an issue  
10       regarding whether or not those criteria, and by the way,  
11       whenever samples are taken quarterly by Georgia Power in the  
12       impoundment those criteria are being met. In fact there's  
13       non-detects for the majority or all of the pollutants that  
14       are identified by Fish & Wildlife Service.

15              We would submit that, to the extent that there is  
16       an issue, that that needs to be handled through the Water  
17       Quality Standards Program directly by the Department of  
18       Interior through the existing process. It is not  
19       appropriate to have a licensee conduct sampling where there  
20       are not criteria; it is not appropriate for them to dispute  
21       the water quality standards through this re-licensing  
22       process; there are processes for that.

23              Finally, I would say regarding the existing  
24       information--and Dr. Layman provided a summary of the  
25       existing information--it's the United States Environmental

1 Protection Agency that's been authorized to make a  
2 determination with regard to water quality standards and  
3 effect on aquatic life, and they have done so in the most  
4 recent 2004 report. It seems and sounds as though  
5 Department of Interior is not happy with that but that is a  
6 decision for the EPA to make, not for the Department of  
7 Interior. If existing information is good enough for EPA it  
8 certainly should be good enough for this re-licensing.

9 And secondly, again I will point out that the  
10 Park Service does not require that type of information.  
11 They specifically allow land-disturbing activities in the  
12 CRNRA. So if it's good enough for the Park Service, one of  
13 the branches of DOI, then certainly there would be no basis  
14 to require sediment sampling for re-licensing this project.

15 Finally, I will note that because DOI has raised  
16 the issue of Section 18 so late in this process, there is no  
17 information in the record regarding what is their  
18 establishment of nexus of sediment contamination to some  
19 fish passage goal and objective. In fact there is no  
20 identification of fish passage as a goal or objective until  
21 after the notice of study dispute.

22 There has been no discussion as to why existing  
23 information is not adequate to provide them with the  
24 information that's available. We hear some new things  
25 today, but as far as documents provided previously, the

1 record and statements all through study plan meetings and  
2 through scoping, which began early in 2004, there has never  
3 been an identification of this issue and we would submit  
4 that what has happened here is, for whatever reason, the  
5 Department of Interior has decided that it doesn't want to  
6 seek to have this analysis done for other reasons, possibly  
7 recreation area reasons, but instead has decided that  
8 perhaps that case was not a good case; perhaps they thought  
9 they weren't going to prevail on that but they shifted over  
10 to Section 18.

11 So they need to provide some basis and some nexus  
12 to Section 18, then to provide some identification of  
13 information that's necessary to implement Section 18. They  
14 should not be allowed to come before the panel today and say  
15 merely that these decisions have not been made and therefore  
16 we want to go ahead and get the information and make those  
17 decisions later. And that concludes my remarks.

18 MR. JAYJACK: This is Nick Jayjack with FERC. I  
19 think we are getting a little bit off the path here and let  
20 me explain. Let me explain a little bit about what the  
21 panel has been tasked to do here. We have not been asked to  
22 make any kind of legal calls as to when we would receive  
23 material, the legality of looking at certain material, that  
24 sort of thing.

25 The information came to FERC--the information I

1 refer to is the December 16, 2004 study dispute--that was  
2 looked at by staff at FERC that are associated with this  
3 project and then the material was passed on to us. Then, as  
4 a panel, we were told that these are the matters that are in  
5 dispute and this is what we need to look at.

6 We were specifically told to focus on the  
7 criteria that are specified in Section 5.9 of the Rule. You  
8 will note that it doesn't specifically go into whether or  
9 not a potential Section 4(e) recommendation is valid or a  
10 Section 18 authority is valid; it is very non-specific. So  
11 as a panel we are operating on the criteria that are  
12 specified in Section 5.9, so I don't want to get too far off  
13 that path. I hear your concerns. Those concerns really  
14 should be passed on to the Commission and the Commission  
15 staff that are associated with the project as opposed to the  
16 panel; this really isn't the forum for that sort of thing.

17 Again, we are here today to clarify the matters  
18 that are in dispute where it is related to the criteria, so  
19 we really want to focus on the information as opposed to the  
20 process.

21 MR. TANAKA: Just quickly. I think you touched  
22 on some of my concerns. I, too, felt that we were going  
23 down a road that we didn't need to, but just a couple of  
24 points. First off, when it comes to the Section 18  
25 authority and how the Department interprets that, what we do

1       when we prescribe fish passage we do it consistent with the  
2       Federal Power Act and existing case law and departmental  
3       policy. So the argument that there's only one or two  
4       diadromous fish species there and that's all we are going to  
5       move or that may be the only thing we can move, we'll  
6       address that later at the appropriate time. As for pure  
7       legal argument that he has raised, whether or not--exactly  
8       what type species can be passed under Section 18 authority  
9       is something that I will address at the appropriate time.

10               Procedural matters, we think we have raised these  
11       appropriately. Dispute resolution is open to mandatory  
12       agencies with Section 18, 4(e) authority; it's the first  
13       time in the regulation it's mentioned is for this. Hence,  
14       we are now--the only reason we are here talking about 4(e)  
15       and 18 is because it was necessary to get into dispute  
16       resolution. I don't know what else to say except for I  
17       think the Department of Interior has complied with  
18       regulations in getting to this point.

19               MR. JAYJACK: Thank you, Kevin. I just want to  
20       reiterate that we are not, as a panel, going to make any  
21       procedural issues rulings; that is going to be left up to  
22       FERC. I know the lawyers want to get at it on those issues,  
23       but we are here to try to--assuming that these studies that  
24       are requested are on a table here, we want to look at the  
25       criteria of Section 5.9 and see if the proposed studies are



1 appropriate basically on their technical basis. And we will  
2 leave it to the lawyers to argue and the Commission to rule  
3 later about whether procedurally Interior got its request  
4 here timely or appropriately, or otherwise right or wrong.

5 Did you have a response to the particular things  
6 and then we'll get back to my questions.

7 MR. HASTY: A couple of quick comments on the  
8 study criteria. And I think we are confusing two different  
9 issues. While the State of Georgia does not have a  
10 regulatory criteria for sediment, what has been measured in  
11 the reservoir and in the River has been the water quality  
12 parameters and we are not contesting the water quality  
13 parameters or other statutory stuff as that; we are looking  
14 specifically at sediment. And what water quality doesn't  
15 catch are a lot of the fine particles that are going to  
16 settle out down to the bottom and affect the benthic  
17 organisms, the benthic-dwelling fish, and any other fish  
18 that feed on those animals.

19 There is no state criteria for sediment but the  
20 literature is replete with examples of criteria for sediment  
21 for the protection of aquatic organisms. There are some  
22 state policies from other states. There are some scientific  
23 studies related to individual organisms of the populations.  
24 So anybody that wants a reference list, we can certainly  
25 provide a reference list of applicable criteria for sediment

1 for protection of aquatic life. I just kind of want to make  
2 that clear that water quality and sediment are two different  
3 animals.

4 MR. JAYJACK: The gist of my question as to ask,  
5 if you have identified such criteria that you propose should  
6 be analyzed or that the analysis should compare to this  
7 criteria, that those references be placed in the record if  
8 they are not already.

9 This lady has been waiting; let's hear from her  
10 first.

11 MS. MALVERN: I have just one very brief point.  
12 I am Maureen Malvern from the Florida Department of  
13 Environmental Protection. I just wanted--Dr. Layman  
14 mentioned the comprehensive studies in the context of water  
15 allocation among the three states; that's something I know  
16 something about. I just wanted to point out, though I am  
17 sure there is some good information in those studies, they  
18 were done in a settlement context; they were not meant to be  
19 a definitive last word on the science. Because I have  
20 talked to some of the technical people that were involved in  
21 that and it was, to some extent, provisional, that is, if we  
22 try this allocation or formula, assuming this and this, for  
23 this purpose. So it was all done in the context of the  
24 Alabama litigation that began in 1990 so it shouldn't be  
25 taken as the last word for anything technical.

1                   MR. THORNTON: We haven't heard from this fellow  
2 over here yet and he has been waiting patiently, so let's  
3 give him a chance.

4                   MR. CHEEK: My name is Terry Cheek. I am with  
5 Geo Syntec Consultants and here in support of Georgia  
6 Power's re-licensing efforts for Morgan Falls. I just want  
7 to respond to some of the comments that were made regarding  
8 several of the issues. One, sediment criteria, there are no  
9 promulgated sediment criteria. There are guideline values  
10 of various sources that are available to screen sediments  
11 but there are no promulgated criteria.

12                   Also, I want to indicate that just the mere  
13 presence of sediments alone in this reservoir does not  
14 indicate or dictate that there is contamination present. I  
15 mean it's a natural phenomenon that occurs but we do have  
16 some other indications as to what the quality of those  
17 sediments might be.

18                   The overall goal that DOI would have in  
19 evaluating sediments would be to determine what impact they  
20 may have on the aquatic community--and my background, I am  
21 an aquatic biologist--we have indications of what that is.  
22 There is information there now that should feed any concern  
23 or opinion about the impact on the aquatic community.

24                   Water quality standards not only deal with the  
25 water column concentrations but they also deal with the

1 ability of that water bottom to support aquatic communities.  
2 The aquatic communities are fully supported there. If they  
3 weren't it would be on the 303(d) list as an impaired water  
4 body, so it is supporting the aquatic community. So there  
5 is no indication--I mean the presence of sediments doesn't  
6 tell us that it is contaminated; the status of the aquatic  
7 community doesn't indicate that it is contaminated; the  
8 status of the water column water quality doesn't indicate  
9 that it is contaminated. So there's really no driver here  
10 to go and conduct additional samples.

11 EPA has looked at the available data, and it's  
12 some fairly recent data, and has indicated that the Morgan  
13 Falls area is not an area of probable concern. So there is  
14 a lot of information. These are the facts that are there  
15 that do not compel someone to go and sample additionally.  
16 Thank you.

17 MS. LAWRENCE: I just wanted to address some of  
18 the nexus issues. We are going to submit a filing next week  
19 so this will be on the record, like the 25th or 26th, I  
20 guess. For one thing the applicant states that there is no  
21 nexus between re-licensing at the Morgan Falls project and  
22 contamination of sediments; we disagree. Clearly, the  
23 concentration and the accumulation of any contaminants, if  
24 they were there, bound to the sediments is directly related  
25 to the presence of this dam.

1           The applicant further states that they are not  
2 proposing any new major construction or ground disturbing  
3 activities. For us, right now we are looking at project  
4 effects--direct, cumulative, indirect effects.

5           The applicant states that the project operation  
6 could influence sediment deposition but chemical loads are  
7 not directly related to hydro operation; we understand that.  
8 We know that chemical loads are not directly related to  
9 hydro operations. However, the accumulation and an  
10 increased concentration of contaminated sediments, if  
11 present, are definitely related to the project and the  
12 project operation.

13           Lastly, the applicant states that there are no  
14 operational alternatives that would affect sediment  
15 contamination and data from sediment sampling would not  
16 inform the development of license requirements. If data  
17 from a sediment-sampling study determined that sediment  
18 contamination in the project area was potentially affecting  
19 the aquatic community, and absolutely that no operational  
20 alternatives could be identified, there are other options to  
21 enhance or mitigate for this. So right now we are looking  
22 for project effects. Thank you.

23           MR. JAYJACK: I have a follow-up question related  
24 to what this gentleman had just mentioned. I am trying to  
25 understand what is happening in the watershed here. I think

1 I speak for myself here; I think I am truly separated staff  
2 when it comes to this, simply not having been involved with  
3 the project at all prior to this and not real familiar prior  
4 to this with the basin.

5 In looking through the record of information and  
6 having in the back of my mind the idea the question of what  
7 additional information might be necessary and why it is  
8 needed, with that thought in mind I have been reviewing  
9 through the various reports that have been done by the USGS.  
10 I believe there is a report by the EPA and various others  
11 that are related to water quality in the basin, are related  
12 to storm water runoff management, and that sort of thing.

13 And one of the things I noted is that studies  
14 done specifically at Morgan Falls are notably absent. The  
15 question that raises in my mind is why. Related to that  
16 also is, I am wondering if, aside from specific water  
17 quality parameters, has there been any observation of  
18 external signs of contamination on various fish species, and  
19 I am sure Georgia DNR does quite a bit of sampling of the  
20 river and I would think certainly within the project area.

21 So because Interior and/or Fish & Wildlife  
22 Service has raised the issue of contamination and the  
23 effects on fish populations, the question I have is how  
24 populations elsewhere in the basin, in light of all the work  
25 that has been done, how those populations are being affected

1 by any potential contamination that may be taking place. I  
2 hope that makes sense, and if anyone could respond to that  
3 and help me to better understand what is happening, that  
4 would be very helpful.

5 MR. TANAKA: Could you rephrase?

6 MR. JAYJACK: Let me ask it in the form of a  
7 question, sorry. My question is, I am getting to the root  
8 of why Morgan Falls, specifically the reservoir, is a  
9 concern given that, in light of all the studies that have  
10 been done, Morgan Falls was left out of the various sampling  
11 schemes. So I guess what I am hearing the Fish & Wildlife  
12 Service saying is that it is kind of a theoretical argument.  
13 There are sediments that are moving downstream as they  
14 always do in rivers, and allegedly they are accumulating  
15 within the reservoir. And because contaminants bind to  
16 sediments, then the thought is that there is a potential for  
17 contaminants to be accumulating within the reservoir; I  
18 understand that part. But to help me understand what is  
19 going on on a broader scale and to better understand the  
20 Fish & Wildlife's concerns, is there concern elsewhere in  
21 the basin or is it limited to Morgan Falls?

22 MS. LAWRENCE: We are just bringing this up for  
23 the Morgan Falls impoundment because that's what this re-  
24 licensing encompasses. So therefore we wouldn't go outside  
25 the project area for our concerns for this particular

1 proceeding.

2 MR. JAYJACK: Right. But if there is no data for  
3 the reservoir, then you have to look outside of the project  
4 area and see what is happening elsewhere to help formulate  
5 your thoughts as to what potential contamination issues may  
6 be present in the reservoir, and that's what I am getting  
7 at. What information have you looked at in order to  
8 formulate your issue?

9 MR. HASTY: It's the land use changes in the  
10 area. You look at a suburban landscape or an urbanized  
11 landscape and you get all kinds of different runoff issues  
12 from, say, forestry or agricultural areas, from metals out  
13 of car operations coming off the pavement, oils and  
14 petroleum products off automobiles, to lawn and garden  
15 pesticides and herbicides, which studies have shown that, as  
16 far as quantities used, suburban homeowners use by far more  
17 of these agricultural-type pesticides and herbicides than do  
18 farmers just because it's cheaper, and more is better. I  
19 guess the farmer is more knowledgeable in the use of that  
20 stuff.

21 So were are just concerned about the fact that  
22 this has changed in the last 20 years drastically and we  
23 don't know what is coming off the landscape and what might  
24 be accumulating in that reservoir. So that's kind of what  
25 we're looking at. It's a black hole; we don't know.



1                   MR. JAYJACK: Well, my follow-up question related  
2 to what I said before. Given that land use has changed--and  
3 again, I am just trying to understand what is going on--have  
4 we seen effects on fish population outside of the project  
5 area since there are these reaches that are very near the  
6 project that are affected by the same change in land use  
7 patterns, and that's what I am getting at.

