

1 FEDERAL ENERGY REGULATOR COMMISSION
2 PUBLIC SCOPING MEETING FOR
3 SUSITNA-WATANA HYDROELECTRIC PROJECT
4

5 Held at:

6 Menard Memorial Sports Center

7 1001 S. Mack Drive

8 Wasilla, AK
9

10 March 27, 2012

11 6:05 p.m.
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1 MR. TURNER: My name's David Turner. I'm with
2 the Federal Energy Regulatory Commission, I'm a wildlife
3 biologist and team lead for this project, for Susitna for
4 the Commission. I'll let my colleagues here introduce
5 themselves.

6 MS. HILL: Jennifer Hill, chief of the northwest
7 branch for hydropower licensing.

8 MR. CUTLIP: I'm Matt Cutlip. I'm a fisheries
9 biologist, Portland, Oregon. And I'm also in the
10 northwest branch.

11 MR. WINCHELL: Frank Winchell. I'm an
12 archeologist with FERC. I work on pretty much most of the
13 hydroelectric projects in the west.

14 MS. CLARKSON: My name is Katie Clarkson. And
15 I'm a civil engineer with the Division of Dam Safety and
16 Inspections out of the Portland Regional Office.

17 MS. NGUYEN: I'm Kim Nguyen. I'm also a civil
18 engineer, but I'm in Jennifer's branch, northwest branch
19 for licensing.

20 MS. FERNANDES: My name is Jesse Fernandes. And
21 I'm an outdoor recreation planner for the northwest
22 branch.

23 MS. MCDONALD: And I'm Lisa McDonald. I'm with
24 the Louis-Berger Group, and we'll be supporting the
25 project on socioeconomics and subsistence issues.

1 MR. TURNER: Well, again, welcome. A little bit
2 about what we're going to go through tonight, and over the
3 next couple years. We have a very brief presentation,
4 we're not going to take a whole lot of your time. But we
5 do want to make sure you have a good idea about what's
6 happening over the next several years, and didn't --
7 decision-making process. And a good understanding of the
8 projects.

9 So I've got a brief presentation; I'll talk about
10 the process, the licensing process. And we'll talk about
11 the reasons for the -- tonight's scoping for -- for our
12 compliance with the National Environmental Policy Act.
13 And then I'll turn the floor over to Wayne Dyok to give a
14 brief presentation and overview of the project. And then
15 we'll get into a discussion of the issues. And really
16 what that is, is your opportunity to tell us what your
17 concerns are about the project; whether you're for it or
18 against; but also more importantly, about what the -- your
19 interests are in association with this project; why are
20 you for it or why are you against it; or what -- what is
21 that -- about this project and those effects have you
22 concerned the most.

23 Then we'll wrap up with a few important dates
24 and finally conclude the meeting. This is being recorded
25 for -- by a stenographer over here. So we're going to ask

1 you to give your name and affiliation before you speak,
2 and will ask you to come up to the podium to make sure
3 that she can hear you appropriately and attribute your
4 comments. And this been will be on the Commission's
5 record, which will support our decision-making process.

6 We asked you to sign in in the back when you came
7 in, and looks like we've got plenty of time tonight to
8 cover your concerns. So feel free to keep going as long
9 as you feel necessary. And as we get closer to the
10 evening, maybe we'll have to shorten some of it; but we
11 have plenty of time it looks like. If you don't want to
12 make an oral statement tonight for the record, you're
13 welcome to file written comments, or even if you do want
14 make a statement and you think of something later or have
15 additional comments you want to file, you can do so in
16 writing by April 27th.

17 We've got an extension of time request by several
18 agencies with the support of AEA for extending that
19 comment deadline to May 31st. It is likely we will be
20 granting that, so all the dates that we'll be talking
21 about later in this process will probably be moved back
22 about one month; so just keep that in mind. In the back
23 of the scoping document you'll see a mailing list. This
24 went out to everybody on the Commission's official mailing
25 list for the project. If your name is not there and you

1 want to be on the Commission's mailing list, follow the
2 instructions in the -- in the scoping document on how to
3 get your name on the mailing list.

4 Now, another point of -- of real value here is
5 the Commission's eLibrary system. It's our way of
6 electronically tracking documents and provides an
7 opportunity for you to register your -- to receive e-mail
8 notifications of any filings that the Commission receives,
9 or any issuances that we may provide in relation to this
10 project. And to do so, you just have to go in and
11 register for project number 14241. And there's
12 instructions in the scoping document on where to go on the
13 FERC's Web page to do that.

14 And there's also a handout in the back on how the
15 public might get involved, and then it also has some good
16 information on how you might get engaged in -- stay
17 abreast of what's going on in this project. AEA is going
18 to be using the integrated licensing process to develop
19 their license application. It began with their filing of
20 the notice of intent to develop a license application for
21 the Susitna project, and their filing of a pre-application
22 document or a PAD, that laid the foundation for everything
23 that -- that pulled together all the information that we
24 know about on this project and the effects on the
25 resources and it -- it's the foundation on which we will

1 build.

2 We're at the scoping phase right now, which is
3 the period which we're trying to get, again, your input
4 on, your concerns. We're going to take those -- those
5 issues that you identify and try to define studies that
6 will help us gather the information necessary to address
7 those concerns. And that's the study development phase.
8 At the end of that phase, there'll be a
9 Commission-approved study plan that AEA will have to
10 implement to gather the data that we're looking for that
11 we believe we need to do -- process this application. And
12 that's the study -- the development phase and the
13 application phase of the last box there.

14 And if all goes well, that's going to be
15 occurring through 2012 and 2015. And ultimately they'll
16 file a license application. That bottom box is basically
17 the post-filing process. Once we review the application
18 and find that it's complete, it meets all the requirements
19 of our regulations and all the -- provides all the
20 necessary information to do our environmental analysis,
21 we'll issue what's called a "ready for environmental
22 analysis notice." And that's another opportunity for you
23 to provide comments on the project and the information
24 that's been gathered and recommend how the project should
25 be constructed and operate to address your concerns.

1 There'll also be a notice listing motions to
2 intervene in which you can become a party to this
3 proceeding and ask -- that gives you the right to ask for
4 a rehearings of FERC matters on the Commission's final
5 decision. We'll take that information, once we have it,
6 and then produce a draft and finally environmental impact
7 statement; the draft impact statements will be available
8 for your review and comment as well.

9 And that -- those documents will be the basis for
10 any licensing decision that the Commission may ultimately
11 issue. This is a little bit more detailed flow chart of
12 the steps of the integrated licensing process, some
13 important dates outlined on there. Again, they -- the
14 filing and the notice of intent and the pre-application
15 document was [sic] issued back in the end of December.

16 We issued the scoping document towards the end of
17 February. We've -- we're now in the middle of scoping.
18 This week we had just held meetings up in Anchorage; we're
19 holding them in Glennallen and Cantwell and Sunshine and
20 Fairbanks this week. Comments are due, again, at the --
21 towards the end of April, unless we extend the time frame
22 to May 31st.

23 With that information, AEA will develop a
24 proposed study plans to address the issues that have been
25 identified. And over about a 90-day period, we'll work

1 with all the study folders to resolve any disagreements on
2 the level of effort and studies that need to be addressed
3 there. And ultimately at the end of September, AEA will
4 file a revised study plan -- or I'm sorry, in October.

5 Then the Commission will review that revised
6 study plan and resolve any disagreements and issuance
7 determination on the studies, letting them know what they
8 need to complete in November, or ultimately December with
9 the month extension. Ultimately they will then carry
10 forward and conduct those studies. There'll be
11 opportunities to review and provide input on the scope of
12 the results of those studies; in other words, periodic
13 check-ins to make sure those study plans are being
14 conducted appropriately and the information that we
15 expected to be gathered is being gathered and that there
16 doesn't need to be any tweaks to the -- to the study
17 plans.

18 Then they will take that information and develop
19 a draft and final license application in probably 2015,
20 according to their schedule and if all goes according to
21 that schedule. The reason for tonight's meeting is the
22 Commission issues licenses for hydroelectric -- for
23 nonfederal hydroelectric projects. And part of that, we
24 are obligated under the National Environmental Policy Act
25 to disclose the environmental effects of those actions.

1 And this is the scoping progress in which we need
2 -- the first step in that process, in which we need to
3 figure out just what the issues are and to gather that
4 information, and we're soliciting that input from you
5 tonight. The kinds of information that we're looking for
6 is spelled out in the scoping document; but it includes,
7 you know, the geographical and temporal scope of analysis
8 for those issues.

9 Any data about existing environment or the
10 effects or other developmental activities that might --
11 developmental meaning timber sales, mining, whatever else
12 that may be going on in the area that may influence how
13 the project is constructed and operated and it might
14 influence the effects that are -- that the project has on
15 those resources in conjunction with those other actions.

16 We're looking for any information on State and
17 federal and local land management plans or resource plans
18 in that area that may conflict or be consistent with or
19 enhanced by the project. And we're already -- again,
20 looking for your input on the issues of -- that have been
21 identified in the document. And we're not intending to
22 read those to you tonight. But they're spelled out,
23 beginning on page 11 of the scoping document. And if you
24 didn't -- don't have one of those, we have some extra in
25 the back; feel free to take those, as many as you want.

1 Pass them out to your neighbors or whatever.

2 And there's the issues that we've identified.
3 We're also looking for study requests that you believe AEA
4 needs to conduct to address your concerns. And those have
5 to be filed by the 27th as well. When we developed the
6 integrated licensing process with a number of State and
7 federal agencies, nongovernmental organizations, tribes,
8 and others, we came up with a set of study criteria that
9 are help -- that are intended to help you craft those
10 study requests. And you need to -- by following these
11 criteria, they help explain to the Commission and to the
12 applicant, the basis of your concerns; the basis for those
13 study needs; and -- and why you think the -- that you need
14 to conduct these efforts in this particular fashion.

15 So it's important to follow these criteria, and
16 they're also listed in the back of your scoping document.
17 Again, requests for information on your issues and your
18 studies are due by April 27th. All filings must clearly,
19 to make sure that it gets put in the right docket, must --
20 on the cover page of your document, indicate the project
21 name, Susitna-Watana, and the project number, 14241.

22 You can file them, your comments, electronically
23 through the eLibrary system I talked about earlier. Or
24 you can file them in hard copy with the Commission by
25 sending them to the address that's on your screen. All

1 this information is also included in the scoping document.

2 With that I'll turn it over to Wayne for a brief
3 overview of the project.

4 MR. DYOK: Thank you, David; and thank you all
5 for attending tonight, taking time our of your busy
6 schedules to be here. For the record, my name is Wayne
7 Dyok, D-y-o-k. I'm with the Alaska Energy Authority. I
8 am the Susitna-Watana, you know, project manager. I'm
9 going to give a brief overview of the project and how we
10 would anticipate operating it.

11 First of all, the product is 184 miles upstream
12 of the mouth of the Susitna River, upstream of Devil's
13 Canyon. People from Wasilla here probably have a pretty
14 good idea of the location of the project. One of the
15 important points about being upstream of Devil's Canyon is
16 that Devil's Canyon really prevents all but king salmon
17 from, you know, getting upstream. But even those king
18 salmon we're very concerned about, and we're planning to
19 do appropriate studies for them.

20 We're looking at building a project that is
21 around 700 to 800 feet high. In the pre-application
22 document, the information is really for a 700-foot-high
23 dam, but we're also evaluating heights up to about a -- up
24 to approximately 800 feet high. That would back up a
25 reservoir around 39 miles long, two miles wide at its

1 widest point.

2 And if you looked at the 800-foot high dam, it'd
3 be another four miles; so it'd be about 43 mile long, you
4 know, reservoir. The project would have a capacity of
5 around 600, you know, megawatts. We're looking at three,
6 200-megawatt units, or possibly four, 150-megawatt units.
7 But that also is potentially subject to change. The
8 project would provide about 2-and-a-half million megawatt
9 hours of energy annually.

10 And I know that means nothing to most of us, but
11 maybe in the context of -- of our annual consumption in
12 the Railbelt -- we use about 5.4 million megawatt hours
13 annually. So it's almost half of the amount of energy,
14 electrical energy needs that we have here within the
15 Railbelt. One of the real important things for the
16 project is to be able to provide energy in the wintertime
17 when we need it most. And we want a high amount of
18 reliability for that.

19 So we're looking at a project that would provide
20 reliability for 49 out of 50 years. And that minimum
21 amount of energy is 250 megawatts of continuous energy.
22 And I'll talk a little bit about how we might distribute
23 that energy in a further slide. If we can go to the next
24 slide. Okay.

25 This is the reservoir, and this is about the

1 upstream elevation of the reservoir with a 700-foot high
2 dam. If we go up to 800 feet high, it'd be around here
3 just downstream of the confluence with the Oshetna River.
4 We're looking at three access corridors right now. The
5 first one is an access corridor that would come from
6 Cantwell along the Denali Highway, and then it would cut
7 south to the project site here.

8 This piece here would be around 43 -- 43 miles,
9 you know, long. And you see two routes here; this route
10 would be -- if we -- if we use the road, this is a road
11 corridor, the road would go here and the transmission line
12 would go -- would go along the route. Another corridor
13 that we're looking at comes from the railroad and proceeds
14 east, and we're calling this the Chulitna Corridor.

15 That corridor is, you know, 45 miles long; and
16 then the Gold Creek Corridor, which also connects with the
17 railroad and goes along this route here, and that's a
18 50-mile long corridor. Again, it's the same sort of
19 thing. This would be the road that would come this way,
20 and there's a number of gullies here that we can cross
21 relatively easily with the transmission line. But they're
22 pretty major bridges, so we're taking a slightly
23 different, the more -- securest path to go there, if we
24 ended up selecting that particular corridor.

25 So we would have one road access, and then along

1 that road access that's pegged, we would have a
2 transmission line as well. And we probably will need for
3 reliability reasons, another transmission line, either
4 along this corridor or this corridor. Okay.

5 So we're just kind of going from the 40,000-foot
6 view down closer to the dam. This shows the reservoir
7 here. This would be the dam. And this is the 2,200-foot
8 contour line. And that -- that we're studying everything
9 within that zone. And then areas where we would have
10 potentially construction or operation effects. So we
11 would need to build a -- a temporary camp, and that camp
12 would house an average of 800 people, with the peak work
13 force of a thousand people over the seven-year
14 construction period.

15 Once that construction is done, this camp would
16 be dismantled, and we would have a permanent camp built
17 over here; and that might house somewhere between 20 and
18 30 people overall. We would need an airstrip, so we'd
19 build that here. And then you see some other areas,
20 quarry areas and bouy areas. And that's, you know, to
21 allow us to build a dam as cost effectively as possible.
22 And you can see the corridors coming in here.

23 Okay. To build the dam you have to follow a
24 construction sequence. So the first thing you have to do
25 is get your road system, you know, in place. So you can

1 see that there's a road, you know, coming in here. So you
2 get that in here, and probably one of the most important
3 things is to get a road here and here; because the next
4 thing that you have to do, is you have to build a
5 diversion tunnel. And that's this piece right now. And
6 you're looking from the air coming down here.

7 So we need to build a diversion tunnel here,
8 because we can't afford to shut the water off in the
9 river. Once you build that, then you can put your
10 upstream diversion dam in, your downstream diversion dam.
11 And then once you've got that -- you know, once you've got
12 these done, then you start putting water around here
13 through this diversion tunnel.

14 Once you have the diversion structures done, you
15 can start building the dam, which is this piece here.
16 What you see here is a -- a design for what's called "the
17 roller-compacted concrete dam." Back in the 1980s when
18 the Alaska Energy -- or the Alaska Power Authority, I
19 should say -- was looking at this, they had a rock-filled
20 dam with earth core. It requires a tremendous volume of
21 material. In the last 25 to 30 years, there's been a lot
22 of research and a lot of projects constructed with
23 roller-compacted concrete.

24 It allows you to build the projects quicker; it's
25 easier to place this material; it holds up just as well.

1 There's some built in -- in northern climates. And, you
2 know, most importantly, to keep the costs down. And so
3 what you see here is an RCC type -- type of dam. Another
4 dam that was used on the Bradley Lake, you know, project,
5 is a concrete-faced-rock-filled dam. And we haven't made
6 a final selection. But it's probably going to be between
7 the concrete faced or the RCC.

8 In addition to looking at the elevation of the
9 dam -- what's the optimal elevation for us -- we're
10 looking at the optimal design of the dam itself. What you
11 see here is a straight dam. We're looking at put a little
12 arch, it'd be kind of something like this; I'm
13 exaggerating it a little bit. But it would come out a
14 little bit like this. And then with that arch, we can
15 save about a million cubic yards of material; because
16 you're taking the load on the embankments, and that
17 reduces the amount of gravity material that you need in a
18 dam.

