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FEDERAL ENERGY REGULATORY COMMISSION
PUBLIC SCOPING MEETING FOR
SUSITNA-WATANA HYDROELECTRIC PROJECT

Held at:
Loussac Library
3600 Denali Street
Anchorage, Alaska

March 26, 2012

6:03 p.m.

1 DAVID TURNER: All right. I
2 guess we'll get started.

3 My name is David Turner. Welcome
4 this evening to the scoping meeting for the
5 Susitna-Watana project. I'm with the Federal
6 Energy Regulatory Commission, and I'm a wildlife
7 biologist by training.

8 Also, I'll ask my colleagues to
9 introduce themselves.

10 JENNIFER HILL: Jennifer Hill,
11 chief of the Northwest Branch for hydropower
12 licensing.

13 KATIE PARKS: I'm Katie Parks,
14 and I'm a civil engineer with the Division of
15 Dam Safety & Inspections in the Portland
16 Regional Office.

17 JESSICA HERNANDEZ: Hi, I'm
18 Jessica Hernandez. I'm a recreation planner
19 with the Northwest Branch.

20 MATT CUTLIP: I'm a fisheries
21 biologist out of Portland, Oregon, also with the
22 Northwest Branch.

23 KIM NGUYEN: I'm Kim Nguyen. I'm
24 a civil engineer with the licensing branch.

25 LISA MacDONALD: I'm Lisa

1 MacDonald with the Louis Berger Group, an
2 economist working with FERC on the project.

3 DAVID TURNER: Wayne, do you want
4 to introduce any of your staff at this time?

5 WAYNE DYOK: I'll introduce them
6 when I come up there and maybe simplify the
7 process.

8 DAVID TURNER: Sounds good.

9 KIM NGUYEN: And Frank.

10 DAVID TURNER: And Frank
11 Winchell, our cultural resources specialist back
12 there at the table where people sign in.

13 Okay. Just to kind of get some
14 housekeeping and other things done. The way
15 this thing is going to work tonight is we're
16 going to give a -- or I'm going to give a very
17 brief presentation to make sure everybody
18 understands what to expect over the next couple
19 of years and what tonight's all about.

20 We'll start off with an overview
21 of our licensing process and the purposes of the
22 scoping and the meeting tonight. Then we're
23 going to turn the floor over to Wayne to make
24 sure to give a brief project description to make
25 sure everybody understands what's being

1 proposed.

2 Then I'll introduce the
3 discussion of some of the topics that we've
4 identified based on the record as being issues
5 that we'll cover in our EIS. Then we'll open
6 the floor up for your comments. I was expecting
7 a bigger crowd tonight than this, so I think
8 we're going to have plenty of time in terms of
9 giving your comments. So we'll just run
10 through.

11 If somebody wants to make a
12 comment or statement, raise your hands and I'll
13 call on you. Come up front to the podium. Give
14 your name and your affiliation, because
15 everything is being recorded here this evening
16 for the record, and we'll use this for part of
17 our decision-making process for the project.
18 Again, state your name and affiliation before
19 speaking. And as an FYI, there's comments -- if
20 you don't want to make oral comments tonight,
21 you don't have to or if you think of something
22 else you'd like to add to it, you can always
23 file written comments with the Commission by
24 April 27th of 2012, this year.

25 In the back of the Scoping

1 Document, which I hope everybody has gotten a
2 copy of -- there were some extra ones up there
3 on the table when you checked in. Look in the
4 back of that document. If your name is not on
5 that mailing list, you're not on the
6 Commission's official mailing list for the
7 project. If you want to be added, follow the
8 directions in that document on how to do so.

9 Then after everybody has had a
10 chance to provide their comments -- oh, one
11 other item. E-library, I want to make sure
12 everybody understands their opportunities for
13 e-subscription and e-filing of comments. On the
14 FERC web page, www dot FERC dot gov, there is an
15 e-library system. You can go on there,
16 register, and you'll get immediate notification
17 of any filings with the Commission or any
18 issuances by the Commission. Also, in the back
19 there's a hand out called Public Get Involved.
20 It also has a description of how to e-subscribe
21 and how to e-file your comments.

22 This is just a very quick, short
23 review of -- overview of the licensing process
24 that the Alaska Energy Authority will be
25 undertaking to license or develop an application

1 for the project. It begins with the Notice of
2 Intent or Pre-Application Document that sets the
3 foundation for what we know about all the
4 resources in the area and the way the project
5 interacts and affects the resources. AEA filed
6 that document on December 12th of last year.
7 Now we're in the second box, the scoping phase.

8 Over the next several months
9 we're going to be working to finalize study
10 plans. That's what we call in the third box the
11 Study Plan Development Phase. At the end of
12 that phase, the Commission will issue a decision
13 that says, Alaska Energy Authority, this is the
14 information we need to develop for a record.
15 You've got to go collect this information.

16 In the last box there's a study
17 development -- a Studies Implementation and
18 Application Development. That's if all goes
19 well, it's through the 2012/2015 time period and
20 that's when they're gathering information and
21 preparing their license application. They file
22 the application with us. We review it. We find
23 that it's complete. We'll issue our Ready for
24 Environmental Analysis Notice, which says we
25 have everything we need to do an analysis on

1 this. We want your input on -- comments on how
2 the project should proceed or what are your
3 issues and concerns, what kind of measures are
4 necessary to deal with those concerns.

5 Then we're going to take all that
6 and prepare an Environmental Impact Statement,
7 both draft and final. That will be what the
8 Commission makes its decision on.

9 This is a little bit more
10 detailed review of that overview that I just
11 gave you. It, again, begins with a Notice of
12 Intent in Box 1. We're in scoping now, which
13 we're going to be conducting in March of this
14 year. We issued the Notice of Scoping back on
15 February 27th. Comments are due, again, on
16 April 27th. I will note that there has been a
17 request by several federal agencies to extend
18 that time frame for filing recommendations and
19 study requests to May 31st and AEA has filed a
20 letter in support. We just got that letter
21 today, I think, so we haven't acted on that
22 extension of time request. So right now
23 April 27th is still the due date, but it may
24 very well extend to May 31st.

25 Again, we go into the Proposed

1 Study Plan Phase where AEA takes those study
2 requests, develops a study plan based on that
3 information. We go through a 90-day period,
4 working with all the stakeholders to try to
5 resolve disagreements on those studies.
6 Ultimately, AEA will produce a Revised Study
7 Plan by October of this year, but all these
8 dates past the April 27th will likely move about
9 a month. So it would probably be November of
10 this year that AEA introduces its Proposed Study
11 Plan.

12 Then the Commission will act on
13 that and, again, make a decision on what studies
14 are necessary for preparing the application. In
15 that it will resolve any disagreements that AEA
16 and the parties may have had over what they've
17 gotten from those studies.

18 The items in the yellow box are
19 for mandatory conditioning agencies, those that
20 have the Federal Land Management Agency, like
21 maybe BLM or Forest Service -- Forest Service is
22 not involved here -- but BLM. They have
23 forwarding conditioning authority; that is, they
24 could condition any license with specific
25 conditions and if we decided that a study that

1 they had requested was not -- we didn't need it
2 for our purposes, they could ask a panel to
3 reconsider that request. That box is really for
4 those mandatory conditioning agencies, like Fish
5 & Wildlife Service or Fishway Prescriptions or
6 the Water Quality Certification Agency.

7 Then they take that. AEA goes
8 out and starts conducting those studies through
9 2013 and 2014. In that period there will be
10 some periods of check-in to make sure that the
11 studies are being done and there doesn't need to
12 be any modifications to those studies. Then
13 they will produce a Draft License Application or
14 a Preliminary Licensing Proposal and ultimately
15 file a License Application. Their projected
16 time line for that is 2015.

17 Now we really get into what the
18 purpose is for tonight's meeting, and that's to
19 make sure that we understand the issues that
20 surround this project and are of concern to you.
21 We've gone through the record and in the Scoping
22 Document have a bulleted list of items that
23 we've identified based on the record before us,
24 but this is your first opportunity to tell the
25 Commission where we've missed something, where

1 we have maybe included something that didn't
2 need to be included and where additional
3 information needs to be acquired to address
4 those issues.

5 Again, the types of information
6 that we're looking for are the geographic and
7 scope of the analysis that we need to do to
8 address your issues and your interests, any data
9 that would help us describe the existing
10 environment or the effects of the project on
11 those resources, any local or federal resource
12 management plans that we may not have known
13 about that may be influenced -- may influence
14 our decisions or measures that get supplied to
15 any license we may issue. Again, any resources
16 that we -- or issues that we missed in the
17 Scoping Document or ones that we've included
18 that really aren't issues. And then, again,
19 studies for collecting the information to
20 address those issues.

21 Again, your information can be
22 given tonight orally or you can file in writing
23 by April 27th and you can mail those in or use
24 e-library to file them electronically. When you
25 make your study request, when we develop the

1 integrated licensing process, we -- when I say
2 "we", the Commission in collaboration with state
3 and federal agencies, Native tribes, NGOs, we
4 came up with a set of criteria that helps guide
5 those information requests and studies to make
6 sure that they're relevant and on point to the
7 project effects and the resources that are going
8 to be affected by that project.

9 We came up with seven criteria.
10 They're also in the back of your Scoping
11 Document we were handing out. You need to
12 address each of these and it's important to do
13 so because it helps us understand the basis of
14 your study request and why it's there and what
15 level of effort and what you think needs to be
16 done to gather that information.

17 Again, just to keep this in the
18 forefront. This is a very schedule-driven
19 process, but the due date for an information
20 request and for comments is April 27th unless we
21 extend it, which we probably will, which would
22 be May 31st of this year. When you file this
23 information and your study request, be sure to
24 put on the first page of your filing the name of
25 the project, which is Susitna-Watana

1 Hydroelectric Project, and the project number.
2 That's our system for keeping track of all of
3 the various dockets that we have before us. The
4 project number for this project is 14241.

5 Again, you can file
6 electronically or by letter and you need to send
7 this information to our secretary, Kimberly
8 Bose, Federal Energy Regulatory Commission in
9 D.C., not to staff directly to make sure it gets
10 appropriately entered into the record.

11 With that, I'm going to turn it
12 over to Wayne to kind of go through their
13 project.

14 WAYNE DYOK: Thank you, David,
15 and thank you FERC staff for coming out this way
16 to hear the concerns of our colleagues here in
17 Alaska, and most importantly thank you all for
18 attending tonight to take time out of your busy
19 schedule.

20 My name is Wayne Dyok, D-y-o-k.
21 I'm the project manager for the Susitna-Watana
22 project. I'm employed by the Alaska Energy
23 Authority. With me tonight I have Sarah
24 Fisher-Goad, our executive director, Emily Ford,
25 who is our public outreach liaison, Brian

1 Bjorkquist, our attorney, Bruce Tiederman, who's
2 responsible for Alaska Native consultation. I
3 don't know if Bryan Carey has made it here yet,
4 but on the consultant team we have Kirby Gilbert
5 and Steve Padula.

6 A little bit about the project
7 here. First of all, we're located -- the
8 project is located 184 miles upstream of the
9 mouth of the Susitna River and it's upstream of
10 Devil's Canyon. Devil's Canyon is a blockage
11 for all anadromous salmon except for king
12 salmon. So some numbers of king salmon make it
13 upstream, and we're going to be evaluating that
14 starting this year.