8                   MR. HASTY: Well, I guess, again, with a free-  
9 flowing stream or river and again, we're not necessarily  
10 talking water quality but the ambient water; we're talking  
11 the sediments in the bottom. In a lot of these faster-  
12 moving creeks and streams and rivers there is not that great  
13 accumulations of the fine particles like there might behind  
14 this dam.

15                   I personally don't know if anybody has looked at  
16 different fish populations or aquatic systems to see if  
17 there has been a change. I would assume off the top of my  
18 head that, certainly with the suburbanizing area that was  
19 before that forested or agriculture, you would see pretty  
20 significant changes in the aquatic ecosystem. But I  
21 personally don't know of any specific studies that have been  
22 done that have shown changes in these populations.

23                   One of the other questions was external  
24 appearance, any indication by looking at the fish. Not that  
25 I am aware of, but I don't know that anybody has ever

1 sampled, specifically looking at external lesions or any  
2 other malformations of the fish that would indicate--at that  
3 point it would be a gross contamination problem. And I  
4 don't know that we are going to find a gross contamination  
5 problem or any contamination problem behind this dam, but we  
6 don't know until we look; that's what we are getting at.

7 MR. JAYJACK: Thank you.

8 MS. LAWRENCE: I think Jim is going to talk about  
9 your question in relation to fishes, but for mussels. The  
10 mussels have been wiped out for whatever reason; it could be  
11 a combination of different things but compared to historic  
12 populations. They just did a study--I don't know exactly  
13 when that was completed--but they found one species that's  
14 an exotic that is very tolerant for corbicula.

15 DR. LONG: Jim Long, Dr. Jim Long--we're throwing  
16 our doctorates around today--with the National Park Service.  
17 The Recreation Area contracted a study for mussels and all  
18 we found was corbicula, the exotic Asian clam, and they did  
19 note that there were some areas where even those were  
20 absent, indicating poor water quality.

21 Related to the basin, there have been fish kills  
22 in tributaries going into the Chattahoochee, I know Rockwood  
23 Creek for sure, but that's not in the area, and then in some  
24 other adjacent areas. So there have been issues.

25 MR. THORNTON: One thing that has been bouncing

1 around in my head is whether there is any reason to believe  
2 that as the sediments come into the reservoir--and Georgia  
3 Power is saying that the reservoir's accumulation rate is  
4 declining so that more and more sediment is, in effect,  
5 passing through--is there any reason to think that there is  
6 a differential deposition of contaminants as the sediment-  
7 laden water passes through the reservoir. Is there any  
8 reason to think that same amount, if you get to a steady  
9 state, that the amount of contaminants would still increase  
10 and the sediment is trapped in the reservoir as opposed to  
11 simply flowing through? Any of the technical people have  
12 any visions on that, as to whether that would be a parameter  
13 to justify or negate the need to further sample behind the  
14 dam?

15 (No response.)

16 Hearing none--

17 MR. COX: I may have one comment on that. I am  
18 Fred Cox. I am an engineer with the Power Company in the  
19 Hydro Services Group. We have said, based on measurements  
20 that we made, the only three measurements we know of for  
21 volume in the reservoir, we have looked at some stuff like  
22 the Brune curve that would indicate, for a small reservoir  
23 like this that a large portion of sediment moves through the  
24 reservoir, gets passed downstream. If you look at basic  
25 information on sediment transport, the heavier particles are

1 going to be the ones that are going to settle out. The  
2 smaller particles are the ones that are going move on. Now,  
3 I'm no expert on contamination but I have heard it said  
4 several times in here that the contamination concern would  
5 be binding to the fine sediments. I would expect more of  
6 them to pass through the dam and move downstream, and what  
7 sedimentation is occurring is going to be the heavier  
8 particles. That's the only comment I have.

9 MR. JAYJACK: Doug, can you hear me okay?

10 MR. NEIMAN: Yes, I have been following along  
11 quite fine. Thank you.

12 MR. JAYJACK: I want to ask you if you have any  
13 questions at this time? I can try to put the microphone  
14 down here and see if your questions come through. Just a  
15 second.

16 MR. NEIMAN: The ones that you have been asking  
17 are right along the kinds of things that--I don't have  
18 anything to add, I guess, at this point on this subject.

19 MR. JAYJACK: That makes it easy.

20 MR. NEIMAN: You guys are doing a good job.

21 MR. JAYJACK: Well, at this time then are there  
22 any other people who wanted to speak specifically on the  
23 contaminant study request?

24 MS. NICHOLAS: I'm Betsy Nicholas with Upper  
25 Chattahoochee Riverkeeper. We have been involved with this

1 process from the beginning and were at all the meetings and  
2 submitted comments at every point. I just wanted to address  
3 a few things. Specifically, the main thing that I keep  
4 hearing from Georgia Power about the contaminant study is  
5 that there is no evidence of problems, contaminants, that  
6 there's no data that shows that. But what I am hearing from  
7 that is that's because it hadn't been looked at.

8           There isn't evidence of sampling occurring in the  
9 basin or in the impoundment area since about 1980; that is  
10 an indication that we really need to look at this. It's not  
11 that we necessarily think there is a contamination problem  
12 but we need to know that because it really could have an  
13 impact on the decisions that are made going forward. So I  
14 think that the main point here is that there really is the  
15 black hole of information about what's going on in the  
16 impoundment and we need to find that out early at this point  
17 in order to make our decisions going forward.

18           MR. THORNTON: Fish & Wildlife Service indicated  
19 in its December 16th standpoint, and also in its, I think,  
20 back in May 14th proposal, that whole fish analysis as  
21 opposed to the fillet analysis that I understand had been  
22 done on fishes would be an acceptable alternative to  
23 sediment study. I don't recall hearing from Georgia Power  
24 why they wouldn't be happy with that. Would someone from  
25 Georgia Power like to address that?

1 DR. LAYMAN: Yes, this is Steve Layman. We have  
2 not addressed that because of the reason that we have set  
3 forth in the record in the revised study plan and in our  
4 recent filing of Georgia Power on January 10th, that there  
5 is no evidence of contamination problems with the aquatic  
6 community based on existing water quality data, fish tissue  
7 data. So the need for that additional information has not  
8 been established consistent with study criteria in 5.9(b(4)).

9 I would just like to add in regard to this  
10 indication of some that there is an absence of data, there  
11 are a great deal of water quality data for the main stem  
12 Chattahoochee River and its tributaries, collected by water  
13 intakes, upstream and downstream of the project, collected  
14 by Georgia EPD and other entities on the river. There is a  
15 substantial amount of information on water quality in the  
16 Upper Chattahoochee River, and the sediment sampling data  
17 that was done by the USGS in the early 1990s related their  
18 finding to suburban land uses, which was well under way by  
19 that time in these watersheds.

20 MR. JAYJACK: Kind of a related question that I  
21 have had is, getting back to some of the existing  
22 information that's there, I recall a document that the Corps  
23 had produced back in 1981 and included in that document were  
24 data that showed sediment distribution in the reservoir.  
25 And as I recall they noted that predominant sediment type

1 was sand at the time, with small amounts of silts, clays,  
2 and other material; I think they mentioned gravels.

3 I have not seen the reservoir at this point; I  
4 have never visited the site. I plan to either later today  
5 or tomorrow, but my question is that since the concern has  
6 been raised regarding silts, in particular, is there  
7 widespread siltation or presence of silts in the reservoir?  
8 Can anybody touch on that or do we know?

9 MR. STOCKSLAGER: Define silts, what you call  
10 silts.

11 MR. JAYJACK: Oh, define silts--very small, very,  
12 very tiny particles, smaller than sands.

13 MR. STOCKSLAGER: Yes.

14 MR. JAYJACK: There are?

15 MR. STOCKSLAGER: There are. Jim Stockslager,  
16 President of Huntcliff Homes Association. We have a couple  
17 of miles along the river, across from here, and we are  
18 inundated with silt every time there is a flood. My  
19 understanding is that the sand people, who used to mine  
20 upstream, are no longer mining because they don't get enough  
21 sand out of the river, and the City of Roswell has bought  
22 that property and the sand people are using it as a  
23 distribution area now but they are not taking any sand out  
24 of the water is my understanding.

25 We are having a tremendous problem with silt,

1 well, more based on Buford Dam when they release excessively  
2 or we have a flood like the hurricanes. It's a very, very  
3 fine, slimy silt that gets in our pastures of our stables  
4 and makes the ground untenable for three or four weeks.  
5 Then we have to come and scrape it off or add sand to try to  
6 get some basis back other than pure silt, and I can show you  
7 tons of it. Thank you.

8 MR. THORNTON: I am kind of showing my ignorance  
9 about all of the stuff in the record right now but the  
10 Atlanta Sand and Gravel Company permit application data from  
11 1996, is it in the record? I have not seen it. Has anybody  
12 purported to place that in the record? If you want it  
13 considered it needs to be in the record.

14 As I understand it there was a study in  
15 relationship to an application for another sand and gravel  
16 permit in 1996, which the sand and gravel company decided  
17 not to do after all; that's my recollection. But,  
18 supposedly, there are data from that application that were  
19 referenced in a couple of documents I have seen, but I  
20 haven't seen the data itself.

21 MR. JAYJACK: I'll tell you what, unless there  
22 is an objection, why don't we take short recess at this  
23 time. I think it would be a good idea to give the court  
24 reporter a break as well. I am showing 10:40, so why don't  
25 we reconvene in 15 minutes.



1 (Brief recess.)

2 MR. JAYJACK: While we were on break someone  
3 approached me and asked me about recessing for lunch. Given  
4 that it's 11:00 o'clock and it appears we have quite a bit  
5 more to discuss today, the answer is yes, and we will  
6 probably do that around 12:15 for an hour. We'll see how  
7 the conversations and discussions flow, but expect it around  
8 12:15 or so.

9 Where we left off before the break there was a  
10 question by Jerry Thornton. And his question was whether or  
11 not the data in a 1996 gravel permit that has been  
12 referenced in a billing to FERC's project director, whether  
13 that data has actually been filed, and I think George Martin  
14 with Georgia Power has a response to that.

15 MR. MARTIN: I am George Martin. I am Georgia  
16 Power's Hydro Re-Licensing Project Manager and I am the  
17 administrative biologist in this process. Yes, the question  
18 was, is the question that is referenced in the permit for  
19 the Atlanta Sand Company on dredging in the river in the  
20 record, and as Nicholas mentioned, the permit and the data  
21 associated with it is in the record by reference. It was  
22 first mentioned in the pre-application document and also  
23 with the proposal to be evaluated during the studies phase  
24 of the process under geology of soils. That permit and the  
25 associated paperwork is available and we will provide it to

1 the panel at this point in time.

2 MR. JAYJACK: Thank you, Mr. Martin. At this  
3 point are there any other questions related to sediment  
4 contaminants or are there any responses to comments that  
5 have been previously made, because if there are not, we will  
6 move along to the flow studies.

7 (No response.)

8 Okay. I will take that as a no and will progress  
9 to the disputed flow studies. In its December 16, 2004  
10 filing, Interior made some statements with regard to the end  
11 stream flow study that is being proposed by Georgia Power  
12 and that was approved by staff, Commission staff, in their  
13 study plan determination. As I understand it the main study  
14 goal that Interior had mentioned is that the acquisition of  
15 flow data will help Fish & Wildlife Service in its project  
16 operational effects with specific regards to flow on fishery  
17 resources, and that that understanding will aid the Fish &  
18 Wildlife Service in its formulation of any fish passage  
19 requirements that it may want to put forth to the Commission  
20 as part of a Section 18 fishway prescription.

21 I know Doug Neiman had some questions that he had  
22 with regard to the flow studies so, if it's all right with  
23 you, Doug, I would like to have you begin with asking  
24 questions on clarification of the matter.

25 MR. NEIMAN: All right. Can you hear me okay?

1 MR. JAYJACK: Yes.

2 MR. NEIMAN: My questions here will basically be  
3 looking at it from the standpoint that I am trying to become  
4 familiar with the project and its operation a little more  
5 than I have been able to so far, so some of them will be of  
6 a little more general nature to be able to get a good  
7 conceptual picture in my mind about how the project  
8 operates.

9 I understand that one of its functions is to help  
10 re-regulate the peaking flow from upstream at Buford Dam, so  
11 my first question is--and I'm going to have to arrange my  
12 phone here so I can look at my computer screen at the time  
13 while trying to speak--can somebody describe generally the  
14 typical operating pattern on an hourly basis for Morgan  
15 Falls on a typical Spring or summertime operating schedule,  
16 and that's basically looking at the range between the  
17 instantaneous minimum flow and the typical peak flow during  
18 operation and how long do the flow pulses that come out of  
19 Morgan Falls last for, or is that information available in a  
20 document that they could just point me to the appropriate  
21 reference and I could look it up for myself; I just haven't  
22 run across that yet.

23 MR. COX: This is Fred Cox with Georgia Power  
24 Company. In our submittal to the panel one of the things  
25 was a set of 77 slides and up near the front of that, page

1 17 would be the first one, have you got that available?

2 MR. NEIMAN: I don't have it pulled up on my  
3 computer but, yes, I did get a CD that has a lot of that  
4 stuff on it. If that's where it's at I can look that up for  
5 myself.

6 MR. JAYJACK: Is that in the pre-application  
7 document?

8 MR. COX: This is the information that we  
9 submitted to the panel. It's a set of 77 slides, and the  
10 area we are looking at are slides six through 23. But to  
11 give you an idea we plotted--using hourly data from the  
12 USGS, we took a dry week, an average week, and a wet week,  
13 and on this plot we show the Buford Dam releases, which are  
14 36 miles upstream. We show the hourly inflows into the  
15 reservoir measured at the Roswell Gage immediately upstream  
16 of the Dam, plus we have added in Big Creek and some local  
17 flows. We show the hourly elevations at Morgan Falls and we  
18 show the hourly releases.

19 On page 17, the dry inflow week, during that week  
20 the Atlanta Regional Commission had requested a minimum flow  
21 of 956 cfs; that's to meet the 750 cfs flow target  
22 downstream, plus to meet the needs of the two large flow  
23 withdrawals in the river supplying the City of Atlanta and  
24 Cobb County. During that week you see the inflows on a  
25 daily basis, which is driven by the peaking operation of

1        Buford Dam. The inflows are varying from a maximum daily to  
2        a minimum daily of about, oh, it looks like about 1,600 cfs.  
3        During that entire week Morgan Falls was making a steady  
4        release right at about the 956 minimum flow requested and it  
5        totally smoothed out the Buford peaking operations, and to  
6        do that you will see that the reservoir fluctuated from  
7        about 864 and a half to 866 during that week to do that.

8                Two pages further on page 19 this is a similar  
9        plot for a week using hourly data; it's an average inflow  
10       week. The average flow in that week was 2,381 cfs; the  
11       average annual discharge at Morgan Falls was 2,317. The  
12       minimum request for that week was 948 cfs. The Buford-  
13       driven inflows fluctuate about 3,600 cfs from the minimum to  
14       the high every day during the weekdays. During that period  
15       you have flows at Morgan Falls; the variation in them is  
16       about 1,200 cfs. The reservoir fluctuated within about a  
17       four-foot range during that week. So that's kind of typical  
18       of an average week.

19               Then on page 21 we plotted up a wet week; the  
20       average flow was 6,411 cfs. The discharge capacity through  
21       the turbines at Morgan Falls was 5,500 cfs. The reservoir  
22       is very small, and pretty much the discharge through that  
23       week is following the inflow. When you get these high  
24       inflows there is not enough storage to provide any  
25       substantial re-regulation.