19 We are putting the powerhouse down here. It's a
20 little bit downstream; so that if in the future we want to
21 raise the height of the dam, we can do that without
22 affecting the operation of the project. So this project
23 will be designed so that in the -- in the future if -- if
24 the State elects to move forward with a larger project, we
25 can do so.

1 Okay. How is this project going to operate? So
2 let me tell you, like the first big-picture perspective.
3 So what we -- as I said earlier, what we want to try and
4 do is push as much energy as we can into the wintertime
5 when we need it most. So in the springtime when we have
6 the snow melt, we would have the reservoir at its lowest
7 level; and then we would try to fill it with the excess
8 water during the course of the spring, you know, snow
9 melt, during the glacier melt, a little bit later in the
10 summer, and during rainfall, you know, runoff events.

11 So that by the time we get into the fall, we want
12 to have the reservoir, you know, full for wintertime
13 operation. And then during the wintertime, we would
14 slowly, you know, decrease the elevation in the reservoir
15 to pull the energy out when we needed it, okay. And then
16 by the springtime, you're down at the low pool again. And
17 we're looking at a water level change in that reservoir
18 that might be -- we're studying it, somewhere between 150
19 to 200 feet of elevation change in the water over the
20 course of the wintertime, and then of course you would
21 fill that up in the -- in the summer.

22 So that's the annual operation. Then we have the
23 daily operation. How would we operate this project on a
24 daily operation? The first thing I want to say is, you
25 need to have environmental flow. So it's very important.

1 So we need to look at the aquatic resources, what flows do
2 they need; what flows do we need for recreation purposes.
3 And there were a tremendous amount of studies done in the
4 1980s, and we're using that as a start point for our
5 energy calculations.

6 So we're saying that we need a minimum flow in
7 the months of June, July, and August of 9,000 cubic feet
8 per second in the river at Gold Creek, okay. And Gold
9 Creek is halfway -- it's closer than half -- it's more
10 than halfway, but it's between Talkeetna and Devil's
11 Canyon, closer to Devil's Canyon. It's in a constricted
12 part of the -- of the reach that would be affected most by
13 the -- by the project.

14 So we have that, you know, minimum flow. And in
15 the winter -- and just kind of give you a flavor for how
16 much flow, typically in the summertime in those months,
17 you have around 23,000 cubic feet per second. So we're
18 going to be reducing the -- you know, the flow, the
19 average flow, from around 23 to around 9,000. But that
20 minimum still needs to be vetted through, you know,
21 additional studies with -- on the resources.

22 So in addition to having, you know, minimum flows
23 during the course of the year -- and that will change over
24 the course of the year -- we want to be able to operate
25 this project so it's the most value to the Railbelt

1 utilities. We've had a number of meetings with Railbelt
2 utility managers and their technical staff. And they're
3 asking us to protect the flexibility for operations as
4 much as possible.

5 So we know that there may be some, you know,
6 limitations; because we have to, first and foremost, you
7 know, make sure we don't adversely affect the environment.
8 So what I'm showing here in this particular graphic is a
9 potential operation. We're looking out another 13 years
10 into the future to 2025. And this would be a typical
11 January day in 2025.

12 Here on the bottom here -- so here is the hours
13 of the day, from midnight to midnight the next day. Here
14 is the number of megawatts of demand. This is sort of an
15 instantaneous, you know, demand. And if you take an hour
16 of that demand, that gives you the megawatt hours. So
17 typically we're going to be looking at around, you know,
18 midnight, we have around 600 megawatts. And everybody's
19 going to bed, or most people should be in bed, sleep.

20 So we need some energy, obviously; but, you know,
21 as much as you're going to need when you wake up and start
22 turning appliances on. So you get up in the morning and
23 you have a peak around breakfast time. And then during
24 the day, people head off to work and they work, so we have
25 a fairly significant energy need. And then come home at

1 night, you're going to come home at night and you turn
2 your appliances on, you're going to have another peak.

3 So our system typically has a peak towards the
4 late afternoon or evening hours, and then it falls off as
5 people, you know, get ready for bed. So that would be a
6 typical day. Now, we have a lot of other generation in
7 the -- in the system. So there's a lot of gas-fired, you
8 know, projects here. There's some coal-fired projects,
9 you know, north of here. We're looking at bringing other
10 renewables on.

11 There's a Fire Island wind project that's
12 forecasted; Golden Valley is bringing on the Eva Creek
13 wind project. We've got Bradley Lake, which is 126, you
14 know, megawatts. We've got a couple of other small
15 hydros. And so we've idealized this thing and we're
16 saying, "Okay, we're going to assume for the purposes of
17 our calculations here, that all those add up to
18 approximately this amount of energy, about 400, you know,
19 megawatts here."

20 And so what we're saying is, the Susitna-Watana
21 project would provide the difference between this amount
22 of energy and here. So you can see that at the minimum,
23 you're looking at a little less than 200 megawatts here,
24 so maybe around 175. And at a maximum, you're looking at
25 around, you know, 400 megawatts. But the reality is, you

1 may -- you want to have that flexibility for 600, because
2 what if a unit trips off quickly, we want to be able to
3 operate Susitna-Watana to keep your power on. That's very
4 important to be able to do that. And hydro has a huge
5 advantage over pretty much every other type of generation,
6 and that it's pretty responsive to the -- to the system
7 needs. So that's a real added value.

8 So in this particular case, we're going from a
9 little less than 200 to 400. And just to give you an idea
10 of what that really means in terms of water, with the 600
11 megawatts of energy generation, that takes about 14,500
12 cubic feet of water per second to generate that amount of
13 -- at our project to generate that, the 600 megawatts. So
14 at the -- the largest peak that we would ever have, we
15 we'd have 14,500 CFS, you know, going through the system.

16 And if you look at 400, that's two thirds, so
17 that's maybe 10,000 cubic feet per second. And down here
18 would be, you know, something on the order of 4- to 5,000,
19 you know, cubic feet per second. So we want to be able to
20 look at that. So our studies are going to allow us to
21 understand that, you know, load, you know -- load
22 following. The worst-case, you know, scenario for us and
23 for the utilities, would be if we didn't have that ability
24 to do any load following. And we're gonna look at that as
25 well.

1 Now, I try to think in terms of car fuel. What
2 does that 14,000, you know, CFS mean? Most of you I'm
3 sure, have already been on the Susitna River. So if
4 you're looking at the Gold Creek station, which is the
5 station that we have very good information and very good
6 current information from the U.S. Geological, you know,
7 Services, that change from the 14,500 CFS to say a minimum
8 flow of 3,000, you know, CFS, which would be the lowest
9 that we would have, and this is non-ice conditions for the
10 moment.

11 That would translate to a water level change at
12 Gold Creek of about 2.8 feet. So -- and that's the worst
13 case, because you pick those gauging stations where it's
14 the most sensitive. So upstream or downstream to that,
15 the water level change would be less than, you know, than
16 2.8 -- 8 feet with that maximum change. So our studies
17 need to be able to bracket that.

18 In the summertime, the variation would be less
19 from load following; because you -- like I said earlier,
20 we'd have a 9,000 CFS, you know, minimum flow. So, you
21 know, there we're looking at maybe a two-foot, you know,
22 water level change at the -- at max. But still, you know
23 that's important; that's something that we have to
24 evaluate as we go forward. Those are in non-ice
25 conditions.

1 We also have to look at what the effects of
2 changing the flows during ice conditions are. And we
3 don't have the -- the luxury here of saying, this is what
4 it is in the Susitna River. But there are a lot of other
5 projects that operate in North America and elsewhere in
6 the world where they do have, you know, similar cold, you
7 know, climates; and they operate the projects in a load
8 following mode during ice conditions.

9 And normally what you do there, is you operate at
10 a little bit higher flows to get the ice cover. And a lot
11 of times they just keep it a constant level when you get
12 those first really cold temperatures, so you get a very
13 stabilized cover. And then you operate the project under
14 that. So those are the things that -- some of the things
15 that we're going to be, you know, looking at.

16 So David said -- they're very interested in
17 hearing what you have to say about the resource issues, we
18 too at the Alaska Energy Authority are extremely
19 interested in the issues that are important to you, so
20 that we can do a better job of providing a complete
21 application for the Federal Energy Regulatory Commission
22 that reflects the concerns that you have.

23 Thank you very much for your time this evening.

24 MR. TURNER: Okay. You've gotten a lot to digest
25 real quickly, including both an overview of the licensing

1 process and the operations. We've, as I've said,
2 identified the list of issues that I think we need to look
3 at in detail in the EIS. It's based on the record that
4 we've had before us. And we're looking to you tonight to
5 let us know if we've missed some things, or if there's
6 some things that you don't see to be issues at all.

7 So now is the time that we're looking to you to
8 give us your feedback. And again, when you do so, we'd
9 ask for you to come up here and speak into the mic. So
10 make sure that -- and give us your name and affiliation
11 before so that we can attribute those comments to you. So
12 it's -- somebody would like to go first?

13 MR. SYKES: Thank you. And for the record, my
14 name is Jim Sykes. I live east of Palmer. And I welcome
15 all of you here tonight. I'm really glad that you came to
16 pay us a visit; and I'm really glad that you're here to
17 listen; and I really appreciate that. You're interested
18 in hearing if we're for or against the project. Well,
19 actually, I kind of have mixed feelings about it. Over
20 many years I've dealt with Susitna.

21 I dealt with it the last time the dam project was
22 being proposed. And I've used the river to transport my
23 family and myself from my trailhead about 12 miles north
24 of Talkeetna, into Talkeetna, for most of the past
25 30 years. And I also sat on the public advisory board to

1 the Alaska Energy Authority. About three years ago we did
2 something called "the Railbelt energy grid assessment."
3 And then about two years ago we did the Railbelt
4 integrated resource plan; which was an attempt to look out
5 50 years.

6 And I agreed with everybody else pretty much on
7 the advisory that we should take a two-track process to go
8 ahead and license -- or at least start licensing Susitna;
9 and also to keep an open mind to the other alternatives;
10 because I think there's a very real possibility that
11 before you can build a dam with a combination of energy
12 efficiency, which is already having on its own, and other
13 alternatives that may come up, that stem will not be
14 needed.

15 The first reason I think that's true, is that
16 about a year and a half ago, they came to the advisory
17 group -- DNR came, from natural resources and said, we've
18 done an update on the assessment of Cook Inlet gas, and we
19 believe that there's as much in the untapped secondary and
20 tertiary fields as has come out of there and since the
21 mid-1960s. There's a lot of gas in Cook Inlet.

22 And people in Fairbanks are getting real antsy
23 about getting some cheap energy. Their energy costs are
24 very high there. And so I think that there's going to be
25 a gas pipeline to Fairbanks before you can possibly build

1 a dam. And I don't think -- well, all the gas is gonna be
2 much more expensive than the old gas. It still might be
3 pretty cost-effective, and I think it's gonna kill the dam
4 again, just like it did in 1982.

5 So I'm not sure it's needed. The Energy
6 Authority had some excellent consultants. It was a joy to
7 work with them, Black & Veatch, top engineers, wonderful
8 firm. But we did do some little battles with them over
9 the course of their study, which I'm sure you'll take a
10 look at. I'm troubled by a few things. The hundred-year
11 life of the project is what really makes this
12 cost-effective.

13 The 50-year time horizon -- you know, the energy
14 source is free, you know that, so that's always an
15 advantage; but not so much. It's not going to be as cost
16 effective. I believe there was really a gross
17 underestimate of energy efficiency, which contributes to
18 an overestimate of demand load. And I'll be specific
19 about that. Here, even at MEA, over the past few years
20 the hook-ups have continued at a pretty good clip. But
21 the need of overall power has actually decreased, even
22 though hook-ups have increased.

23 And there's been a very aggressive energy
24 efficiency program by the Alaska Housing Finance
25 Corporation, and people get it. They understand that it

1 works; that less energy leaves more money, creates jobs
2 doing the energy efficiency, and leaves jobs on the other
3 hand. I'm also troubled by the very fast-track rehashing
4 of the early 1980s studies that were done.

5 Again, qualified consultants doing it; we got
6 some presentations when I was on the advisory board; and I
7 also looked in on it on my own a couple of times; and I
8 said, "What about seismic? Good shape. What about fish?
9 Going to be better. What about glacier melt? You know,
10 it's a glacier-fed river. Oh, no problem." And, you
11 know, in a former life I was a salesman, and when I had a
12 client and they asked me questions and if I thought I
13 could handle that, I'd always say, "No problem." No
14 problem.

15 And so I hope that you do some more looking into
16 the -- to all of these things that people think they have
17 in hand; and I'm not sure that they do. To a more
18 personal note, in the summer when I make my trip from my
19 trailhead to Talkeetna, takes about, anywhere from
20 two-and-a-half to four hours, depending on water levels.

21 So if the water level is going to be lower, and
22 we know that for a fact, it doesn't take a lot more -- at
23 the four-hour trips kind of -- already kind of fraught
24 with more obstructions -- there's going to be a lot more
25 obstructions in the river. And that does concern me. And

1 even though it's just a little bump I'm assured now; if a
2 lot of water comes down all of a sudden, and I happen to
3 be on the river in my raft, it's not a motorized vehicle,
4 it's a raft, if I survive the surge of water, and I'm
5 going to be fighting standing waves, along with all these
6 other obstacles -- that are rocks and trees and stuff that
7 crop up in the lower river there.

8 So I'm a little bit concerned about that. And I
9 hadn't really thought about the winter until the weekend
10 before last. I was actually up in my place; we skied down
11 to the railroad, which is at the river there. And there
12 were a lot of moose tracks across the river, from the east
13 side to the west. We were on east side. And, you know,
14 if you miss the train it's another 12 miles; it's kind of
15 a pain.

16 But I sometimes go across the river just to kill
17 time. And I got to thinking about water being poured over
18 the dam during these peak times, what effect that would
19 be. And I really want to understand that, because I don't
20 think I want to be out there on the ice -- and the river
21 doesn't freeze solid like it does on the Nenana River,
22 there's open leads all the way up and down the river. So
23 you can't just lift the ice by having a slightly higher
24 level of water than is normal in the river. Some of the
25 ice is going to lift, and some of it's not.

1 And so I don't know what effect that's going to
2 have, but it does worry me. And as the guy who designed
3 and put the radio station on the -- the community Radio
4 station in 1993, Talkeetna can flood; it's on a
5 floodplain. I put all the electrical circuits 3 feet off
6 the ground in case the grid didn't fail and the cabin
7 didn't float off its foundation, so we'd stay on the air a
8 little longer.

9 And so I think there needs to be a lot more
10 studies on the effects of ice movement, because it -- it
11 seems to me it could move fish eggs; it could scour the
12 banks if you get -- you know, the ice just doesn't lift up
13 gracefully, it piles up and it roars when the jam breaks.
14 And there's, you know, three rivers coming in about
15 Susitna; ice jams are a problem. So -- and the other
16 thing that I know you don't want to discuss, is worst-case
17 scenarios.

18 But one of the last dams was licensed, I think it
19 was in Montana, they did have a dam failure; and so I -- I
20 believe NEPA still requires you do worst-case scenarios.
21 And originally my impression was that this version of the
22 dam, which really moved up and down and river, and up and
23 down in height until they got the cost under 5 billion.
24 We don't really know if we're getting the best project.

25 And so I really want you to study what -- what

1 happens if you do have a dam failure. Because as -- as
2 much as I have trust in the abilities of the engineers and
3 all the professional people that deal with this, if they
4 make a wrong guess, they don't have to live with the
5 consequence of it. And when it came to the assurances of
6 good fish, it was explained to me about the -- more
7 constant water flow, more light, more food, whatever; but
8 if just one of those things isn't right, in all the ifs to
9 get from the improvement in fisheries, it doesn't work.

10 And the -- the in-river fishery in the Talkeetna,
11 Chulitna, Yentna River system is already at the tipping
12 point. So please look at all cumulative impacts: The
13 ice, potential dam failure, and the moose. I didn't
14 really think about the moose, because they're not gonna go
15 across a river that's jumbled in ice as much as they do
16 with the frozen one. So I'm not necessarily against the
17 project, but I think there's a lot more questions out
18 there, and the -- and the one that really sticks in my
19 mind is: Is it going to be needed?

20 Because I don't think that the State, or anybody
21 else, not the utilities certainly, are going to spend
22 \$5 billion to just do peaking power if you don't really
23 have a great deal of demand. And I don't really think
24 it's out there. But I -- I urge you to investigate it
25 further. And thanks a lot. And I hope to have some

1 actual figures to write to you, but I wasn't able to pull
2 them together for tonight. Thank you.

3 MR. TURNER: Thank you for your comments.
4 Someone else?

5 MR. KENNEDY: Thank you. My name's Dan Kennedy.
6 I'm a certified public accountant. And I'll give you my
7 address and my resume when I'm done with my very brief
8 testimony. And I know there's a number of people wanting
9 to speak, so I'm going to keep my comments relatively
10 brief.

