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UNITED STATES OF AMERICA  
FEDERAL ENERGY REGULATORY COMMISSION  
Office of Energy Projects

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Consumers Energy Company : Project No. P-2680-108  
DTE Electric Company : P-2485-063  
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LUDINGTON PUMPED STORAGE PROJECT

Comfort Inn & Suites  
7576 S Pere Marquette Hwy  
Pentwater, Michigan 49449  
Thursday, April 17, 2014

The afternoon scoping meeting, pursuant to notice,  
convened at 1:05 p.m., before a Staff Panel:

JANET D. HUTZEL, Project Coordinator, FERC  
AARON LIBERTY, Fish Biologist, FERC

With: DAVE McINTOSH, Senior Licensing Engineer,  
Consumers Energy

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C O M M E N T E R S

DICK UNDERWOOD, resident 21  
TAMMY NEWCOMB, Michigan DNR and Great Lakes Fishery Trust 30  
TERRY WAHR, Zoning Administrator, Pere Marquette Township 36  
JIMMIE MITCHELL, Little River Band of Ottawa Indians 41

## 1 P R O C E E D I N G S

2 MS. HUTZEL: Hi, my name is Janet Hutzel and I'd  
3 like to welcome you to the Ludington Pumped Storage Project,  
4 the scoping meeting for the project.

5 With me is Aaron Liberty. He is our aquatics,  
6 and I am the Project Coordinator; I will also be doing the  
7 recreation, land use, and aesthetics and cultural resources  
8 for the relicensing.

9 We have a little housekeeping. I'm pretty sure  
10 everyone did, but in case you did not, please sign in the  
11 back; that lets us know who has attended.

12 We have a court reporter with us today, so  
13 everything will be put into the public record. If you have  
14 any comments or would like to speak, we would ask that you  
15 please go to the podium so that the court reporter can get  
16 everything that you say; and that if there's something, some  
17 scientific names or something that has an unusual spelling,  
18 or unusual words, can you spell it out for him.

19 And also, just speak clearly, and also say your  
20 name and affiliation if you decide to talk.

21 This is our agenda for the meeting. We're going  
22 to go over a basic overview of the Integrated Licensing  
23 Process. Consumers Energy Company and DTE Electric Company  
24 are going to do a project overview. We're going to have the  
25 purpose of scoping, we're going to go over the scoping, the

1 issues that we identified in our scoping document. We're  
2 going to go over a request for any additional information or  
3 study. I'm going to talk about moving forward in the ILP,  
4 and then we'll have questions and comments; and then  
5 Consumers Energy and DTE have a photo tour of the project.

6           A little bit about the Federal Energy Regulatory  
7 Commission. We are an independent federal agency; we do  
8 regulate interstate transmission of natural gas, oil,  
9 electricity; we also regulate natural gas and hydropower  
10 projects.

11           I am with the Division of Hydropower Licensing,  
12 so is Aaron. We also have our Division of Hydropower  
13 Administration and Compliance, and our Division of Dam  
14 Safety and Inspections.

15           When we issue a hydropower license, it is for a  
16 minimum of 30 years, up to a maximum of 50 years. And we  
17 have about 2,600 projects that are licensed or exempted  
18 throughout the United States. There are four reasons that a  
19 hydropower project has to get a license; either located on a  
20 navigable water of the U.S., located on public lands or  
21 reservations of the U.S. such as a Corps dam or U.S. Forest  
22 Service lands; utilizes surplus water from a federal dam  
23 such as a Corps project; or it affects interstate or foreign  
24 commerce.

25           The Ludington Pumped Storage Project is entering

1 the Integrated Licensing Process to go through their  
2 relicensing, and it is our default process. It is different  
3 from others too, because FERC staff gets involved early;  
4 they filed their NOI and PAD, Preliminary Application  
5 Document in January, and we are having scoping now. In our  
6 other processes scoping would be held after they filed their  
7 license application.