1                   And when you look at these I would like to point  
2 out that the yellow line, which represents the hourly  
3 inflows into Morgan Falls, that would also represent the  
4 discharge if you operated that river as pure run of the  
5 river, in other words, inflow always equaled outflow. So  
6 when you look at it, particularly on the average week, you  
7 see substantial reduction in the daily fluctuations by the  
8 operations using the very limited amount of storage. Any  
9 questions?

10                   MR. JAYJACK: Could you clarify the last  
11 statement, pure run of river, do you mean at Buford?

12                   MR. COX: No, no. Okay. In some of this  
13 documentation we have described Morgan Falls as a modified  
14 run of the river project; we have described Buford as a  
15 peaking project. Buford has a lot of storage; they can take  
16 the water and let it go in any pattern they want. The way  
17 they do that, they generate a minimum of about 600 cfs, and  
18 the rest of the water they pass during peak power demand  
19 periods.

20                   A pure run of the river project would be one that  
21 has essentially no storage at all. So at all times the  
22 hourly inflow and the hourly discharge would be equal. We  
23 are what we call a modified run of the river project. We've  
24 got a little bit of storage, not much, and we can re-  
25 regulate flows to a small extent. And what we're saying,

1       like on that page 19 you see a daily variation in the  
2       inflows between a minimum and maximum of about 3,600 cfs,  
3       where on discharges we are re-regulating it by fluctuating  
4       the reservoir and are only fluctuating about 1,200 cfs.

5               MR. JAYJACK: Thank you. Any other comments from  
6       the audience on that right now?

7               (No response.)

8               Well, let me go back to Doug and see if he has  
9       follow-up questions.

10              MR. NEIMAN: I understand that, and that is  
11       available in the operations summary. I'm not sure what  
12       format that would be in, is that included in the slide that  
13       has these lines that you referenced. If it is, then I have  
14       it and I can access it from there.

15              MR. MARTIN: This is George Martin again. As a  
16       result of the study plan meetings we had a request by  
17       several participants to have an opportunity to better  
18       understand how the project operates. Georgia put together  
19       an operational primer and we presented that at a meeting in  
20       August or September--September 1st--and that entire  
21       operational primer is in the docket; it's in the Morgan  
22       Falls docket and we can provide hard copies of that  
23       presentation upon request.

24              MR. JAYJACK: According to my records it was  
25       filed and the date is August 16, 2004, so we do have that.

1                   MR. NEIMAN: One of the challenges that we have  
2                   been facing here is just time to wade through the new  
3                   information in a short period of time. We haven't had an  
4                   opportunity to fully digest everything yet, so that was the  
5                   impetus for that question. Are there any other comments on  
6                   that one? Let me just run through my list here then.

7                   I'm curious just a little bit as to how often, on  
8                   a recurring basis the project fills, in other words, when  
9                   you are getting too much water to handle what that might be  
10                  like. Would you characterize it as being frequent or rather  
11                  infrequent?

12                 MR. COX: I don't have any statistics on that  
13                 right now, but going back to those slides I was talking  
14                 about earlier, the three weeks, we looked at a dry one and  
15                 an average one and a wet one. The dry one we certainly  
16                 weren't spilling at all. Looking at the average week, it  
17                 looks like our maximum discharge was on Friday; that was  
18                 4,000 cfs. We can pass 5,500 through the turbines so we  
19                 wouldn't spill during that week.

20                 The wet week that we typified, it looks like for  
21                 about two days the flows went above the turbine capacity.  
22                 As a matter of fact it went up to 15,500 cfs so we were  
23                 certainly spilling for a couple of days there. Is Wayne  
24                 still here; have you got anything to add to that?

25                 MR. HARDIE: Very infrequent.



1                   MR. COX: We have got the plant manager for the  
2 plant here, Wayne Hardie, and I think he can address it a  
3 little bit more. He's there day to day, sees the  
4 operations.

5                   MR. HARDIE: I am Wayne Hardie, the plant  
6 supervisor at Morgan Falls. The question was how frequent  
7 do we spill. We spill very infrequently--wet weather, when  
8 Buford gives us a lot of water. When it's wet weather we do  
9 spill some. We have records annually that tell how often  
10 the gates are open and how many gates are open, and we can  
11 provide that, if needed. Thank you.

12                  MR. NEIMAN: Do you ever do anything  
13 operationally in anticipation of more water coming down into  
14 the system, say, lowering the water level, increase the  
15 output level on the reservoir for a little bit to try to  
16 capture some of that?

17                  MR. COX: This is Fred Cox. Our typical  
18 operations, we get on a weekly basis requests from the  
19 Atlanta Regional Commission on a minimum flow and that's  
20 designed to meet the 750 cfs flow target at Peachtree Creek  
21 established by the EPD for water quality, and it's also to  
22 meet the water demands for two large intakes between the Dam  
23 and Buford.

24                  Most of the water coming to us, 76 percent of the  
25 volume is controlled by Buford Dam releases. We never know

1 exactly what they are going to release on a given day. They  
2 put out a weekly schedule but then they start changing that  
3 schedule every day; they may change it several times during  
4 the day. So we don't know what's coming until they have  
5 actually released it.

6 It takes 12 hours for that water to flow from  
7 Buford Dam to get to Morgan Falls. The operators are  
8 watching what's going on at Buford; they're also monitoring  
9 the USGS Gage at Norcross, which is about halfway between  
10 Buford and Morgan Falls, and one at Roswell, which is  
11 immediately above Morgan Falls. So if they see an excess of  
12 water coming down they will pick up generation, an excess of  
13 water above what they need to pass the minimum flow. We  
14 will pick up generation and pull the reservoir down.

15 On those plots that we talked about earlier, what  
16 you will see plotted on there is the power and reservoir  
17 elevations, so you will see how it is fluctuated as they  
18 attempt to handle these high releases out of Buford Dam.  
19 Buford Dam can peak at about 10,000 cfs; their minimum flow  
20 is about 600. We're typically passing something like 950 or  
21 1,000 minimum so, yes, we are fluctuating the reservoir to  
22 attempt, as much as we can, to attenuate those Buford  
23 releases.

24 MR. NEIMAN: There is a video that I got the  
25 other day. I was wondering, how far downstream below the

1 Dam would there be a first set of fairly large, deep pool or  
2 deep running type habitat in the river other than this  
3 pooling basin area?

4 DR. LAYMAN: This is Steve Layman. Based on  
5 information provided in the earlier end stream flow study,  
6 pool and run habitats would be prevalent habitats near  
7 Morgan Falls Dam. Most of the shoals are located at a  
8 greater distance downstream.

9 MR. JAYJACK: This is Nick Jayjack from FERC. I  
10 have a real quick question; at least I hope it will be  
11 quick. I am looking at the graph that you have given to us.  
12 Incidentally for those who didn't hear it, these graphs were  
13 filed with us on January 10th so that's what I have here, so  
14 it is on the FERC record. Anyway, what I am seeing on this  
15 graph appears to be a flow discharge between June 11, 2001,  
16 and June 18, 2001, which appears to be indicative of a dry  
17 end flow week. I am seeing that the project releases a  
18 fairly flat line of flow through that whole week and that  
19 discharge appears to be 950 cfs. In reading through the  
20 project record the question was raised, could the reservoir  
21 capacity be increased so that this 950 cfs flat line--and I  
22 hope I understand this correctly--could be raised or  
23 elevated so that there would be more of a minimum flow  
24 released downstream.

25 MR. COX: In answer to that question, no. If you

1 look at, also in this data, the storage at Buford Dam--and I  
2 would like to point out that Buford Dam is a Corps of  
3 Engineers Dam; we exercise no control over it--this has a  
4 million acre feet of usable storage; Morgan Falls right now  
5 has about 2,200 acre feet of usable storage. So Buford Dam--  
6 --and 76 percent of the flows coming into Morgan Falls come  
7 out of Buford. We have 2,200 acre feet and the residence  
8 time, which is the volume divided by the average annual  
9 flow, is about 12 hours at Morgan Falls; at Buford Dam it's  
10 259 days.

11 Buford Dam can save water from a wet season and  
12 use it in a dry season, or even use it the next year it's  
13 such a large reservoir. Morgan Falls, at most, can save  
14 water and use it a few hours or maybe a day later; there is  
15 just simply not enough storage. So if you're looking at  
16 that dry week where we were releasing 956 cfs all week,  
17 that's all the water we were getting out of Buford. If we  
18 tried to release more, the reservoir would have just dried  
19 till it kept going down, down, till it hit bottom. And if  
20 you ever get down to where you have no storage at all, then  
21 we're in--now you're in a pure run of the river mode. You  
22 can only release as much as is coming in and there's periods  
23 when what's coming in from Buford are far lower than what we  
24 need to release to meet the downstream water needs so the  
25 most we can do is re-regulation over a very short time

1 period.

2 If you want to increase the minimum flow, that  
3 has to be guaranteed out of Buford Dam; that's outside the  
4 scope of this project. And also I think that question  
5 probably goes a little bit further, is could you provide  
6 more flexibility for this re-regulation? And in the  
7 submittal we gave you, on page 14 we took a look at the  
8 volumes that existed in 1960, 1976, and 2001.

9 Now, 1960, this wasn't long after Buford Dam had  
10 been built. The City of Atlanta recognized that the peaking  
11 and minimum flow pattern provided by Buford was not going to  
12 meet the city's water supply needs and water quality needs.  
13 So the City of Atlanta reached an agreement with Georgia  
14 Power Company to provide additional storage so we could re-  
15 regulate the flows. They provided that storage by raising  
16 the dam six feet. When they raised it six feet that gave us  
17 3,150 acre feet of usable storage.

18 In 1976 the Metropolitan Atlanta Water Resources  
19 Study--they were again looking at water supply needs for  
20 Atlanta and the Corps of Engineers was involved in preparing  
21 that report--they measured the volume of the reservoir; it  
22 was 2,498 feet. In 2001 the Corps once again, through  
23 aerial photographs and depth soundings from a boat, measured  
24 the volume and it was 2,260 acre feet. To convert that into  
25 residence time--I said a while ago we had about 12 hours of

1 residence time. In 1960, of the usable volume--that's the  
2 farthest spillway crest--at eight feet above the spillway  
3 crest the residence time was 16 and a half hours; now it's  
4 11.8 hours. That's not much difference as far as our re-  
5 regulating capacity. Still, in a matter of hours you could  
6 not increase the minimum flow for any significant period of  
7 time without water coming out of Buford.

8           Also, I would like to point out that typically we  
9 don't fluctuate the reservoir the entire eight feet; 90  
10 percent of the time it is fluctuated within the upper four  
11 feet. Storage for that upper four feet, the residence time  
12 has changed from 11 and a half hours in 1960 to 9.1 hours  
13 now--not much difference between 1960, and virtually no  
14 difference since 1976. So if you talk about increasing the  
15 volume by removing sediment and would it increase our  
16 ability to further attenuate Buford releases, as an  
17 operations engineer I would have to say no, it wouldn't  
18 provide any substantial ability to further attenuate those  
19 flows.

20           And if you start looking below that four feet  
21 that we fluctuate now up to the eight feet that we're  
22 calling usable storage, or even below that, you would have  
23 to fluctuate the reservoir a whole lot more to utilize  
24 anything below that. Does that answer your question?

25           MR. THORNTON: Just a quick follow-up. I

1 understand what you said there and I saw, I think, the same  
2 thing in your written submittal, that in theory you could  
3 re-regulate the river flow more by fluctuating the reservoir  
4 elevation more, beyond eight feet?

5 MR. COX: Well, right now below that 850 acres is  
6 200 acre feet of storage; it's just very, very small. So  
7 you could fluctuate it the eight--if you fluctuated going  
8 from four feet now, you would have 9.1 hours residence time.  
9 If you fluctuated the full eight feet that would be 11.8  
10 hours residence time; that's not substantial. One thing you  
11 need to bear in mind when we are trying to operate this and  
12 account for the Buford releases, they are generating a  
13 minimum of 600, and when they peak at 10,000 cfs we don't  
14 know how much water we are going to get out of them until  
15 they actually release it; that takes 12 hours to get to us.  
16 So when you are trying to plan ahead on operations you have  
17 about a 12-hour time horizon. And the storage we have got  
18 now allows for us to operate in a 12-hour time horizon,  
19 knowing what kind of water is coming down the river.

20 MR. JAYJACK: At this point does anyone here want  
21 to clarify anything that has been provided by Fred; if not,  
22 we'll move to a next question.

23 MS. NICHOLAS: Beth Nicholas from Upper  
24 Chattahoochee Riverkeeper, and just a very quick point. I  
25 am not commenting on the accuracy of the study or anything

1       else, but I just wanted to point out, and this is in the  
2       record, from the Atlanta Sand and Supply Company for a  
3       permit proposal, the one discussed before from 1996, or will  
4       be in the record, I guess, the approval was for removing  
5       2,300 acre feet of sediment from the impoundment which, from  
6       the numbers we just got, would double the storage area. So  
7       there is some indication that there is the ability to  
8       provide greater storage.

9               MR. JAYJACK: Related to that question, I like to  
10       think of reservoirs as buckets; it just helps me to  
11       understand things a little better. But if what I hear you  
12       saying--and maybe you can just give me some clarification--  
13       what you're saying is that even if you increased the size of  
14       your bucket, what is constraining your release of flow  
15       downstream is not the existing size of your smaller bucket  
16       but it's the volume of water that is actually coming to the  
17       project; is that correct?

18              MR. COX: Some. I mean if I could provide a lot  
19       of extra storage at Morgan Falls, we could probably provide  
20       some additional smoothing of the Buford releases, but from a  
21       practical point of view, what is possible to provide in the  
22       reservoir--we talk a lot about going back to a 1960 volume.  
23       The reservoir was raised six feet specifically to provide  
24       storage, and even going back to that volume, what I'm saying  
25       is you wouldn't have any significant additional capacity to



1       attenuate the Buford releases.

2                   And if you start talking about going back to even  
3 bigger volumes before 1960, you've got to remember when it  
4 was raised in 1960, if you just want dredge--the sediment  
5 has accumulated in that upper eight feet since 1960. So any  
6 additional you would provide by dredging, going to 1960 you  
7 get down to the original natural ground, and now you've got  
8 to start going below to get to 1960, below 858 to provide  
9 that additional storage.

10                   And I think something that a lot of people  
11 forget, that to utilize it you've got to fluctuate the  
12 reservoir. There is always--people living downstream of the  
13 reservoir, they want to see you fluctuate the reservoir  
14 more; people living on the reservoir want to see you  
15 fluctuate it less. Also, you need to picture the reservoir  
16 as a cone. If you look at reservoir volumes now, something  
17 like three-quarters of the volume is in the upper four feet  
18 and one quarter of the volume is in the lower four feet. So  
19 the lower you draw the reservoir the faster it falls. We're  
20 just saying, from a practical point of view it's not  
21 possible to provide a significant amount of re-regulating  
22 capacity looking at the Buford releases.

23                   DR. LONG: This is Jim Long of the Park Service.  
24 I just want to present the biologist's point of view; this  
25 is where the biologists and the engineers probably differ.