11 I've been a certified public accountant in Alaska
12 for over 30 years, 15 years as president of the Chamber of
13 Commerce here locally. And we are just thrilled to have
14 FERC in our community. This is a first for us and please
15 accept our sincere welcome. Thank you for coming and
16 listening to all the residents of the local area.

17 My brief testimony is in two themes. The first
18 theme I want to address is the socioeconomic issues, which
19 I'll refer to as economic stimulus. Hydropower is a
20 proven, generally accepted renewable energy source. And
21 as a CPA over the last couple years, we have just cringed
22 watching this Administration, this Federal Administration,
23 waste millions of dollars on guesses and failures of
24 renewable energy.

25 The dockets are clearly documented with a number

1 of economic failures. So I'm here tonight testifying in
2 support of the tremendous economic opportunities that the
3 Susitna hydro project will bring to our community. My
4 second theme is a very specific case study that I'd like
5 FERC to look at. And it is in 1952 in Hungry Horse,
6 Montana. A very similar project was built. This is a
7 project that I believe is 420 megawatts. However, I think
8 it was just restructured in the generation of it, and
9 maybe somebody from the Portland Office, maybe one of the
10 engineers knows what is being produced at Hungry Horse
11 right now.

12 When that project was built -- or finished in
13 1952, it backs up a reservoir of about 90 miles that is
14 nestled between the Bob Marshall Wilderness Area and now
15 -- which is now the Great Bear Wilderness Area in
16 Northwest Montana. And just over Great Northern Mountain
17 is Glacier National Park. And so this is a real similar,
18 in terms of how the proposed Susitna hydro project will be
19 nestled in between a mountain range in -- in wilderness
20 area.

21 And I kindly ask that you look at some
22 comparisons, as a 60-year-old case study of Hungry Horse
23 now -- in fact, that project was so successful, just two
24 decades later, they built a similar project in Libby,
25 Montana, in which Lake Koocanusa is backed up from Libby

1 Dam all the way up into Alberta and British Columbia in
2 Canada.

3 Those projects are both very successful, and they
4 created a tremendous recreational opportunities as well as
5 socioeconomic issues. And what I'd like to do is also
6 volunteer -- I'll leave all my contact information with
7 FERC, and I will volunteer my professional time; if you
8 have any other questions, wanting my opinions as to what I
9 think, questions and answers on socioeconomic issues in
10 our region. And with that I'm going to bow out, 'cause
11 I'm going to get back to work.

12 MR. TURNER: Thank you. Next person?

13 MR. BURCHELL: I'm Peter Burchell. I'm here
14 tonight because I look forward to the dam project. I'm
15 glad you have all these things you're gonna be studying,
16 because I don't want some kind of half-baked plan that
17 would fail, effect the lifestyle of the people who live in
18 Talkeetna and for all of us that recreate in that area.

19 I think back to Bradley Lake when it was
20 constructed, and we're part of the tri-part agreement.
21 And in fact, Bradley Lake was 4.6 cents a kilowatt hour
22 when the construction was completed. And today in 2012,
23 it is still 4.6 cents a kilowatt hour. I've lived at the
24 Fort Peck Dam in Montana. I lived in the northwest with
25 Bonneville Dam and -- and they come with problems.

1 People here know that -- we are in the electrical
2 business, are building a new plant at Eklutna, gas-fired
3 plant. And ML&P and Chugach Electric is [sic] building a
4 gas-fired plant. Homer Electric is proposing another mini
5 dam and a gas project. I agree with Jim Sykes, that in
6 fact we are conserving energy. We're finally waking up to
7 the fact that the cheapest power is the power that we
8 don't use. It's just that simple.

9 The State of Alaska thought forward to what can
10 we do to stimulate that, we had the energy audit program,
11 that reimbursed homeowners up to \$10,000 for increasing
12 efficiencies in their home. Another side light to that
13 is, yes, we're conserving more; but as an ex-educator,
14 maybe a lifetime educator, if there's anything I know
15 about the Valley is, we keep making more kids to replace
16 the ones that are here now.

17 My little school had five students in 1988, and
18 this year there's three alternative schools with over 800
19 students. I know that they'll want to have lights on to
20 have it safe, reliable; but done in a way that improves
21 the Valley; not detracts from the Valley. I'm gonna hold
22 you very accountable. I've been a part of a lot of
23 studies. And I'll agree with Mr. Sykes, sometimes the
24 difference between the rhetoric of the planners and the
25 reality of implementation is so far apart, it's kind of

1 like when you drive off the curb with a new car, and, oh,
2 this is really a lemon. And that salesperson made it
3 sound like a viable automobile that was good, till it got
4 off the curb.

5 So I thank you for your effort; welcome you to
6 the Valley. And you'll find out on your little travails,
7 we are called the mad zoo for a reason. We're proud;
8 we're independent; and we are very strong in our opinions.
9 So welcome aboard.

10 MR. TURNER: Thank you. Anybody else like to
11 step up?

12 MR. WERNER: Yeah, my name is Dave Werner. I'm a
13 local citizen. I'm a doctor by trade. I don't use the
14 Big Su drainage for anything, but I do have a friend who
15 runs their river business up out of Talkeetna. And he
16 takes his jet boat up through Devil's Canyon. He says,
17 "You know, when you stop that boat, you can just hear that
18 grit grinding on the side of your boat." And I said,
19 "Well, that must mean there's a lot of silt." He says,
20 "Yes, it's glacial fed."

21 And I said, "Well, how do you think -- how long
22 do you think a dam reservoir will stay -- will keep the
23 amount of water that you need before it silts up?" And I
24 think, you know, some of your Lower 48 dams are on clear
25 water rivers I believe -- or relatively clear water

1 rivers, and they don't have the silt burden that the
2 Susitna does. So I think that would be a very -- a very
3 important thing to study. And would this affect the
4 lifetime of the dam and the reservoir, and if so, will it
5 still be cost-effective to build a dam? And the other
6 thing of course is, is this on a seismically active zone.

7 Because, you know, Fukushima thought they had it
8 made in Japan; well, guess what. And they had the best
9 engineers thinking about this. But they weren't ready for
10 the big one. And it made the engineers look like fools.
11 And are we ready for, as Jim Sykes says, "the worst-case
12 scenario"? And -- 'cause that's going to be a lot of
13 water released all of a sudden.

14 So seismic activity, silt burden, I think these
15 are things that need to be thought about. Thank you very
16 much.

17 MR. TURNER: Thank you. Next person?

18 MR. SPANGLER: Hi, my name is Kirby Spangler,
19 resident of Palmer. And I have several concerns I'd like
20 to share. I worked as a whitewater and river guide for
21 many years here in Alaska. And I'm also a avid fish man
22 and river runner in my own personal life. And from that
23 perspective, the Devil's Canyon of the Susitna is one of
24 the three premier whitewater kayak runs in North America.

25 You have the Alaska River and the Grand Canyon of

1 the Satkeen being the other two. And they're not run by a
2 -- very many people. These are the -- some of the very
3 most difficult big water -- whitewater runs for kayakers.
4 But they are highly regarded, and a managed flow on the
5 Susitna would forever remove the Susitna River from that
6 list. It's possible that more people would actually run
7 the river if there were better access. But it would not
8 have the wild character and the same characteristics.

9 Another concern I have is with the downstream
10 sedimentation. There are many sections of the Susitna
11 that are very braided out. And I'm wondering what happens
12 to those sections of the river if much of the sediment is
13 trapped in the reservoir upstream? How does that change
14 the character of the river itself? And then I have
15 several concerns with the salmon.

16 Where -- you know, I wonder if you've studied
17 where are the juvenile salmon in the winter. Are they
18 actually in the main flow of the Susitna where they would
19 be subject to this fluctuating flow? And how does that
20 impact the salmon? And I think that, you know, if we look
21 at the -- the salmon historically since the beginning of
22 the industrial revolution, four fifths of the world's wild
23 salmon are gone.

24 And here in Alaska we basically have the -- the
25 remaining one fifth. And I think that the cumulative

1 impacts of current industrial projects, and proposed
2 industrial projects in Alaska, on that resource, if you
3 want to call it that, that that should be renewable
4 forever, should be taken into consideration. And I'm not
5 just talking about the Susitna River drainage. I think
6 that, you know, right now we're proposing to build a giant
7 gold mine in the Bristol Bay watershed.

8 There -- there's a coal strip mine proposed to
9 strip mine through 11 miles of the Chulitna -- tributary
10 to the Chulitna River. And where are we headed with this?
11 I think, you know, if we don't consider the possibility
12 that these projects, one stream at a time, will extricate
13 the last remaining wild salmon stocks, we might just be
14 crazy if we think that.

15 And then my last concern is with the ice in the
16 winter, because the river is a corridor for travel, not
17 just in the summer on boats, but also in the -- the winter
18 for people on skis and on snow machines. And how safe is
19 it to have a hollow ice or ice that's not supported by
20 water underneath? I know I've been out on many rivers in
21 the wintertime where ice conditions are hard to read and
22 hard to predict in the -- in their natural state, and it
23 seems like what you're going to be creating is a potential
24 hazard for wintertime travelers. That's it.

25 MR. TURNER: Can I ask a quick question?

1 MR. SPANGLER: Yeah.

2 MR. TURNER: And what -- you were talking about
3 use for whitewater boating. Could you kind of clarify?
4 How do you get access to Devil's Canyon for that? And are
5 there particular flows that you're targeting? And what
6 periods of time you're targeting them?

7 MR. SPANGLER: Right. Yeah. On the -- on so --
8 I've never run any -- any of these whitewater runs. I've
9 sat around the campfire and listened to stories of people
10 who have. I have friends who've run them. So I don't
11 have the firsthand experience. But a -- the Susitna's a
12 fly-in trip. Or you can start, you know, up off the
13 Denali Highway and paddle down.

14 But the people who I've known to do it have flown
15 in, and -- and paddled it. And you're looking at running
16 them -- that Devil's Canyon at a fairly low flow, I think;
17 not at the summertime peak. But I don't know what the
18 ideal water levels are. But there's some great stories.
19 Who's the pilot in Talkeetna who landed in the Devil's
20 Canyon on floats? I can't remember his name. Or Jerry --
21 did Don Sheldon do it? Okay. To rescue somebody, right?
22 Yeah.

23 Anyway, so I think that people have flown in,
24 both in helicopters and on float planes to above the
25 canyon to land somewhere. So I mean, I think what you're

1 talking about is not something that's done often; but it's
2 -- has in certain circles a fairly large significance.

3 MR. TURNER: Thank you. Somebody else?

4 MR. BUCARIA: My name is Garvan Bucaria. I'm a
5 private citizen; former employee of the Federal -- Federal
6 Power -- FPC, federal Power Commission in the hydro
7 division. And in 1975 I think basically, I worked on the
8 Chakachamna project in 1961, with the branch of river
9 basin studies, Fish and Wildlife Service.

10 In 1962 I worked on the Rampart project dam as a
11 wildlife biologist, waterfowl, particularly waterfowl
12 surveys. During my time with the Federal Power
13 Commission, we sat in green rooms; and they're usually two
14 people to a room, no windows. And during the
15 approximately year I was there, I was the 20th or 21st to
16 leave. And there were some 300 projects that needed DISs.

17 I visited three projects. One was the Duke Power
18 Company, JoCasse project, which was a pump storage
19 project. And it's been awhile, excuse me. I believe it's
20 in North -- South Carolina. And they're also -- they also
21 had -- that was the Bad Creek project, that was the pump
22 storage project. And then there was Lake JoCasse, and
23 then of course Duke had nuclear facilities there. And
24 this is a three-pronged effort basically.

25 But the one thing at the time folks didn't

1 consider, was that in -- in cleaning their reservoir for
2 Lake JoCasse, they exposed cinnabar, which is the pardoor
3 for mercury. And I believe there were limitations on
4 consumption to the extent of they didn't recommend
5 pregnant women eat any of those fish. There were brown
6 trout, and I believe bass, and a number of other warm
7 water fishes there.

8 And that I think the average consumption maximum
9 there was something in the order of a few -- a meal or two
10 a week or so. On the Rampart project dam there was the
11 potential of flooding the entire floodplain of the Yukon
12 River within the Yukon Flats. And they were going to
13 bring in bauxite ore from South America and process it
14 with this cheap power.

15 I worked on the Cooper Lake project, which is on
16 the Kenai. And during the filling of that project, there
17 were a tremendous number of, what we now know to be arctic
18 char, they were thought to be dolly varden then. And the
19 people from Anchorage went in there, and they just cleaned
20 up. And a lot of them didn't use too many -- weren't too
21 concerned with fish regulations, and they caught multiple
22 limits.

23 And I was doing creel checking at the time, and
24 corroborated this. But the problem with -- with Cooper
25 Lake was they diverted the flow from Cooper Creek, which

1 fed directly into the Kenai River to Kenai Lake, and the
2 -- that left, and they -- they raised the reservoir; I'm
3 not sure how many feet. But in order to make that
4 diversion and provide enough flow to generate power at the
5 Kenai power facility.

6 And in the process that left the water coming
7 into Cooper Creek to be somewhat colder than it ordinarily
8 would. It did not benefit from the -- the water in the
9 thermocline and above, which was fairly warm. And I did
10 fish surveys in Cooper Creek prior to this project, during
11 the filling of Cooper Lake, with River Basin Studies. It
12 used to be a run of pink salmon at the mouth of that
13 stream.

14 They were no longer there after they started
15 generating power. There were a few king salmon spawning
16 in the pools, the deep pools in the upper areas of Cooper
17 Creek. And those are pretty much no longer present based
18 on the water temperature changes. The -- I believe some
19 of those bad effects have been ameliorated by some changes
20 in the power generation and the operation of that
21 facility.

22 But the point I'm trying to make here is that
23 there are a lot of unanticipated circumstances. And I
24 have a couple of questions here. One basic one, and I'll
25 make that right immediate, is that, why has not the Alaska

1 Energy Authority or the project generators, considered the
2 necessity of a reregulating reservoir? So that you can
3 ameliorate flows and a number of other things. But it
4 hadn't even been a consideration at least from -- from my
5 perspective in its recent concerns.

6 And let me -- let me then quick go to these other
7 questions I have. Most folks are pro electric power.
8 It's seen as a clean renewable energy source. But let me
9 tell you from my experience, there is no perfect dam.
10 There is no hydro facility that does not have some rather
11 significant implications on the natural flows or the
12 original regime. How could it not?

13 You're putting a block in front of stream which
14 provides nutrients to every -- every biological resource
15 downstream. And for the geological sources, it provides
16 the gravels, the cobble, the sands, and other sediments
17 which make up the -- the spawning areas for some species
18 and/or provides for changes in the terrestrial organisms
19 that occupy those areas.

20 The question is: What would be the cost of the
21 project? First of all, for the project, the dollar cost.
22 The dollar cost of energy to the consumer; the dollar cost
23 of resources in the dam pool, both physical and
24 biological. The downstream resources within the Susitna
25 River and within Cook Inlet.

1 I have concerns that State resource analysts,
2 will they be freely represented to express their concerns
3 for their respective resource specialties, given the
4 Governor's political influence and wrist slapping of
5 certain Fish & Game employees? I just might also add that
6 it's -- it's human nature to support the area of interest
7 that you are employed with or that you -- your avocation
8 is with; that's the normal human nature.

9 So it's pretty hard to get an unbiased
10 expression that's -- and certainly it's not going to
11 satisfy everyone. But the big question: Why no
12 reregulating dam. To minimize altering the river's
13 hydrological regime; to reduce the problem of nitrogen
14 supersaturation, or the potential of it; to offer the
15 possibility of pump storage; to minimize changes in the
16 natural river flow; to provide for periodic simulated
17 flood flows to rejuvenated -- rejuvenate the natural
18 scheme of the river, particularly rejuvenating Native
19 moose browse.

20 If anyone has seen a river at breakup, the Yentna
21 River, which is a tributary to the Yukon above -- about
22 45 miles, went in there in 1966, I believe it was, and
23 with Fish and Wildlife Service river basin studies, and it
24 was -- we ran boats down Nenana and hauled in our gas, and
25 we had the Yentna barge lines cache that fuel at the mouth

1 of the river; and then we later ran it up-river to our
2 camp. But we did -- the river basin analysis there, and
3 it was striking to see the effect of ice break-up on the
4 Native vegetation. It just looks like it's disastrous.

5 But that is the lifeblood of rejuvenating moose
6 browse. I recently cut down some willow on my place over
7 here in Wasilla to allow the moose to get at something;
8 and the next day the cow and a bull calf that were in the
9 -- in our area, came in and really hit that stuff. And
10 you might consider that. The Fish & Game says, "Don't
11 feed the moose." Well, if you cut some willow, some of
12 these tall out-of-reach willows and it falls down, it's
13 available for them. Some of you might want to practice
14 that.