15 We're looking at a dam that's
16 going to be on the order of 700 but could be as
17 high as 800 feet high. Ultimately we could
18 build it up to 885 feet high. That was the
19 height of the dam that was proposed initially
20 back in the 1980s. The reservoir that would be
21 formed by the dam would be 39 miles long,
22 approximately two miles wide at its widest
23 point. If we go to an 800 foot high dam, then
24 you're probably looking at a reservoir length of
25 43 miles.

1 Nominally the project would have
2 600 megawatts of installed capacity. Right now
3 we're looking at three 200 megawatt units, but,
4 quite frankly, it could be 150 megawatt units.
5 We may end up with four 150 megawatt units. We
6 will produce around 2-and-a-half million
7 megawatt hours annually, and that's about half
8 of the railbelt electrical energy, you know,
9 load on an annual basis. I think that's an
10 important number. Because I can never remember
11 what really 2-and-a-half million megawatt hours
12 is, but when you look at it as half of what we
13 need here in the railbelt, it might give you a
14 flavor for it.

15 One of the important aspects of
16 the project is providing reliable winter energy.
17 So the project can provide in 49 out of 50 years
18 on the average of 250 megawatts. I'll talk a
19 little bit about how we might operate that a
20 little bit later.

21 So for the project area. Let me
22 just maybe point out here the upstream limits of
23 the reservoir. So here you come up and about
24 this point here is the upstream limit of the
25 reservoir; that's 39 miles, and you probably

1 come down to about here if we ended up with an
2 800 foot high dam.

3 We're considering three access
4 corridors. The Denali access comes along the
5 Denali Highway and then goes down here to the
6 project site. That's 44 miles long. Then we
7 have the Chulitna access corridor that goes from
8 the railroad to the project site. That's 45
9 miles long. And then the last route that we're
10 evaluating is what we call the Gold Creek that
11 also starts from the railroad and goes along.
12 That's about 50 miles long.

13 You'll see this deviation here.
14 The reason for that is the road would come this
15 way. If we use this route, we'd have a
16 transmission line that would come this way
17 because we can span some of the steeper creeks
18 in the area. We would co-locate the
19 transmission line with -- one transmission line
20 with the access road, but we would probably need
21 another one of these corridors for a second
22 transmission line so that we have reliable
23 electric energy for the railbelt since we're
24 going to be providing such a great percentage of
25 it.

1 Now, we're kind of honing in on
2 the project site here. Here's the dam. We're
3 studying up to elevation 2200; that's this line
4 here. And even though the reservoir isn't going
5 to be that high, we felt like that would
6 encompass the entire area that we need to study
7 within the reservoir.

8 The project would have an
9 airstrip. It would have a temporary camp, and
10 we would probably have around 800 construction
11 employees on average with a peak of 1,000
12 construction employees. That would be
13 dismantled after construction was done, and then
14 we'd have a permanent camp. Maybe 20 to 30
15 people would be required to operate the project.

16 You see some of these quarry
17 areas and borrow areas on here as well and then
18 these are the access routes coming into the
19 project site. Building the project you need to
20 go through a sequence. You have to have your
21 access road come in first. These lines are
22 access routes here that we would need to gain
23 access to the site. So that's the first thing
24 you have to do.

25 The second thing you have to do

1 is you have to do your constructed diversion
2 tunnel. Once you get the diversion tunnel done,
3 then you need to put your diversion dams in here
4 but you can't interrupt the flow of water as it
5 goes downstream. You need to have water flowing
6 all the time.

7 This would be the dam here. This
8 dam is an RCC, which is a roller-compacted,
9 concrete dam. Diversion that we show here is a
10 straight version. It has about 5.1 million
11 cubic yards of concrete in it. We're looking at
12 a curve to that. We could maybe reduce that
13 about a million cubic yards and take some of the
14 load on the abutments.

15 It's most likely going to be a
16 roller-compacted, concrete dam, but we are also
17 looking at a concrete-faced, clay core dam as
18 well. In the 1980s they -- in the 1980s they
19 did just a rock-fill, clay core dam, but that
20 requires a lot more volume then.

21 The powerhouse is right here.
22 It's located a little bit further downstream
23 than you normally would put behind a dam. But
24 the reason for that is this would allow us to
25 raise the dam at some point in the future to an

1 ultimate elevation of 885 feet.

2 A little bit about the operation
3 of the project. What we really want to do, as I
4 said earlier, we want to have a lot of energy in
5 the wintertime when we need it most, so we need
6 to store the water. So when we get the spring
7 runoff, we would be collecting water in the
8 reservoir and filling it up during the course of
9 the summer and then releasing it in the winter.
10 We're looking at a reservoir elevation change of
11 around 150 to maybe as much as 200 feet on an
12 annual basis to be able to get that amount of
13 energy. So that's on the annual basis how we
14 want to do that.

15 Then what we would like to be
16 able to do -- we met with the utility railbelt
17 managers. They would like to make sure we
18 maintain this project as flexible as possible
19 for them to meet their system electrical needs.
20 So what you see here is a typical energy demand
21 over a course of 24 hours. This particular one
22 is a typical day in January, 2025. On this side
23 here is the number of megawatts that we would
24 need in the system. You can see that in the
25 early morning hours it drops down. In this

1 particular case it's a little less than 600.
2 Then it comes up in the morning when people wake
3 up and turn on their lights and their
4 appliances. And then they head off to work. We
5 see a little bit of a decline. Then they come
6 back at the end of the day and there's another
7 peak and then it sort of falls off as people
8 turn their lights off and go to bed. So that's
9 what you need to do.

10 What this dashed blue line here
11 is, this would be everything else in the system.
12 We're idealizing this as though it's providing a
13 straight amount of energy. In fact, we have
14 some flexibility because we have a 136 megawatt
15 Bradley Lake project. We have a couple of other
16 hydros in this system. We can vary the load
17 from some of the gas turbines. So we do have
18 some flexibility. We're going to be adding a
19 lot of wind into the system in the future and
20 maybe some other renewables, so we want to
21 assume as much flexibility as possible here.

22 So what we're saying is we would
23 ideally like to be able to provide this amount
24 of energy here from the Susitna-Watana project.
25 It would vary from a minimum here, which would

1 be around a little less than a couple hundred
2 megawatts, maybe around 175 megawatts, to in
3 this case about 400 megawatts. But ultimately
4 we would like to have the flexibility for 600
5 megawatts.

6 So what would that really mean in
7 terms of what it looks like in the river? And
8 there's a gauging station at Gold Creek, which
9 is between Talkeetna and Devil's Canyon. That's
10 in a very sensitive place. So if we look at the
11 minimum flow that we might want to operate in
12 the nonsummertime -- and I'll talk about the
13 summertime in a minute -- in the nonsummertime
14 maybe 3,000 cfs. The most amount of water that
15 we can get out of the system with our 600
16 megawatts is about 14,500. So if we fluctuated
17 between 3,000 and 14,500 cfs, that would
18 translate to about a 2.8 foot water level change
19 at Gold Creek. It would be less elsewhere
20 between Devil's Canyon and Talkeetna and
21 certainly beyond that it would be even less, but
22 we have to study that. So that's like the one
23 spectrum.

24 The other spectrum is if you
25 operate it at the same rate during the

1 wintertime where you didn't have that variation.
2 So we're going to be looking at that. We also
3 have to be very careful to provide flows for the
4 aquatic resources. Back in the 1980s they were
5 looking at a minimum flow of around 9,000 cubic
6 feet per second as a minimum flow during the
7 June, July, August time period. So that's what
8 we're starting with as the minimum flow at Gold
9 Creek.

10 So the amount of flow fluctuation
11 that you would see at Gold Creek during the
12 summertime, if we looked at those kinds of
13 conditions with the higher flows, would be
14 around two feet. So we would be looking at
15 something less than two feet of flow fluctuation
16 if we went to a full load following, but we
17 recognize that there may be some constraints
18 upon us.

19 One of the things that we want to
20 do as we go forward is make sure we understand
21 all of the environmental issues and make sure
22 that we operate this project in an
23 environmentally benign manner.

24 So I guess that's really it from
25 the perspective of a project description. I'll

1 turn it back to David here.

2 DAVID TURNER: Okay. In Section
3 4.2 of the Scoping Document there's pages 11
4 through 17. If you don't have a copy of the
5 Scoping Document with you, we have some extra
6 ones up there on the table. We listed the
7 environmental issues that we analyzed -- that we
8 think we're going to need to analyze in the EIS.
9 This list is not intended to be exhaustive or a
10 final list. We're looking for your input,
11 again, on what may need to be added or what
12 needs to be removed.

13 We're particularly interested in
14 hearing from you, again, on what your concerns
15 are tonight and try to address those. I know
16 we've covered a lot very quickly. We intended
17 to do so to make sure we had enough time here
18 tonight to hear from you. So if there's
19 anything at all that you want to ask about the
20 licensing process or the project, we'll
21 entertain those, but it's also your time to let
22 us know what your concerns are.

23 I think we have one person that
24 said they needed to leave, so I'm going to turn
25 it over to the floor now and start taking

1 comments. I forget your name.

2 PETER MJOS: Peter Mjos.

3 DAVID TURNER: You want to be the
4 first? We're glad to take your comments.

5 Remember, again, give your name
6 and affiliation for the court reporter so we can
7 attribute your comments to you.

8 PETER MJOS: Good evening. Thank
9 you very much. My name is Peter Mjos. Last
10 name is M-j-o-s. I'm speaking for myself. My
11 comments will be brief.

12 The proposed Susitna dam is a
13 most precarious, I repeat, a most precarious
14 proposition. It is certainly physically and
15 geologically precarious. Certainly we are a
16 state of movers and shakers. The foremost
17 occurred in 1964, which you're aware. More
18 recently we had the proximate Denali fault quake
19 and weekly there's a whole lot of shaking going
20 on. Imagine just imagine a breach of this mega
21 project. Who would dare live downstream?

22 How precarious the entire Alaska
23 budget. The total cost is the great unknown of
24 this project, but sure will come into the mega
25 billions. In addition, the dam would require

1 perhaps billions in subsidies. The dam by
2 definition will centralize the power grid.
3 History has surely taught us how very precarious
4 such centralization of power grids is, and
5 certainly today we are more than ever subject to
6 not just criminal disruption but natural
7 disruptions. Yet the dam would provide at most
8 today, as I understand it, 25 percent of total
9 railbelt energy. We must surely develop other
10 alternatives.

11 As an aside, there has been a
12 rumor circulating that the dam might possibly
13 supply power to the proposed Pebble project.
14 Were that the case, it would certainly severely
15 cripple available railbelt energy. By
16 dedicating such massive resources to a single
17 mega project, our remaining resources for the
18 rest of Alaska would be seriously compromised.

19 Finally, Alaska has a great
20 decentralized alternative energy potential.
21 You're aware of these: Wind, solar, tidal,
22 wave, geothermal, biomass and natural gas.
23 Perhaps you saw the headline today that there
24 may be a hundred years' worth of natural gas in
25 Upper Cook Inlet.

1 I would respectfully request that
2 the State of Alaska study all energy options
3 before us. Thank you.

4 DAVID TURNER: Thank you.

5 RICH WILSON: How long do we
6 have? Two or three minutes?

7 DAVID TURNER: Actually there's a
8 limited number of people that said they wanted
9 to speak. We have the place until
10 10:00 o'clock, so you can probably talk.