1 A substantial change in reservoir capacity or the ability to  
2 regulate flows downstream may be insignificant in terms of  
3 the amount of water and time it takes and so on, but that  
4 may be very significant related to biological effects. A  
5 small amount of change may make a large amount of change  
6 biologically and I think that's mainly where we are coming  
7 from.

8 MR. JAYJACK: Fred, when you speak about  
9 significant change in the smoothing of the inflow curve,  
10 exactly what does that mean; what does that translate to as  
11 far as flow downstream as compared to the present minimum  
12 flow that we saw in that graph of 750 cfs?

13 MR. COX: We are talking about two things--  
14 minimum flow and a reduction of the high peaks and low  
15 minimums from Buford. As far as minimum flow any amount of  
16 dredging that's within practicable limits, you're not going  
17 to be able to increase the minimum flow. The volume of  
18 water, that's got to come from Buford; Buford has to  
19 guarantee that there's a big enough volume to provide a  
20 continuous minimum flow. So we can't even talk about  
21 increasing the minimum flow of Morgan Falls; you can't  
22 provide enough storage to do that.

23 And that gets into, you can store water in a wet  
24 season at Buford and use it in a dry season or even use it  
25 the next year. You'll never have enough storage, never did

1 have enough storage at Morgan Falls to store water for use  
2 more than hours or days in the future. So when you talk  
3 about this very, very small reservoir, it's not increasing  
4 minimum flow; we're just changing the timing of the Buford  
5 flows.

6 For example, in that average or the dry flow week  
7 that we were looking at, the yellow line was the inflow into  
8 Morgan Falls, and I said that would also represent the  
9 discharge if Morgan Falls was pure run of the river. Every  
10 time that yellow line drops below the light blue line, which  
11 is the Morgan Falls discharge, you would not have been  
12 meeting the downstream water requirements. So we're just  
13 smoothing out things during the day. We're not adding--we  
14 don't have enough volume to, over more than a day or so, add  
15 to the minimum flow. We smooth out the loads and we cut  
16 down the highs at Buford. And on the average week you went  
17 from a minimum and maximum on the input that was a  
18 difference of about 3,600 cfs, I think, and we kept that  
19 down to about 1,200 cfs. But I'm saying even with a little  
20 bit more storage we couldn't cut that daily fluctuation from  
21 minimum to the maximum less than about that 1,200 cfs that  
22 we saw in the average week.

23 MR. JAYJACK: How does that required minimum flow  
24 for the water supply purposes compare to historic natural  
25 flows of the river in that reach above Atlanta, is it higher

1 than historic low flows?

2 MR. COX: I don't know. A little bit further  
3 downstream below Atlanta at the Whitesburg Gage--and I am  
4 just going from my memory and some looking I was doing at  
5 one time--I analyzed a period prior to Buford Dam going into  
6 existence and analyzed the record after Buford Dam was  
7 finished about 1956. And it seems to me that the  
8 (inaudible) just about doubled if you look at the period  
9 after Buford Dam compared to prior to Buford Dam. So I  
10 would say that you are seeing, through Atlanta, below Morgan  
11 Falls and below Buford, higher flows when you're looking at  
12 low-flow periods than you saw prior to the existence of  
13 Buford Dam, but that's driven by Buford Dam, not so much  
14 Morgan Falls; we are just smoothing out the Buford flows a  
15 little bit.

16 DR. LAYMAN: This is Steve Layman. In regard to  
17 comments made earlier about biological effects, I just  
18 wanted to emphasize Georgia Power is not proposing to dredge  
19 the impoundment to provide increased minimum flows. The  
20 multiple sources of existing data that have been cited  
21 throughout the proceedings in the pre-application document  
22 and the revised study plan, in combination with Georgia  
23 Power's proposed studies in the revised study plan, will  
24 provide adequate information to evaluate the feasibility of  
25 that as an alternative from the standpoint of biological

1 effects. We can talk about that in greater detail, if you  
2 like, but those sources are identified thoroughly in  
3 existing documentation, which include a comprehensive end  
4 stream flow study conducted by the Corps. It includes the  
5 comprehensive studies conducted for the ACF after  
6 allocation. It includes the flow preference study conducted  
7 by the National park Service in 2000. It includes an  
8 ongoing flow study apparently being conducted by the  
9 National Park Service. It includes fishery surveys in the  
10 Morgan Falls impoundment and at three locations downstream  
11 of the dam in the Chattahoochee River to characterize  
12 existing fish communities. It includes continuous  
13 temperature monitoring that has been approved as part of the  
14 revised study plan to look at the effects on downstream  
15 water temperature, and various other sources of existing  
16 information that have been developed over the past decade or  
17 more related to the intensive nature of uses of the Upper  
18 Chattahoochee River.

19 MR. NEIMAN: One question here, has anybody  
20 identified any potential institutional barriers to the data  
21 that USGS collected recently and hasn't analyzed yet, in  
22 terms of data ownership and that kind of thing?

23 DR. LONG: Jim Long from the Park Service again.  
24 As far as USGS data, I mean I was told in an e-mail about  
25 three weeks ago that we would have that report sometime in

1 mid-January so we're just waiting on it from GS, and as soon  
2 as we get it we're happy to share it.

3 But in response to Steve, I guess if we all  
4 agreed with what Steve said then we wouldn't be here today.  
5 I mean that's really where we are, is we fundamentally  
6 disagree with a lot of those statements, that the existing  
7 information is adequate and that we do need new studies  
8 because there has been a lot of development since then.

9 MR. JAYJACK: I'm sorry, I'm not quite sure I  
10 understand what you're saying.

11 DR. LONG: Well, Steve had just mentioned that  
12 Georgia Power's studies were adequate. There were  
13 multitudes of information that were going to be used, and  
14 I'm just saying if we all agreed with that we would not be  
15 here today on this subject.

16 MR. JAYJACK: So you're not disputing what Fred  
17 had stated as far as the project operations?

18 DR. LONG: No. The only thing that I would like  
19 to add to that, though, is we haven't looked at any sort of  
20 angle variability, and I think Doug did ask that question--  
21 what are the lows compared to historic over the annual  
22 regime; we haven't looked at that. I mean we have some  
23 graphs of daily and we have it in terms of if it was a wet  
24 year, dry year, average year, but we haven't looked at the  
25 overall annual variability.

1                   MR. COX: I would like to address that. You  
2 know, as far as annual variability, I have pointed out a  
3 couple of times that Morgan Falls can effect changes in flow  
4 over a period of hours to maybe a day or a little more.  
5 Annual seasonal variability is totally by Buford Dam, 76  
6 percent of the inflows at Morgan Falls. Morgan Falls cannot  
7 now, never could have, any effect over seasonal annual  
8 variability of the flows. We can only effect flows within a  
9 day, waiting a couple of days, and we're doing that as much  
10 as we can now. We are cutting these whatever, the weekly  
11 releases we are getting from Buford, we are attenuating them  
12 as much as is possible for us to do so but we can't have an  
13 effect--I couldn't even change the storage at Morgan Falls  
14 or any storage that we ever had in the next week. I could  
15 change the flow tomorrow a little bit, change it for the  
16 next couple of hours, but that's it.

17                   MR. JAYJACK: Any other comments on the subject  
18 matter that has just been presented, the operations in  
19 particular?

20                   DR. LAYMAN: I think this is probably where we  
21 are probably headed anyway on this issue and we have  
22 documented it clearly in the revised study plan and in  
23 Georgia Power's filing of January 10th, but Buford Dam  
24 operations have the most direct nexus with issues regarding  
25 flow and water temperature in this river. Morgan Falls

1 already re-regulates to the maximum extent practicable, and  
2 there are no changes that could be made to affect downstream  
3 habitat to the degree that I think the Department of  
4 Interior wishes.

5           The existing information that we provided in the  
6 January 10th filing shows that peak stream flows are the  
7 primary factor limiting trout habitat in the downstream  
8 reach. They are also the primary factor limiting certain  
9 types of recreational opportunities--wading and tube  
10 fishing--in the downstream reach. The current minimum  
11 releases for the project based on existing information show  
12 that they are pretty close to the optimal range for trout  
13 and they pretty much peak for brown trout, which is one of  
14 the more temperature-tolerant species that stock below the  
15 project. So we believe that on this basis and the basis of  
16 the multiple sources of existing information and the new  
17 studies that are being proposed to be conducted, that that  
18 will provide an adequate basis for evaluating downstream  
19 effects of continued project operation on aquatic resources.

20           MR. JAYJACK: Perhaps it might be wise at this  
21 point to get back to the study goals and objectives that  
22 Interior has put forth, and I am thinking particularly about  
23 nexus again. I need help in understanding the nexus between  
24 the study results from a flow study and how those results  
25 will be used to inform a decision on fishways.



1 MS. LAWRENCE: Alice Lawrence again from Fish &  
2 Wildlife Service. I think we all understand that Morgan  
3 Falls is limited--they have got limited flexibility--but  
4 they do operate in a modified run of river operation; there  
5 is some limited peaking there and they have been  
6 characterized as playing a very important role in making  
7 sure these flows downstream at Peachtree Creek are  
8 maintained at a certain cfs. So therefore they do have the  
9 capacity to influence downstream habitat for fishes.

10 Morgan Falls operates in a modified run of river  
11 mode releasing from 37 to 50 percent of mean annual inflow  
12 or end flow and, as a result, Georgia Power affects the  
13 habitat downstream of Morgan Falls Dam as a result of its  
14 operation and does so differently than Buford. It is  
15 important that an IFIM study be conducted to evaluate the  
16 impact of project operations on downstream habitats and the  
17 existing information is not adequate to properly  
18 characterize these effects and is discussed below in more  
19 detail. And I don't know if we want to get into the  
20 technical stuff.

21 So basically, once again, we are just trying to  
22 look at project effects here. How is this project affecting  
23 the downstream aquatic habitat and the downstream aquatic  
24 community, current and in the future.

25 MR. JAYJACK: Let me rephrase the question a

1 little bit and back up. When I have dealt with this issue  
2 in the past, the issue of fish passage and flow, I have seen  
3 situations where the Agency was concerned that there was too  
4 little flow in the river below a project in order for the  
5 fish to be able to swim up to the dam and hence to a fishway  
6 entrance and getting upstream. So when I talk about nexus  
7 that's kind of the situation or the explanation I'm looking  
8 for. I am trying to see how--one of the criteria specifies  
9 how the study results will be used to inform license  
10 conditions so that the condition I am envisioning here has  
11 something to do with fish passage, be it flows downstream of  
12 the project in order to allow the fish to pass through that  
13 region and get to a fishway or something similar to that.  
14 So could you shed a little bit of light on that and clarify,  
15 specifically with regard to the concern with the existing  
16 condition and how that might inform the decisions on license  
17 conditions.

18 MS. LAWRENCE: I think right now we are asking  
19 for the study because we see that this project--the flows  
20 coming out from the project are having some kind of effect;  
21 it's not natural flows down there. We realize upstream  
22 there are artificial conditions but this project would help  
23 us determine the effects of these flows on the habitat, on  
24 the fishes that are there. For the fishes moving upstream,  
25 if they were included into this model, which hopefully they

1 would be, we could see the effect on that habitat type and  
2 how those flows affect that. It seems like analyzing this  
3 and looking at how they differ from natural flows and how  
4 this could affect passage is important.

5 MR. THORNTON: I think that leads to something I  
6 wanted to ask that I originally got from Doug in a  
7 communication he had with me. And I guess for Fish &  
8 Wildlife Service the question is, what ecological hypothesis  
9 do you propose to be investigated through the requested  
10 additional IFIM study.

11 MS. LAWRENCE: For this we are just asking for a  
12 basic IFIM study. So what we would do, we would get out  
13 there, do an adequate number of transects, which is one of  
14 the problems we have now that in some of the existing data  
15 there's very few transect data available. So to be able to  
16 determine the current situation down there, how the flows  
17 are currently affecting the habitat, we would need to see  
18 that habitat mapped, the different habitat types, do an  
19 adequate number of transects to under the velocities, the  
20 depths, the cover substrate, and then for fish passage,  
21 well, the aquatic community. Currently you have a list of  
22 species, different gills that would be affected and then,  
23 hopefully, you could include some of these other species,  
24 and then habitat requirements and how these habitats would  
25 be affected. I don't know if someone else has more

1 information.

2 DR. LONG: I think where we are on this, at least  
3 in part, is if the operational flexibility can change or can  
4 increase, well then, what kind of flows could come out of it  
5 and what kind of flow regime. And if it can't, then what  
6 are the project operations, what are those negative impacts?  
7 We have talked about previous studies and, in part, we are  
8 here because a lot of those previous studies, none of those  
9 have been focused on the Morgan Falls impoundment; they have  
10 all been in reference to flows out of Buford Dam.

11 I think the study that is most being relied upon  
12 here is the Corps study by Nestler in 1986--they only  
13 measured three transects down below Morgan Falls to  
14 represent two different types of habitats--and the statement  
15 study of how Morgan Falls will operate, the results of that  
16 study do not necessarily translate because it was meant to  
17 be in response to Buford Dam operations, so it doesn't  
18 necessarily translate below Morgan Falls. So we see a real  
19 lack of information. We see that trout has been the  
20 dominant species that has been studied, but clearly there  
21 are other issues besides trout and species that use habitats  
22 other than shoals. We recognize that shoals probably  
23 haven't changed much, over geologic time, much. But most of  
24 the channel in the Chattahoochee is a shifting sand type of  
25 environment. And a lot of the transects that were used

1 probably are different than they are today.

2           When the Park Service submitted their study  
3 request we provided some data that came to us from USGS on  
4 channel morphology at at least one station; I mean that's  
5 all we have but it clearly showed a difference. And to us  
6 we say, well, that means that a lot of the old data is  
7 unusable. And in fact whenever we contract with USGS to  
8 contract the end stream flow studies, as soon as we saw  
9 those data, we decided that what we needed to do is collect  
10 more data on transects rather than try to use the old models  
11 from Nestler and rerun them on different species because we  
12 felt they weren't usable. So even for our own work we felt  
13 like that wasn't usable.

14           We do have some new data that are going to come  
15 out. It is going to be depth and flow; it's going to be  
16 some transect data, which might be usable to help look and  
17 see what the channel might have changed down below Morgan  
18 Falls, but we only had one transect below Morgan Falls that  
19 was actually done. I think we had six transects that they  
20 ran for us; five of those are above the impoundment so it's  
21 of limited use. And again, that's because the study that  
22 the Park Service wanted to do most recently was in relation  
23 to the tri-state agreement and we were looking at the Morgan  
24 Falls effect.

25           MR. COX: I would like to address nexus a little

1 bit. I am still seeing some confusion about what Morgan  
2 Falls--how it affects the flow in the river, and how we  
3 might be able to change that. As I pointed out we cannot  
4 provide a higher--two things, I'm an engineer so I talk to  
5 the people who are interested in fish when I'm studying one  
6 of these dams, and typically the things I hear is you want  
7 either a higher minimum flow--the minimum flow isn't good  
8 enough--or you want less daily variability in the flows.  
9 Well, as I pointed out earlier, we cannot provide a higher  
10 minimum flow without changes in the operation of Buford. We  
11 don't have enough storage to do that for more than a few  
12 hours at a time.