15 Okay. The possibility of a pump storage to
16 minimize change in natural river flows. That's got to be
17 a major concern. And that I believe would be the major
18 consideration, if this project were to be approved. Then
19 the other question is: What is[sic] the competitive
20 energy sources at what dollar cost? And that brings up
21 the question of gas and maybe wind.

22 And let me tell you, these wind machines,
23 anything mechanical has to be maintained, and not all of
24 them work all the time. In the Altamont Pass in
25 California, I believe they had some limitations due to the

1 mortality experiences by raptors in trying to pass through
2 that area, or at least in the region.

3 What happens downstream in Cook Inlet when you
4 significantly curtail nutrient flows to the river and to
5 Cook Inlet? What happens to the genetic stock,
6 particularly king salmon above the impoundment?
7 Escapement versus natural ocean predation, Lower Cook
8 Inlet interception of fish and upper Cook Inlet catch?
9 Not to mention the escapement -- the subsistence catch?

10 So the point being, the escapement that arise in
11 those areas above the impoundment site, I'm told -- I know
12 -- I've read 50 fish; other people have said a hundred.
13 We have no idea what the magnitude of the total run was as
14 it entered Cook Inlet. There are multi-flow -- multi-fold
15 more fish resulting from the above impoundment spawning
16 stock. And that's the question.

17 The mineral resources, particularly heavy metals
18 that may be leached within the impoundment. We're talking
19 from 100 to 200 feet of fluctuation. Now, I'm originally
20 from California; and I know a little bit about
21 impoundments and fluctuations in the reservoir. And let
22 me tell you, those wave lines and the lapping of the waves
23 along the shore, it just totally wipes out any non-mineral
24 -- non-rock substrates. And you see those wave lines for
25 -- for fantastic distances.

1 We see this in Cooper Lake, those who've seen
2 that since its impoundment was draw down. The concern's
3 there. Now, I don't know what those mineral resources up
4 there are; but I'll tell you one thing, we have an awful
5 lot of -- of problems with -- I can't think of it. Well,
6 mercury in some areas. But particularly -- arsenic. A-s.
7 I couldn't remember that. Thank you very much.

8 That's the problem with getting a little older.
9 We have to use mental minutes. Anyway, the point I want
10 to make is, we all like the power; but there's no free
11 lunch. And I like salmon; I like to catch salmon; I like
12 to eat salmon. And I've done surveys in the Chena River
13 for king salmon. Seen those fish down in those deep
14 pools. I've seen chum salmon in that Chena River right
15 through Fairbanks, a hundred miles upriver, spawning in
16 upwelling zones, natural upwelling zones.

17 Question is: How -- what upwelling zones in the
18 upper river will be affected? And the other question is:
19 Will the flooding during winter, and whatever flows happen
20 to emerge as the result of power generation to maximize --
21 the maximum you get out of the system, what will that
22 effect have upon those natural rearing areas in the lower
23 river? I could go on and on; I won't.

24 But I hope you consider these points, and I'll
25 try and submit some comments to you folks. And it's -- it

1 was kind of like old home week. I remember some of our
2 experiences at the Federal Power Commission, that I was
3 telling one fellow, one new hydrologist that came onto the
4 hydro division and in the noontime, well, he went back to
5 his car to check it. He had a station wagon with a TV in
6 it, 'cause he was moving to an apartment, and the old
7 building it was broken into and the guy lost his TV. He
8 went back from work, and he came out that evening, and one
9 of the locals decided he was a soft touch; and he mugged
10 him. With -- so much for my experiences with the Federal
11 Power Commission. Thank you.

12 MR. TURNER: Thank you. Next person?

13 MR. THEODORE: (Speaking Native tongue.) What I
14 said was, I'm the Kalahe Fish Tail People. This Wasilla
15 was my grandfather's place. His brother was Eklutna; his
16 other brother was Talkeetna. I'm the last traditional
17 chief trained by all the chiefs here. They know all the
18 history dating back long before when the whole earth was
19 flooded, and the ground was underwater where we had to
20 climb the mountains to save our people.

21 You guys are newcomers here, just like the
22 Russians were. You pushed us out of our mountains and our
23 lands here, and pushed us way up in the mountains where
24 our land is. You have no knowledge of this land; of its
25 use; or its ways that it treat us and help us. You know

1 if you need help, you can call me.

2 One of my elders, Tony Saganoff, was the first
3 one to run a donkey down the middle of Susitna River, when
4 the first hydroelectric power project studied. I did the
5 last one when the Susitna Dam project is general form and
6 I constructed the Susitna Dam project, ran it for 10
7 years; took it down, put it at Bradley Lake across from
8 Homer there.

9 You know, we have lots of cultural sites you guys
10 keep destroying. And I don't like that. I don't like the
11 way you guys destroy our graveyards, our traditional
12 hunting sites, our fishing sites, our game, our belugas,
13 our lifestyle. Oil company pollute all of the whole
14 inlet. There's no more ducks. Nothing here left after
15 you guys came. No more salmon. Was so thick of every
16 kind, that took care of our people for thousands and
17 thousands of years.

18 There's no more seals. No more sea lion. No
19 more killer whale. That's what you and your ancestor did
20 to us and our land. And I want you to know that as you
21 rear the children of them immigrants that came from across
22 the ocean. And I want you to tell your kids that too.
23 What took our people thousands and thousands of years, you
24 guys destroyed it in 30.

25 Now, you want to come and destroy the rest of it.

1 To put your coin in your pocket and get job. Why don't
2 you guys get back in that boat, go back across the ocean
3 where you come from, visit your grandpas' graves. We
4 built this railroad here; we built these roads here. My
5 grandpa worked on this railroad. My daddy cut the first
6 road from Anchorage to Eklutna in 1920 with a sweet saw
7 and an ax.

8 Then we're -- don't get no jobs with you guys
9 people, and then guys treat us like we're just nothing to
10 you; in our own lands; in our own homeland. My grandpa
11 owned all these lakes here. He had a house right over
12 there, in the end of Wasilla Lake. They buried him there.
13 It took me over 30 years to get his grave back. Right
14 here, all the people from all Alaska come to visit our
15 people; and share and live with us.

16 Chief Northway, Chief Andrew Isaac, his people
17 walk all the way down, hundreds of miles to visit and have
18 potlatch with our people, and share with us. The people
19 from Illiamna, Nondalton, walked across the -- road across
20 and visited us. You guys destroyed that place too. I've
21 watched you; saw you. If you guys want to, I'll work with
22 you guys. I want to preserve historic sites of our
23 people. I want to do a study for our own -- our people.

24 You guys got job over there, put me on head of
25 that for your Native cultural people. I flew that land 10

1 years, helicopter. I knew that country like the back of
2 my hand. My daddy used to mine, walk out of there in the
3 '50s. I want to ask you some questions. What you going
4 to do when that dam freeze solid as ice, one big block,
5 when it's 80 below?

6 The other question is: Is what you gonna do when
7 the hundred year flood come and it goes over the top of
8 that? What you gonna do when the earthquake hit and bust
9 down the river and bust the dam in two pieces? Ain't
10 nothing you guys gonna do. You're gonna be sitting down
11 there in your fancy place where you came from. All them
12 things, the game, the ocean fish, everything, hooligan,
13 beluga going to be gone. Nothing left.

14 The migrations of the animal going to be
15 destroyed. That's what you guys going to leave us and our
16 future children? Your plans are no good. Thank you for
17 nothing.

18 MR. TURNER: Any other comments?

19 MR. ENGEL: I'm not sure I want to be next.
20 Anyhow, my name is Larry Engel. I'm a resident of Palmer,
21 and I'm here speaking on my own behalf. I am a member of
22 the Mat-Su Borough Fish and Wildlife Commission -- never
23 been a member here. I guess my background is in
24 fisheries. I've been associated working on the Susitna
25 River or around it since the first year Alaska was a

1 state, as a technician. Been retired for many years
2 since. I'm not representing any kind of a consulting
3 business or any of that kind of thing.

4 PUBLIC SPEAKER: Have him speak into the mic.

5 MR. ENGEL: Excuse me?

6 PUBLIC SPEAKER: Speak into the mike so we can
7 hear you.

8 MR. ENGEL: All right, I'm sorry. I guess
9 there's a couple things that I would like to share with
10 you that I've heard from a number of sources, including
11 some in government, some stakeholders that fish, hunt in
12 the Susitna area. And that is: We went through very
13 elaborate studies in the '80s, as you all know, looking at
14 this area site as a hydroelectric power source.

15 And there certainly might be a danger in that.
16 And the thinking could be, that I hear, is that we may
17 short shrift or move too fast in the permitting process,
18 they've got all this fast background from a previous
19 studies; or we may short shrift some of the many studies
20 that were conducted back in the '80s, simply because they
21 preceded this, and there'd be a tendency to cut money and
22 think we got the answers.

23 Well, I won't speak to all the different studies
24 that perhaps are lacking now. But I will speak to some of
25 the fishery studies. We learned a great deal back in the

1 '80s. But some of those studies created more questions
2 than answers I might add. And I would also say back in
3 the '80s, the technology, the ability to study fish, we've
4 increased that -- about those abilities light years since
5 then with Redhill telemetry and genetics and many other
6 things that we have developed in those times.

7 So I certainly would encourage you to start off
8 looking at the permitting process and the types of studies
9 that need to be -- with a very open mind, that we don't
10 have the answers to everything because we went through
11 this back 20 years go; that would be a horrible mistake I
12 feel in the eyes of many. And I'll just touch on a couple
13 other things real quickly, 'cause there's a lot of people
14 I'm sure want to speak tonight.

15 But when we did those studies back in those days,
16 we focused an awful lot on adults. You know, how many
17 king salmon, how many sockeye salmon, how many pink
18 salmon, chum salmon and so forth. And where they spawn,
19 and this sort of thing. Where we really, and it's been
20 touched on a number of times this evening, probably have
21 really lacking in our studies was during the winter
22 months.

23 And we heard about what this winter month, the
24 dynamics, this is when we want the power. These are the
25 uncertainties of what kind of discharges we're going to

1 allow to pass through during those months. And there's
2 really not a lot of good information, I don't believe, to
3 compare some of these type issues with the Susitna and
4 other dams. Right now if you were to go out to the
5 Susitna River, you'd find that crystal clear water in the
6 main stem. Crystal Clear. A very relatively stable flow,
7 and as people said, ice covered with leads. And that
8 water is very, very cold. That's all going to change with
9 this dam.

10 We're going to be releasing, you know, more
11 water. It's going to be different thermal quality. The
12 turbidity is going to be substantially different. And
13 these fish that may be affected by this -- and let me tell
14 you, there's been some studies done, not necessarily
15 associated with the hydroelectric power; and the previous
16 study in the Susitna is that some of these lateral
17 tributaries, like Indian Creek, which is the first
18 tributary below the Devil's Canyon; but that is very
19 lucrative, very good rearing spawning habitat for many
20 species of salmon.

21 And it's relatively easy to go in and study
22 those, count the salmon, trap -- like capture the
23 juveniles. But what happens in those streams is that that
24 wonderful, beautiful summer and fall habitat is horrible
25 for fish during the wintertime. I mean, it is -- ice is

1 frozen clear to the bottom. I've ruined so many ice
2 augers trying to find running water under these creeks,
3 find gravel there.

4 The water's running through the gravel of course;
5 but anyhow, it's a very difficult, difficult place for
6 fish to move. And in most of those tributaries, the great
7 majority of them, move out into this main stem river and
8 winter there someplace, exposed to these conditions I just
9 touched on. And we don't know very much about that. And
10 I would hope that this go-around that we would look at
11 this very, very seriously.

12 The other thing I would say is, we've heard a
13 little bit about -- you've heard a little bit about the
14 king salmon that go above the dam. And in this case,
15 we're fairly fortunate, this is not a hydroelectric dam
16 proposal like somewhere like Columbia River or elsewhere
17 where we have to pass salmon both upstream and juveniles
18 going back downstream. Yes, there are a few king salmon
19 that do go up above the dam site and above -- and Devil's
20 Canyon.

21 But you might count those on your fingers and
22 toes; it's in the 20 or 30, maybe a hundred. I've looked
23 for them for many years myself up there, and there aren't
24 very many. So it's not to say -- not to quantify that
25 even better, even though it has been. I would hope that

1 we don't spend a lot -- a huge amount of money trying to
2 understand what discharge rates or whatever it is or these
3 unique stalk or something like that, and that sort of the
4 studies in the main stem, winter studies, for example, not
5 be conducted.

6 And in I think closing, I'll -- I'll just say
7 that there's a big void of information relative to
8 fisheries, concerning the resident species and how they
9 utilize the Susitna River. There is a fair amount of
10 fairly good information on rainbow trout. I would agree
11 with that. And they do use the main, because they can't
12 coexist. How could an 18 incher or a 6 inch rainbow live
13 in some of these places while the water is frozen? I
14 mean, it's unbelievably difficult conditions; they move
15 out. And they move to other locations and they do a
16 different thing. Some in the main stem; some probably go
17 into lakes and this sort of thing.

18 But we have some information on those resident
19 species; we have essentially none. I'd ask somebody to
20 tell where are the grayling spawn or rear in the
21 wintertime? What's their migration pattern? What about
22 dolly varden? Anybody know anything about them? No.
23 What about hooligan? Well, hooligan aren't too critical
24 up in that area up there. That's further downriver. But
25 whitefish, barb, all these things are locked into this

1 winter conditioning somewhere in that -- that river, the
2 main stem.

3 And we don't know hardly anything about that.
4 And then of course, we know very little about how the
5 reservoir might affect other fish up above there. So I
6 would hope that we -- future studies, that your Commission
7 would insist upon, that we fill some of these data gaps;
8 and the people like myself, I'm sure others will soon --
9 will try to continue to encourage you, that if we are
10 going to have a dam, that we do it with the least amount
11 of negative impact, hopefully -- impact for some of these
12 species.

13 But we're going to have to evaluate things
14 through, you know, current -- or the best available study
15 techniques. And we haven't done that. And then
16 finally -- I said I was closing -- the salmon stocks of
17 today in the Susitna River, and not the salmon stocks of
18 the '80s. We have king salmon right now its at its lowest
19 levels we have ever seen. We have them -- some of them,
20 three stocks are declared stock of concern.

21 The stock of concern is developed by the Alaska
22 Board of Fisheries, our regulatory body. And there's only
23 a handful that fit this category. There's certain
24 standards you have to, you know -- and it has to curl over
25 a number of years. Well, our king salmon, we've already

1 got several stocks in that category here. The entire
2 Susitna sockeye run is in that category and has been for a
3 number of years, which doesn't show any real significant
4 improvement in recent years.

5 So there's a number of things that are not the
6 same as they were in the '80s. And then to try to compare
7 studies or do this, we have a different -- you know,
8 different situation. With that I think I'll let --
9 conclude. Again, thank you. Encourage you to think
10 seriously about some of these data gaps, at least with
11 fisheries. And I'm sure others -- there's room to talk
12 about data gaps with other social and economic issues as
13 well. Thank you.

14 MR. TURNER: Thank you.

15 MS. JONES: Hi, my name is Kathleen Jones. And
16 my husband and I are both teachers in Palmer. And we are
17 life-long Alaskans. I'm a third-generation Alaskan. I
18 grew up on the Kenai with a cabin at Cooper Landing for
19 about 50 years with my parents. We lived in Anchorage for
20 a bit, and then we've lived in the Valley for about almost
21 30 years.

22 And I just have a couple of aspects for it, and
23 it's just basically out of being here for so long. Three
24 things basically. One is, I think it's very ironic today
25 is the 48th anniversary of the 1964 earthquake. And I

1 very well remember it; all my family members remember it.
2 And to sit and think that I did the same speech actually
3 when they were talking to -- about the Knik Arm Crossing,
4 and knowing the tides as well as we do; knowing what --
5 what happened outside of Anchorage; knowing the seismic
6 activity that can be done up in the Talkeetna area;
7 there's quake zones all over the place.

8 The Talkeetna Mountains for one, is one huge
9 quake zone. So that's -- it's just -- my concern is that
10 be careful. You be careful with what you choose to do;
11 you be careful where you put things; because everything
12 ciphers down. The third -- or the second thing is the
13 Native, when he came up and spoke, I teach -- when I
14 taught third grade, the fourth grade we cover Alaska. And
15 you're hard-pressed as a teacher, even in the Valley, to
16 come up with commonplace things that are available now
17 that have to do with -- with the Native population in
18 Alaska.

19 Nordic stuff is real readable -- readable. The
20 Athabaskans from this area, not so much. It's very, very
21 hard to find stuff on them. Their mittens and their
22 houses that have been destroyed over the years by
23 different things, they're gone; and they won't be back.
24 And it takes an awful lot of push to have the Native
25 corporations, or someone local, to save those things. The

1 Valley is a perfect example; all of the -- the areas, a
2 lot of this are named after Athabaskan names.

3 The Wasilla, Wasilla chiefs, Wasilla warriors,
4 all became from an Athabaskan chief. So that's the second
5 aspect. The third aspect is the fish. My husband was a
6 fishing guide on Little Su for a long, long time. And we
7 were just told the other night that they changed all the
8 regulations for king salmon, and dropped them by quite a
9 bit. You don't -- he's no longer a guide, but we still
10 fish all the rivers in the Valley.