8           Also, key to the ILP is the process plan and  
9 schedule. That is found in Appendix B of the scoping  
10 document that we issued about a month ago. That is the  
11 dates by which everything is due, or everything has to be  
12 filed. These dates are pretty hard and fast. So if you  
13 have comments, request for studies, that sort of thing, you  
14 have to make these dates.

15           We also have an early study plan development, and  
16 we will be talking about their proposed study plans; and if  
17 you have any suggestions or additions to the proposed study  
18 plans today. And if necessary, if there is some  
19 disagreement on the study plans, we have both informal and a  
20 formal dispute resolution. So ultimately, within less than  
21 probably six months, DTE and Consumers will have an approved  
22 study plan, and this is what they will do, this is what they  
23 will study for the relicensing of the pumped storage  
24 project.

25           And these are our milestones for the ILP. This

1 is also on our website, at [www.FERC.gov](http://www.FERC.gov). Right now we are  
2 at the -- Commission holds the concession meeting, which is  
3 No. 4. Comments on the PAD and the study requests and our  
4 scoping document are due, I believe it's May 21st. So  
5 that's a little more than 30 days from now.

6 Then also if we need to, we'll issue a Scoping  
7 Document 2, Consumers will file its proposed study plan,  
8 there will be meetings on the proposed study plan.  
9 Consumers and DTE will file a revised study plan. There  
10 will be a comment period on that revised study plan, and  
11 then the Exhibit will issue the study plan determination;  
12 these are the studies that Consumers and DTE will be  
13 required to complete during this study season.

14 Then Consumers Energy and DTE will be required to  
15 file a preliminary licensing proposal. After the studies  
16 are completed there will be a comment period that everyone  
17 can comment on that; and then they have to file their  
18 license application two years before their license expires,  
19 and once they file their license application, that is the  
20 post-filing milestones, which is the next slide.

21 And this is more than FERC-driven. We will be  
22 issuing a tendering notice, we will be asking for comments,  
23 preliminary terms and conditions from agencies or anyone who  
24 has an interest. We will issue our draft and final EA, and  
25 then the Commission or someone designated by the Commission

1 will issue an order either granting or denying Consumers and  
2 DTE a license for the Ludington Pumped Storage Project.

3 And I'm going to turn it over to Consumers, and  
4 let them talk about this.

5 MR. McINTOSH: I'm Dave McIntosh, I work for  
6 Consumers Energy, Senior Licensing Engineer, and I'll be one  
7 of the primary, focal contact points for the relicensing for  
8 the project. But there are a few other individuals in the  
9 room here that are going to be tied into the project.

10 Bill Scheinlein is the Manager of Renewable and  
11 Hydro Resources for Consumers. We have Dave Battige, who is  
12 over here; he's the Senior Engineer at the plant; he's  
13 pretty much our technical expert that we'll be relying on  
14 for information. Ken Squibbs over here is also with  
15 Consumers; he's the overall project manager for the  
16 relicensing effort. Brooke McTaggart here is with our land  
17 management group. She'll be working primarily with land  
18 management issues and recreation. From DTE we have Jim  
19 Musial and Nader Rajabian, who sitting here on the side  
20 table, And then we also have a couple contractors helping  
21 us with going through the ILP process; and that's Rita  
22 Hayen, from PRC, and Mike Hreben from Kleinschmidt  
23 Associates.

24 A little history of the plant. Consumers started  
25 working on the, actually the feasibility of the plant,

1 various stages in the black here; but January 1959 is when  
2 the feasibility studies began for the project. 1961,  
3 Consumers and DTE started purchasing the land for  
4 construction; and in 1969, actually, the design was begun in  
5 1967; 1967, construction in '69.

6 A few other milestones; the first turbine was  
7 delivered in 1970, September. the switchyard completed in  
8 August of '72, and the first unit went into commercial  
9 operation January of 1973, and the final unit came on in  
10 October of '73, and then later on recreation facilities were  
11 completed in 1974.