13 We are already fluctuating our reservoir and  
14 using our storage to the maximum extent capacity to reduce  
15 the daily variability of the flows. And even if you went  
16 back to 1960 volumes you wouldn't see any significant  
17 reduction in the daily variability of the flows. So the  
18 only direction you can go in changing the operation of  
19 Morgan Falls is to go towards more run of the river--we have  
20 already gone as far as we can in the other direction--is to  
21 go toward more run of river. And if you do that, then you  
22 are impacting the water supply for three million people.  
23 You are not going to meet the EPD-established 750 cfs water  
24 quality flow target at Peachtree Creek 100 percent of the  
25 time. So we just see the only direction we can change our

1 operations and change anything in the downstream stretch of  
2 river is going in the wrong direction for a lot of reasons,  
3 and that's one of the points that I think sometimes is  
4 getting missed here. I think Steve had something to add to  
5 this.

6 MR. JAYJACK: I want to make sure of something  
7 here. I hear your concern with shifting flows and the  
8 effects that might be felt downstream. I think where we're  
9 at today is we're trying to assess what information is  
10 available and what information gaps that there are. And  
11 where your statement has gone is you have moved ahead and  
12 talked about alternatives, which is fine. I believe the  
13 process is set up to deal with alternatives in a later stage  
14 but I don't think we're that far yet. So I definitely hear  
15 your concern and it sounds very logical to me. However,  
16 what we are truly trying to get at is the information that  
17 is available to do that. The public interest call will come  
18 at a later time and maybe that will be ultimately determined  
19 by the Commission. It would ultimately be determined by the  
20 Commission at the time that it reviews staff's  
21 recommendations in the NEPA (phonetic) document. But I just  
22 want to make sure that we are focused on the information as  
23 opposed to going too deeply into the alternatives.

24 DR. LAYMAN: This is Steve Layman. I think the  
25 reason why Fred went there is because of the direct

1 statements that Jim or Alice made about, you can change  
2 flows and the direction of that change in flow is negative  
3 and it leads to destabilization of aquatic habitat. It  
4 leads to placing at risk being able to meet the State-  
5 mandated 750 cfs flow target downstream, and that evaluation  
6 can be made on the basis of current information. A new end  
7 stream flow study, a third end stream flow study, is not  
8 required to make that type of assessment.

9           Furthermore, it has not been established that the  
10 present flow study information that is available by Nestler,  
11 it has not been demonstrated that the trends observed in  
12 flow characteristics of the river or the habitat discharge  
13 relationships of fish or recreational or other uses  
14 evaluated have changed so substantially to alter those  
15 trends of channel morphology; that has not been  
16 demonstrated. In the filing of January 10th, Georgia Power  
17 noted that the two transects provided, one of those  
18 transects was recorded in August of 2001, which was at the  
19 end of the longest drought period, three-year running  
20 drought period, in Atlanta since the late 1800s. To compare  
21 those two transects is not representative of the channel  
22 profile at that location. We provided in the filing an  
23 assessment of 152 stage-discharge measurements over the  
24 period 1984 to 2004, which demonstrates there has not been  
25 any substantial change at that channel profile location at



1 the City of Atlanta Gage, which is located in a run area,  
2 not in a ripple.

3 The ripple or shoal habitats, I should clarify,  
4 downstream of the project, have been identified as the most  
5 critical aquatic habitats for these trout, for food  
6 production, for wading and tube fishing, and other aspects  
7 of important uses of the river. We have also provided some  
8 additional analysis of the cross-sectional plots provided by  
9 USGS, I mean provided by Department of Interior and National  
10 Park Service in their filings, and have some additional  
11 information to present here today.

12 MR. JAYJACK: I'll tell you what. I am seeing a  
13 lot of people getting kind of antsy and standing up--okay,  
14 real quick.

15 MR. NICHOLS: I'm Mike Nichols. I work for  
16 Georgia Power where I manage their Environmental Lab and we  
17 have seriously considered the information provided by the  
18 Park Service in their initial submittal and then again in  
19 the filing of December 26th where we were presented with  
20 these cross sections.

21 What I would like to do is give the dispute panel  
22 the information we are going to share and just quickly walk  
23 through what has been provided to us and our interpretation  
24 of them. What we were given is a graph. In April 1980 we  
25 have a cross-section. At this time the stage of the river

1 is about 8.6 feet. The flow is about 9,000 cfs and is  
2 plotted and compared to a later cross section, which was  
3 collected April of 2001. The river stage is about 3.4 feet.  
4 The flow is about 1,360 cfs. So to plot this information,  
5 the August 2001 data has to be shifted, in other words 5.2  
6 feet is added so you can compare there. And looking at the  
7 data that was used to generate this graph, when you shift  
8 this down the points on either side are left out so it  
9 visually does not give you a good picture of the cross  
10 section.

11 Looking at it a little bit more closely, at  
12 August of 2001 the channel width is about 239, 240 feet. In  
13 April of 1980 it's 250 feet. So when you calculate these  
14 areas on this transposed cross section you get a slight  
15 underestimate of the cross section when you are trying to do  
16 this comparison.

17 So we see three things, the information that was  
18 provided in the graph as it's presented is incomplete. We  
19 have gone back and looked at the USGS data for the period  
20 1974 through 1984 when the first IFIM study was done, and we  
21 have looked at the stage area measurements. And when you  
22 compare that to the period 1985 to 2001, we see no  
23 difference in the channel morphology. And that's presented  
24 on this graph, which is in the material that you have. So  
25 we paid attention to the issue. Our interpretation of the

1 information that's available is the Chattahoochee has been  
2 stable from the first IFIM study to the current data. I  
3 think that's about it. We would be glad to discuss this  
4 further if there are further questions.

5 DR. LONG: There is not a USGS representative  
6 here so I can't answer some of those because they provided  
7 the data. My impression is that they did adjust the  
8 original graph and these are adjusted depths for flow so you  
9 don't need to adjust again another five feet.

10 MR. NICHOLS: This is their data; this is the  
11 data that was provided to us.

12 DR. LONG: Right. But then you went and adjusted  
13 it down another five feet.

14 MR. NICHOLS: No, we did not.

15 DR. LONG: Maybe I misunderstood you, but you  
16 were saying that the flows were different so that they had  
17 to be adjusted five feet down this graph; is that not right?

18 MR. NICHOLS: May I answer your question?

19 DR. LONG: Yes.

20 MR. NICHOLS: This is Mike Nichols. If you plot  
21 the original cross section collected in August of 2001, what  
22 you will see is the flow is at a stage of 3.4 feet. Plotted  
23 uncorrected, this transect would be much higher. In the  
24 data that was given to us they have added 5.2 feet to  
25 correct for this stage. The river level is--this is the

1 surface (indicating); this is a stage of 8.6. They have  
2 added the 5.2 feet to move this transect for the August 2001  
3 data. We did not manipulate the data; that is what was  
4 presented by the Park Service.

5 MS. LAWRENCE: USGS.

6 MR. NICHOLS: It was provided to us by the Park  
7 Service.

8 DR. LONG: Yes, it was provided by the Park  
9 Service but it was collected by USGS for us.

10 MR. NICHOLS: I would be glad to talk about it  
11 further, if you like.

12 DR. LONG: Well, that's where I would be glad to  
13 have the USGS people here because my understanding was that  
14 the adjustment was made to take into account the difference  
15 in stage. So you have to adjust that elevation to a common  
16 elevation, and that's what effectively this is, is bed  
17 elevation and that's why the five feet was added or  
18 subtracted.

19 MR. JAYJACK: I think it is going to be prudent  
20 to let some of this digest a little bit. I'm hungry right  
21 now and there is a lot of information that has been  
22 presented.

23 MR. TANAKA: (Inaudible.)

24 MR. JAYJACK: What Kevin had asked me is he wants  
25 to address my question regarding the nexus between IFIM

1 studies and fish passage. Can it wait till after lunch that  
2 could be the first thing that we begin with? Let's break  
3 for lunch and we'll go right to that; we'll start with  
4 Kevin. We'll return here, let's say at 1:15.

5 (Luncheon recess.)

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## 1 A F T E R N O O N S E S S I O N

2 (1:30 p.m.)

3 MR. JAYJACK: Let's get started for the afternoon  
4 part of the conference. I'd like to welcome everyone back.  
5 If you recall, before we adjourned for lunch I had promised  
6 Kevin Tanaka I would let him come up first and talk a little  
7 bit about my question earlier regarding the nexus between  
8 end stream flow study and the fish passage.

9 MS. CIELINSKI: We decided I would respond. I am  
10 Sue Cielinski and I am with Fish & Wildlife Service. I'm  
11 the Regional FERC Coordinator in our Atlanta Office and I  
12 work with Alice on hydro issues.

13 One thing that Nick had asked a little bit ago  
14 was in regard to the nexus of this end stream flow study and  
15 our fishway authority. And we primarily need information to  
16 determine the need and feasibility of fishways for fish  
17 resources in the system and also to determine the conditions  
18 that would be necessary to provide safe, timely, and  
19 effective fish passage.

20 Also, the study would help determine what some of  
21 the operational influences are on flow conditions downstream  
22 of the project. So in order to evaluate those types of  
23 effects we need this end stream flow study. Also, in  
24 looking at passage through the life stages of fish; that  
25 would range from the adult stage to juvenile or larva fish,

1 those life stages of the fish species and also we are  
2 looking at the ability of a fish to move within its habitat,  
3 within, say, the shoals habitat or the other habitats that  
4 exist below the dam, and the ability of a fish to reach the  
5 dam in order to pass above the dam itself. So I don't know  
6 if you have any more questions on that.

7 DR. LAYMAN: This is Steve Layman. With regard  
8 to the Section 18 authority and the study request made by  
9 Fish & Wildlife Service, the original study request made  
10 never mentioned Section 18 authority or fish passage as a  
11 study objective or as a resource management goal objection  
12 as required by the study criteria 5.9(b)(1) and (b)(2).

13 In terms of the relationship of an IFIM study to  
14 upstream passage, the only diadromous fish species presently  
15 known in tail water sections of the Morgan Falls impoundment  
16 is striped bass, which was introduced to West Point  
17 reservoir and now migrates upstream below Morgan Falls in  
18 the summertime. The striped bass already has access to the  
19 Morgan Falls tail race. There are no known critical reaches  
20 in that segment that preclude passage of striped bass to the  
21 base of Morgan Fall Dam based on any kind of releases for  
22 Morgan Falls.

23 In terms of the IFIM study, the purpose of it is  
24 to relate no habitat preferences of the given life stage of  
25 fish to changes in flow as it affects velocity and depth.

1 And in terms of an upstream migrant striped bass, it could  
2 be viewed as a habitat generalist in its upstream passage  
3 over multiple habitat types to get upstream to spawning  
4 areas. The fact that the fish already makes it to the base  
5 of Morgan Falls Dam indicates there isn't a passage issue  
6 that an IFIM study would appropriately address.

7 In addition, cold water temperature from Buford  
8 Dam have been identified as being more likely to affect  
9 striped bass habitat in the reach than any evidence provided  
10 on physical habitat with regard to striped bass, shoal bass,  
11 or any other species that has been mentioned in this record.

12 Studies done on striped bass in the tail race  
13 section of the reach between Morgan Falls and West Point  
14 have indicated that cold water temperatures likely limit  
15 successful spawning, and that is related to the artificially  
16 cold water releases from Buford Dam, not due to releases  
17 from the Morgan Falls project. I think that's all I have on  
18 that.

19 MR. TANAKA: Kevin Tanaka from the Solicitor's  
20 Office, Department of Interior. Once again, we seem to be  
21 treading down the same old place where people want to argue  
22 about finites of a prescription that has not yet been  
23 drafted. Once again, they have brought up what species may  
24 or may not be studied under Section 18 authority and, once  
25 again, I state the Department's position once again. We



1       prescribe consistent with Federal Power Act, with court  
2       precedent and with departmental policy. At this pointing  
3       time I do not interpret anything in that authority  
4       consistent with their biologist.

5               Also, once again, we are talking about whether or  
6       not fish need to be passed here and at this point in time I  
7       don't think that is the issue; the issue is whether or not  
8       the flow study will provide additional information, how will  
9       the flow study basically help Fish & Wildlife Service and  
10      help the Service determine whether or not we need  
11      appropriate or necessary prescribed fish passage.

12              So I can't say it enough. I question whether  
13      we're pursuing the statement, the purpose of the statement,  
14      and whether some of the statements are appropriate for this.  
15      I think they have gone beyond the scope of this. I think  
16      they're treading with what's legal and what's not, FPA  
17      interpretations, and I think that's completely outside the  
18      scope of this technical conference we are having here.  
19      Thank you.

20              MS. LAWRENCE: In regard to the fish passage,  
21      what Steve was speaking about the current species that are  
22      there, another important point that I brought up before  
23      regarding the sediment contaminant study, as far as specific  
24      species we are looking at not just current species and  
25      current passage but also species that were here

1 historically, that could be here in the future. So that  
2 would be expanded from just striped bass but the other  
3 species I have mentioned before American eel, Gulf sturgeon,  
4 Alabama shad, and then I mentioned these other species that  
5 are downstream currently, shoal bass and the high shale  
6 shiner. So I would just like to reiterate that point, that  
7 it's not just the current species that are there now, but we  
8 also look at a range of alternatives for fish passage which  
9 would also include reservation.

10 MR. MOORE: David Moore, Troutman, Sanders. Mr.  
11 Tanaka recited interpretations with regard to Section 18. I  
12 think the question I would have is, with respect to the  
13 panel when we first began, the applicability of the 5.9(b)  
14 study criteria, it sounds to me as though the position that  
15 the DOI is taking is that the 5.9(b) criteria are not  
16 relevant to the panel's determinations. The information we  
17 are attempting to provide, very simply, bears upon these  
18 criteria, such as information necessary to make an informed  
19 license decision, nexus to project operations, existing  
20 information. And maybe I have misinterpreted Mr. Tanaka's  
21 position, but it appeared to me as though he was saying that  
22 the 5.9 criteria are not required to be met for the purpose  
23 of DOI's study request and I would like to get clarification  
24 on that.

25 MR. TANAKA: Kevin Tanaka, Solicitor's Office,

1 Department of Interior. I never mentioned 5.9, 5.9(b) or  
2 those criteria. What I am talking about is what is  
3 necessary here. To sit there and just--what the question  
4 was, how does IFIM relate to fish passage, we have answered  
5 that. If you guys want to get into what species fall under  
6 Section 18 authority and whatnot, that is not one of the  
7 criteria; I'm sorry, I don't see it. That's an issue to be  
8 had down the road; that's a pure legal issue. I don't know  
9 how else to say that. I completely disagree with your  
10 interpretation; I don't know how else to put it. So I have  
11 not mentioned 5.9(b); that's what we're here to talk about.  
12 What I am saying is I think you're getting off of 5.9(b) and  
13 I think you're entering the realm of legal arguments and  
14 positions that aren't necessary to resolve 5.9(b) issues.

15 MR. JAYJACK: I think we have heard your  
16 statements--heard everyone's statements regarding Section 18  
17 authority. I think we should move on from here and refocus  
18 our efforts back on the information. These statements will  
19 be on the Commission record for all to see. So your  
20 statements have been heard; we have heard them. So let's  
21 move on. Jerry, did you have something?

22 MR. THORNTON: I think the question I was going  
23 to ask has already been answered. I was going to ask  
24 specifically about the shoal bass as a potential target of  
25 passage but that question has been answered.