11 We've taken that Devil's Canyon run up with Mahaz
12 before to Devil's Canyon. And, you know, there's parts
13 like the one spoke -- the kayaker spoke, there's parts of
14 Alaska that will never be again. Never, ever. When I
15 lived on the Kenai, we would go to Homer; and as a child
16 we would camp on the beach, and you would -- you would not
17 see another car for about three or four days. And you
18 can't do that in Homer now. You don't do a lot of stuff
19 here.

20 So the fish, when I teach, I'm a harvest stream
21 project with Fish & Game for over 10 years. Where I take
22 my student out and we get eggs from a local river; we grow
23 them in a tank; we ice fish; we do -- we do a fish tank.
24 We take our fish back to the same place we found them. We
25 do a dissection every year. And in that time, the whole

1 message is to be careful.

2 We talk about horses going through streams, and
3 ATVs going through streams. And my experience of being in
4 Talkeetna and watching the Little/Big Susitna River with
5 the ice in the winter, it's very little; it's like a huge
6 volcano compared to a little campfire with what would
7 happen to the fish as -- when they're first -- or before
8 they become fry, lots and lots of problems. So again, my
9 message with all of those areas is just to be careful;
10 once it's done it's done. So take it easy on it, and take
11 it easy on us. Thank you.

12 MR. KNOWLES: I'm Bruce Knowles, and I've lived
13 in the Valley since 1982. I've served on the Fish & Game
14 advisory committees for about 18 to 20 years. I'm a
15 chairman of the Mat-Su Borough Fish & Game Commission,
16 formerly known as Blue Ribbon. And sportfishing brings
17 \$150 million a year into the Valley. The majority of it
18 is generated by the Susitna River.

19 And as Larry said while ago -- Larry's probably
20 the most knowledgeable person on salmons in this state as
21 far as I'm concerned. Our -- we have just found out, in
22 the last five years, that 40 percent of the sockeye salmon
23 run in the Susitna drainage, spawn in back channels and
24 well-ups. The chum, the majority -- a lot of the chum
25 spawn there. But we have no idea what numbers they are.

1 I do know this, from 1986 until last year,
2 there's a 1.1 million drop in the number of chum salmon
3 harvested in Cook Inlet. There's 10 out of 16 king salmon
4 strings have missed their returns. Coho returns were the
5 worst they've been in 25 years this last summer. And like
6 they said, they've reduced the king catch from five to two
7 in the whole Susitna drainage.

8 So what I'm saying is, if you're going to build
9 this dam, please get new data. The data that was
10 generated in the '80s is no good. We're at the lowest
11 point we've been in recorded history right now, in our
12 salmon returns. So we need studies to verify where our
13 fish are and what we have and we have to do to rebuilt
14 them. And the Mat-Su Borough is working to form a
15 commission to work with the people that's going to be
16 building this dam.

17 Hopefully at the next meeting they will finalize
18 it and we'll be able to get with y'all and work with you
19 and provide local input to you. Thank you.

20 MR. TURNER: Thank you. Would anybody else like
21 to make a statement?

22 MS. CHAMBRONE: Hi, my name is Maureen Chambrone.
23 I was wondering where you guys all from? How do you like
24 it up here? Pretty state, huh? Are you guys gonna be
25 driving up north to Talkeetna and Fairbanks?

1 MR. WINCHELL: Yes.

2 MS. CHAMBRONE: Well, you'll be blown away at how
3 beautiful this state is, if the weather is clear. Take
4 note that every river and creek you cross on your way
5 there from Wasilla is completely unimpeded by a dam. Take
6 special note of the big beautiful Susitna River, which
7 means sand river in Dena'ina. A major artery of
8 South-central Alaska, and shows up in many of our
9 business, government, and place names along the Matanuska.

10 You would be hard-pressed in the Lower 48 to
11 drive your car 300 miles and cross so many undammed
12 rivers. Most likely, they would all be dammed in at least
13 one place, maybe more. That's what makes Alaska special.
14 There's some dams here and there, but there are no major
15 dams. Let's keep Alaska special. No dam on the Susitna
16 River. What happened in the western U.S. with huge dams
17 virtually destroying what were once unbelievably large
18 salmon returns, and taking away much of the wild spirit of
19 the place, makes me embarrassed to be an American.

20 The fact that fish managers and biologists, from
21 a so-called intelligent species, have for over 100 years,
22 and still to this very day, claimed hatcheries were the
23 answer to the decline in salmon runs. When in reality,
24 they have done little good for the salmon species; but
25 have just been a complete waste of time and taxpayers'

1 money. This fact makes me embarrassed to be human. The
2 fact that a dam of such huge magnitude has even been
3 proposed in Alaska, makes me embarrassed to be an Alaskan.

4 And the fact that it would be the fifth tallest
5 dam in the world and only produce a maximum of 600
6 megawatts of power, less than half of the Railbelt's needs
7 and costs \$4-and-a-half billion, just makes me laugh.
8 Dams were a major contributor to the ending of the western
9 frontier image. Alaska really is the last frontier.
10 There's nowhere to go from here. Let's keep Alaska
11 special.

12 I speak for many who need to be Alaska to be that
13 last vestige of wildness, connecting us deeply to our
14 roots; keeping a little bit of our spirit wild in the
15 modern insanity of civilization. Let's keep Alaska a
16 frontier; let's keep her rivers wild and free. The dam is
17 not worth it. I've been working and living in Alaska for
18 16 years. I've built my own log cabin off the grid in the
19 Susitna Valley.

20 I speak against the dam as an Alaskan, and a
21 river lover. The Susitna and many other rivers in this
22 state still run free. Maybe I will paddle the Susitna
23 someday, and maybe I won't; but either way it's critical
24 to my spirit to know that Alaska's rivers are unimpeded by
25 manmade obstructions. That's one of the reasons I chose

1 this place to live. I am concerned about the salmon and
2 other fish in the Susitna.

3 The dam will affect water temperature, water
4 level, and sediment and nutrient loads, which will have an
5 impact on all anorgasmies species of the Susitna Valley.
6 The salmon are struggling enough right now. They don't
7 need anymore pressure; especially one of this magnitude.
8 In addition, most of the Susitna ecosystem, from algae and
9 insects, to bears and caribou, are dependent on the
10 nutrients from salmon carcasses.

11 Plus there are too many unknowns when building a
12 dam at this latitude on a glacial river. I often drive
13 from Talkeetna to Fairbanks. I'm concerned about
14 increased traffic on the road, making the drive more
15 dangerous, as well as the noise from construction. And a
16 construction camp atmosphere, and even more habitat
17 destruction. The studies to be undertaken need to be
18 seven years, based on the life cycle of the chinook
19 salmon, one of the species in jeopardy.

20 There's no way accurate conclusions can be drawn
21 in two years. And in case you haven't heard, they're
22 starting to remove dams in the Lower 48. Examples include
23 the Kanva, Rogue, and Hood. They learned from past
24 mistakes. Let's show the country how smart Alaska can be.
25 Let's demonstrate how we can learn from others' mistakes,

1 and not make them in the first place. Not spend billions
2 of dollars making a mistake, and then spend billions of
3 dollars fixing the mistake.

4 Let's set a precedent for this country in how we
5 get our energy. Instead of making electricity from an
6 expensive, destructive dam; let's save electricity
7 instead. Let's look at the maximum electricity the dam
8 would produce, and let's see how much of that the Railbelt
9 could save instead. Not only would we be saving energy;
10 we'd be saving money too. It's worth a try. Alaska could
11 lead the way for our country.

12 I'm proud to be an Alaskan, to have chosen this
13 place as my home. This place of wild rivers and wildlife
14 running free. A glimpse of what the rest of the country
15 must have once been like. I say, "No dam." But request
16 that you do studies for seven years to gain knowledge
17 about the ecosystem, and figure out how to increase energy
18 efficiency in the Railbelt. But I repeat, no dam in the
19 Susitna River. Thank you.

20 MR. DONNELLAN: Well, I figured I'd never come to
21 these things. I read about them later, and this is to
22 save my neighbor from having to listen to my gripe.
23 Couple things everybody's hit on them, but -- Robert
24 Donnellan; affiliation, Alaska. Well, it'll be a 32 years
25 construction, commercial fishing, tribal administrator,

1 whatever. Worked from Catachan to Catablu. Live in
2 Willow.

3 The last person just spoke -- and I heard a quote
4 from a comedian one time: Humans kind of love technology,
5 technological solutions and so on; and he said, we create
6 a problem and then start -- instead of stopping that
7 problem, we then do something that allows us to continue
8 this problem, but it causes another problem. And then he
9 quoted a comedian who said, "Eat less pork or genetically
10 modify the pig, yeah."

11 Couple notes, and I've got random stuff. But
12 it's real easy to -- the Native guy -- the Native fellow
13 that stood up here, it's kind of easy to chuckle. But you
14 start looking at it from his perspective. And I went down
15 to -- had a daughter going to UNLV, never been to Vegas in
16 my life. Went down there, and I found myself standing on
17 the hotel roof, there's a parking garage, and I did have a
18 little epiphany where I looked around, and Vegas, you
19 know. As I -- so this is what it was all about, the
20 pinnacle of American culture; that this is what we did to
21 this country; and this is where it's headed.

22 But back to the dam. Number one, jobs. I've
23 dealt with people at Juneau over the years; whenever you
24 hear any project being pushed through and the idea of
25 jobs; there is no legal backbone to any local hire law.

1 So it's a lie when they say it provides jobs to locals in
2 the sense of the companies can hire whoever they want.
3 You get on the plane, you've all seen them leaving from
4 the Slope; go out to Bristol Bay, 80 percent, 70 percent,
5 not a Lower 48, Monterey, California; wherever. So the
6 job issue.

7 If it does hire locals, it's the -- a huge amount
8 to move up here to get the job. And sure they might build
9 a house to contribute to the economy. In terms of
10 trusting the experts: Fish & Game, the fellow noted Fish
11 & Game studies; I call it Fish & Game habitat; 'cause
12 they're a habitat. Have -- want to take a D9 across
13 Willow Creek; you can't do that. Oh, I want to take a D3;
14 you can't do that. Well, I want to drive my ATV across;
15 you can't do that. Oh, but I can take a 24-foot jet boat
16 sucking up gravel all up and down those little two-inch
17 streams.

18 In Alaska we've kind of got this mixed view. The
19 old school kind of is, we've got plenty of wild and it's
20 to be developed, and it's still real prevalent. And
21 there's some need for some of that providing jobs. But I
22 talked with habitat about this idea of in the Lower 48,
23 some of these things we have, the Little Su was mentioned,
24 Willow Creek, and so on; if those were the Lower 48,
25 Yellowstone River, they'd be prized possessions. It would

1 be float trip only, whatever. And dories.

2 But we allow -- the experts allow -- and when I
3 talked to habitat they said, you know, they don't have the
4 authority. Well, what's the water cooler conversation,
5 you know, when you guys talk about this? Dead silence.
6 There is no conversation. So I went all the way up to the
7 director in Juneau. "We don't have the authority." I
8 understand that, but you can initiate some studies.

9 And a friend of mine that was with Fish & Game,
10 he's now with DNR. He said, "You don't understand,
11 habitat is a permitting agency. You can have the permit
12 or you can't." But Fish & Game within itself does not --
13 it takes grassroots movements, harass you the legislator
14 to get anything done. The experts on their own, are not
15 looking at this saying, "Gee, this should be done or not
16 done." And I'm sure there's individuals with all those
17 organizations that do that.

18 I think it was from a movie, I didn't know the
19 quote as far as the experts; the -- it took FEMA five days
20 to get water to the Superdome. So in terms of all the
21 preventive stuff with the dam, there's no guarantees. And
22 I'm just going to read some notes I scribbled. All
23 concerns being noted are not the issue; all developmental
24 -- all development projects, note issues and impacts, but
25 the development occurs, and the impact happens.

1 The issue is that, how many times it seems the
2 impact is considered without regards to halting the
3 development. Again, you know, we look at a lot of these
4 things with the Kenai. I mean, they were able to reduce
5 outboard size and so on. So there is ability to do that.
6 We looked at oversight and environmental damage. You go
7 down to Southeast Alaska, they have to set buffer zones
8 for logging. You can hike streams down there and see
9 where they left the slash right across the creek; the last
10 runs of the humpies that weren't going to make it up,
11 stranded down there.

12 We all know the Exxon, Prince William Sound, Gulf
13 of Mexico, the North Sea right now today, they have a
14 leak, Everglades, et cetera, et cetera. Appalachian
15 Mountains, leveling them. So there are always promises,
16 but guarantees are impossible. Just checking a few more
17 notes. I think back to what the Native gentleman was
18 talking about. We're all here, we all need a job and so
19 on; but when I look at some of these projects, and then we
20 look at where mostly looks like middle class Americans,
21 what other people see as our conspicuous consumption.

22 So we'd rather -- you know, bulldoze all the land
23 for the roads, build the dams, and so on, instead of maybe
24 driving one less vehicle, SUV, the big mansion craze, all
25 that stuff; and sometimes it just seems nuts. This amount

1 of environmental degradation to maintain, you know, a
2 level of consumption to support the Valley's power needs;
3 when -- I think the woman over there mentioned, you know,
4 looking at, again, levels of consumption we're powering
5 what.

6 And I talked with the woman from a -- the energy
7 board, for example, in Juneau when they had the avalanche,
8 they managed to cut their energy level down to like
9 nothing, because they had to. And the minute the power
10 came back, it went right back up. And there's some
11 balance in between those extremes; but as Americans, we
12 seem not to really want to go there. I mean, we can go to
13 war over oil, so -- one last comment.

14 When I -- that conversation with Fish & Game
15 habitat, they do know silver studies on the hostess on the
16 drainage; maybe a few minimal ones, but negligible. And I
17 had asked them this issue about, why aren't you guys
18 proposing to at least just do some studies and so on. And
19 his final comment was, "Well, we're busy." So I said,
20 "Okay, well, wait a minute. The whole Su drainage --"
21 you've got the Matanuska River, doesn't really have any
22 fish. You've got Kink River with Jim Creek, not going to
23 count the tail raise. On the other side you got
24 Alexander, that's shot. You got Destram, which is Coney
25 Island.

1 So now 95 percent of the -- I'm making up these
2 numbers, but 95 percent of the numbers, fishes on the
3 eastside streams. So we're talking Little Su, but
4 specifically Willow, Little Willow, right on up -- so
5 that's 95 percent of the impact on the whole Susitna Basin
6 in the Valley; and you're not dealing with that. And
7 you're too busy to do it. What are you working on? And
8 so it's amazing to me that that stuff does get ignored,
9 and I'm done.

10 MR. TURNER: Thank you. Anybody else?

11 MR. JONES: Hi, good evening. My name is Chris
12 Jones. I'm from Palmer. I'm an educator in the Valley.
13 And having listened to everyone this evening; I've only
14 heard one speak up in favor of this dam. And that's the
15 socioeconomic factor. Now, I can speak to that directly.
16 I grew up in Alaska, moved here in the '50s. I used to
17 fish in Cooper Creek; can't do that anymore.

18 But I also worked on Bradley Lake; I worked in
19 Terror Lake. So I got the direct effects of that socio
20 and economic value. But, I also was a guide for over 10
21 years in the Little Susitna River. So there's the other
22 side of that socioeconomic effect that I also have direct
23 result from.

24 So I'm thinking, if there's going to be big
25 socioeconomic effect from this dam that's going to be

1 positive for the Valley, there's going to be some kind of
2 net decrease, because the salmon habitat from these rivers
3 being dammed up, is going to be hugely effective. It'll
4 go down; it'll never be the same once this dam is built.

5 So I think there's a negative net effect in the
6 fact that fishing's going to go down; the guides are going
7 to be out of business; the sports fisheries that are
8 supported by those guides are going to be out of business;
9 the people that buy tackle and lures and boats and motors
10 to access these rivers, that socio and economic factors
11 are going to be impacted hugely. So I don't think there's
12 going to be much net effect from this dam for a positive
13 socioeconomic factor in this Valley; I really, really
14 don't.

15 And having read what I know about salmon habitat
16 and having followed it, being a guide; it's clear to me
17 that there's never been a dam built in the world that
18 doesn't affect fish habitat. There's not been one. I
19 would challenge anyone in this room to show me one. Any
20 of you people right here, show me a river that has not
21 been impacted by a dam, and I'll give you my year's pay,
22 okay.