12 The original license from FERC was issued in  
13 1969, and it was for a 50-year license period. and we go  
14 until, I think it's June 2019.

15 During the history of the plant operations, six  
16 units have been overhauled once in their history. Unit 4  
17 was first, which occurred in 1987, and then the remaining  
18 five units scheduled overhaul that occurred between '92 and  
19 '96.

20 Currently we are doing a major upgrade on all six  
21 of the units, with No. 2 unit being the first, and that  
22 started November of this year. There is one upgrade  
23 scheduled for each of the next six years. One of the key  
24 points of the upgrade is the original cycle efficiency is  
25 being increased 72 percent to 77 percent. We're getting a

1 capacity increase of about 50 megawatts per unit, 300  
2 megawatts total for the project.

3           One of the big reasons to go to the upgrade is to  
4 extend the periodic outage frequencies from two to three  
5 years, and also that will reduce the outage length from 28  
6 to 20 days. Also it will provide a little more flexibility  
7 in the reservoir operations, taking this from consideration  
8 of any units; they all will have more flexibility.

9           A few interesting aspects. The project is co-  
10 owned by Detroit Edison and Consumers, with Consumers owning  
11 a 51 percent share. With that 51 percent share we do  
12 primarily most of the operations and maintenance and also  
13 the licensing aspect of the project.

14           Currently the name plate capacity is 1,872  
15 megawatts. And over the last ten years the annual  
16 generation has averaged just over two hundred and a half  
17 million megawatt hours. The reservoir is a completely  
18 man-made reservoir; it will hold 27 billion gallons of  
19 water, and the upper circumference is 5.7 miles around.

20           The original units were built by Hitachi, and  
21 they are some of the largest units of that kind in the  
22 world. The current pumped turbine has a diameter of 27 feet  
23 and it weighs about 320 tons. The motor generators are 60  
24 feet -- 68 feet in diameter, and they are also considered  
25 one of the largest motors in the world.

1           The elevation of the pond is 363 feet above the  
2 normal lake water, Lake Michigan; about half the height of  
3 Hoover Dam. Early in the plant's history there was a lot of  
4 concern with fisheries entrainment; and one of the big  
5 issues that was resolved during the early years was the  
6 design and insulation of the seasonal barrier net.

7           We have a portion of the net back there if you  
8 want to look at it; it's a sail -- what actually goes into  
9 the lake. 62 panels, the full length of the 12,850 feet, in  
10 one of the pictures you can see the net.

11           Usually the net is installed by April 15th. This  
12 is a pretty unusual year, with all the ice that was out on  
13 Lake Michigan -- in fact, I don't think they cleared the  
14 tailrace area until yesterday, as a matter of fact. So we  
15 couldn't get the boats out, we don't want to put the net in  
16 the water with the ice out there; it will destroy the net if  
17 it comes floating by, so we've delayed its installation --  
18 I'm not sure what the actual new installation date is, but  
19 it should be pretty soon with the lakes cleaning out.

20           MR. BATTIGE: We're hoping that weather  
21 cooperates to start next Monday.

22           MR. McINTOSH: Oh, next Monday we should start  
23 doing the installation.

24           It's one of the largest barrier nets that gets  
25 deployed, designed to specifically exclude the target

1 species from getting into the tailrace area and potentially  
2 being drawn into the reservoir to the falls.

3           From the benefits of a pumped storage project,  
4 the pumps are usually operated in the evening hours and on  
5 the weekends, taking advantage of lower cost electricity in  
6 the off-peak hours. Lower demand, too, in those periods  
7 provides a place for the big power plants to put their  
8 energy. Big coal plants, they don't like to cycle up and  
9 down very much with load, so Ludington absorbs a lot of  
10 power, and basically stored up in the reservoir.

11           Units are dispatched as generators during periods  
12 of high demand. Consumers typically will dispatch three  
13 units on our demand needs, and DTE has their different  
14 dispatch schedule. They will dispatch three of the other  
15 units.