1                   MR. JAYJACK:   Doug, do you have any other  
2                   questions?

3                   MR. NEIMAN:   Not at this moment.

4                   MR. JAYJACK:   I don't have any other questions  
5                   either related to end stream flow.  We have the record  
6                   information that we have acquired here today as well what we  
7                   have been acquiring all along, so I think we ought to move  
8                   to the next part of our meeting, which will be an open mike  
9                   sort of thing.

10                  DR. LAYMAN:   May I make an additional comment  
11                  regarding the study criteria?

12                  MR. JAYJACK:   Sure.

13                  DR. LAYMAN:   Steve Layman.  Getting back to the  
14                  study request criteria, Criterion 5.9(b((5).  Department of  
15                  Interior, we believe, has not adequately considered the  
16                  level of effort and cost of another end stream flow study as  
17                  required by this criteria well on the basis that the project  
18                  cannot further re-regulate flows from Buford Dam, that the  
19                  project already released 37 to 50 percent of mean annual  
20                  flow as its minimum flow, which provides benefits to  
21                  downstream resources including water supply, fish,  
22                  recreation, water quality.  I might add that drinking water  
23                  supply, recreation, and fishing are the designated uses of  
24                  this reach of river.

25                  Costs have not considered the potential to

1       involve a diverse range of interstate interests by opening  
2       up an end stream flow study that cannot affect flow releases  
3       from this project. As most people in this room realize,  
4       what this watershed and the states have been through in  
5       recent years, conducting an end stream flow study is going  
6       to open up a much broader group of stakeholders and  
7       interstate interests than envisioned by the National Park  
8       Service in making this request. As evidence we have here  
9       today the Florida Department of Environmental Protection  
10      participating in this meeting.

11                In addition, the costs did not consider the  
12      original research on temperature criteria that have been  
13      requested regarding shoal bass which, by the way, current  
14      releases from Buford Dam in the springtime during the  
15      spawning season for shoal bass are colder than preferred by  
16      that species. So it is again water temperature that may be  
17      a more limiting factor in regard to shoal bass and the flow.

18                Finally, the difficulties encountered by the Park  
19      Service in conducting their own flow study, which has  
20      delayed it but has not been considered adequately in their  
21      estimate of cost for this study.

22                DR. LONG: This is Jim Long from the Park Service  
23      again. Trying to come up with the level of detail, or the  
24      level of cost and the idea that there are other issues at  
25      stake, well, the other issues at stake, they came about

1 whenever the license was reopened. It's like arguing to  
2 FERC, you shouldn't open our license because then other  
3 interest come in. That shouldn't be part of it. I mean  
4 what we are here to do is to say, well, we need information  
5 so that we can make some sound decisions. And we believe  
6 that current information that is currently being proposed to  
7 use is inadequate to make those decisions. The Corps study  
8 is dated. We believe that the channel morphology has  
9 changed, probably not in the shoals, but shoals are not the  
10 only habitat and there are certainly other species that rely  
11 on non-shoal habitat for most of their life history.

12 None of the studies so far has looked at the  
13 operation at Morgan Falls Dam. The studies that have been  
14 completed have stated that these studies don't apply to  
15 Morgan Falls Dam, or if they do apply it will depend on how  
16 Morgan Falls Dam operates. So there are a lot of issues  
17 here and, to the best of our ability, the best information  
18 that we have been able to gather, we have determined that  
19 the channel has changed and therefore a new IFIM study is  
20 needed.

21 Whether or not the flows downstream are  
22 beneficial is yet to be seen and that's why we want the  
23 study. We want to know, well, what flows are you using, how  
24 often are those flows there, what species are they affecting  
25 positively, what negatively, where are those habitats.

1 Those are things that we do not know, and that is why we  
2 have requested the study before, and that's of course why we  
3 are here again, to dispute the studies that have been put  
4 forward by Georgia Power.

5 MS. MALVERN: Since the name of the Florida EPD  
6 was taken in vain, what brought us in has nothing to do with  
7 whether there is an end stream flow study or not. It is the  
8 agreement that Georgia Power has with ARC for water supply.  
9 That's an issue that is not before this panel so our  
10 involvement has nothing to do with what's before this panel  
11 or the species involved.

12 MR. JAYJACK: I think we have already moved into  
13 sort of an open mike period so let's continue where we're  
14 at. If anybody would like to come up now, I would  
15 especially encourage those who haven't had a chance to speak  
16 yet to come up first, if you so choose to do so. Maybe I  
17 should put it as a question, does anybody have anything they  
18 would like to say?

19 MR. CANTRELL: My name is Mark Cantrell. I'm  
20 with US Fish & Wildlife Service out of the Ashville, North  
21 Carolina field office. I wanted to address some information  
22 that was brought forward a minute ago. I remember seeing  
23 some graphs from the back of the room, and want to make sure  
24 that I understood, or the panel could understand, what you  
25 were trying to relate with that information. In particular,

1 I think you brought forward some information on the stage-  
2 discharge relationship downstream at the Atlanta Gage USGS  
3 02336000, and in particular I heard or thought I understood  
4 you to relate that information to describe that the geo-  
5 morphology of the stream bed for that particular area was in  
6 fact stable, was that the thesis of that presentation?  
7 That's more of a rhetorical question.

8 In fact with regard to the information that you  
9 presented, that you apparently tried to relate the  
10 measurements of stage-discharge back to stream bed  
11 morphology and stability, it appears, however, that stage-  
12 discharge relationship as USGS reduced to generally a rating  
13 curve, that did not remain static as it would seem to  
14 indicate but rather it has been quite dynamic.

15 What I did was look at that Gage and look at the  
16 individual stream flow surface water measurements that had  
17 been taken over the past period of operations since 1985.  
18 And just looking back for the past 20 years, that I think  
19 you portrayed at one part, I was able to count 78 individual  
20 adjustments; these are general monthly measurements of  
21 discharge at that particular Gage that are taken by wading.  
22 And there were 78 individual adjustments to the rating curve  
23 that your claim appeared to be that it was stable.

24 So I just wanted to make sure that folks  
25 understood, and especially the panel understood, that that



1 rating curve has not remained static, that it's been rather  
2 dynamic over at least the past 20, and certainly that has  
3 been both in the form of aggradations and degradations, some  
4 of those in the range of up to one foot per month in both  
5 directions.

6 Now, I haven't addressed what the net change has  
7 been for that particular point, but in terms of dynamism in  
8 the stream bed at what typically is selected as a rather  
9 stable reach of stream for gauging purposes, there is on a  
10 normal basis a monthly change in the stream bed features as  
11 it relates to that stage-discharge relationship. So I just  
12 wanted to make that point, that yours are pointing toward  
13 the static nature of that side is one that is belied by any  
14 of the data that USGS has gathered here in these field  
15 measurements.

16 MR. JAYJACK: I am not quite sure I understood  
17 the explanation without seeing the data, so getting back to  
18 the purpose of this meeting, unless we can actually see what  
19 you're discussing it is not going to be very helpful for us  
20 even if we go back and look at the record, so if you could  
21 file that with us, that would be great.

22 MR. CANTRELL: Sure. I filed it electronically  
23 as well.

24 (Exhibit No. 1 marked for identification.)

25 MR. JAYJACK: One word on getting information to

1 us at this point. It's pretty late into the process now.  
2 The panel has to deliberate over the next week and a half,  
3 and we have to make our findings and recommendations to the  
4 Director by February 4th. So just doing the math it's  
5 January 18th now and we don't have much time left. So if  
6 you want us to be able to sufficiently address additional  
7 information that you are bringing into the record now, I  
8 highly recommend you do it quickly, in the next day or next  
9 Fed Ex, that sort of thing. It's highly preferable to file  
10 the information with the Commission so that it gets on the  
11 record. So please keep that in consideration.

12 MR. COX: I've got some information I don't think  
13 we discussed in a great deal of detail earlier that directly  
14 addresses what we were talking about. This data was  
15 submitted to the panel. We took 152 USGS stage-discharge  
16 measurements; we broke them into two periods, one 1974 to  
17 1984, the other one 1985 to 2001. And we've got lines for  
18 this data, essentially stage-discharge periods, which is  
19 indicated. The dark blue line is the 1974 1984 data; the  
20 yellow line is the 1985-2001 data. And this is our basis  
21 for saying there's no substantial shift in the stage-  
22 discharge relationship at this site. And, Steve, what was  
23 that Leopold reference, do you want to address that; do you  
24 have that statement?

25 Also in the data we submitted, I think it's both

1 in the slides and in our technical write-up we cited,  
2 referenced, Leopold, Geomorphological Processes in Fluvial  
3 Channels, and it makes the statement that one way of looking  
4 at changes in the geomorphology of the river is to look for  
5 changes in the stage-discharge relationship. We're saying  
6 this data shows no substantial change.

7 DR. LAYMAN: And to clarify--this is Steve  
8 Layman--we're not saying that it's a static channel. A  
9 channel can shift laterally over time but the change that  
10 you would see, there would provide the same representation  
11 of cross-sectional area; it may be distributed differently  
12 because the channel can migrate over time. And as was  
13 indicated there has been a substantial change in the  
14 distribution of shoals, runs, and pools in this reach of the  
15 Chattahoochee River.

16 The shoals are bedrock shoals; they are in the  
17 same location. They are well-protected by a 2,000-foot  
18 corridor on each side of the river. The operations of  
19 Buford Dam have been relatively consistent over this period  
20 in providing peaking flows that scour the river channel. So  
21 we have not seen any evidence that would suggest substantial  
22 change to the point that it alters the general trends that  
23 have been observed by the Nestler study in relation  
24 principally to shoals habitat, which were identified as the  
25 most critical habitats for trout, and these are secondary

1 trout waters. The regulatory driver is for the management  
2 of this reach of stream as secondary trout waters.

3 MS. LAWRENCE: Just to, once again, summarize why  
4 we feel the existing data is inadequate. Looking at the  
5 Nestler study and the National Park Service study, just even  
6 excluding if the river channel has changed or not, both of  
7 those studies only total four transects below Morgan Falls  
8 Dam for 12 miles of river, and in IFIM studies that's not  
9 adequate.

10 Also, the applicant states that the Morgan Falls  
11 minimum flow release optimizes habitat for trout. Once  
12 again, we are interested in the whole aquatic community and  
13 we would look at more species other than trout. Another  
14 clarification, Nestler, et al., in this 1986 states that  
15 these findings may not be applicable below Morgan Falls Dam,  
16 and there's a paragraph on that within the Nestler study on  
17 page 59 of that study.

18 On another topic the applicant states that Morgan  
19 Falls meets the minimum flow objective of Georgia EPD's  
20 interim end stream flow policy. This flow policy is  
21 irrelevant to this project because it deals with surface  
22 water withdrawals and water supply reservoirs and not for  
23 hydro projects. Moreover, this guidance specifically  
24 excludes withdrawals from highly-regulated rivers including  
25 the Chattahoochee River.

1           In this, Georgia Power said that it meets the  
2           option of 30 percent mean annual flow or end flow, but the  
3           closest thing that it could be related to in this guidance  
4           would be a water supply reservoir, I would guess, and, in  
5           that, documents that requirements for reservoir operations  
6           are a seasonal type thing--30, 60, 40--the lesser of 30  
7           percent of the mean annual flow or end flow during the  
8           months of July through November, 50 percent of the mean  
9           annual flow during the months of January through April, and  
10          40 percent of the mean annual flow during the months of May,  
11          June, and December, but just excluding that, it's completely  
12          irrelevant. It's for surface water withdrawals and water  
13          supply reservoirs and not on regulated systems such as the  
14          Chattahoochee so it really just should not even be  
15          mentioned.

16                 And we are going to file these comments. As I  
17                 mentioned, for the sediment contaminant study we have more  
18                 detailed comments that will be filed as soon as possible.

19                 MR. THORNTON: I am not remembering clearly from  
20                 the Nestler study and the one that's planned ongoing by the  
21                 USGS and the Park Service, are all of the transects in shoal  
22                 areas or are some in pool and run areas below Morgan Falls  
23                 in the 12-mile stretch?

24                 MS. LAWRENCE: The three transects that were done  
25                 below Morgan Falls were a shoal, a run, and a pool, but the

1 pool was chosen not because it's a representative pool but  
2 because of recreational reasons. There's a boat ramp right  
3 there and they were looking at access to the boat ramp. And  
4 I'm not sure if the Park Service would have one additional  
5 transect below Morgan Falls; I'm not sure. Are you aware of  
6 that?

7 DR. LONG: As far as new study we did the  
8 transect that we got below Morgan Falls was at the  
9 confluence of Sope Creek, and that's a shoal.

10 DR. LAYMAN: Steve Layman. In reference to page  
11 59 of the Nestler study, the paragraph that Alice references  
12 describes Morgan Falls as a run of river project and it  
13 states that if it were changed to a pond and generate  
14 project for peaking mode, then the effects of modification  
15 would be considerably different. So in fact Morgan Falls is  
16 a pond and generate, but it's because of the re-regulation  
17 operation. So strictly speaking, as Fred described earlier--  
18 -Fred Cox--if it went to run of river with instantaneous  
19 inflow equals outflow, it would produce greater daily  
20 fluctuations downstream of the project and lower minimum  
21 flow releases. So that phrase in Nestler is not really  
22 relevant to the way we describe project operations on this  
23 project.

24 I wanted to also address that the current minimum  
25 flow releases from the project are crucial to meeting the

1 750 cfs flow target downstream near Peachtree Creek. These  
2 releases benefit drinking water supply in coordination with  
3 ARC's water management system, water quality fish habitat,  
4 and recreational uses. Because these current operations  
5 moderate peaking releases from Buford Dam they moderate  
6 those releases to the maximum extent practicable. Any other  
7 technically feasible alternative operation is going to  
8 increase fluctuations downstream, which is going to result  
9 in lower minimum flows, destabilize the downstream flows to  
10 be short to meet the 750 cfs flow target, and also reduce  
11 the ability of flow for fish and recreational uses.

12 Morgan Falls maintains a minimum flow ranging  
13 from 37 and 50 percent of mean annual flow. True, this  
14 project does not require a surface water withdrawal permit,  
15 but in terms of Georgia EPD's guidance on protecting end  
16 stream flows, this project exceeds the general  
17 recommendation on the mean annual flow option.

18 With regard to the single aspects of the 60  
19 percent discharge, that cannot be determined without Buford  
20 Dam providing those flows. Buford Dam constrains the  
21 ability of the project since the project is not a water  
22 supply reservoir and has small storage. The current minimum  
23 flow release is higher than 30 percent mean annual flow,  
24 widely accepted by the Tenent method used widely, and  
25 actually provided the general framework for looking at

1 minimum flows in Georgia in the Evans and England report.  
2 Morgan Falls is not a peaking facility and, as I stated, it  
3 regulates flow to the maximum extent practicable.

4 Department of Interior in the summary has not  
5 adequately explained how the results of another end stream  
6 flow study would inform the development of license  
7 requirements as required by study criteria in 5.9(b)(5).  
8 Buford Dam has the most direct nexus with flow and water  
9 quality in the downstream reach. DOI has not adequately  
10 explained why the abundant existing information and new  
11 field studies proposed in the review study plan as approved  
12 by the Commission would not address the need for information  
13 on downstream aquatic habitat or upstream fish passage as  
14 required by 5.9(b)(4).

15 DOI has not demonstrated that channel morphology  
16 has changed enough to alter the general trends in river flow  
17 characteristics in habitat discharge relationships observed  
18 by the Corps flow study. DOI has not adequately described  
19 the end stream flow study presently being conducted for the  
20 Park Service in justifying the need for another end stream  
21 flow study. DOI has not adequately considered the level of  
22 effort and cost as described earlier and has not adequately  
23 explained in the study objectives and the resource  
24 management goals the linkage with Section 18 fish passage.