11 RICH WILSON: Well, I'll go to
12 about 9:49.

13 My name is Rich Wilson. I'm
14 president of the citizen group called the Alaska
15 Rate Payers, Inc. We are a purely unpaid
16 volunteer group of people. Unlike other
17 nonprofits we don't get any pay and we don't
18 have anybody pay for our travel or any other
19 expenses that we have. We are totally out of
20 our back pocket citizen group. So I think that
21 says something, to me, that the number of people
22 that have joined in -- there's over 30 folks
23 that are involved in this on a weekly basis.

24 We were formed in 2007 as a
25 result of rapidly rising gas prices and

1 gas-fired electric generation rates. We think
2 there's got to be a better way and there's no
3 plan. So the State was embarking on a little
4 broad planning process and considered all the
5 options that were available, including all the
6 renewable options as well as nonrenewables.

7 We feel that a balanced portfolio
8 is what we need. Contrary to what the last
9 speaker said, this is only going to provide 175
10 to 400 megawatts of the total 600 megawatts
11 required in the railbelt, existing use. So it
12 is not going to -- it's not enough to even be
13 shared with any new industrial project. As a
14 matter of fact, we feel that's a mistake, but we
15 are very supportive of going with this hydro
16 project because it replaces variable priced
17 gas-fired generation.

18 The only way the gas prices go
19 over the long run is that way (indicating), and
20 we feel that it's important for us to put a
21 major chunk, not all of it, but a major chunk of
22 our generation into the stable, flat-priced
23 category. It's only available from -- with
24 technology that's proven over the centuries.
25 And that's not to say that new technology should

1 not be explored and demonstration projects. We
2 totally support that.

3 The tidal projects and the wind
4 and the geothermal are all worthy of study and
5 many others too. But we do not believe that we
6 can sort of put the hydro project off to the
7 side while we think up and work out the
8 technology kinks that are still out there.
9 There are no kinks in the hydro business.

10 There's a lot of new engineering
11 that is available to the Alaska Energy Authority
12 in sponsoring this project, and it's a crime to
13 really compare this new project with new
14 techniques that have been identified through
15 trial and error over the years with those that
16 were build 30, 50 years ago that have had some
17 problems. We recognize those problems are bad
18 and we shouldn't repeat those mistakes. We
19 don't have to and we won't. It won't be
20 possible with this process. This is an
21 incredibly extensive process.

22 One of my points here is that
23 we -- you know, somebody asked us why are we as
24 kind of experienced, shall we say, citizens in
25 the community here, in the Alaskan community, in

1 favor of something that won't get built for ten
2 years or more? We believe that it's worth
3 waiting for and we also owe it to the next
4 generations behind us. Just like previous
5 generations built little dams in Juneau, like
6 the Salmon Creek project. And that project, by
7 the way, is producing power at 6 percent today
8 of the cost of wholesale power in gas-fired
9 country up here in the railbelt. So old hydro
10 can't be beat and it can be built, but it takes
11 time and we're willing to take that time.

12 We want to have a long vision and
13 we believe that this is the way to go. We're
14 glad that the -- that FERC has decided to go
15 with the integrated licensing process because it
16 has the best chance of getting us through this
17 thing efficiently. I'm a little disappointed
18 that we're already asking for delays in the
19 process that was established to accommodate more
20 study.

21 We have to go back to the '70s
22 and '80s when \$140 million, worth 400 million
23 today, was spent on those studies. Sure, things
24 have changed. Some things need to be updated.
25 Some needs to be done fresh with new

1 requirements. But there's a huge body of
2 information that should be incorporated into the
3 record and utilized. I know that there's an
4 attempt to do this, but I'm not sure how much of
5 that will be accepted by FERC as acceptable
6 data. I urge you to really take time to utilize
7 what we have in the name of efficiency and
8 ultimate low rates to people like us, people
9 that pay the electric bills.

10 We don't have any doubt that this
11 thing will be built in a responsible way. We
12 all fish. Some of us hunt. Some of us just
13 take photos of wildlife. We enjoy Alaska. We
14 enjoy the features that are offered here and we
15 do not -- we don't want to hurt anything out
16 there. We think this is an incredible
17 opportunity to do something that is unusually
18 neutral in terms of impact on major
19 environmental issues.

20 Now, there are some, yes, and
21 they need to be fully vetted, fully studied in a
22 responsible way. We need to be able to get to
23 the end point here. Time for some us to enjoy
24 the energy that will be generated ultimately by
25 this project. I think that it is one of those

1 legacy projects that needs to be given full
2 consideration, even though there are those that
3 just don't want anything to be built on any
4 river. That is unfortunate, because this site
5 is way above a seven-mile, Class 6 rapid and
6 it's up above it. There's no permanent
7 population up there. It is a perfect site.
8 It's got a big basin and it's out of the way.
9 Nobody seems to know where Watana is, if you ask
10 them on the street, because it's so remote.

11 This is an opportunity to -- it's
12 one in a million. It really is. We ought to do
13 what we can to make it work. So thank you for
14 the opportunity to comment today and we'll be
15 submitting written comments as well.

16 DAVID TURNER: Thank you.

17 LEE WAREHAM: My name is Lee
18 Wareham. For me, I'm here this time on behalf
19 of myself. This is the second time around for
20 Susitna for me. During the last time, I was
21 co-chairman of a citizens group called Susitna
22 Power Now. In one year the size of -- we had
23 enough -- we had over 400 members and some of
24 them were corporations and a lot of private
25 citizens. One year -- this is 1985, so double

1 it for current dollars -- we spent \$250,000 on
2 TV ads, newspaper ads, PSA type stuff, public
3 information stuff. This project was so right
4 back in the 1980s that somebody ought to be in
5 jail because we didn't build it then. We got
6 right up to the edge.

7 We got the Fairbanks-Anchorage
8 intertie built. We got the power cost
9 equalization that's still in existence. We got
10 that legislation passed so it -- the revenue
11 stream from Susitna from power sales was to fund
12 power cost equalization so the people that
13 weren't on the grid here in the railbelt would
14 benefit from it too. All that stuff was put in
15 place and Governor Sheffield and Senator Vic
16 Fisher killed it.

17 The reason they killed it when we
18 were going like gangbusters, oil prices, if you
19 remember, tailed off and the price of oil went
20 down to 9 or 10 bucks a barrel. These people
21 with a time horizon about this long got the
22 accountants in there and the accountants said,
23 this is never going to be the least cost. This
24 is going to be like Norwegian ship masts back in
25 the 1880s that were built out of pine, out of

1 Norwegian pine, and the price of that spiked and
2 then sailing ships went away. They're going to
3 be giving oil away, so this will never be the
4 least cost alternative.

5 Well, while all that was going
6 on, Tom Starr, who was one of our members and a
7 cool guy who understood electricity, the
8 economics of electricity in a very profound way,
9 better than anybody else in the state. He was
10 the general manager of Municipal Light & Power.
11 He was a very thinking guy. He did a private
12 study using resources that were available to him
13 and his study was very simple.

14 When you take -- now, there was
15 no combined cycle with thermal stuff then with
16 gas turbines, and everybody builds gas turbines
17 because you don't have to plan. You can screw
18 around and wait until the last minute and call
19 Mr. GE and they put a big turbine on a flatcar
20 and send it up to you. You hook it up to the
21 busbar and start hooking gas pipeline about
22 eight inches in diameter to it and let her rip.
23 Well, you got small up-front costs, but your
24 ongoing costs are high.

25 Now, we had at that time

1 artificially low gas prices, long-term contracts
2 that expired in the early '90s for Cook Inlet
3 gas for Chugach and for ML&P. But you could see
4 the horizon out there. That was coming to an
5 end. And Tom knew that once those contracts
6 were exhausted, whatever the hell the price of
7 natural gas was, that's where ours was going.
8 And because we're in Alaska, it's not going to
9 the reference line, it's going above.

10 Well, guess what happened?
11 Exactly that. So Tom did a study. And I don't
12 remember the numbers right now and I don't
13 know -- I've got a lot of files. I'll look and
14 see if I can find his study. But the proven
15 reserves in Cook Inlet at the time of Tom's
16 study, he took that as how much gas we had. He
17 did some pricing assumptions and he compared the
18 use of natural gas through gas turbines where
19 70 percent of it goes up the flue. That's why
20 you see these ravens out here. They get in that
21 thermal updraft, the exhaust from the power
22 plant, and they go up to about a thousand feet
23 and then they kick off and they dive back down
24 and then they go up and do it again. So we
25 provided a wonderful roller-coaster ride for the

1 ravens with 70 percent of the gas. Even that
2 long ago if you used it for space heating, you
3 recovered 90 percent. Well, 90 percent versus
4 60 percent, it's pretty easy to see that there's
5 an awful lot of stuff going up the flue.

6 Tom's numbers in 1985 dollars was
7 that the opportunity cost of not building
8 Susitna and using this gas until it ran out --
9 about now is when -- I can't remember what the
10 cutoff -- 1.8 billion with a B. Now, a billion
11 dollars for a few folks like us -- \$1.8 billion,
12 double that for now, that's how much money we've
13 already wasted. Build this dam. The technical
14 work is done. I was right in the middle of that
15 stuff. As the other speaker said, we spent, I
16 thought it was 180 million, but I haven't looked
17 at the numbers. We looked at every aspect. We
18 looked at the wildlife. I'm a pilot. I've been
19 flying up here for 55 years. You fly up that
20 thing. The hills are so steep nothing lives
21 there. It's not habitat for anything.
22 Woodpeckers maybe in some of the trees.

23 What we used to say, and I don't
24 know if this is true anymore, is that this was
25 the world's premier hydro project in terms of

1 the megawatts per acre of impoundment. The size
2 of the impoundment, somebody mentioned it's
3 two miles wide at the widest. Most of the
4 places you can shoot across it -- well, we can
5 shoot across that with a 30 aught 6, but most
6 places you could shoot a caribou across if you
7 had a long-range rifle.

8 I mean, this is a wonderful
9 project. We built -- when we built the
10 Fairbanks-Anchorage intertie, we sized the
11 towers, the conductors and the insulators to
12 handle 345 kv. It's not running at that now,
13 but to handle the power. So that's already
14 there. Susitna sits in the middle. If you were
15 an electrical engineer and you were looking at
16 this thing and you said, I got to put a
17 generating facility. My load center is here. I
18 got this many percent here. I got that many
19 percent here. It's just about perfect.

20 As my co-chairman, Bob Penny,
21 used to say, we can either build Susitna where
22 it is or we can build a nuke there. Either one
23 will work. But why should we penalize the
24 people of Alaska with unnecessarily high
25 electrical bills? The first power should have

1 hit the busbar in 1995. I got all kinds of
2 documents that talk about first power hitting
3 the busbar in 1995. 1995 was a long time ago
4 and here we are again. It was a failure of
5 leadership. Don't fail again. My grandkids
6 were supposed to be having low cost, reliable
7 hydro. They got gas-fired electricity.

8 I hope their grandkids have
9 low-cost hydro electricity. Thank you.

10 DAVID TURNER: Thank you.

11 SHERYL SALASKY: Could I propose
12 that maybe the first time around we keep
13 comments to three minutes just so that everybody
14 does get a first time? Then if people want to
15 come back, we could do that again a second time
16 around.