23 Because there is -- it's not going to happen,
24 folks. To believe that a dam of this size is not going to
25 impact the fisheries in the Mat-Su Valley and the Big

1 Susitna River drainage is folly; it is pure simple folly.
2 To allow this project to go forward, as these people
3 suggest and promote, is detrimental to the Valley. Now,
4 you look at this lake it's going to create, 43 miles long.

5 I know that there's caribou migration that go
6 across that area all the time. What's going to happen to
7 that? They're going to have to cross a lake that
8 fluctuates in the wintertime. Come on; give me break.
9 Everybody knows it's not going to happen. Lots of people
10 hunt up there; I don't hunt up there. Okay. But I know
11 plenty of people that do. Where they going to go now? I
12 mean, you're forcing fisheries, fishermen, and hunters
13 into a very narrow channel which they're going to be
14 forced to fish in or hunt in because of the impact of this
15 dam.

16 Won't be able to go to the Big Su drainage
17 anymore. Where you going to go to fish? You won't be
18 able to go on the Denali Highway to hunt anymore. Where
19 are the caribou going to go? They're going to get wiped
20 out on the north side of that lake; totally wiped out.
21 Because they've hunted -- they've narrowed down the
22 hunting area for that part of the state. So this dam is
23 not very a positive thing.

24 I don't know if you need the electricity; it
25 doesn't sound like you do to me. But there's plenty of

1 other things that we could emphasize in this state besides
2 this dam, and put money into, besides this dam.
3 \$4.5 billion, surly there's got to be something better to
4 invest our money in as citizens of this state. Thank you.

5 MS. HARTS: My name's Kathleen Harts, and I'm
6 from Big Lake. And I'm sure you've noticed; but I will
7 point it out anyway, there hasn't been a single person
8 here who's spoken tonight who wasn't all about fish.
9 Fish, fish, fish. That is what every Alaskan has in
10 common with every other Alaskan, no matter whether they've
11 been here for a thousand years or two years. Fish. That
12 is everything to an Alaskan.

13 For 60 years my family has been fishing, hunting,
14 and dog mushing; not to speak of living and breathing; in
15 the area where the proposed Susitna-Watana Dam would be.
16 As well as up and down the Susitna River and its
17 tributaries, all the way to the sea. This is our country;
18 it is the foundation of our life. We depend on it
19 completely, and we treasure it above all else.
20 Accordingly, we are responsible for the well-being of this
21 land and these waters and the wild creatures that inhabit
22 it with us.

23 We would not violate the health and integrity --
24 its health and integrity for any but the very most
25 critical value for human survival. Less than half of the

1 electric needs of the rather meager population of the
2 Alaskan Railbelt, is a pittance. It does not even begin
3 to be a critical value on the scale of this massive
4 intervention in the rare, exquisite, priceless ecosystem
5 of the Susitna River, of which all of us here are a part.

6 If this is to be the tallest dam in the western
7 hemisphere, then to justify it requires a proportional
8 benefit. Not just the small benefit of satisfying a mere,
9 less than half of the electric needs of a few Alaskans;
10 and we are very few indeed amongst the teeming world
11 billions. Less than half of that of which could very
12 easily be eliminated altogether with full commitment to
13 energy efficiency alone.

14 If this is to be the tallest dam in the western
15 hemisphere, then to justify it requires it to be of
16 critical survival importance to at least all the human
17 beings of the western hemisphere. Not just to some of its
18 energy-loving Alaskans looking for a quick 20th century
19 fix to our 21st century energy issues. If this is to be
20 the tallest dam in the western hemisphere, it will be
21 using, at least in some respects, the most resources of
22 all the dams in the western hemisphere. And doing the
23 most damage to Mother Earth of all the dams in the western
24 hemisphere.

25 And in the most active earthquake zone in the

1 western hemisphere, it will be having the highest risks.
2 So it certainly should be doing the most good of all the
3 dams in the western hemisphere. But it would only be
4 providing a pittance of benefit. And to do that
5 insignificant pittance, it would be destroying the
6 integrity and the health of one of the western
7 hemisphere's few remaining completely wild and clean
8 places.

9 It would be destroying the integrity and health
10 of Alaska's most crucial wildlife resource. I know that
11 you figured out what that is; wild Alaska salmon. That is
12 depended upon, not just by my family -- who cares about my
13 family -- but by all Alaskans of all times, past, present,
14 and future. An Alaskan wildlife resource that is also
15 coming to be depended upon by millions of people in more
16 populated areas of the world; as we sell our fish quite a
17 bit.

18 It would be damaging or destroying the integrity
19 and health of the wilderness; and in the process, altering
20 Alaska's best hope for a 21st century cash cow. Our
21 business of welcoming visitors, who come to share in the
22 wonders of our part of the world. Hurting Alaska would
23 hurt the United States and the western hemisphere, for
24 whom Alaska is a crowning jewel. A mecca for pilgrims
25 seeking the heart of our connection with nature and the

1 divine imagination. A last frontier of discovery and
2 renewal, which I hope you also will experience while
3 you're here.

4 We need to study alternatives much more
5 thoroughly. And just remember, fish first.

6 MR. TURNER: Is there anyone else?

7 MS. WITT: I'd like to speak. Hello. Hi, my
8 name is Diane Witt. I'm a life-long Alaskan. I was born
9 in Fairbanks. I've lived in the Valley for about 10
10 years. From Anchorage; it took a little bit of
11 adjustment, but now I would never go back. I agree with
12 everyone who spoke about the fish. Fish in Alaska, and
13 salmon in particular, are religion here. They bind all of
14 us all together. I am -- I own a small contracting
15 company with my husband; so we certainly get a twinkle in
16 our eye when we hear big projects.

17 But we are also mindful of, and probably why
18 we're small, of the true public use of these projects; and
19 whether we would like to be involved in them or not. This
20 is not one of these projects. I'm also a senior economics
21 student at UAA, been going through all the classes,
22 including energy economics. And I have grave concerns
23 about the claims and promises of this dam. For one,
24 4-and-a-half billion is an incredible lowball.

25 And I don't see how -- it doesn't make any sense

1 to me that spending \$4-and-a-half billion is going to
2 maybe save every household 50 bucks on their electricity
3 bill. I'm happy to pay that 50 bucks to avoid this
4 boondoggle. Also, one of the things that really deeply
5 concerns me, is that part of the way that this dam has
6 been promoted, is that we are in crisis mode for running
7 out of natural gas. I think that is a lie.

8 I think it is part of a pattern of disaster
9 capitalism. If anybody is familiar with how Enron
10 operated, with how they supplied power to California and
11 other western states, they literally switched the switch
12 on, on and off whenever the prices were high, leading to
13 those brownouts. And I think that that's what's happening
14 with natural gas in this state.

15 I was really impressed by the Alaska Native
16 gentleman, and what he was speaking about. Because there
17 is a pattern in Alaska of federal policy coming between
18 Alaskan's natural resources. And I don't mean, kick the
19 feds out whatever, that's not what I'm talking about, that
20 kind of rhetoric. But the federal fisheries policy is
21 enabling, promoting, under the guise of economic
22 efficiency, the massive trawling up and down Western
23 Alaska; which is decimating those salmon fisheries.

24 Those salmon fisheries were cultural anchors
25 where every summer there was fish camp. We don't have

1 camp here where you go and canoe around in a lake; there's
2 fish camp where you harvest camp -- you harvest fish and
3 dry it to last you through the whole season. And that is
4 -- that's dying in Western Alaska. And I think that has
5 everything to do with why they -- there's so many social
6 problems in these remote areas.

7 Because some of the most basic needs they have,
8 are -- they're being separated from them. Where the
9 pollock trawlers are intercepting the chinook by by-catch,
10 and they're not making it up the rivers. And I wanted to
11 draw a parallel to that with the natural gas in Alaska. I
12 think this dam is meant to get all these greedy Alaskans
13 off of natural gas-powered electricity; so that natural
14 gas can get exported for phenomenal profit to Asia and
15 beyond. And I'm not against that, but it's our gas.

16 We were here first; we're not excessive users of
17 it. And I think that it is unreasonable to try to push us
18 off onto something with claims of savings that will never
19 happen. Nothing that they've ever built in Alaska has
20 ever benefited the public or saved us any money. The cost
21 of living just goes up here; it doesn't go down. Never
22 goes down. And my concern is that for the scale of this
23 dam that they're putting in, that's not for residential
24 and general commercial use. That's for major mine
25 operations.

1 If they can get this dam in here, they can get a
2 major mine in here. And that will radically alter the
3 character of the Valley, which is by and large, not a
4 transient community. People who are here, out here, live
5 here; pay rent here, buy houses here, send their kids to
6 school here. And while our State government is diverting
7 massive amounts of funds in hundred-million-dollar blocks
8 to this project or that project, that school, Iditarod
9 Elementary, entire grade levels are being taught in
10 portables in the parking lot. And I find that ridiculous.

11 For the amount of natural resource wealth that
12 this state has, we should have a quality of life on par
13 with some of the most wealthiest European nations. But
14 it's being diverted for ex -- the profits are being
15 exported for these multinational companies and these large
16 national companies. And another thing I would add, is
17 there's no such thing as a conflict of interest in Alaska
18 politics, planning, or construction.

19 So by definition, you cannot get a good public
20 product out of that. You can't get something that
21 benefits the public at large when backroom deals and all
22 kinds of things are happening behind the scenes. And
23 that's our problem; that's not your problem. But I would
24 ask that you not build this dam. I don't think we need
25 it. I think that here we are talking about Valley

1 electricity needs; up in Fairbanks has a completely
2 unregulated energy market, where there are people paying a
3 thousand dollars a month to heat their modest homes.
4 That's a problem.

5 And it's a similar problem -- and what they're
6 trying to do, is they're trying to get Alaskans off
7 petroleum products so that those can be sold wholesale out
8 of the state with as little benefit to the actual Alaskans
9 that live here. And there's only 700,000 of us. So to
10 call us greedy, that we want more for ourselves, just
11 doesn't wash. We want basic quality of life, and that's
12 not happening right now; it's eroding quickly.

13 And to -- back to the fish, we used to be able to
14 drive up to Willow Creek, maybe put in a weekend or two,
15 and catch a nice king. We -- and it used to be shoulder
16 to shoulder combat fishing. Lots of raw feelings and
17 jokes, and lots of cheers too. Now, you go out there,
18 there's nothing. Nothing out there. These fish -- these
19 salmon fisheries are dying. I blame Federal Fisheries
20 Policy for, A, not paying any attention to it; and I
21 certainly blame Alaska's Fish & Game, which has been
22 turned over to who knows who, who are not studying -- who
23 are not protecting the salmon; they're completely
24 abdicating their role there.

25 Because salmon is a low commercial value

1 resource, high to the people that live here, but such low
2 and commercial value, that it should be replaced by oil,
3 gas, mining, pollock, fish sticks, whatever that is. But
4 certainly not for the common use of the common people here
5 in Alaska. So that's all I had to say.

6 MS. HOLMQUIST: Welcome to Alaska. My name is
7 Mary Ann Holmquist. And I'm a resident of Palmer, Alaska.
8 My husband and I spend much of our summers floating wild
9 rivers here in Alaska by canoe. I am an advocate for
10 wilderness. And I oppose building the Susitna River Dam.
11 On one level, I believe the \$4.5 billion cost of building
12 this dam is not an efficient use of our money. I think it
13 could be better used to develop natural gas in the state.

14 And I also have concerns spoken by this group, of
15 this dam being build near a major earthquake zone. But
16 mostly, I find myself turning 60 this year. A time of
17 prioritizing one's life and seriously reflecting on what
18 we leave behind. I find myself thinking that protecting
19 the last of the great free-flowing rivers on this planet
20 may not be a bad legacy to leave for my
21 great-great-grandchildren.

22 So I stand here now supporting this wild river,
23 and opposing building the Susitna River Dam.

24 MR. TURNER: Thank you. Is there anybody else
25 like to add anything? Come on.

1 MS. DELAY: This is very brief. I'm Carol Delay
2 from Big Lake. I just think it's too much money for too
3 much dam for too little benefit. Thank you.

4 MS. CIOSTEK: I'm all Alice Ciostek. I was born
5 and raised in Alaska. And I want to support everything
6 that folks are saying. I'm totally opposed to this dam.
7 There's a lot of industry that's being taken on at this
8 time. And this area is really being stressed. There's
9 about 40 miles of coal mining that is being proposed on
10 the opposite side of the Talkeetna range. And that mining
11 is going to be impacting, should it go through, the moose
12 population, the caribou -- or all the wildlife that's
13 going to be avoiding all that industry.

14 Now, you have animals that are moving up
15 mountains and going into this other area; and they're
16 going to be displaced. It's a large state, but this is
17 going to have a huge environmental impact. And so even if
18 you're looking at how this dam would be affected, you need
19 to be looking also at the other industries and how they
20 are impacting the environment as well. We're all hearing
21 on the news and the degradation of the environment, use
22 your common sense; listen to the people, what we're
23 saying. You know, there's -- there's good science out
24 there that we need to be protecting the environment.

25 And this dam is not helping to protect the

1 environment. Thank you.

2 MR. SEELA: Yeah, my name is Frank Seela. I'm a
3 local business owner. Also I do fish -- and I travel the
4 rivers quite often. Not that far north, but on the lower
5 end on the Susitna. And we can see when the tide comes,
6 how much an effect that has, and it's -- we're talking not
7 the high tides, when it's quite far into the river and the
8 ice is completely unusable for travel. So if you would do
9 that far up north in the river, I think that has probably
10 the same effects.

11 And also when you say about 2 feet, it don't
12 [sic] sound much; I don't have just experience from river
13 traveling between Deshka Landing and the Susitna, Susitna
14 landing there, and it's quite spread out far. So there's
15 a lot of low channels. And when I fly myself over the
16 Matanuska River, I see all the spawning salmon. And
17 probably not more standing as 2 feet of water. But the
18 thing is, it's so silted, they will not stay in the silt,
19 so they go to the sides in the little streams where it
20 clears. And there they can sit and pick paddles and pool
21 and spawn.

22 So if you say you raise and lower that by 2 feet,
23 then a lot of this ground cannot even be reached by the
24 fish anymore. So I think -- at least my family, we are a
25 small one; just my wife and me. We eat entirely only fish

1 in the wintertime. We catch them dip netting or go just
2 local fish. But if the fish is gone, we would need to go
3 to the shop and buy; it's more expensive. I cannot afford
4 to buy salmon in the store. It's outrageous high priced.

5 So our cheapest source, and the best source of
6 food, is going in the river, spend a couple days there,
7 fish what we need; and then we probably can stock up our
8 winter supply. So that's my 5 cents to it. Thanks a lot.

9 MR. MILLER: Hello. My name is Steve Miller.
10 And I am a 28-year resident of Wasilla. And my wife and I
11 own, I think 74 acres of property here in the Mat-Su
12 Borough, which isn't a lot. But about 73-and-a-half of
13 those acres is wild land. And 66 of those acres is on the
14 Big Susitna River, just south of Trapper Creek on the west
15 side. So I feel like we do have some skin in the game
16 here.

17 And I just want to ask: How many people in this
18 room got involved here, three or four years ago, when MEA
19 was proposing to build a coal-fired power plant? How many
20 people stepped up and -- I am conflicted about this
21 project, because it -- it makes me sick when Bruce Knowles
22 and these other people stand up and tell us what's
23 happened to our salmon run.

24 But I also -- I went -- I was at the 5th Avenue
25 Mall a couple weeks ago. And I just look at the people in

1 the 5th Avenue Mall, and they just seem like they're from
2 another planet. And I have a hard time imagining that all
3 of those people are going to build log cabins and live off
4 the grid; it's not going to happen; people are not going
5 to go back to living in wigwams; and, you know, completely
6 subsistence lifestyles.

7 And so as much as I'm concerned about the
8 fishery, I think that we need to give this project a
9 chance. Because I do not want to see coal-fired power in
10 the Valley. And I constantly hear this propaganda on the
11 radio from Usibelli Coal Mine; coal is this clean fuel; we
12 should be looking at coal; we should be -- America's clean
13 fuel. And I'm sorry, but if I had a choice of coal from
14 -- to produce my electricity or hydroelectric, as much as
15 I'm concerned about the impacts, I personally will vote
16 for the hydro.

17 And, you know, saying this project doesn't pencil
18 out. I -- I think it does; I think the State has a
19 history of building hydroelectric projects, successful
20 hydroelectric. It's not a shame. Terror Lake, Bradley
21 Lake; there's more; I just can't think of them right now.
22 So just be careful what you wish for. And I'll just say
23 one other thing here, I'll just -- I don't have any notes
24 or anything.

25 So I'm just kind of going off the top of my head.

1 But what something like this allows, is it allows other
2 forms of alternative energy, such as wind power; and, you
3 know, maybe you don't like wind power; maybe you don't
4 like hydro; maybe you don't like coal; maybe you just
5 don't like power at all, okay. There's nothing I can say
6 to you. But what this project could do, is allow our
7 wind-power resources here in the Valley, and we have huge
8 wind-power resources. It could allow them to be
9 developed, because the wind doesn't blow all the time; we
10 all know that.