16           The units provide essential services and support  
17 the electric grid reliability, supply regulation, quick  
18 start; the units can come on line. I think we can go from  
19 coal to full operation in less than 20 minutes.

20           MR. BATTIGE: 20 minutes; all six.

21           MR. McINTOSH: That's all six units at full  
22 power.

23           They do provide some spinning reserve, and  
24 they're also a black start facility; so we don't need any  
25 offsite power available to get the units up and running.

1           The LPS help support the increased amount of  
2 grid-connected renewable energy; the effective regulation to  
3 balance the intermittent renewable generation; the wind  
4 turbines, for instance; they don't necessarily generate 24  
5 hours a day. They do generate a lot at night when demand is  
6 down, so that electrical generation will be started.

7           And Michigan's Energy Reform law provides the 1/5  
8 Michigan Renewable Portfolio Standard for Renewable Energy  
9 Credits, generation from the water stored in the reservoir.

10           A little cutaway. Basically what's happening.  
11 Basically what we'll do is we'll take water from Lake  
12 Michigan, we will pump it up through the penstock and  
13 deposit it in the Upper Reservoir through the intake  
14 structure during the off-peak hours. And then when you want  
15 to generate the electricity, you just reverse the flow,  
16 comes back down the penstock, goes to the turbines, and then  
17 the electricity generates and the water goes back into Lake  
18 Michigan.

19           I believe the turnaround within the lake or the  
20 impoundment is about a couple days, maybe two days. It's a  
21 very short turnaround, turning over the water in the pond;  
22 so it doesn't really stay up there very long.

23           Here's a little cutaway of the plant itself, a  
24 little more graphic of the plant; it's also reproduced in  
25 the back, if you want to take a look at it.

1           Basically, the pump, pump motor sitting here; you  
2 can see a little bit of this from all the plant -- most of  
3 the plant itself is below lake water level. Here is a pump  
4 turbine here, the penstock is coming in and the associated  
5 electrical components are there.

6           A little closer up picture of one of the units  
7 itself; you've got the motor generator up in here; the shaft  
8 is not in color; the spiral case that brings the water in  
9 from the penstocks and the impoundment, and then it just  
10 starts shooting together; directly down into the tailrace  
11 area.

12 draft tube out into the tailrace area.

13           Spiral case diameter, maybe 15 feet 20 feet?

14           MR. BATTIGE: It's 24 feet where it connects with  
15 the penstock, and then narrows down at the end to maybe 12  
16 feet.

17           MR. McINTOSH: Very, very big pieces of  
18 equipment.

19           Some of the items that are being worked on during  
20 the upgrade -- doesn't show up well on the color on this --  
21 the greenish items are being replaced, which are the motor  
22 generator, the thrust bearings and the pump turbine runner.  
23 A lot of things are being inspected also; typically the main  
24 shaft, spiral case, and draft tubes, and then some items are  
25 just being refurbished; you've got the guide bearings up

1 here being refurbished, and also the wicket gate and stay  
2 vanes down here that actually control the water into the  
3 units themselves, are being refurbished.

4           This is an aerial view of the project. The main  
5 project is here in Ludington; you can see the impoundment.  
6 The dotted line that you see here, that's the actual  
7 official FERC project boundary. We also have a satellite  
8 recreation facility that's down at the Port Sheldon area,  
9 which is basically a parking area and walkway out to fishing  
10 at Lake Michigan.

11           This depiction also kind of shows a rough outline  
12 of where the barrier net gets deployed, and the area around  
13 it. The breakwaters and the jetties come up to here, so  
14 it's supposedly a tighter area in the dam water.

15           Just have a few pictures here of some of the  
16 items tied into the project. First one is, this is the  
17 upper overlook, the pagoda building is what it's called.  
18 This is at the top of the impoundment. Accessible through  
19 one of the recreation areas. Gives you a big, broad vista  
20 if you go over, across the impoundment.