17 DAVID TURNER: That's fine. Like
18 I said, though, I think we've got plenty of
19 time. It's only 6:29.

20 SHERYL SALASKY: Right. Just so
21 that some of us could get up there before
22 10:00 o'clock is all I was thinking.

23 DAVID TURNER: All right. Why
24 don't we do that.

25 CARL PORTMAN: Good evening. My

1 name is Carl Portman, deputy director of
2 Resource Development Council. RDC is an Alaskan
3 business association comprised of individuals
4 and companies from Alaska's oil and gas, mining,
5 tourism and fishing industries. Our membership
6 includes all of Alaska's regional corporations,
7 local communities, organized labor and industry
8 support firms. Our purpose is to expand
9 Alaska's economic base through the responsible
10 development of our natural resources.

11 RDC supports the proposed Susitna
12 hydroelectric project as we believe this project
13 is truly in the public's best interests.

14 Railbelt communities from Seward to Fairbanks
15 are in need of a sustainable and reliable energy
16 source to power homes and businesses. Susitna
17 offers long-term, cost-effective and reliable
18 power at a cost and price for decades.

19 The project will also help the
20 State meet its established goal of deriving 50
21 percent of its electricity from renewable and
22 alternative sources by 2025. Realistically, the
23 only way to achieve that goal is for a new hydro
24 project to be built in the railbelt region. Of
25 the hydro projects examined, Susitna has the

1 best chance of being built.

2 RDC urges all permitting agencies
3 to not delay the completion of environmental
4 review and approval of this project.

5 Considering the studies performed in the 1980s
6 and the fact that the FERC process provides
7 approximately five years for studies and
8 analysis, this is more than ample time for
9 completing environmental work and monitoring.

10 Railbelt energy consumers may be
11 at risk if the project is needlessly delayed.
12 Susitna hydro will diversify the railbelt's
13 energy portfolio and provide needed security to
14 flatten out market fluctuations in energy
15 prices. Price volatility and high cost of
16 electricity are limiting factors in economic
17 development. The proposed project is important
18 to economic growth and resource development in
19 Alaska.

20 The project will bring many
21 economic benefits including new business and
22 jobs. Moreover, it has the potential to expand
23 the economy by attracting some new business to
24 the region. The Susitna project will include
25 mitigation measures to stabilize Susitna River

1 salmon runs and protect moose and caribou
2 abundance. At a minimum the project has the
3 ability to help manage river flows that are
4 favorable to fisheries. The Hydro Lake project
5 on the Kenai Peninsula is a model for fish and
6 wildlife abundance and good public policy.

7 In concluding I would like to
8 note that a recent Hellenthal survey of Alaskan
9 voters showed 60 percent support for the
10 project. A recent Dittman poll revealed 63
11 percent support for Susitna in the Fairbanks
12 area and 54 percent in Anchorage. Only
13 26 percent in Anchorage expressed opposition.

14 Thank you for the opportunity to
15 provide testimony on this most important
16 project.

17 DAVID TURNER: Thank you.

18 SHERYL SALASKY: Hi, my name is
19 Sheryl Salasky and I'm here as a concerned
20 citizen and resident of Talkeetna, which is just
21 below the dam site. I've lived in that area, in
22 Talkeetna, for the last three decades. I know
23 the area very, very well. I was a fisheries
24 biologist with Fish & Game working on the
25 Susitna hydroelectric project back in 1981 until

1 it ended in 1985.

2 I'm a much better writer than I
3 am a speaker. I'm nervous as all get out. I
4 probably won't make all my points here tonight,
5 which is fine. Because I am a better writer,
6 you can look forward to my written comments and
7 I also did file my motion on the FERC web site,
8 my motion to intervene. However, I feel
9 compelled to speak tonight. I'm not going to be
10 able to be at the meeting Wednesday night when
11 you're up in Talkeetna, so I wanted to come
12 tonight and say a few things.

13 Suffice to say, I oppose this dam
14 vehemently for a myriad of reasons. You'll hear
15 a few of them tonight. You'll hear many of them
16 as you carry on in your hearings throughout the
17 railbelt area. So I can't begin to go into them
18 all. Paramount of my reasons for opposing this
19 proposal is just the immense complexities of an
20 ecosystem this huge, a watershed that supports
21 just a vast natural system. As a biologist, I'm
22 aware of those and I'm sure that every Alaskan
23 worth their weight in gold is also aware of
24 that, and I would hope that the researchers that
25 you all have on staff also dig deep into that.

1 A system -- a natural system of
2 this size simply cannot be mitigated. I mean,
3 we can divert this and transport that, but there
4 are going to be huge losses in interfering into
5 that. I should try and keep with my points
6 here. This dam, as I understand it, only
7 supplies electricity. Up here in Alaska what we
8 need is heat energy more than electrical energy.
9 I don't think many people have electrical heat.

10 For that reason I would implore
11 the Commission or the researchers to seriously
12 consider looking at alternatives for energy
13 along the railbelt. Those would include a
14 variety of energy, such as tidal energy,
15 geothermal energy, further developing Cook Inlet
16 natural gas, lowering consumption levels,
17 increasing energy efficiencies. And I'll leave
18 it at that because I sort of figure that that's
19 you guys' job to look at everything that's
20 available and not just this one hydroelectric
21 proposal.

22 I heard something earlier about
23 load following and fluctuations in the water
24 level, both winter and summer. I'm sure most
25 people in this room and everybody that you will

1 meet in Alaska are avid winter and summer
2 recreationists. I, for one, know that the shelf
3 ice in the winter -- and our winters are longer
4 than our summers -- the shelf ice from the river
5 freezing at this level and then dropping to this
6 level daily is going to make trails for winter
7 recreation, whether it's snow machining, dog
8 mushing, skiing, ice fishing, people are out all
9 winter long doing stuff like that. The safety
10 of those trails crossing the river and following
11 the river will definitely be impacted.

12 Lastly, I think the economic
13 benefit of keeping this river in its natural
14 state will far outweigh the benefits of damming
15 a wild river and destroying the habitat and the
16 livelihood of this huge area that supports
17 incredible outdoor recreation and tourism.

18 The bottom line -- actually I
19 guess I also wanted to say that the earlier
20 speaker threw around a lot of -- we're all
21 throwing around words and numbers. We can all
22 throw whatever words and numbers out there that
23 we want; however, your job as the regulatory
24 Commission is to actually verify those numbers
25 and make sure that they are accurate.

1 So I'm going to throw around -- I
2 have thrown around words and I can throw in any
3 numbers, but suffice to say, just because AEA is
4 proposing to build this damn does not mean you
5 have to license it and I, for one, really hope
6 that you don't.

7 Last thing I want to say is
8 there's a movie out there called "Salmon Running
9 the Gauntlet." I don't know whether PBS put it
10 our or National Geographic put it out, but it is
11 about the Columbia River and taking down some of
12 the dams in that and how the ecosystem responds
13 to that. I would highly, highly recommend that
14 you take a look at that movie. It's
15 fascinating. If you need to know where to get a
16 copy of it, I have a link to it. Actually
17 you're going up to Talkeetna and I'm sure that
18 someone will offer you a copy as well.

19 Thank you for your time.

20 DAVID TURNER: Thank you. Anyone
21 else?

22 JOE GRIFFITH: First, welcome to
23 Alaska. My name is Joe Griffith. I'm the
24 general manager of Matanuska Electric
25 Association and the CEO of an organization

1 called ARCTEC. That's the railbelt generation
2 and transmission co-op.

3 We support the project. It is
4 needed. Our economy works on electricity and
5 without it Alaska wouldn't have an economy. We
6 have five utilities of six in the railbelt
7 supporting this, and I dare say that the other
8 utility that is not a member of ARCTEC will tell
9 you the same thing, that we support the
10 diversification that goes along with a hydro
11 plant of this nature. We're confident that FERC
12 knows -- as the lead agency knows how to do the
13 EIS and in the end it will all come out that it
14 makes sense and we know how to make it happen.

15 We have a system today that's 50
16 years old that is being replaced in a couple of
17 areas, but all of us utilities are relying on
18 having that 600 megawatts available in 2023.
19 Otherwise, we would be doing something different
20 than we are today. We're working closely with
21 AEA. We will participate in the financing of
22 it, much as we did to the premier hydroelectric
23 plant in the state, that being Bradley Lake.
24 I'm sure you've looked at the statistics on
25 that. It's a roaring success in Alaska.

1 Anyway, five of the six utilities
2 are standing here tonight supporting it. We
3 will be happy to participate with you any way we
4 can.

5 Thank you.

6 DAVID TURNER: Thank you.

7 MICHAEL JESPERSON: Good evening.
8 My name is Michael Jesperson and I am
9 representing myself and my wife and our three
10 children. My oldest son had planned on being
11 here tonight, but he didn't do so good on a
12 geometry test so he's at home.

13 As far as conservation to take
14 care of our power needs, fine, turn the lights
15 off at your house, but not mine. Turn off the
16 power at your house, but not mine. People are
17 complaining that every time people try to
18 develop natural gas or oil in this state saying,
19 we need to use renewable resources. This is a
20 renewable resource. The water is going to come
21 almost every year. A couple years we might have
22 a drought, but in general the water is going to
23 be there and it's going to provide power.

24 It's going to provide one more of
25 a myriad of reasons that my children when they

1 graduate high school and college may be able to
2 stay here economically. I don't want them to
3 have to head to the Lower 48. In the Lower 48
4 and throughout the world there are hydroelectric
5 dams that have been producing for nearly 100,
6 sometimes more than 100 years. Yeah, they've
7 replaced the turbines a few times as the
8 mechanics get old and made them more efficient,
9 but the projects are still going.

10 It's a great way to provide
11 energy. A previous speaker complained that
12 putting this dam up would centralize power and
13 if we had an earthquake or other disaster, he
14 hinted at, we would all be in trouble. A meteor
15 could hit and we could all be dead tomorrow
16 anyway. Centralization isn't the problem. If
17 we get this project going, then we'll have funds
18 available to do the other things that that
19 gentleman wanted, like study wave energy, wind
20 energy and find other ways to get more power
21 into the system.

22 We don't need to be stopping
23 projects; we need to be finding more projects
24 and getting things going. If this gets going,
25 then we can look at the next project and the

1 next project. I don't want everything
2 centralized. I would like as broad-based energy
3 as possible without hurting the economy or
4 without hurting the environment. There's going
5 to be some parts of the environment that are
6 damaged no matter what we do. If we do nothing,
7 parts of the environment get damaged every day.
8 If we do this dam, there might be parts that are
9 damaged, but damage is relative. What's damage
10 to one is growth for another. Things die so
11 that other things are born.

12 Change isn't bad. Building this
13 dam is not bad. Yeah, I admit there's risks,
14 but I think they're far outweighed by the
15 potential upside. Stable energy costs make it
16 incredibly easier to attract business here,
17 incredibly easier to provide reasons for my
18 children and my future grandchildren to stay
19 here in Alaska.

20 People complain that we don't do
21 enough to get renewable energy. People complain
22 that we burn hydrocarbons, yet they're the same
23 people that say, don't build the dam. You can't
24 have it both ways. Build the dam. Reduce our
25 dependence on natural gas, but don't take

1 natural gas away. Have all the options
2 available so that we can grow our economy, grow
3 our civilization and keep our children close to
4 us.

5 In short, I see no economic
6 benefit to not building the dam. I see no
7 environmental benefit to not building the dam.
8 Use the studies that were done, build on them
9 using the five-year process that FERC has and
10 let's going on this. If somebody can show me in
11 a year or two disastrous effects if we do build
12 the dam, then maybe I'll change my mind. But
13 right now move the process forward and if you
14 find additional information, I would be more
15 than happy to look at it.