25 DR. LONG: Jim Long with the Park Service. I was



1 going to be done but--and this is something that is going to  
2 be filed, all these arguments that Georgia Power has raised;  
3 we feel like they have largely taken a lot of things out of  
4 context. Of course they are trying to build an argument for  
5 their side but the other side is that there is another way  
6 of looking at things. Like the Georgia EPD interim end  
7 stream flow policy, it's irrelevant. We might as well talk  
8 about how Morgan Falls Dam improves duck hunting; it doesn't  
9 matter. That policy is for something totally different.

10 That the minimum flow that Morgan Falls releases  
11 is higher than flows widely accepted, has maintained good  
12 habitat per the Tenent method, the Tenant method has long  
13 been criticized as not adequately providing habitat because  
14 biologists have discovered that it's not just the minimum  
15 flow that is always important, so there are other things out  
16 there. The Evans and England study generally prescribed the  
17 Tenent method for unregulated systems; this is a highly  
18 regulated system.

19 They kept wanting to use the Nestler study that  
20 says it's still relevant; we say that it is not relevant.  
21 Nestler says that if Morgan Falls operates as a run of  
22 river, then it might be relevant but they acknowledge it's a  
23 modified run of river; therefore, the study is irrelevant.  
24 It doesn't matter if they state that the project operation,  
25 if they were to change it would be bad; it means the study

1 is irrelevant.

2 That they reveled overall trends in habitat--that  
3 the Nestler study revealed overall trends in habitat, well,  
4 it revealed overall trends in shoals for trout; it did not  
5 look at the other habitats and it likely collected too  
6 little there. The minimum flow release optimizes habitat  
7 for trout. Again, this is for trout and this is for an  
8 instantaneous minimum flow; we don't know how often those  
9 minimum flows are. We don't have a sense of that whole  
10 thing.

11 Again, with the channel morphology they have  
12 tried to build a case that the channel morphology has not  
13 changed and they have used various methods to say that it  
14 hasn't. The best available science that we have says that  
15 it has changed. They argue about the cross-section  
16 profiles. Again, we believe that there are some of the best  
17 available science that shows that they are changed.

18 Let's see, the proposed fishery studies will  
19 provide adequate characterization of the downstream moving  
20 habitat. It will help, but it's not going to look at--it  
21 will look at the fish but it will not look at fish habitat.  
22 Something I wanted to point out also was that there was an  
23 argument that an increase in flow from 1,000 to 7,500 cfs  
24 only changes the width, the depth ratio in the channel by  
25 ten percent, very small. But if you look at that same

1 argument and if you do happen to use some of those curves  
2 that Nestler developed, well, that's 76 percent change in  
3 fish habitat. So changes in how water floods fish habitat,  
4 small changes in water can drastically affect fish habitat  
5 and that's the side that we are coming from. And again,  
6 these are the comments that were developed and they will be  
7 filed.

8 MR. CHEEK: Terry Cheek. I think that the term  
9 used a minute ago was that perhaps the shoal habitat hasn't  
10 changed since geologic time so if we have a concern for  
11 shoal bass and what those habitats are, then perhaps we can  
12 say that the earlier data from 1986 are adequate to describe  
13 that because those profiles have not changed.

14 The second point I would make is that if the  
15 profiles are changing on a monthly basis, as the other  
16 gentleman indicated that they were, then I contend an IFIM  
17 study is meaningless because as soon as you conduct it, then  
18 the habitats have changed.

19 Thirdly, I would say that IFIM is not a panacea.  
20 It describes habitats that are available and tries to  
21 quantify those habitats under different flow regimes, but  
22 changing the flow regime and increasing the habitat is not  
23 directly a one to one to an increase in productivity in the  
24 biological community. That's the point of research. Thank  
25 you.

1                   MR. FOWLER: My name is Roy Fowler. I am with  
2 the Cobb County-Marietta Water Authority and, unlike  
3 everybody else you have heard today, I am neither an  
4 employee or consultant with Georgia Power or the Federal  
5 government. I'm not a biologist; I'm not a Ph.D. I have  
6 been accused of being an engineer but the one thing I would  
7 accept is being a business manager, and that particular  
8 business happens to be water.

9                   So I am speaking here on behalf of my  
10 constituency. We are the largest wholesaler of water in  
11 Georgia. We operate both the ACC and ACF, only have 14  
12 customers but in turn those 14 customers provide water  
13 service for 750,000 people. I do consider myself an  
14 environmentalist. I embrace endangered species as long as  
15 we involve the human species in that list.

16                  Now, for the sake of qualifying my qualifications  
17 let me add I am not an accomplished speaker and will take  
18 the fact of a Ph.D., an engineer, and an attorney that I be  
19 allowed to read from notes. I am speaking on behalf of an  
20 organization, a political subdivision of the State of  
21 Georgia, and this is our organization's comments based on  
22 the disputes filed against the study plan determination  
23 rendered.

24                  Cobb County-Marietta Water Authority thinks  
25 Department of Interior has not adequately explained how

1 study results of a new IFIM study are necessary for the Fish  
2 & Wildlife Service and the National Park Service to meet  
3 their resource management goals and objectives. Peak stream  
4 flows are the primary factor in limiting the suitability of  
5 aquatic habitat and these flows are driven by Buford Dam,  
6 not Morgan Falls. Morgan Falls re-regulates Buford Dam peak  
7 flows to the maximum extent practicable and cannot in itself  
8 effect changes in daily river flow. Morgan Falls provides  
9 minimum flow releases protective of downstream habitat,  
10 water supply, and water quality.

11           Technically feasible alternatives to the current  
12 operations would produce greater daily flow fluctuations in  
13 the river downstream of the project and place the 750 cfs  
14 flow target near Peachtree Creek at risk. A new end stream  
15 flow study is unwarranted for the purpose of evaluating  
16 dredging because existing data adequately described trends  
17 in flow characteristics and habitat discharge relationships.  
18 The range of operational alternatives available for  
19 consideration extends to the current policy of maximum re-  
20 regulation to no regulation and, due to the small amount of  
21 storage involved, is simply not sufficient to enable a  
22 reliable determination of economic and environmental issues.  
23 Additionally, any measurable impacts would likely be due to  
24 a change in Lanier operations, calling into question any  
25 suggested nexus, which I have learned the meaning of today,

1 to Morgan Falls' operations.

2 DOI has requested new field sampling of sediments  
3 in Morgan Fall impoundment; they have not justified the need  
4 for new sampling of said sediments. Existing water quality  
5 and fish tissue information does not indicate potential  
6 threats to aquatic communities in the Morgan Falls  
7 impoundment. Georgia Water Quality Standards as approved by  
8 United States Environmental Protection Agency protect  
9 aquatic life, and EPA has recently concluded that sediment  
10 quality was not an issue in the area of the river including  
11 Morgan Falls.

12 In summary, Cobb County-Marietta Water Authority  
13 strongly supports the continued operation of Morgan Falls  
14 Dam for maximum re-regulation of Lanier peaking power  
15 releases. Re-regulation essentially maintains the Atlanta  
16 750 cfs minimum stream flow requirement imposed by the State  
17 of Georgia and is necessary--necessary--to support the  
18 Chattahoochee River municipal water withdrawals. Additional  
19 storage created by dredging only marginally increases the  
20 capacity for re-regulation of Lanier's releases.  
21 Consequently, reductions or eliminations of Morgan Falls re-  
22 regulation is neither a reasonable or responsible option.  
23 The Authority supports the fact that an understanding of the  
24 operations of Buford Dam and Morgan Falls' existing relevant  
25 information and studies, ordered in the Commission's study

1 plan determination as submitted, will provide the necessary  
2 data to the disputing agencies to achieve their respective  
3 resource management goals and objectives.

4 The technical information and additional comments  
5 for the panel's pleasure are being in written form; I have  
6 included ten copies. I appreciate the panel's indulgence.  
7 I am taking notes about how to control my grandchildren next  
8 Thanksgiving the way you have handled this concerned crowd.  
9 Thank you.

10 (Exhibit No. 3 was marked for identification.)

11 MS. STEVENS: I would like to address the  
12 panel, not the crowd. My name is Pat Stevens. I am on the  
13 staff of the Atlanta Regional Commission and that's the  
14 metropolitan planning agency for greater Atlanta.

15 Morgan Falls provides support to water supply  
16 and water quality needs on the Chattahoochee River and so we  
17 are very concerned about anything that would detract from  
18 that particular objective. Given the overall importance of  
19 maintaining water supply and water quality flows in the  
20 river for metropolitan Atlanta, and the very limited storage  
21 capacity available to maintain that flow, it is essential  
22 that the Morgan Falls project continue to operate in the  
23 same manner in which it has been operating.

24 We have heard a lot about maintaining flow in  
25 the project today from Georgia Power and we agree with what

1 they say. Georgia Power currently runs the Morgan Fall Dam  
2 primarily for the purposes of power generation, domestic  
3 water supply, and waste water simulation for metropolitan  
4 Atlanta. This river reservoir system that includes Lake  
5 Lanier, there is over three million people that depend on  
6 that system for water supply and waste water assimilation.  
7 Waste water assimilation is a function of the river  
8 reservoir system too and Georgia EPD, our state  
9 environmental protection agency, has established the minimum  
10 river flow downstream of Morgan Falls that has to be met.  
11 Since 1960 Georgia Power has been operating Morgan Falls for  
12 these purposes to re-regulate these flows from Buford Dam to  
13 the maximum extent practicable given their limited storage.  
14 The operation provides critical support to water supply and  
15 water quality in the Chattahoochee River.

16 In 1975 my agency, the State of Georgia, the  
17 Corps of Engineers, through a study that was authorized by  
18 Congress, confirmed this, that Morgan Falls should continue  
19 to operate in that capacity and the Corps final report  
20 recommended this continuation. It is important that Morgan  
21 Falls provides this re-regulation capacity. The water  
22 withdrawal permit on the river is conditioned on the  
23 operation of this project like that. The waste water  
24 treatment plants that provide waste water capacity for  
25 millions of people are conditioned upon this.



1           The demands that these permits have been written  
2           on are included in a regional water supply plan that was  
3           produced by the Metropolitan North Georgia Water Planning  
4           District. That plan has been approved by the State of  
5           Georgia and has been accepted by FERC as a comprehensive  
6           water supply plan. And so looking over the Department of  
7           Interior's study requests we understand that the Department  
8           of Interior is required to explain what their relevant  
9           public interest is in regard to their proposed studies. And  
10          so in regards to the end stream flow study, it appears to me  
11          that inherent in their request is that there is some  
12          expectation for this flow regime to be changed. And I  
13          think, given the limited capacity of this project, it  
14          doesn't appear from the information provided already that  
15          this is a valid request.

16                 Morgan Falls is already re-regulating Buford Dam  
17          peaking releases to the maximum extent practicable. I think  
18          the information that Georgia Power has given you shows that.  
19          We would be very concerned and object greatly for an  
20          operation that would provide less re-regulation downstream  
21          because it would be detrimental to water quality and water  
22          supply to the Metro Atlanta area.

23                 Regarding the request for a sediment quality  
24          study, in reading the December 16th letter from the  
25          Department of Interior, it's very confusing to me exactly

1        what they wanted that study for, and listening to some of  
2        the comments here today from the Fish & wildlife Service,  
3        one of the comments that I heard was that they wanted to  
4        understand that concentration of sediment is related to the  
5        presence of the dam and they want to understand the effects  
6        of the presence of the dam, even though there might not be  
7        any project operation alternatives available.

8                    So I become concerned about what alternative--  
9        there's no operational alternatives--what alternative is  
10       there to the presence of the dam. I think early on Fish &  
11       Wildlife Service recommended that we study the removal of a  
12       dam. That to me is an unacceptable alternative if that is  
13       where this is eventually heading.

14                   There was also some comments about we need to  
15       understand what's in the sediments because there might be  
16       opportunity to dredge the project. The issue of dredging is  
17       a very complex issue that would have to involve many, many  
18       stakeholders that FERC has no authorization over. And I  
19       understand that Georgia Power is providing some study about  
20       some feasibility of dredging, identifying what the issues  
21       are and things like that that would be suitable for some  
22       information. But beyond that I don't think that the FERC  
23       forum is the forum to resolve that issue.

24                   I think one of the biggest issues regarding  
25       dredging, Georgia Power has absolutely no control over it at

1 all, and if you're going to dredge Morgan Falls you have got  
2 to provide a fairly large site for a land-based operation  
3 for the dredge. Georgia Power doesn't own any sizable  
4 pieces of property around Morgan Falls. The National Park  
5 Service owns property. There are a fair amount of private  
6 property owners. Fulton County owns property and so does  
7 Roswell. And we at ARC have had a number of talks with both  
8 the Fulton County Chairman and the Mayor of the City of  
9 Roswell; they have been unwilling to offer their property  
10 for a dredge operation.

11 I have not heard the Park Service offer their  
12 property for a dredge operation and I think, if the property  
13 is going to be dredged, the Park Service or some  
14 organization like that who owns property along the river is  
15 going to have to be willing to provide the land-based site  
16 for a dredge operation. And I don't think that FERC can  
17 compel Georgia Power to make any of those people provide the  
18 land-based operations for a dredge. So I think a lot of  
19 these issues are beyond this forum.

20 ARC has offered to bring those people to the  
21 table but no one has really asked us to do that. I think  
22 people are more interested in compelling Georgia Power to do  
23 something that I don't think they can do. Anyhow, unless  
24 somebody is willing to provide that land-based operation I  
25 don't see how you can compel Georgia Power to do this.

1           In terms of the sediment quality, if someone was  
2 going to dredge, was willing to go to all the effort to  
3 provide the land-based operation as part of the 4011 water  
4 quality certification for a dredge operation, sediment  
5 studies and water quality issues would have to be addressed  
6 at that time. So if it's about dredging there would be  
7 another forum to address that later.

8           In closing I think that we are very interested in  
9 Georgia Power continuing to operate Morgan Falls according  
10 to current operations. There are millions of people that  
11 depend on it, and we would just recommend that you consider  
12 that.

13           MR. JAYJACK: Thank you.

14           MS. MILLS: Sally Mills, City of Atlanta, and I  
15 follow Pat Stevens and thought I wanted to address the panel  
16 myself. I appreciate hearing from everybody else but we  
17 would like to supply you with a plan and profile purely for  
18 background information, and to underscore the point this is  
19 a plan and profile prepared in 1917, which shows some slews  
20 for Morgan Falls Dam and the entire river system from  
21 Columbus up to Buford.

22           We would like to underscore the importance, to  
23 the City of Atlanta and the more than a million customers we  
24 serve for water supply and for waste water treatment, the  
25 importance of the continued operation of the dam in the

1 manner in which it is currently operated at Morgan Falls.  
2 We endorse and follow the comments made by Cobb-Marietta  
3 Water Authority, Roy Fowler, and ARC, Pat Stevens, with  
4 respect to the technical comments. I think you would have  
5 to say, in boiling it down, that Buford Dam governs the  
6 flows and Morgan Falls has an opportunity to control timing  
7 and the smoothing of the peaks. It is extremely important  
8 to the intake for the City of Atlanta's water supply and  
9 similar to the capacity of the river and to meet the 7750  
10 cfs target downstream, that that not be changed.