11 And -- but hydro is -- is a more or less steady
12 form of electric generation. So I've learned a lot
13 tonight. I appreciate all the comments. Thank you, for
14 -- everybody for sharing your thoughts.

15 MS. DONEGAN: My name is Judy Donegan. I live in
16 Palmer. And I think of all the people in this room, I'm
17 the person who's been here the least amount of time. I
18 came two-and-a-half years ago. And I came -- for the
19 gentleman that just talked, from living in a high-rise on
20 Lake Michigan; to live off the grid in Palmer; and it's
21 not that hard. It's not that hard to do it. And I know
22 it takes resources to build the power. My solar panels
23 for instance.

24 But maybe I agree that we should be putting our
25 power to use to develop alternative energy sources. The

1 other thing is, that one of my fears about this dam --
2 pardon me, I get nervous. But is that it's going to
3 increase the power somewhat in the Valley; and will that
4 help the development of those 40 miles of coal mines in my
5 neighborhood? So one thing everyone talks about fish, and
6 that's really important to Alaskans; and I take your word
7 for it. I've enjoyed the salmon.

8 But it seems to me what's really important to the
9 power structure in this state, is huge, the bigger the
10 better industrial developments. And that seems amazing to
11 me. In Chicago they just closed a coal plant in the
12 middle of the city; which was a stupid place for it; but
13 they're closing it. We shouldn't be going down that path.
14 So I'm a newcomer, but -- thank you.

15 MR. POWELL: My name is Gary Powell. I'm a
16 property owner in the Chulitna development corridor.
17 That's my specific concern is the access to the dam site.
18 For those who don't know where that is, it's only about --
19 less than 10 miles off the Parks Highway where that would
20 come out, closer to five miles. And within that area
21 there are probably 150 to 200 property owners.
22 Specifically in Indian River subdivision, it's ASLS,
23 Alaska State Land Survey, 80-131; and numerous remote
24 parcels, new Miami Lake and the Chulitna area; all the way
25 down to Gold Creek.

1 And in the paperwork it says that the access road
2 and the power line would end at the inter-tie connection
3 and the Alaska Railroad; but they're going to have to have
4 public access to the recreation area that's planned in the
5 reservoir. And it's only logical, if that were the
6 preferred alternative, that it would be an easy connection
7 on the Parks Highway down to Chulitna. And on the old
8 Chulitna there's the trail that goes out to Portage Creek.

9 And that area has some home sites and homesteads
10 from the federal home site program. And it would have a
11 huge impact, because right now that area's for recreation
12 and subsistence use for the owners. I've been there about
13 29 years. And very few people know about it. And so
14 everybody ignores it. But I'm concerned that if that were
15 the preferred route, and I'm told it's the least preferred
16 route, but if it were constructed that way, it would have
17 a huge impact on the local population in that area. Thank
18 you.

19 MR. CHOTICK: Good evening. My name is Andre
20 Chotick. And I'm 20 years resident of the Mat-Su Valley.
21 I came from Poland; little country in Europe. But was
22 amazed how beautiful Alaska is, and fell in love with
23 that; and I want to stay here. I welcome you guys to come
24 here and spend your precious time to listen to us. And
25 there was a great testimonies along the evening.

1 And I would like to add my comments to it. From
2 it experience that we have in the Mat-Su Valley being
3 active citizen and fulfilling our civic duties, we go to
4 numerous meetings with the Borough Assembly. And we see
5 how many times our elected officials disregard the
6 regulatory process, which was set up probably long time
7 ago. And we came to conclusion, that this regulatory
8 process, or licensing process, is badly broken or
9 dysfunctional.

10 And I hope that you guys take the time and maybe
11 reconsider our input here. That there's more to it than
12 just creating another white elephant in the Mat-Su Valley.
13 We have already our ferry floating someplace without a
14 port. We have competing ports, you know, with the Seward
15 -- with the Anchorage port. We have the -- another port
16 over here building, because they want to make that colony
17 to export natural resources to Asia markets.

18 And the -- in the process, totally destroy
19 environment and the natural resources that we have,
20 instead of enhancing them and preserving for the future
21 generations. We just trade one precious resource for some
22 pebble or coal, and destroying our livelihoods. So I
23 would like you guys to consider other aspects, or all the
24 aspects, and gain new data how this dam gonna help us to
25 regain the -- our energy independence. Thank you very

1 much.

2 MR. TURNER: Anyone else like to make a
3 statement?

4 MR. ENGEL: I've already spoken, but I've got one
5 question that has not been brought up. My name again is
6 Larry Engel. Virtually every hydroelectric dam that has
7 salmon, so it's significant salmon associated with the
8 project, somewhere along in the discussion, because as
9 we've heard repeatedly tonight, dams are almost always
10 going to have some kind of a negative, if not a very
11 serious negative effect on fish. I think that's the
12 feeling of most of the public here this evening.

13 And salmon are very important to Alaska's
14 lifestyle, economy, and all these -- subsistence and
15 whatnot. One of the ways to mitigate in the eyes of
16 political people is to say, "Okay, yes, this dam is going
17 to impact your salmon run; and our studies have indicated
18 it will reduce the salmon runs in the Upper Susitna by
19 some percent, 40 percent, which represents this much
20 fish."

21 "What we're going to do for you, we're going to
22 replace them with hatchery fish." And somewhere in this
23 discussion, somewhere in your scoping, somewhere in
24 looking at all the different alternatives to the stem,
25 that issue is going to come up. And it should be done in

1 a manner that's not one of those last things that you do
2 at the very end to mitigate, to compromise, to do whatever
3 it takes to pass this -- you know, to ensure that the dam
4 gets built.

5 I'm not saying that's bad, but I say that I've
6 watched this approach being used throughout the Pacific
7 Northwest. I grew up as a young boy when Grand Coulee was
8 built and cut off thousands of miles of salmon habitat.
9 We said, "We're going to build you the largest salmon
10 hatchery in the world; and we did to mitigate this loss
11 and we'll produce even more salmon below the dam."

12 Well, the Leavenworth Hatchery was a failure; we
13 didn't have the expertise that -- to grow the fish. It's
14 very easy to say, "We'll build more fishing; we can do
15 that to mitigate all of these concerns about salmon." It
16 may not totally mitigate the idea of wild salmon. But I
17 could probably paint you a picture of how I'm going to
18 propagate these fish, so we're going keep all this wild
19 genetic capabilities of these fish available; and we run
20 into this wild problem.

21 But -- and producing fish with the hatchery, you
22 got to be very, very careful. I'm not going to go into
23 all the details, because they can change all kinds of
24 things besides, you know, the spawning behavior,
25 inter-facing with wild fish, harvest rates, and these

1 things. So I think right at the very get-go on a project
2 like this, and we're considering it, and whether it's
3 viable or not, that the issue of what role might salmon
4 hatcheries play in mitigating any potential lost salmon
5 relative to the dam.

6 So I would hope that that issue was brought up
7 early on in the discussion, the public have a chance to
8 talk about it and see whether it's a reasonable approach.
9 Thank you.

10 MS. KILKENNY: My name is Anne Kilkenny. I just
11 want to say, don't think that this is -- that salmon is
12 just a lifestyle thing, or something that Native Alaskans
13 do. I worked in the seafood industry for one of the
14 biggest salmon processors in Alaska. And even while I was
15 working there, I couldn't afford to buy fish. Many of us
16 depend on salmon and moose to live. It's not what we do
17 on Saturdays for fun.

18 I mean, my husband's cousin says, "I need 120
19 fish a year to feed my family. I have to get 120 fish a
20 year." This is how we live. It's not just fun and what
21 we do for pleasure. It is our life, it is not a
22 lifestyle. It is about living. Thank you.

23 MR. BUCARIA: I just had one other comment. It
24 would be really -- oh, yes. Garvan Bucaria; number two
25 comment. Mr. Engel has mentioned he would like to see

1 some coverage of the cost of replacing fish that might be
2 lost; that will be lost I would say. And there are very
3 few king salmon hatcheries around, because of the life
4 cycle of the king salmon. Pink salmon migrate right after
5 they emerge from the gravel, so do chum salmon. Sockeye
6 salmon, a couple years in freshwater, then they're gone
7 out for a couple years we'll say in salt-water and return.

8 But king salmon, king salmon it takes a -- it'll
9 take quite a resource to feed those fish that are being
10 raised in the hatchery for one, two, three, three years
11 maybe; maybe more depending on the water temperature. And
12 that's another thing, you just don't find hatcheries
13 everywhere that work. I think the Fish & Game is building
14 a hatchery up in Fairbanks; they've been doing it for a
15 couple, three years. Got some problems. Water quality;
16 so it's not so simple.

17 And I'd like to reiterate the point that if -- if
18 you start messing around with the natural regime and the
19 water flow of the Susitna River, those upwelling areas,
20 those side channels, which I observed at Cachuma Lake and
21 elsewhere in Alaska that are the lifeblood of spawning
22 salmon, will not be accessible; I'd like to reiterate that
23 point. That's a major point.

24 And you'll have natural loss of habitat in very
25 -- in the natural regime. But if you start

1 artificializing the thing, I don't think a man dances to
2 the same drum as in the natural system. So there would be
3 perhaps even greater problems. And then, of course, the
4 disease factor in hatcheries. These are all problems that
5 we with our super technology haven't seemed to find
6 answers to. Thank you.

7 MR. TURNER: One more back there.

8 MR. ERICKSON: Thank you. I'm Rick Erickson.
9 And I'm a property owner up at Gold Creek, Alaska my --
10 holding in State Park. Been up there for about 20 years,
11 and I've seen many fish. I've got one of those in --
12 upwellings, if you will, of -- right off the -- right off
13 the main stem of the Susitna. I fish that entire river
14 all the way from about Portage Creek, which is at the
15 mouth of the canyon, all the way down to the headwater --
16 or not headwaters, the mouth of the Susitna.

17 I pretty much follow the fish as they migrate up.
18 And I've seen a great reduction of those fish over the
19 years. I used to have a silver run that would come into
20 my upwelling, that would -- it'd tail on around November.
21 That run never comes in anymore. And I believe that
22 somebody here already mentioned the fact that the biomass
23 out in the ocean is being affected more than the man is
24 affecting the streams in our Susitna.

25 I believe that the dam will pencil out in terms

1 of where our fossil fuel was going. I don't like fossil
2 fuel; i just don't. I believe that the hydroelectric is a
3 good, efficient resource, if properly managed. I do have
4 concerns about the winter flows though because that winter
5 flow will affect my upwelling and will affect all of those
6 tributary streams coming into the Susitna.

7 Will it go up and will it come down at two feet?
8 Or will it stay at a steady 2 feet? Do we have that
9 answer?

10 MR. TURNER: It's one of the things we'll be
11 looking at in terms of their operations.

12 MR. ERICKSON: Well -- and one person mentioned a
13 seven-year study. I don't know if seven years is
14 required, but a study for the winter flow is imperative in
15 my view. But personally I think the dam would be an asset
16 in the summertime -- that river changes up and down in the
17 summertime. I've been up there when there's been
18 thousands of chums in a side channel stranded, because the
19 water's gone down.

20 And there's Mr. Grizzly out there, and he's fish
21 -- he's having a great time. So the river changes, that's
22 a given. In the summertime -- one thing that I do know,
23 is that we'll have a green water stream from the canyon
24 all the way down to the confluence of the tri-rivers.
25 From there those nutrients will start coming in, again,

1 and there won't be a total loss in nutrients I do not
2 believe. I don't know about the nitrogen issue.

3 The overwhelming nitrogen coming into the streams
4 because of the dam. I'm not informed on that. That's all
5 I have to say. Thank you.

6 MR. HARRIS: Hello. (Speaking Native tongue.)
7 The greeting comes to you from before the flood. We don't
8 have stories from the flood down; we have stories when the
9 oceans were 200 feet below where they are now. My name is
10 Tom Harris. Thank you. For IRA purposes. How many
11 members of the Ish tribe here? Raise your hand; Ish
12 tribe? No English here? English? Irish? Frankish?
13 Scottish? Polish?

14 You are also tribal people. And our people
15 recognize you from before the flood. We recognize the
16 word ish, as Ira, son of Ish. Engel, son of Ish; grandson
17 of Ish. All these family names. So when we talk about
18 how this world works and stories, it's not from one
19 lifetime, it's not from two lifetime; it's millennium
20 generations. We have names for places that are now under
21 the ocean. We have stories that occurred there.

22 And there are salmon there, and so forth. We
23 want you to know that you are stronger than you think.
24 It's important that when you look at this world, you don't
25 look at it in one microgram; you don't look at what's

1 happening right now. That you look at it over the cycles
2 of many cycles. Many of you are studding Mayan; studying
3 what's happening there.

4 We ask you to broaden your mind to understand
5 what's happening. There's been a lot of discussion on the
6 importance of fish and salmon, yes, believe us. And we've
7 heard that it's a lifestyle. Do you know as an example
8 that you are the fastest growing Native community in the
9 state? Do you know why those people are leaving their
10 homes? For the same reason that was said here; they can
11 no longer feed themselves from their land.

12 They can no longer feed themselves from their
13 land. So they're coming here. At this moment in time,
14 this community, the Native community, is the largest
15 minority voting block in this community, and growing
16 larger day by day; within 24 months there will be an
17 additional 400 showing up here, living here. Some of the
18 other things we would ask you to be aware of is to open
19 your eyes as to what is happening in the planet and
20 wildlife.

21 How many of you know that Alaska's the least
22 productive wildlife state in the nation? Okay. We heard
23 somebody here from Michigan. How many know that Michigan
24 outproduces Alaska in -- to -- wildlife a hundred to one
25 on a per acre basis? A hundred to one. And it's one of

1 four states that do that. How many know that within
2 50 miles of Washington, D.C., more wildlife was harvested
3 than in all of Alaska? And it's an issue of management.

4 We are stewards; that means management. We know
5 the Setech River. You know it as natural; we know it as
6 managed. We have the stories of one that was managed and
7 how it was managed. There was a process you call "moist
8 air incubation systems." Moist air incubation systems are
9 designed recently based on technology derived from the
10 stories of Elders.

11 You know, for those of you who are in the
12 Ketchikan, you know that downtown Ketchikan there's a
13 totem called the fog women pole. That is the story of
14 moist air incubation. From time and memorial. We
15 encourage, that as we look at these projects, that we
16 don't advocate to the experts. Some at fish and game;
17 some at Fish and Wildlife. We don't abdicate to them the
18 management of our resource. It is ours as a people.

19 And we celebrate the fact that 49 states have a
20 better wildlife production rate than we do. Because that
21 means there's hope for us. What we've got to do is follow
22 that path and understand it. We don't have to copy it.
23 We just have to take what fits us. We're very concerned
24 that this last year with the moose die-off, that we're
25 going to see another catastrophe. From 2001 to 2008

1 Alaska lost 23 percent of its wildlife harvest, hooved
2 wildlife harvest, documented by Department of Fish & Game.

3 No other place in the nation lost that; no other.
4 So as we look at projects like this, we can't blame the
5 project -- this project for the loss of Alexander Creek
6 from 30,000 kings to 800. Can't blame them. That's us.
7 Sometimes that's jet boat operations; sometimes that's
8 other. But we can learn from the past and rebuild that
9 resource. But it's up to us. It's up to us as a
10 community to examine it.

11 You've done terrific research from what I've
12 heard today about all the bad things that could happen.
13 There are lots of opportunities for all the good things
14 that can happen. I'm here as an agent for Kinikata. And
15 they are preparing for the largest community -- Native
16 community in this state. And the subsistence foods that
17 they need to feed themselves and feed their families.

18 We are looking at those models; and saying, "How
19 can we bring that model back to Alaska?" We know from
20 research that was done here recently, that 67 acres of new
21 habitat can create a 20-fold increase in moose harvest on
22 47,000 acres. What can we do with salmon? Remember the
23 sea tech, with its two kings -- two steelhead runs and all
24 the other species that run, you count as natural; we know
25 that it was managed. And we encourage consideration of

1 these resources.

2 We encourage you to look at -- beyond this
3 generation. Look at the multiple generations. Look to
4 the millennium. Look to what's happening outside. There
5 are opportunities here for us. I'm reminded of two
6 salesmen, both arriving in Africa, steamship days. First,
7 they were both selling shoes for competing companies.
8 They run off the boat and look around, and immediately run
9 to the telegram office. First one says, "I'm on the next
10 boat back; nobody wears shoes here." The next one sends
11 the message, "I'm staying here, send two boatloads of
12 shoes; nobody wears shoes here." Okay.