16 Thank you.

17 LARS GLEITSMANN: My name is Lars
18 Gleitsmann and I'm here as a concerned private
19 citizen. I'm also here to represent my family,
20 my wife and my daughter, and maybe also to
21 represent those of a grass roots organization
22 that elected me as their government affairs
23 volunteer.

24 My concern is that the dam could
25 not be built again. Here in Alaska 82 percent

1 of our villages are not connected to the
2 national road system. The transportation costs
3 of the essential services of those people out
4 there that are living in those 82 percent of our
5 villages are getting higher every day. The EPA
6 is trying to outlaw the aircraft, if you will,
7 because it has a little bit of lead, 2 parts per
8 million, the aircraft fuel that 95 percent of
9 the airplanes serving those villages need.
10 Those people in the villages will be forced by
11 cost of living to come to Anchorage and
12 Fairbanks. Those people will be forced to come
13 to the railbelt. The economy and the things
14 that are going on will force more people to live
15 on the railbelt.

16 So there is no question that the
17 railbelt's electric needs will be rising. That
18 we are using natural gas to create electricity
19 is an atrocity. The efficiency of electric
20 generation with natural gas is so incredibly low
21 I see it as a real disaster to do that. We will
22 run out of the available natural gas much
23 earlier than we should be because natural gas
24 should be used exclusively to heat houses where
25 it's extremely efficient.

1 If I look at other countries, as
2 in projects, hydropower done right -- I believe,
3 America and Alaska has the ability to do it
4 right -- has improved fisheries. If you study,
5 for example, the Bradley Lake hydropower
6 project, it looks like it has actually improved
7 fisheries there. It has improved the life of
8 animals and the abundance of animals there.

9 Personally, I see it in a way
10 that part of the population that is an outspoken
11 minority basically wants to turn Alaska into a
12 national park. By the way, Alaska has 1.52
13 square kilometers of landscape but we have only
14 8,000 kilometers of roads. We basically don't
15 have roads to measure. There's basically those
16 out there that want to turn Alaska into a big
17 national park and lock us up on the road system
18 and throw away the keys. If we run out of
19 natural gas, basically that would be
20 accomplished. If we run out of natural gas
21 because we've wasted it all creating
22 electricity, then nothing is left some day for
23 heating houses and then the sheer cost of
24 existence in Alaska with heating houses and
25 electricity and all those utilities will go

1 through the roof.

2 There are those that say, oh, if
3 the natural gas that is available here is not
4 available anymore, then we just import it as
5 LNG, as liquified natural gas. The cost of LNG
6 in the Pacific is outrageous. The idea that we
7 could import natural gas to keep running here,
8 it's ridiculous.

9 The Susitna project in its
10 proposed location is as ideal as it can possibly
11 be. It's so high up in the mountains. It's
12 above rapids that basically keep the salmon out
13 of there. I believe that with all the millions
14 of dollars that have to be spent and that will
15 be spent that it will be totally environmentally
16 safe.

17 My personal background is a
18 scientific background as well as a piloting
19 background. Flying all over the world and
20 flying in Alaska since 16 years, I know that
21 area in great detail. It's right above
22 Talkeetna. If you take a Bell 206 helicopter
23 and you try to fly to the dam site, you will run
24 out of fuel on the way back to Talkeetna. It is
25 that far away. People are almost behaving like

1 the dam will be in their backyard and they will
2 be threatened by it and I don't think that
3 there's any reality. It's a big country out
4 there.

5 As a scientist, I have
6 specialized on arctic and subarctic environment
7 and earth science. I've worked for a technology
8 company here in town that works on many
9 projects, and I think this project is what
10 Alaska desperately needs before it's too late
11 because it will take time to build it. The
12 current administration is openly against -- in
13 Washington, D.C. the current administration is
14 openly against hydropower development. What
15 else do we do in Alaska?

16 Some people have proposed even
17 sun energy. I mean, in Alaska we have a long
18 winter. We have lots of snow. In the summer,
19 in August, we have things like 44 days of
20 continuous rain. I don't think that Alaska is
21 in any way feasible to have any viable sun
22 energy alternative energy systems. If you look
23 at wind energy, wind turbines don't work very
24 well if they're all iced up from rhye icing.
25 The days out of the year that rhye ice is

1 killing off any wind turbine energy development
2 is significant.

3 So I hope this dam gets built.

4 DAVID TURNER: Thank you.

5 HARVEY AMBROSE: Good evening.

6 My name is Harvey Ambrose, and I'm the director
7 of power supply for Homer Electric Association.
8 Homer Electric supports responsible development
9 of hydroelectric resources. Hydropower has
10 proven to be a clean, reliable and
11 cost-effective source of electrical energy.

12 Homer Electric believes that
13 Southcentral Alaska is too dependent upon
14 natural gas as a source of heat and electricity,
15 especially given the current decline in
16 production of this region's gas fields.
17 Pursuant to its confidence in the value of
18 hydropower, Homer Electric has invested
19 considerable effort and expense in the pursuit
20 of a FERC license to constrict its own
21 small-scale hydroelectric generating plant.

22 Large-scale hydroelectric
23 projects like the proposed Watana project have
24 the potential to greatly reduce our reliance on
25 natural gas and thereby to help ensure reliable

1 electric power for persons living along the
2 Alaska railbelt.

3 Thank you for the opportunity to
4 comment.

5 DAVID TURNER: Thank you.
6 Anybody else?

7 FRANK MIELKE: Good evening. My
8 name is Frank Mielke. I'm a lifelong Alaskan.
9 I'm submitting these comments on my own behalf
10 as an individual citizen. I've been involved in
11 energy issues since about 1973 and have followed
12 the Susitna project from its -- about as long as
13 I can remember there's been a project proposed
14 for the Susitna. I have written comments, but I
15 will just summarize those three main points.

16 One is there is no viable
17 demonstrated alternative to fossil fuels,
18 nonrenewables than Susitna. The Alaska Energy
19 Authority did a very extensive document,
20 involved hundreds of people, many days of input,
21 and certainly took a very good look at all the
22 other renewables other than hydroelectric and
23 the bottom line is they just don't produce
24 enough. They're good as an adjunct, but as far
25 as main power, they just do not have the

1 potential. Point No. 1.

2 Secondly, as far as the process
3 goes, the habitats and environments have been
4 studied for decades. I just think that the
5 process as its laid out, the length that it
6 takes is certainly adequate to fully analyze all
7 of the important issues there.

8 The third thing I'd like to say
9 is all the talk about habitat and environmental
10 degradation. It's striking that when you look
11 at the scoping document, it looks at damage done
12 and all this. I think the better approach is to
13 look at, what opportunities do we have here? I
14 know Alaska rate payers and other groups have
15 looked at it. There's great opportunities for
16 enhancement of fisheries, wildlife habitats and
17 recreation. Now, you can look at it like, oh,
18 this is all bad. But if you take the approach
19 that this could be good, we could have more
20 recreational opportunity. We could have more
21 fish as there is at the Bradley River.

22 According to Fish & Game, there's more fish now
23 than there was before the Bradley Lake hydro
24 project went in because there's less silt and a
25 more even flow.

1 I'm not saying this is how it
2 will have to turn out at Susitna, but the
3 opportunities are there. There are great
4 opportunities of this project for enhancing
5 those things and because of the scope of the
6 site, great financial resources could be brought
7 to those that probably couldn't happen under any
8 other context.

9 I hope that everybody looking at
10 this looks at the opportunities and not like,
11 oh, this is all going to be bad. Yeah, things
12 are going to change, but with that change
13 there's a lot of opportunity. Or we can just be
14 overtaken by the change in the energy market
15 that's taking place. Where natural gas used to
16 be 10 cents a thousand when I was a kid and it
17 was first coming in, now it's \$10 a thousand at
18 the peak rates. So it's gone up 100 times in my
19 own, I like to think, short lifetime.

20 If we had been looking ahead and
21 didn't have that 10 cent gas, we might have
22 already built it. It's almost like the curse of
23 overabundance that a lot of Third World
24 countries get into. In that way, maybe we're a
25 Third World country too.

1 You'll also get my written
2 comments. I think the most important thing I
3 want to say is to look to the opportunities.
4 Don't just look to the negative side. There are
5 great opportunities here. I've spent a lot of
6 time on the Lower Susitna since the early '50s
7 and a lot of time on the very Upper Susitna in
8 more recent years and there are great
9 opportunities there.

10 Thank you for this opportunity to
11 comment.

12 DAVID TURNER: Thank you. Next
13 person?

14 ALEX YOUNG: Hello. My name's
15 Alex Young. I'm from Cantwell, Alaska. Born
16 and raised in Alaska. I'm glad to testify for
17 Susitna hydro. I support that because there's
18 some more hunting. It used to be good hunting
19 on Denali Highway, but there's too many
20 four-wheelers and vehicles for hunting now. We
21 used to walk out there, but it's -- I think it
22 was -- I got commercial power from the intertie
23 in 1984. It was easier -- it's easier than
24 having a generator. That's all.

25 Thank you.

1 DAVID TURNER: Thank you.

2 GREG JOHNSON: My name is Greg
3 Johnson. My family has owned property on the
4 Denali Highway, the Susitna since the 1950s. I
5 just wanted to state that my family supported
6 this project in the '80s. We support it now.
7 My only concern that I see looking through this
8 is the proposed Denali corridor. I would like
9 to see that basically be the last one, and I
10 think the Chulitna corridor would probably be
11 the least impact on the animals and on basically
12 the esthetics of the area.

13 Thank you.

14 DAVID TURNER: Thank you.

15 JOSEPH HENRI: Mr. Moderator,
16 members of FERC, my name is Joseph Henri. I'm
17 an attorney in Alaska for about 50 years. I'm
18 the secretary/treasurer of Alaska Rate Payers,
19 the volunteer not-for-profit group trying to
20 achieve low-cost, reliable power in this part of
21 Alaska.

22 We've struggled, Mr. Moderator,
23 with having to go to FERC for a long time. This
24 wouldn't be very popular I'm sure, but I hope
25 the next time that the government of the United

1 States tries to reorganize itself as it did with
2 Woodrow Wilson and then with Herbert Hoover and
3 then the Congress under Congressman Wayne
4 Aspinall of Colorado tried that in the early
5 '60s -- the next time an effort is made to
6 reorganize the government, streamline it and so
7 forth, I hope that Alaska, an entirely separated
8 place from the rest of the United States -- this
9 is Seward's Day, as somebody mentioned, the day
10 honoring the day that Secretary of State William
11 Henry Seward bought Alaska from Russia in 1867.
12 And we are different and we shouldn't have to
13 put everything before FERC for permission to
14 develop this great place, which is really a
15 subcontinent of North America.

16 And as I say, if we reorganize
17 one more time, I hope we would exempt Alaska
18 from FERC oversight. There's no federal land
19 involved in this project and there's certainly
20 not any interstate commerce. I'd be very happy
21 to see the Alaska Energy Authority have the
22 charge of this new hydroelectric facility.

23 The other -- as I'm fault-finding
24 with the federal government, I'd like to say
25 that I think five years of review by FERC is an

1 exceedingly long time. I think you would have
2 to ask yourself logically whether that's truly
3 needed. The United States was attacked, waged
4 war in World War II in three years and eight
5 months, Africa, Europe, all the Pacific, but we
6 can't authorize a dam in Alaska which has been
7 studied since the 1940s starting with the Bureau
8 of Reclamation for less than five years. It
9 seems rather extreme.