11 For that reason I would like to say that since it  
12 is critical--and this is, by the way, in our May 11th  
13 submission from 2004, the details of it, and I think it was  
14 mentioned also by Fred Cox--the city has contracted with  
15 Georgia Power since 1960, only a couple of years after the  
16 construction of Buford Dam, for the--we helped pay for--co-  
17 funded the raising of the dam by half a dozen feet. This  
18 functionality is part of our planning for our water intakes  
19 and our water treatment facilities for distribution of the  
20 water supply.

21 Not that that's not in the record already, but to  
22 highlight it and to say it is very important to the City of  
23 Atlanta and its ability to protect public health and supply  
24 water, which is critical to the region, that this be--our  
25 water supply issue be raised as you think about what other

1 studies are necessary. Because if you can't really make a  
2 change in the operations of the dam as Morgan Falls is  
3 currently operated, then it would seem to us that the study  
4 as presently scoped and revised and approved is adequate in  
5 providing enough data.

6 At the end of the day this is about agency  
7 discretion and we appreciate FERC holding the forum for  
8 dispute resolution and considering these issues, but we want  
9 to point out that there is an issue of whether it is  
10 practicable and necessary to add more studies on what it is  
11 currently before the agency in order for the agency, FERC,  
12 to make its determination. We think the basis for the  
13 studies that are requested really does contemplate a change  
14 in the flow regime that would be detrimental to the water  
15 supply/water quality issues. Thank you very much.

16 (Exhibit No. 2 marked for identification.)

17 MR. KERR: I come up somewhat reluctantly since I  
18 don't have any notes and I don't have a prepared speech and  
19 I don't represent anyone but me anymore. I'm retired as of  
20 last March from the Department of Natural Resources and as  
21 the chief negotiator in the water dispute with Alabama and  
22 Florida on behalf of Georgia. My name is Bob Kerr.

23 I have some history on this river out here and it  
24 goes back to somewhere around 1978 when I became the chief  
25 executive officer of the Georgia Conservancy, a conservation

1 organization that advocated for protection of natural  
2 resources. We were somewhat involved with the creation of  
3 CRNRA, mostly before my time. But in 1984 I led a group  
4 that made the recommendations to the Congress on the  
5 amendments to the Chattahoochee River National Recreation  
6 Area, which included the 2,000 foot area of national  
7 significance that was not in the original legislation; it  
8 was in the amendments. The purpose of that was to assist  
9 the Park Service to assist local government and others in  
10 acquiring technical information and so forth.

11 I think at this point I have to tell you I'm not  
12 here to speak on behalf of or against the studies; I just  
13 want to share some thoughts with you. One, of course, is  
14 what F. Scott Fitzgerald once said, and that is the test of  
15 a first-rate intelligence is the ability to hold two  
16 competing concepts in mind at the same time and still  
17 function; that's your job so I admire you for that and we do  
18 have some competing concepts here.

19 As the chief negotiating party for the State of  
20 Georgia I demanded a great deal of data. We had the  
21 comprehensive study, and it's been argued in some instances  
22 that perhaps that wasn't sufficient but it was sufficient  
23 enough that we operated off of it in trying to move forward  
24 to develop an agreement. What was mostly lacking in that  
25 study was putting the cover on it and called it finished,

1 but we spent pretty much all the money and did all the work.

2 We in the Department of natural Resources  
3 probably ran two or three thousand model runs of the flows  
4 in the Chattahoochee River, Flint River, Apalachicola, Coosa  
5 Basin and so forth, trying to determine what was possible  
6 relative to water supply. At the same time we were  
7 cognizant of our water quality requirements.

8 Only in one instance do I recall where we felt  
9 that the operation of Morgan Falls was sufficiently  
10 important to actually incorporate it into the models. We  
11 had looked at it early on and determined that, because of  
12 the shallow depth, because of the flows out of Buford,  
13 because of the fact that most of the time it was run of the  
14 river and, on occasion in low flow periods, it could serve a  
15 moderating effect on flows downstream, that in the grand  
16 scheme of things as we looked forward it didn't matter that  
17 much. So we did not try to make that an integral part of  
18 the model that we did.

19 To back up a little bit, while I was with the  
20 Georgia Conservancy I got involved in several attempts to  
21 dredge Morgan Falls for commercial purposes. Individuals  
22 would go to the Department of Natural Resource,  
23 Environmental Protection Division, to try to get permits to  
24 do that. There were many, many obstacles. One, some Corps  
25 sampling showed that there were some PCBs and some other



1 contaminants in the sediment. To that extent those exist I  
2 don't think was ever satisfactorily determined, but they  
3 clearly exist.

4 Secondly, because of some of the limitations that  
5 we talked about on the shoreline most of the work would have  
6 had to have been done offshore on boats, barges, dewatering  
7 at that point, and then moving the materials to the shore.  
8 Also it was determined that a lot of that material fines too  
9 small to be satisfactorily used in sand applications. So  
10 you had the problem of moving some of that, separating it in  
11 the way that you could take the commercial grade material on  
12 shore, and do something with it.

13 At one time when Morgan Falls landfill was under  
14 construction it was thought that they could use some of this  
15 material to be a cap for that landfill. There is a golf  
16 course there now which pretty much eliminates that  
17 possibility. The other issue was sedimentation and dredging  
18 here in addition to the release of all the chemicals  
19 downstream, and potential contamination. That way the lack  
20 of commercial value, lack of a place to put it because this  
21 is one of the finest wetlands in the State of Georgia right  
22 out here, and one of the thoughts we had at that point was  
23 that you would have to do something like a three to one or  
24 more slope in order to prevent sloughing that would affect  
25 the wetlands.

1                   Secondly, it would open up the use of the lake to  
2 high-speed boats, which then would create wakes that would  
3 have an effect on the shorelines, plus nesting birds, et  
4 cetera, et cetera. So it does not appear unless you are  
5 willing to go through that, that dredging is a viable  
6 option.

7                   Now, having said that and going back to my  
8 competing concept thing, I can conceive that sometime, out  
9 20 or 30 years from now, we will revisit the dredging  
10 operation if we think that it will help water supply because  
11 we are bound to hit a crisis point sometime in this area on  
12 water supply.

13                   Until then I'm not sure that my criteria for  
14 studies would be met. One, what is the objective? Two,  
15 what are the benefits? If the benefits are determined to be  
16 there, can you effect a change that would cause those  
17 benefits to be met and, four, what is the cost?

18                   So ad you begin to balance all this I think that  
19 there is a question about how that formula, if you will,  
20 might work here in that I don't think there is a whole lot  
21 of change at this point in time that can be effected out  
22 here on this lake without some really negative impacts.

23                   So I think I would summarize by saying there is  
24 never too much good data, but you have to really stop and  
25 think, what is the cost of that data and what use can it be

1 put to. Thank you.

2 MR. JAYJACK: Is there anyone else who wants to  
3 make a statement for the record?

4 MR. MARTIN: I would like to make one last  
5 statement, please. This is George Martin and I will make a  
6 statement to the attendees at this meeting.

7 First of all, I would like to thank the panel,  
8 both here in the room and on the telephone, for coming to  
9 the project and holding the first technical conference for  
10 the purpose of clarifying the matters in dispute with  
11 reference to the study criteria. I would like to make three  
12 quick points.

13 First of all, Georgia Power does not believe that  
14 the Department of Interior has met the intent of the study  
15 criteria at 18 CFR 5.9(b) as detailed by our discussion  
16 today. Secondly, I would like to thank the panel for their  
17 patience as we try to drift over into the depth and breadth  
18 of Section 18 and 4(e) of the Federal Power Act. We do  
19 understand that this conference was held to clarify the  
20 matters at hand for the panel.

21 Lastly, Georgia Power strongly believes that if  
22 the Department Interior gains a thorough understanding of  
23 the operation of Buford Dam and Morgan Falls Dam,  
24 appreciates and realizes the wealth of available information  
25 coupled with the proposed information gathering that Georgia

1 Power has put forward, that they will have the resources and  
2 the tools necessary to meet their resource management goals  
3 and objectives. Thank you.

4 MS. NICHOLAS: Betsy Nicholas from Upper  
5 Chattahoochee Riverkeeper again. As I mentioned previously  
6 we have been involved with this process from the beginning.  
7 As the first ILP a lot of attention has attached to this  
8 nationally even though it's a fairly small dam. I can say  
9 quite honestly that I am not surprised, from how things have  
10 gone all along, that we are in now formal dispute for the  
11 first time.

12 The most notable things, it seems to me, from  
13 this proceeding, from the beginning through now, is a lack  
14 of information and a lack of collaboration. And despite  
15 efforts by agencies, non-profits organizations like ours,  
16 municipalities, recreational groups, to try to get together  
17 and be involved with the development of the study plans,  
18 feedback on the study plans, sharing of information, all of  
19 those attempts have been rebuffed by Georgia Power.

20 I am very concerned about the confusion that  
21 apparently we all have about the restrictions on the  
22 operations because we have tried to discuss this and we  
23 still haven't seen evidence of the claims that Georgia Power  
24 is making. I think that there is really a lack of  
25 information in every study plan in the entire process, and

1 particularly coupled with the lack of collaboration, I fear  
2 that we may not get the information that we need to create  
3 the proper license for this project.

4 I would hope that we could do something to fix  
5 that and I hope that the panel is able to look at all those  
6 issues and consider that when evaluating Interior's request  
7 here and trying to meet all of those goals all at once.  
8 Thank you for being the guinea pigs and taking on this first  
9 process.

10 MR. THORNTON: Doug, do you have any comments or  
11 further questions?

12 MR. NEIMAN: I would just like to thank all of  
13 the presenters and again express my regret at not being able  
14 to be there because of a health problem, but I was able to  
15 hear practically every word and I thought it was a very  
16 profitable event.

17 MR. THORNTON: Thank you. This is Jerry Thornton  
18 again. Responding to last two comments a little bit, I know  
19 there is some tension in the room because of the differences  
20 of opinions here. The panel here is going to have to make  
21 its recommendations under a very tight time frame under the  
22 regulations. I would simply suggest that it may not be too  
23 late for the requesting agency and Georgia Power to put  
24 their heads together and see if there is any room for  
25 compromise in there, and if you should reach some compromise

1 about studies and you want to inform the panel quickly, I am  
2 sure we would like to hear it but that's entirely up to you  
3 folks.

4 MR. JAYJACK: I want to talk a little bit about  
5 the next steps and make sure that everybody's expectations  
6 are in line with the final Rule and what our job as a panel  
7 will be from this point forward.

8 Like I had mentioned before, we have until  
9 February 4th to not only deliberate but to come to an  
10 agreement as to what we are going to recommend to the  
11 Division Director of the Office of Energy Projects at FERC,  
12 and that is consistent with what is specified in the final  
13 Rule. I can't discuss enough that we are on a short time  
14 frame so if you have any additional information to put  
15 forth, please send that to us. The Rules doesn't kind of  
16 specify too much past this point other than that we will be  
17 making our findings. We will be deliberating, having a  
18 couple of meetings and discussions on what we heard here  
19 today.

20 As far as expectations go, as I mentioned at the  
21 beginning of the meeting, the panel has a limited  
22 responsible and that is given to us by the regulations. So  
23 please keep in mind that we are really going to be focusing  
24 on the disputed matter and how it relates to Section 5.9 of  
25 the regs. So I am hoping nobody is expecting us to speak to

1 public interest matters relating to specific alternatives  
2 and that sort of thing. That responsibility and that  
3 function has not been given to us. I think if you read  
4 Section 5.14 of the regs, that pretty much lays out what our  
5 responsibilities are, and I am hoping your expectations are  
6 in line with that.

7 With that I guess this would be a good time to  
8 conclude. I would just like to thank everybody for taking  
9 the time out to be here today and to bear with us in some of  
10 the struggles that we have had in being able to set this  
11 meeting up as far as some of the technical issues.

12 MR. MARTIN: Could I say something about the next  
13 steps?

14 MR. JAYJACK: Sure.

15 MR. MARTIN: Again, this is Georgia Martin. In  
16 regard to the next steps, as a result of the filing that  
17 Interior made by spuriously redirecting their study dispute  
18 and alluding to some other filing by the 25th of this month  
19 and the request that has been made by the panel to receive  
20 any additional information in a timely fashion and the short  
21 time frame that you are working under, is there a way that  
22 we can establish a deadline to submit things to you? I  
23 don't want us all to think we can submit at 4:59 on the 4th.  
24 Would that be helpful to the process?

25 MR. JAYJACK: Let me couch my response this way,

1 first off, the record is open; it's an open proceeding so  
2 one could file comments related to the project at anytime,  
3 so there's no restriction. The problem George has mentioned  
4 is there is only so much time we have to deliberate. So  
5 practically speaking we would need to see something as a  
6 panel--I speak for the panel, not for the Commission itself--  
7 -but we would need to see something by the middle of next  
8 week, I think, in order for us to realistically be able to  
9 digest the material and come to some kind of decision in the  
10 manner set forth by the regulations.

11 MR. MOORE: David Moore, Troutman, Sanders,  
12 counsel for Georgia Power. I just want to make clear that  
13 we do reserve our right to make objections to supplemental  
14 filings for the record. The Rule does appear to provide for  
15 specific instances regarding that filing. We would like to  
16 reserve that right and raise those issues in the future.

17 MR. JAYJACK: If nobody has anything else they  
18 would like to say

19 MR. CANTRELL: When will transcripts be  
20 available?

21 MR. JAYJACK: Thanks. FERC has a contract with  
22 ACE Reporting Services--I believe that's the name of the  
23 company--and unless the contract has changed I believe they  
24 will be publicly available within five days. If you need  
25 transcripts before then you will have to contact Ace Federal



1 Reporters directly and there is a charge for the expedited  
2 purchase of those.

3 MR. CANTRELL: Will Georgia Power's transcripts  
4 be available as well?

5 MR. JAYJACK: That is up to Georgia Power; it has  
6 nothing to do with FERC or the panel.

7 MS. MALVERN: Will they be posted on the website,  
8 the FERC transcript?

9 MR. JAYJACK: The FERC transcript will be posted  
10 on our website, yes. Whether Georgia Power's will be there  
11 or not is up to them, whether or not they decide to file it.

12 Has everybody signed in, by the way, so we know  
13 who was here? If you haven't, just stop by at the very end  
14 and fill it out; that would be great. Thank you. If there  
15 is nothing else, thank you and have a good day.

16 (Exhibit No. 4 marked for identification.)

17 (Whereupon, the proceedings in the above-entitled  
18 matter was concluded at approximately 2:45 p.m.)

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C E R T I F I C A T E

STATE OF GEORGIA                    )  
COUNTY OF FULTON                    )

I, Darlene F. Akins, Certified Court Reporter and Notary Public in and for Fulton County, Georgia, do hereby certify that the foregoing testimony was taken down by me, as stated in the caption; that the foregoing questions and answers were reduced to print by me via voice writing; that the foregoing pages 4 through 128 represent a true, correct and complete transcript of the evidence given by the witness, who was first duly sworn by me; that I am not a relative, employee, attorney or counsel of any of the parties; that I am not a relative or employee of attorney or counsel for any of said parties; nor am I financially interested in the outcome of the action.

This the 25th day of January, 2005

\_\_\_\_\_  
DARLENE F. AKINS, CCR-B-2334  
Certified Court Reporter