13 So if we're in the land with no shoes, what do we
14 do? So I'm not willing, nor are we as Alaskan Natives,
15 willing to abdicate this. We ask you as the tribes of
16 Ish, please don't advocate this. Let's find a way to be a
17 part of nature and make it work as our ancestors, in both
18 the tribes of Ish and the tribes here have shown us in the
19 past. Thank you.

20 MR. TURNER: Is there anybody else that would
21 want to make a comment?

22 MR. SMITH: I didn't mean to speak or raise
23 ruckus. I don't have any credentials. I mush dogs
24 from -- Bud Smith. I mushed dog from Great Slave Lake to
25 Nome, and from Barrow to Valdez. Anyplace there was

1 enough snow that stayed long enough. And I don't know --
2 there's a lot of -- a lot of talk about -- there are
3 people that are getting so -- so prolific that they're
4 coming out of the ground, yeah.

5 I think that's probably got to stop. If you have
6 a food supply that's limited, and sooner or later
7 everything is going to be limited. So I don't think that
8 -- that enters into it much. I don't think that our --
9 our economy is kind of not really real. It's based on
10 something that belongs to season. And I think that
11 there's all sorts of ways of solving the fish problem.

12 Maybe one of them is to go ahead and build the
13 dam, and then we'll have -- we'll probably have a whole --
14 the best pike fishing in -- in Northern America. That's
15 for all that -- that ground up above the -- all the way up
16 to Tyone Lake into Lake Louise, Susitna, Tyone. All that
17 stuff up in McLaren, all over. And you guys that make a
18 lot of money, compared to me, or what I ever made, you can
19 have -- you can find a -- a big corporation that's willing
20 to chop them pike up, and can 'em; and you could probably
21 find a pencil-pushing job that would pay you in that
22 corporation.

23 I'm pretty sure you could. You look like kids
24 that could get along. The only thing is, you'd probably
25 go back to some center of population when it gets pretty

1 rugged to live up here. And then -- then you'd forget
2 where the fish did come from, and it wouldn't matter to
3 you. But there's -- there's an alternative, and that word
4 is used enough and not understood enough.

5 I was reading in Farm Show about all these
6 different farmers and entrepreneurs who do little things
7 like -- well, they -- some of the things they used to do
8 was paint their -- their panel -- or their SUV with
9 flowers and burn Crisco -- or burn doughnut oil and go
10 around and see how -- show us how easy it is to burn oil
11 in our diesel.

12 But Farm Show now has a lot of entrepreneurs that
13 are using little solar collector and that at the bottom of
14 it they got a little hydrogen tank that is produced from
15 the solar collector. And they -- some of them strap them
16 on the back of their tractors, and some of them just use
17 it for their generator, that they electrify their whole
18 farm with. It can be done on a large scale like that or
19 -- or one guy took a three-quarter-ton pickup and a
20 wood-burning gasifier, that wood gasifier. And -- well,
21 two of them actually.

22 He put one on his truck, he put one on his
23 trailer behind him, behind his truck; he loaded up from
24 the lumberyard a full load of -- on the truck and a full
25 load on the trailer, just the scrap ends. He went

1 7,000-some miles with that stopping and gasifying oil that
2 he ran through -- gasifying gas that wood that he ran the
3 generator with to give demonstrations of how it would
4 produce electricity. And you can -- every one of us can
5 -- can do that.

6 If you want to get on the Web you can find out
7 how to make a gasifier; you can get all the plans free,
8 and you don't have to do nothing with it. All you got to
9 do is that -- promise that if you come up with something
10 good, that you'll give it back free so that everybody can
11 use it. And everybody -- somebody said something about,
12 they're not gonna -- you know, they're not gonna -- that
13 you see all those people in Anchorage who aren't going to
14 have a -- go out here and have a place to put a cabin;
15 they don't need to.

16 There's all sorts of things that you can. I've
17 lived on solar. I've lived without solar. I lived on \$10
18 worth of white gas in a month for three years. And
19 everybody can do it. We can't all live on -- now, the guy
20 that was talking just a little bit ago about managing our
21 resources; he's right. Norway has three times as many
22 moose as we do, and they don't even kill them with cars
23 much. But we could do it up here.

24 We could loosen up -- we could have a good
25 economy raising moose. Everybody could have -- industry

1 doesn't have to be something that you don't do any work
2 for; that you don't sweat for. It can be something that
3 you can do in your own house. You can add value to
4 anything. And you can make a living adding value. You
5 don't have to go back to New York or wherever.

6 And everybody can -- in a single way, in their
7 own household, whether it's through solar or a little
8 windmill, that our gasifier that burns wood, garbage -- or
9 garbage; or cities that are supporting themselves, energy
10 wise by taking what used to go into the sewer and burning
11 it. It's really happening; if you close your eyes to what
12 -- and how much you can make. Because you only need so
13 much. You don't need an awful lot.

14 You can only sleep on about piece -- about 6-foot
15 long and about 3-foot wide. And everybody deserves to
16 have that, and everybody can have a hell of a lot more
17 than that right now; but not in 50 years; if we keep on
18 like we are. If we keep on doing this artificial thing
19 from New York and from -- now, there's nothing wrong with
20 -- everybody has to have a pencil. You can't figure
21 nothing out without a pencil; especially when you get my
22 age.

23 But if you don't do everything by pushing
24 pencils, and have this false economy, totally false, I
25 don't know what -- well, I don't -- I guess I better not

1 get into -- and -- but I've gone too far already. I think
2 that we just need to look at life and enjoy it and work
3 for what we got, by really doing some work and thinking;
4 and if we do that, we can all come out with our own power.

5 And we all come out with -- in a few years, with
6 enough to -- right now the technology is available for us
7 to burn hydrogen using the -- a boron solution with it.
8 That makes it safe, and it's somewhat -- somehow the
9 patent must have gotten bought; because all of a sudden it
10 went out of sight. They had -- they had it all laid out,
11 how everybody could be doing this burning water in their
12 car; and this -- I guess this is just a year or two ago.

13 And they had it laid out how you can have the
14 service stations collecting the used boron to send back to
15 the bulk plant where they put the -- put it in water or
16 where they recombined the boron so that it -- with their
17 solar collectors; so that it can be used; and then they
18 give it to you in your car again, when they pump it into
19 the service station.

20 There's no end to what we can do with your minds
21 and a pencil. If we do -- if we work it in the right
22 direction. Now, I don't know -- I'm all for this dam if
23 -- if the first thing they build is a fish ladder that
24 works where the dam is gonna be. If they start from the
25 bottom, the bottom of the river, and they prove that they

1 can -- that they can put salmon up there through a fish
2 ladder, enough fish ladders -- I've looked at -- I've
3 looked at the king salmon -- the hatcheries. They don't
4 work.

5 You go up on the upper Columbia and you find in
6 -- in the little offshoots, and you'll see these dams that
7 -- where they're having the fish hatcheries right there in
8 the dam. There's a lot of sick looking kings there. King
9 salmon. There was a -- it just doesn't really work that
10 good. This -- the whole planet is built to do something,
11 and -- or do something that we probably can't figure out a
12 better way to do it in just a few hundred years like we're
13 saying we can.

14 I think the earth does its own thing its own way,
15 and we've got to live with that. On the Indian
16 reservation, Klamath Indian Reservation, when I was a kid
17 there was -- it was like a paradise. They had no hunting
18 rules. Nothing like that. There were fish all over. And
19 it -- and the reservation wasn't overpopulated. Except
20 some thought it might be overpopulated by white guys, but
21 it was -- it was really not that dense.

22 They didn't -- they didn't live on just money.
23 And when you put an animal in a population and you let it
24 breed, and you don't restrict its feed, but you keep
25 bringing in artificial feed; it doesn't have to be good

1 feed. If people can live on -- well, anybody can live --
2 any animal, any rat, can live on carbohydrate or maybe
3 potato chips, whatever. And they can breed on it.

4 And you keep putting stuff into the -- into the
5 system, the mouths of all the people and all the animals,
6 they'll all keep procreating until they just can't --
7 until you cut the food off. And then the population goes
8 back down. We -- that's -- that's the problem. But you
9 ain't going to solve it by stopping the dam, but you
10 should do the dam so that we don't stop the earth.

11 MR. TURNER: Thank you.

12 MR. WITT: My name's Cory Witt. And I'm a civil
13 contractor here in the Valley. And I've done a lot of
14 research on this dam, and I've read through -- R & M
15 Consultants is the one who pretty much put this together
16 for Alaska Energy Association. And we're pretty much
17 selling this dam as a \$4.4 billion dam, off of 2009
18 numbers. If you read through their 200-page geotechnical
19 report, they have a section in there which they have a
20 billion dollars set-aside just for a contingency on this
21 project.

22 So I would kind of like for the State of Alaska,
23 and whoever else is going to help fund this dam, to kind
24 of give us an honest opinion on what this dam is actually
25 going to cost. From what I can see, there's a couple

1 other issues involved in this; is that, you know, as our
2 -- as our United States is going through a recession and
3 we're talking about buying all American-built products,
4 nothing on this dam is American built.

5 The steel is not American built; the fly ash is
6 coming from overseas; the concrete comes from overseas.
7 And I just don't understand why we want to invest in a
8 project that's not giving back to -- you know, this kind
9 of dollar given back to our communities. Right now we
10 have another big project going on up north for the Salt
11 River -- the Salt River project.

12 There's another almost -- what is it now? Almost
13 \$300 million we're spending on that, and it's all Chinese
14 steel. It's not even American-built products. I mean, if
15 we're going to look at this dam and be realistic about it,
16 let's put an American-made stamp on it. I mean, this is
17 what they did when they built all the dams back in the
18 '50s. They put that stamp on it, because that's what we
19 represented back then; it was, you know, American built.

20 My other issue is; that this is going to be the
21 tallest roller concrete compacted dam built anywhere in
22 the world. And we're going to build it in our backyard.
23 And who has the qualifications in our state to build
24 something of this kind of structure in our backyard?
25 Well, right now, the only one who they're looking at is

1 Kiewit. And Kiewit might be able to do that.

2 But on the other hand, this is sitting on a fault
3 zone that has earthquakes up there all the times. You
4 read through their geotechnical report, it says right
5 there in their geotechnical report, that this is a
6 concern, to the consultants are writing this in there;
7 this is a concern. So a 7.3 earthquake could crack that
8 dam. Plus it's a roller-compacted concrete dam, which are
9 known to leak anyway. So now we're -- we're not even
10 using a hundred percent solid concrete on this dam.

11 Why? Because we can't afford to do it that way.
12 We can't afford to move the earth -- to move it as an
13 earth dam, so this is going to be the most feasible
14 possibility, is with this roller-compacted concrete. Yes,
15 this has been a great thing since the '80s roughly; and,
16 yeah, they do have some 200-foot dams in the Lower 48;
17 which is great. But we're talking like 780 feet at
18 finish.

19 I mean, we're three times the size of any other
20 dam in the -- in the northern hemisphere are -- in the
21 U.S., that has built something to this size. And I think
22 that's all stuff that needs to be looked at and addressed
23 prior to us just keep on handing out money to people and
24 saying, "Okay, that's a great idea." I mean, we're
25 spending tons and tons on Alaska Energy to put together

1 all this, and put all their fancy fliers together, but
2 there is facts behind it.

3 I mean, I want to know how safe we are. This is
4 in my backyard. If this dam comes down, this wipes out
5 everything all the way to Anchorage. I mean, this is --
6 this is a no joke thing. I mean, we need to have a handle
7 on, you know, what happens if this does break. I mean, we
8 need to have some kind of contingency in line or, you
9 know, what-ifs.

10 I mean, when they did the report in 2009, like I
11 said, if you read -- it's online, if you read their
12 geotechnical report. They have earthquakes up there about
13 every three days. You know, from all kinds of magnitude
14 earthquakes; that's concerning to me. Just on a
15 structural basis on -- on, you know, what -- what could
16 happen with this dam. That's just some of my concerns I
17 have, and I appreciate your time. Thank you.

18 MS. FREID: My name is Beth Freid. I am a member
19 of a lot of things, but I'm affiliated and representing
20 anybody but myself right now. My mom and I have owned an
21 80 percent passive solar home for 30 years. We have -- 10
22 years ago we installed the solar converter, so that we
23 could sell power back to the State of California. Now,
24 Mom's bills instead of \$400 a month for electricity;
25 they're \$200 a month for electricity.

1 But they don't let you build anything in
2 California to generate more electricity. And so her bills
3 aren't going to go down any time soon. There's a lot of
4 sun on top of her mountain, and we could probably replace
5 the power if we covered the mountain with solar panels.
6 Wind is not feasible. Although there are a few windy
7 days, we can't use windmills on our mountain. We have
8 redwood trees all the way around, and we prefer to keep
9 the redwood trees than put in windmills.

10 The Railbelt utility structure is the spine for
11 our home to stay lighted and heated. Whether or not we're
12 heating them with natural gas right now; the electricity
13 allows everything to stay online. It is becoming
14 marginal. MEA is going to put in \$10,000,000 worth of new
15 generators and build a whole new plant, I can't remember
16 how much it is. And it's still not going to provide us
17 with enough power, if there's natural gas to feed the
18 generators.

19 This is the only renewable energy source that we
20 truly have in Alaska, besides wind. The only place I've
21 ever been where there's as much wind as there is in
22 Palmer, is Palm Springs, California. They have a massive,
23 massive windmill generation area in the middle of town.
24 During the week that I was in Palm Springs, in the windy
25 part of spring, driving by the windmills every hour of

1 every day, I maybe saw 25 percent of those windmills
2 functioning, maybe.

3 The only time that the windmills are functioning
4 all at once, is one percent of the time. Wind doesn't
5 work yet. For 30 years I've been investing in passive
6 solar for my home; active solar for my home. We can't use
7 windmills; we're doing solar conversion. It -- we're
8 still paying \$200 a month in electricity in California.
9 This is my mother's home, not my home; but, you know, I
10 own a half of it.

11 Nobody can afford -- nobody I know can afford the
12 \$10,000 we put into maintaining this property every 10
13 years. I want to know one person in this room that puts
14 \$10,000 a year into -- every 10 years; a thousand dollars
15 a year just to maintain the energy for heating, cooling,
16 and boiling water, and taking a shower. I'm sorry, no,
17 no, no. Just for the heating and cooling. I'm not
18 talking about decks and the roofs and the walkways and the
19 windows and the doors.

20 I'm talking about just maintaining the energy in
21 your home. Not many people do that. My mother does it.
22 We need a stable energy source that will continue to go
23 on. We have the regulation to check and find out. Are
24 there going to be too many earthquakes? Is there a way to
25 mitigate fish? I'm asking you, don't stop the process

1 until you find an insurmountable obstacle.

2 We need this energy going up and down the current
3 communities that we have. We need the businesses that are
4 active right now to maintain their activity. Because
5 Mr. Harris is right. The people in the remote villages
6 are moving into these central areas; they can no longer
7 maintain subsistence lifestyles. We need to keep the
8 fish. We need to keep the moose. People live off of
9 those here in our area, but don't stop researching this.

10 Don't stop checking the potential of it until you
11 come to an insurmountable point. This is something that
12 this community and this state needs in my opinion. And I
13 may not be as educated as I should be on this stuff. But
14 I do have 30 years of experience; and I know that there is
15 no alternative energy source beyond the ones we are
16 currently using that is mature enough to support our
17 current lifestyles, including my mother's Prius.

18 MR. TURNER: Any other comments? Well, if
19 there's nothing else I'll try to wrap things up real
20 quickly here. Just some reviews for -- appreciate your
21 extending all of your comments tonight. I think it was
22 somebody had said, I learned a lot; and I can understand
23 the passion and -- which you live here. It's in the
24 passion for the resources, and we're not going to take
25 those things lightly.

1 We've got a lot to learn and study yet before we
2 make any kind of decisions, and that's got a number of
3 years ahead in which to do that. But the first steps in
4 here is basically to get a good handle on the issues that
5 we need to be looking at. And you've given us some real
6 food for thought, and we're going to continue to do that.
7 But if there's anything else to come to mind, study
8 request and study comments are due April 27th, unless we
9 extend the time, which we probably will, to May 31st.

10 We'll be developing a study plan, or AEA will be
11 developing a study plan in which to address these issues
12 that you've raised tonight; that's coming out in June or
13 July. The study -- we'll have a number of study plan
14 meetings over the next 90 days to try to resolve those
15 studies and study needs. And those will come out and
16 ultimately result in a revised study plan produced by the
17 end of October or November -- or beginning of October or
18 November.

19 And ultimately a decision by the Commission on
20 all those studies in December or -- November or December.
21 Again, unless there's somebody else that has any other
22 questions or comments, we're -- that they want to make,
23 we'll adjourn the meeting.

24 MR. SMITH: Bud Smith. We're talking about
25 money, \$200 electric bill; with \$200 electrical bill for

1 10 years, you got \$24,000 to put into your solar.

2 MR. TURNER: Unless there is something else,
3 we'll adjourn the meeting; and again, thanks for your time
4 and your comments.

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