10 And it isn't much in keeping with
11 the need for the United States to do something
12 dynamic with its economy. We're sort of
13 sluggish. We're falling behind. We have great
14 annual deficits and a huge debt and the
15 regulatory inertia is just keeping us from
16 succeeding.

17 The oldest producing generation
18 in Alaska today still on line is the
19 hydroelectric generation at Juneau that my
20 friend Mr. Rich Wilson mentioned earlier, two
21 small projects, the Annex Creek and the Salmon
22 Creek dams. They are about 100 years old and
23 they're producing electricity today for 3 mils a
24 kilowatt hour. That's pretty good testimony for
25 hydroelectric. Even though they're 100 years

1 old, there's no reason to think they won't be
2 around for many, many more decades if not
3 centuries.

4 My friend Carl Portman from the
5 Resource Development Council who has previously
6 testified reminded me and asked me to tell you
7 that it's anticipated now that LNG will have to
8 be imported into Cook Inlet by 2014. We don't
9 have enough gas now to run these turbines. I
10 was the chair of the Municipal Light & Power
11 board for five years and on it for seven. Lee
12 Wareham mentioned Tom Starr, the general manager
13 of Municipal Light & Power. But that's going to
14 be pretty pitiful because of our dilatoriness in
15 not getting Susitna on line at least in the
16 1980s when we had a very good shot at it, but we
17 were too wavering and missed our chance.

18 I think, Mr. Moderator, that
19 hydro is certainly the best generation for
20 reliable, low-cost electricity. I'd like to
21 associate myself with the remarks of Lee
22 Wareham, who was one of the first speakers here,
23 about what Alaska did wrong in not getting
24 Susitna 30 years ago. I say, let's get on with
25 it now.

1 Thank you very much.

2 KATHERINE HUFFMAN: Good evening.

3 My name is Katherine Huffman and this is my
4 husband Tim and my daughter Emma. We just woke
5 up this morning at the property out there
6 that -- where one of the proposed roads is being
7 considered starting at the Chulitna section. My
8 grandpa worked on the railroad starting in 1945
9 and worked at that section for ten years, and
10 then I inherited the five acres he was able to
11 purchase which is now an inholding in the state
12 park on the west side of the track.

13 Then on the east side of the
14 track right at the section are dear friends of
15 ours who live out there year-round. We all
16 consider it really precious, quiet, wonderful
17 land and it's just a nightmare of mine to think
18 that there could possibly be a 40-acre camp at
19 our front door and a road going across our
20 little, you know, hiking trail that goes to the
21 Indian River.

22 We were just talking to our
23 friends last night about this and they live out
24 there, so I just wanted to speak on behalf of
25 them as well. Their livelihood is out there.

1 One person who lives out there is a full-time
2 artist and she's well-published and that's her
3 home. She relies on being out there in the
4 wilderness. This would be a huge shift. It
5 doesn't seem very cost efficient with all the
6 other options. The wind turbines, I would love
7 to see that. I've heard there's much more
8 cost-efficient ways of having hydroelectric
9 power using other sites that are not as remote.

10 When I look at other states, the
11 best practices in energy is about taking down
12 dams now. It just seems really archaic to be in
13 a state where that's our big idea when all the
14 other states are taking them down because of
15 conservation issues.

16 TIM HUFFMAN: My turn, I guess.
17 There's three transportation routes; two of them
18 are terrible. One of them would be -- well, we
19 would lose our property. I'm confident that we
20 would be eminent domained right out of our
21 little parcel there, as would our neighbors.

22 The impact of it -- you're not
23 going to be able to keep people in the winter
24 out of there. There are already enough people
25 that come in off the highway. They find their

1 way in. Depending on the route, they take three
2 to six miles off the highway snow machining
3 around. You're just not going to keep them off.
4 It's already a Tier 1 caribou area. 13E has
5 extra moose restrictions, whether that's a
6 predator pit or whether it's just a lot of
7 hunters and not many moose restriction, you
8 increase access, all you're going to do is
9 increase pressure on those animals.

10 They finally settled on a caribou
11 Tier 1 plan that seems to be working. I imagine
12 you're probably very familiar. It's where if
13 you apply for a Tier 1 caribou, you have to
14 commit to not hunt in any other area of the
15 state, any other gaming of the state. They
16 finally kind of got that one right. That
17 restricted a lot of the additional harvest, but
18 it's still very heavily harvested.

19 So I guess there's a lot of
20 people that live on the rail, a lot of ways to
21 mess it up. It wouldn't mess it up for us; it
22 would just end it. Our property would be gone
23 as would our neighbors'. The Gold Creek route
24 has its own problems and the Denali route has
25 its own problems. I would encourage you --

1 we've gotten a couple of mailers, but I feel
2 like the locals haven't been involved in the
3 process very heavily. Our input hasn't been
4 solicited. I have mixed feelings about the dam.
5 I understand the attraction to achieve power. I
6 also hear that it will silt up in 100 years,
7 which seems like a really short time to me, a
8 really short time to me for the same reasons
9 that my wife talked about.

10 Now you have a dam that's silted
11 up and what are you going to do? Are you going
12 to just trust future technology to resolve that
13 problem? Seems very dicey to me. Anyway, we're
14 out there. We're not hard to find. The MatSu
15 Borough knows who owns property out there. If
16 the plan is to just take our property and
17 proceed, then I can understand why our input
18 would not be considered. Well, I guess I can
19 see why it wouldn't be solicited.

20 If the plan is to try to find the
21 least impact, the one that puts the least
22 additional resources on what's already a
23 strained resource, caribou, moose, then we're
24 not hard to find. I realize that it's a bit of
25 a dilemma. I know there's the State's goal of

1 having 50 percent renewable energy and hydro is
2 an attractive way to get a big chunk of that.
3 But I'm not sure -- if this is long term, I know
4 it ruins -- with at least two of the road plans,
5 it ruins the area with the additional pressure.

6 Thank you.

7 DAVID TURNER: Anybody else?

8 NICHOLAS VAN WYCK: Good evening.

9 My name is Nicholas Van Wyck, and I'm an
10 Alaskan. I'm here representing myself. I'm not
11 paid to be here to lobby on any particular point
12 of view. I'm just here to speak my opinion and
13 to say why I think this is pretty much a
14 no-brainer, good idea to be developing this
15 project.

16 A number of people have said the
17 reasons. Hydro has viability of hundreds of
18 years or more, we've been told. It's cheap.
19 The country now is in a stage of crying out for
20 renewable energy, energy that doesn't emit
21 carbon dioxide. Hydroelectric power does that.
22 It's not tied up with the difficulties of wind
23 power. It's a true, tried, tested method and
24 for those reasons it deserves consideration.

25 I think also you need to consider

1 yourself and the role, the process of how we get
2 these things approved. Here's a project that's
3 been talked about for many, many, many years.
4 You are yet another one of the committees who
5 has to sit there and evaluate it. I noticed
6 recently that you went to a very speedy
7 resolution on a wind power process that CIRI put
8 forward. I would also ask that you consider
9 this equally in a timely manner as well.

10 We're starting to get to a period
11 here where the actual process of how these
12 things get evaluated is really a detriment to
13 how we develop our society today. We spend far
14 too much time talking and talking and talking.
15 I would ask you all at some point in time to
16 start making some decisions and start moving it
17 forward. This is a very, very good case of
18 something that has large demonstrable benefits.

19 You will hear people, in fact,
20 the people just before me, who will come up and
21 put examples about how it impacts this or it's a
22 detriment to that or it's going to ruin my
23 fishing camp or my hunting. We all have to make
24 sacrifices, all of us. Every single one of us
25 have an impact on the environment. The cars we

1 drive, the environment we live in, the houses we
2 have, the clothes we wear; we all make an
3 impact. We have to as a society balance those
4 causes against what's good.

5 We're a society that needs
6 energy. It needs cheap energy for our
7 industries to work, for our houses to be heated,
8 for our new technologies to work. Before you is
9 a project that develops 600 megawatts of power,
10 over half of the power on the railbelt in one
11 fell swoop. This project could be working 100
12 years from now if it's well-maintained. It will
13 put people to work in the state. It will
14 develop resources in the state.

15 Please, let's move on with this
16 thing. Thank you.

17 DAVID TURNER: Is there anybody
18 else who wants to speak and hasn't had the
19 opportunity?

20 SCOTT CROWTHER: Welcome to
21 summertime in Alaska. It started today and I've
22 got my shorts on. I wear my shorts all summer
23 long. I'm Scott Crowther. I was born in the
24 Territory of Alaska and have spent most of my
25 life here. I'm a civil engineer and I've seen a

1 lot of good take place in Alaska. I was born in
2 the Valley where this dam will be constructed.
3 The dam is behind the Matanuska-Susitna Valley.

4 I grew up fishing these
5 tributaries to the Susitna River with my father
6 and my grandfather. We saw the best of it in
7 the 20th century before the pipeline came here.
8 It's a little bit shocking to see what happens
9 when the development happens and comes into
10 place and that things change; however, the fish
11 are still there. We have to share it with
12 everybody now.

13 I support the project because now
14 we're in the 21st century. We need to focus on
15 environmental sustainability. There is an
16 international effort to reduce hydrocarbons in
17 the atmosphere. I believe that's very serious
18 and something that we need to do. This project
19 gives Alaskans an opportunity to participate in
20 that effort to reduce hydrocarbons going into
21 the atmosphere. Susitna is a very good
22 opportunity for that. The geography of the
23 location is very favorable for a hydroelectric
24 project. You won't find a more favorable set of
25 geography anywhere in the world for a

1 hydroelectric project.

2 We have analyzed the economics of
3 the investment. We find that the economics are
4 similar to our Permanent Fund. It's capable of
5 providing at market rates of electricity a
6 return on the investment very similar to what
7 our Alaska Permanent Fund provides. This
8 proposed project is the most economical form of
9 renewable energy that we can pursue.

10 The Susitna River is not the
11 Columbia River. Existing dams in Alaska have
12 not had the legacy impact on the salmon runs
13 that the Columbia River has had. These dams are
14 very well situated. They're above -- mostly
15 above the salmon runs and they do not block the
16 flow. The proposed dam on the Susitna River is
17 mostly above the salmon runs. There may be a
18 fragment of Chinook salmon flowing through it,
19 but it's a fragment of the run.

20 We need to do a meticulous
21 examination of how the change in hydrology will
22 affect the fisheries downriver of it. I believe
23 it's going to be favorable because we are going
24 to be providing more water into the river during
25 the wintertime and fish prefer water.

1 So because of all the things I've
2 described above, I am in favor of the proposed
3 project. Thank you.

4 DAVID TURNER: Thank you.
5 Anybody else that hasn't had an opportunity to
6 speak?

7 JAN KONIGSBERG: Hi. My name is
8 Jan Konigsberg. I live in Anchorage, and I'm
9 representing the Natural Heritage Institute in
10 these remarks.

11 With respect to FERC's decision
12 to grant the licensing, its involvement as the
13 lead agency in the National Environmental Policy
14 Act, I have a few comments that might address
15 the way in which FERC proceeds with licensing
16 this project if it decides to go ahead and
17 license it. I would like to say that FERC's
18 decision to grant a license to construct and
19 operate the proposed Susitna River dam hinges
20 ultimately on its determination that doing so is
21 in the so-called public interest.

22 Part of the problem is the public
23 interest is always an amorphous and porous
24 concept. That's why many statutes, whether
25 they're federal or state statutes that depend on

1 a public-interest determination, fail to provide
2 for a rigorous public-interest calculus. Much
3 of it's left up to agency discretion or
4 administrative discretion in determining the
5 public interest. Therefore, in a lot of
6 public-interest determinations it seems that
7 they're ultimately justified by resorting to
8 that historic Supreme Court dictum, I know it
9 when I see it.

10 At any rate, as required by the
11 Federal Power Act, the Commission, as you
12 undoubtedly know, is to make its licensing
13 decision after giving equal consideration to the
14 multiplicity of other nonpower values provided
15 by this relatively undeveloped and pristine
16 watershed, the Susitna River watershed. So what
17 I'm suggesting is that regardless of the
18 vagueness inherent in the concept of the public
19 interest and it's ultimately the determination
20 of the Commission whether it will license it or
21 not in terms of it's being in the public
22 interest or not in the public interest, it does
23 seem that FERC's determination of public
24 interest is the nation's public interest, not
25 simply that of the state of Alaska or the more

1 circumscribed railbelt energy region to which
2 most of the comments tonight have been directed.

3 There's a larger public interest
4 involved. As a nation, it's the national public
5 interest under which FERC makes its licensing
6 determination. Now, if I'm right and, if so, it
7 follows to me that the Commission should
8 consider, one, whether damming one of the last
9 free-flowing rivers in the nation is in the
10 public interest.

11 And, two, the Commission should
12 consider whether the potential project's effect
13 on salmon abundance and biodiversity is in the
14 nation's public interest. If the Commission is
15 to give equal consideration to the nonpower
16 values of the Susitna River, the fact that it's
17 free flowing, the fact of natural abundance and
18 biodiversity in that drainage, it seems like
19 it's incumbent upon FERC to first determine what
20 value Americans place on the undammed river and
21 that this determination be based upon credible
22 information and analysis, not merely on opinion
23 and speculation.

24 In other words, equal
25 consideration of nonpower values under the

1 Federal Power Act presumably depends upon
2 equally reliable and comprehensive data and
3 analysis as that required to ascertain the
4 watershed's energy supply value. That's a
5 pretty tall order, but I think it's necessary
6 particularly now if there's going to be a
7 credible determination of the nation's interest
8 in this matter. Yes, we're all probably in the
9 room Alaskans, but we're also Americans.

10 With respect to considering the
11 importance of maintaining salmon populations,
12 remember, I'm suggesting that we need to look at
13 what the nation thinks of in terms of what's
14 left of the free-flowing rivers in this country,
15 because we've dammed most of them. Most of the
16 undammed rivers are obviously up here. We need
17 to look at that and we need to look at salmon
18 abundance and biodiversity, almost all of which
19 that's left in the United States resides in
20 Alaska.

21 So if we're going to maintain
22 salmon populations both in abundance and genetic
23 diversity, it's not just numbers that are
24 important. It's a separate, distinct population
25 genetically of salmon given resilience during

1 environmental change. There's a crucial
2 difference in terms of the scale at which FERC
3 needs to approach this problem, at least in my
4 opinion. Nonpower value of salmon needs to be
5 considered. It can be considered in two scales,
6 within Alaska or within the United States. And
7 the national perspective is going to be
8 different than the Alaska perspective.

9 If you simply look from within
10 Alaska, there can be an argument for destroying
11 a few populations of salmon. There obviously is
12 arguments for doing that because we've got a lot
13 of projects on the drawing board that propose to
14 do just that. If you look at the national
15 perspective, then the scale changes, which means
16 that nationally, at least in terms of the United
17 States, we know that one-third of the known
18 historical populations of California and Pacific
19 Northwest salmon have been lost. They're
20 extinct. About one-third of the remaining
21 populations are listed as endangered or
22 threatened.

23 We also know that probably in
24 terms of straight biomass the amount of
25 abundance that's being produced in the Lower 48

1 in salmons may have declined up to 90 percent in
2 the last 100 years. So, again, it's a question
3 of scale in terms of how the Commission is going
4 to make its determination about nonpower values
5 and the consideration it's going to give to
6 those values. It becomes relatively important
7 in the final decision.

8 Again, I think it's important
9 that you at least consider in terms of
10 methodology in preparing the license what sort
11 of scale you'll be using in determining what the
12 value of these resources is that might be
13 affected by the power dam.

14 Now, the other thing I would
15 suggest is since the dam is being licensed
16 pursuant to the integrated licensing process,
17 the purpose of which is to integrate the
18 information that you need for the licensing
19 decision with the National Environmental Policy
20 Act, I think it would be indeed efficient if
21 FERC were to make sure to develop all the
22 information it needs for the licensing decision
23 during -- in its approved study plan. So the
24 sorts of things -- at least on the two factors I
25 suggested, what the nation's public interest is

1 in undammed rivers and the analysis of salmon
2 from a national perspective be part of a study
3 plan. I'm not aware that that's currently be
4 requested.

5 Finally, I would like to take
6 issue with one conclusion in your scoping
7 document that you issued a couple weeks ago. If
8 I'm remember -- I believe that FERC's conclusion
9 and staff's conclusion was that there were no
10 cumulative impacts in the watershed for purposes
11 of NEPA analysis. I think it's true that in its
12 entirety the watershed is relatively pristine
13 and the existing human activities that would
14 lead you to believe there's no cumulative
15 impact, that is, logging, mining, agriculture,
16 human settlement, recreational activities, as a
17 whole do not appear to be affecting baseline
18 conditions in the watershed at this point.

19 Therefore, you draw the
20 conclusion that from a cumulative impact
21 standpoint there aren't any in terms of how the
22 dam is going to operate on top of that. I would
23 suggest there is in fact a major concern of
24 cumulative impact that's been left out, and
25 that's human-induced climate change, global

1 warming. We already know that's affecting the
2 watershed's hydrology. I think that's going to
3 be covered in a separate environmental impact in
4 terms of hydrology and stream flow, river
5 morphology, ice formation, that sort of thing.
6 Part of that will be covered, but in terms of
7 the assertion that we have no cumulative
8 impacts, I think climate change has to be
9 considered as an ongoing impact in the watershed
10 independent of the dam project or any other
11 human activities.

12 On a large scale that means that
13 apart from looking at hydrology, we're also
14 looking at changes in vegetation throughout the
15 watershed potentially. I don't know that, but
16 I'm suggesting that you need to analyze it.
17 You're also looking at -- actually I think the
18 more fundamental -- although it's not readily
19 apparent and I may be wrong about this, but I
20 would like to throw it out for your
21 consideration.

22 Perhaps the biggest effect of
23 climate change in an ongoing sense has been the
24 return -- the decline in salmon returns to the
25 watershed. Salmon are an integral part of the

1 watershed that provide nutrients to all reaches
2 in the tributaries, marine nitrogen, et cetera.
3 The carcasses are there for basic productivity
4 as well as food for larger mammals, birds, et
5 cetera. What I'm suggesting is that they're
6 part of this climate change dynamic because
7 theory would have it that the marine conditions
8 now are affecting salmon abundance. So the fish
9 that are leaving the watershed and going out to
10 the ocean are not surviving and growing as big
11 due to unfavorable marine conditions some of
12 which can be attributed to climate change.

13 When those fish are coming back,
14 they're coming back as smaller size fish
15 generally throughout the North Pacific and
16 they're coming back in reduced numbers. That
17 means that the nutrients they're bringing back
18 into the watershed is affecting the baseline
19 conditions of the watershed in terms of
20 human-induced climate change. It's going on in
21 the North Pacific.

22 So from that perspective, not to
23 be too speculative, but I would really caution
24 against saying there's no cumulative effects and
25 suggest that it be studied for NEPA purposes.

1 That's the extent of my comments.

2 DAVID TURNER: Thank you.

3 Anybody else that hasn't had a chance to say
4 anything?

5 MARILYN LELAND: Thank you. My
6 name is Marilyn Leland. I'm the executive
7 director of the Alaska Power Association, which
8 is the statewide trade association for the
9 electric utilities. Our members -- the railbelt
10 utilities are all members, but in addition to
11 them we've got the rural utilities from up in
12 Barrow down through Western Alaska to the
13 Aleutian Chain through Southcentral Alaska down
14 into Southeast. So it's a very diverse group of
15 membership. Even though many of our members --
16 the rural members would not see a direct benefit
17 from this dam, I think they all still are very
18 supportive of it. They see it as one piece of a
19 very large puzzle of addressing the energy
20 problems in Alaska.

21 About three years ago our
22 governor issued a goal to have 50 percent
23 renewable by 2025. Then following that there
24 was a legislative committee that created a think
25 tank. I was part of that group. We ratified

1 that goal, and ultimately the legislature passed
2 it in a resolution. Without large hydro, we're
3 really not going to reach that goal. I think
4 that's the only possible way of reaching that
5 get goal. As I said, it is one piece of a large
6 puzzle. I don't think it's the only piece, but
7 I think that you need to take a look at that and
8 very strongly consider it.

9 Thank you, and thank you for
10 coming to Alaska this time of year.

11 DAVID TURNER: Thank you. Anyone
12 else?

13 CORRINE SMITH: Hi. I'm Corrine
14 Smith. I'm with the Nature Conservancy. I
15 wanted to be clear that the conservancy has not
16 taken a position on the project, but we do have
17 some concerns about the dam and its potential
18 impact on five species of wild Pacific
19 anadromous salmon that spawn, migrate over
20 winter in the Susitna River not only in the main
21 stem, but in the sloughs and the side channels.

22 Salmon are important to the
23 ecology of the river and they're also very
24 important to the economy of this region through
25 sport fishing, commercial fishing and

1 subsistence use of the resource. As has been
2 mentioned, salmon are already experiencing
3 decreases in numbers and that makes them more
4 vulnerable to other changes in this habitat. As
5 has also been mentioned, there are no other
6 visible changes to the habitat at this time in
7 the river.

8 The scoping document and the
9 proposed studies that AEA has so far listed
10 appear to be very complete. I just wanted to
11 highlight two aspects that I think are
12 especially critical, especially given the intent
13 to operate this dam in a load-following manner.

14 The first, as was recently
15 mentioned, is climate change. We need to
16 understand how the flows from the glaciers are
17 going to change, how precipitation will change
18 in the next 50 to 100 years, and what will be
19 the changes in temperatures in the river and
20 also the change in ice formation due to climate
21 change. Then we also need to understand how ice
22 formation and ice processes will be changed by
23 the dam. Will the load-following affect the
24 formation of ice in the lower and the middle
25 river? Will those changes affect how ice

1 processes that normally would shape and reshape
2 important side channels and slough habitats,
3 will those be changed by ice forming later or by
4 the load-following operation?

5 It's going to be very difficult
6 to answer these questions because these are not
7 things that we can test. They're not things
8 that we can simulate in the river. It's totally
9 going to be by modeling that we're going to have
10 to guess whether or not these changes in ice
11 formation will change how the river operates.
12 If we are proposing to change this river
13 forever, we must take the time to understand how
14 it will change and what we might lose.

15 I hope you'll take requests for
16 time extensions for adequate studies seriously.
17 There's a lot of great science from the '80s,
18 but things have changed since the '80s. Climate
19 change is one. Our salmon populations have
20 decreased and we don't really understand why
21 that's happening already. Also the science is a
22 lot better. We have a lot better methods and
23 modeling techniques to really understand what's
24 happening in the river.

25 Thank you very much for coming to

1 Alaska, for visiting so many communities about
2 this issue and about this project. Thank you
3 very much for taking my comments this evening.

4 DAVID TURNER: Thank you.
5 Anybody else?

6 LOUISA YANES: Thanks so much for
7 being up here. My name is Louisa Yanes, and I'm
8 speaking on behalf of myself this evening. I
9 just have a couple quick comments.

10 Dams have been shown to have
11 extremely negative impacts on rivers and on the
12 watersheds and I'm afraid that Susitna dam is
13 going to be no different. This will change the
14 hydrology of the Susitna River, the temperature,
15 the contours of the river. This is all going to
16 have negative impacts on the five species of
17 salmon, the grayling and the trout that the
18 Susitna River and its tributaries support.

19 Downstream impacts from dams
20 include warming of the waters and changing the
21 habitats that spawning salmon need to survive.
22 Some of these populations in the Susitna River
23 have already been listed as critical. In
24 addition to the impacts on the salmon, I have
25 doubts that this project is really the answer to

1 the railbelt's energy needs. Most of us don't
2 heat our homes with electricity. We use natural
3 gas. For me, I know that that's where most of
4 my money goes in the winter. This dam isn't
5 going to have any effect on my wintertime
6 heating bills. So I'm afraid that we're going
7 to be spending many billions of dollars on a
8 project that's going to provide about 25 percent
9 of our total need.

10 So, in sum, I'm concerned about
11 the impacts on the river and on the fish and
12 that these billions of dollars spent isn't going
13 to provide the buffer to the rate payers against
14 rising and volatile gas prices. I'm really
15 hoping that everybody that is involved in this
16 project will take the time to look at these
17 impacts and look at what alternatives we have.

18 Thank you very much and enjoy the
19 rest of your time up here.

20 DAVID TURNER: Okay. Is there
21 anybody else that would like to have an
22 opportunity that hasn't had one?

23 NANCY BAILS: Good evening. I
24 got here rather late, so I didn't hear whether
25 you had made a statement predicting the length

1 of viability for Susitna-Watana. Is that known
2 at this time?

3 DAVID TURNER: Lifetime
4 viability? No, we have not made a --

5 NANCY BAILS: Is there a range of
6 years that has been considered?

7 DAVID TURNER: No. We would be
8 looking at a license period that would go up to
9 50 years and then we'd do something thereafter,
10 but most projects do have a lifetime longer than
11 most license periods.

12 NANCY BAILS: My name is Nancy
13 Bails and I live in Anchorage. Although I'm on
14 the board of directors of the Denali Citizens
15 Group, a small group up at the entrance to
16 Denali, I'm speaking for myself tonight.

17 One of the first things that I
18 wanted to tell you is to thank you for agreeing
19 to do a scoping meeting in Cantwell. I hope
20 that when you are in Cantwell that you will be
21 prepared to help the people in Cantwell
22 understand the implications of the Denali
23 corridor for their community. It will be a
24 fairly big and life-changing event for Cantwell
25 if the Denali corridor is selected. So rather

1 than just a generic presentation in Cantwell, I
2 think a lot of people up there may not know very
3 much at all about the scope of the project,
4 haven't checked your Susitna-Watana dot org web
5 site, looked at the maps and so forth. So they
6 may need a little help in understanding the
7 impacts of the Denali corridor on their
8 community. It would be very helpful if you were
9 to help them do that.

10 In listening to the other two
11 groups talking about the Chulitna and the Gold
12 Creek corridors and what impact it would have on
13 their land holdings along the railroad made me
14 realize -- I was ready to recommend that you use
15 one of those to keep the impacts off the Denali
16 Highway. But now I don't know if I'm ready to
17 make any recommendations about corridors other
18 than that the people that live there be
19 adequately informed by you of the socioeconomic
20 impacts.

21 I don't know whether you're
22 planning on closing the road when it gets close
23 to the dam for security reasons, if that has
24 been a thought, or if it's part of the
25 alternatives, but it might be something to

1 consider.

2 There was just one other question
3 that I had, and that was the whole concept of
4 wintertime operation of a dam where in fact most
5 of the contributing tributaries for a dam as
6 high latitude as Susitna-Watana would virtually
7 shut down in the winter. So the net recharging
8 of the dam resource might not be equivalent to
9 the total demand over the course of a long
10 winter. As long as you're doing studies to look
11 at that and make sure that you can model, that
12 you can do load following with a dam like that
13 with cold-weather operation, then that's fine,
14 but you do need to look at that.

15 There's not a whole lot of dams
16 at this north of latitude. I think most of them
17 are probably in Russia and Europe. So this is
18 certainly a new project for North America. It
19 really isn't comparable to any other dam that's
20 been built in this country yet because of those
21 recharge issues, the fact that the glaciers are
22 receding in the Alaska Range and have been quite
23 dramatically receding over the past three or
24 four decades. So your supply of water from the
25 glacially-fed waters of the Susitna may be

1 subject to change especially over a 100 to
2 150-year dam horizon.

3 Then the issue of glacial silt
4 where if you get siltation up to a certain
5 point, are you going to be able to take down the
6 dam? Is reclamation of the dam an impact topic
7 that you're considering? If it isn't, it
8 probably should be because there's no reason in
9 having a silted up dam exist anymore, but is
10 there a plan for successful taking down of such
11 a dam? Are you going to have to dredge behind
12 the dam the way they do out here in the inlet to
13 keep an open shipping channel?

14 All these issues are very
15 important in the northern cold-weather operation
16 of a high-latitude dam in glacial waters, and I
17 hope that you will carefully consider all of
18 these. I don't have a position on this dam yet.
19 I am familiar with a lot of the territory in the
20 project area having lived in the Denali area or
21 worked for Denali Citizens Council since the
22 1970s. I do remember the original Susitna
23 project was a lot larger. This is a scaled-down
24 project, which I do appreciate. I think that
25 project was way too huge.

1 So I wish you luck. Have fun in
2 Cantwell. It might be below zero up there, so
3 take your woolies.

4 DAVID TURNER: Thank you.
5 Anybody else have anything they want to add?

6 LARS GLEITSMANN: Lars Gleitsmann
7 once again. I feel compelled to add a some
8 facts because of some of the statements that
9 have been made by the audience. The old studies
10 of the dam point out that there would be, like,
11 less than 5 percent -- I think it was like 3 or
12 4 percent of sedimentation of the volume in 100
13 years. So it is not like some people claim that
14 the dam would be sedimented and the reservoir
15 would be useless after 100 years because of the
16 glacier sediments.

17 There have been made statements
18 that in the United States and in Canada all the
19 dams are being taken down. Isn't it in North
20 America less than 1 percent of all dams have
21 been taken down? Isn't it that there's less
22 than 1 percent of dams that have been removed
23 since they were built in the history of the
24 United States?

25 When people talk about manmade

1 global warming and when people believe that
2 manmade global warming exists, I think that
3 should be an argument for building the dam, not
4 against it. All over Alaska we are burning
5 diesel fuel to create electricity. That diesel
6 fuel is usually flown in with aircraft instead
7 of having small hydro projects. All over Alaska
8 small hydro projects are not happening because
9 of environmental concern and instead diesel fuel
10 is being flown in to generate electricity with
11 diesel generators. So if there's arguments
12 about global warming and manmade global warming,
13 it should be arguments for building a dam, not
14 against it. Yeah, as I said, I'm for the dam.

15 DAVID TURNER: Thank you.

16 LARS GLEITSMANN: Excuse me.

17 Another thing. People say they
18 know the area up there. If I'm circling in the
19 airplane over the dam site, the next cabin, the
20 next manmade location is about half a flight
21 hour away, maybe 50 nautical miles. The next
22 cabin that is in the vicinity of the dam site is
23 a commercial lodge at Stephan Lake. It's an
24 extremely expensive commercial -- large and some
25 small cabins around Stephan Lake that are mostly

1 owned by multi-millionaires. That's like half a
2 flight away. Then on the northern side of the
3 river there's High Lake. There is a grass
4 runway at the lake with, again, expensive
5 seasonal dwellings. Those are the only manmade
6 structures within, I would say -- my memory is
7 not that detailed, not that good, but you can
8 look at some maps yourself -- I would say within
9 a 50 nautical mile radius.

10 Then, people talk about the
11 access through the Denali corridor. If you look
12 at the history of the area, people have accessed
13 that area for mining, exploration and hunting
14 with four-wheelers and snow machines and all
15 kinds of machinery over the decades. There is a
16 maze of trails that leads south from the Denali
17 Highway into that area. The entire northern
18 side of the proposed dam location is full of
19 access trails that are easy, fast trails where
20 you don't need to ford rivers or you don't need
21 to ford swamps that people are using to access
22 that area. So a northern access corridor would
23 basically, in my mind, in my personal opinion as
24 somebody that really knows that area in detail,
25 make no difference whatsoever because the access

1 exists. The access is there. With snow
2 machines, with ATVs, with the existing trails,
3 there's no problem about access if anybody wants
4 to use that area.

5 Since the crash of the F-22 jet
6 fighter there's a bulldozer trail that goes from
7 the Denali Highway almost directly to the dam
8 site. It's a well-established bulldozer trail
9 that was used extensively that was an old mining
10 trail -- or excavation trail rather that was
11 opened up maybe even before the recovery of the
12 wreckage and the contaminants of that jet
13 fighter crash. So the access to the area from
14 the Denali Highway is there.

15 Like, for example, from Gold
16 Creek they would probably never make it through
17 the phase of consideration because of the
18 mountainous nature and because of the costs of
19 the mountainous nature including bridges and
20 whatnot. So many of those arguments I don't
21 really view as facts. Like people say there
22 will be a 400-people camp right in front of my
23 doorstep, but I would say their doorstep is at
24 least a flight hour away from the actual
25 location. I just feel like I have to point out

1 some things.

2 DAVID TURNER: Thank you.

3 Anybody else have a statement they want to make?

4 Okay.

5 Just to sort of wrap up, I want
6 to again talk about a few dates. Study requests
7 and comments are due by April 27th unless we
8 grant the extension of time, which we likely
9 will and then it will be May 31st. AEA will be
10 looking at those information and study requests
11 and file a proposed study plan in June. Right
12 now it says June; it will probably move back to
13 July.

14 We'll be holding a number of
15 study plan meetings with the stakeholders to try
16 to resolve some of the information needs that we
17 need to address your issues and concerns. Those
18 dates will be -- if we grant the extension time,
19 these dates will be updated and a new Scoping
20 Document will be issued with new dates in it,
21 but each of these dates will be moved back about
22 a month. Ultimately a study plan determination
23 will determine what studies we'll need to
24 complete our EIS considering the information
25 provided tonight as well as what we've heard on

1 the record so far.

2 I want to thank you all for
3 coming tonight and sharing your concerns and
4 your passions for and against the project. At
5 the beginning of this we need to figure out what
6 we need to look at to make an informed decision
7 and we will be doing that. We should be issuing
8 a Scoping Document -- a Revised Scoping Document
9 based on these comments probably in July. So
10 look forward to that.

11 If there's no other questions,
12 we'll adjourn the meeting. Thanks again for
13 coming.

14 (Meeting adjourned at 8:13 p.m.)

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