21           From there you can also see the intake structure;  
22 this is where the water comes into and goes out of the  
23 impoundment, to the penstock, down to the units. The access  
24 bridge that connects from the driveway around the  
25 impoundment out to the structure.

1           View of the powerhouse with, it's showing some of  
2 the newer construction that's occurred. Here is Unit 1 then  
3 we go down to Unit 6, that view from the north. Bar jacks  
4 in this area, here are some of the new warehouses. Get into  
5 it a little bit more in the discussion, as we get into the  
6 photo tour of the plant.

7           This area in here, this little trapezoid, is  
8 where the penstock is coming in from the impoundment. This  
9 is the bridge, driving over the penstock area.

10           Here is just one view of the walkway, along the  
11 lake area, out to the pier. This is just a view of the  
12 project from Lake Michigan. Here again, the intake  
13 structure and bridgeways up in here. This is the penstock -  
14 - come down. The operating pier, this is one of the new  
15 cranes, and then this is the deployment, what you can see of  
16 the barrier net as it's deployed.

17           Some of the infrastructure improvements that we  
18 have completed before we went into the major upgrades; they  
19 had a 350-ton crane, made to lift things called a gantry.  
20 For the upgrades, we needed to go to a dual crane system,  
21 with each having a capacity of 410 tons. That's primarily  
22 to lift up the rotor for the stator. The stator is being  
23 replaced, so the new stator required much more lifting  
24 capacity.

25           Two new fabrication buildings for our people on

1 the north, one on the south side in the powerhouse area. To  
2 get the heavy componentry into the north warehouse, they  
3 just send the crane around. Get the equipment out there so  
4 they can work on it. And then we also rebuilt the existing  
5 boat dock to allow the barges coming in, large parts were  
6 coming in on a barge, so we needed to have a facility to  
7 off-load them. During the original plant construction, they  
8 were actually off-loaded up north of the project and then  
9 trailered down on one of the dirt roads that I think are  
10 still there.

11 MR. BATTIGE: The haul road there, it's mostly  
12 abandoned.

13 MR. McINTOSH: So here's another picture, a  
14 picture of the north fabrication shop, to support the loads  
15 in the -- and sea wall here, so we didn't push things out  
16 into the tailrace.

17 The new cranes, this is the installation of the  
18 northern crane as it went up; the existing crane is way in  
19 the background there. These were erected on site.

20 This is the south fabrication shop, over here,  
21 the big building here.

22 And that picture of the new barge landing area,  
23 and this happened to be taken when the runner for Unit No. 2  
24 was coming on site.

25 We also needed to revise the access into the

1 plant. The original guard shack was a little -- it's the  
2 very small building that the guard sat in. Ingress and  
3 egress out of the plant was pretty constricted, to two land  
4 roads. We went to our new building, and we got access on  
5 what would be the north side, and then on the south side,  
6 the egress out. So we split the flow between the, either  
7 side of the building.

8           Here are a few pictures of some of the new  
9 components. This is the Unit No. 2 runner, over in the  
10 fabrication shop in China. That is being completed.  
11 They're also doing the work on the Wicker gates, providing a  
12 new set. So if we can install a new set on Unit No. 2; take  
13 the old ones out, have them refurbished so they can go into  
14 the next unit that's in line for upgrade.

15           And then the picture in the upper right is the  
16 main shaft out of Unit No. 2 after it was taken out, and  
17 this is one of the fabrications we're doing on site.

18           Here are a couple pictures of the stator being  
19 constructed onsite. Placing the sealed panels, and then the  
20 coil is run between here and this is the outside of the  
21 frame.

22           This is actually going to be lifted in as a  
23 single piece, which is why we went to the dual crane system.

24           Some of the other work we're doing, where the  
25 water comes in to the units it goes out the stay vanes that

1 are being modified. Earlier, we were refurbishing and  
2 modifying the wicket gates. The field poles are being  
3 refurbished and reinsulated. New thrust bearing for the  
4 systems being put in. We're also refurbishing and rewinding  
5 starter motors for Units 1 and 6, that's the stator and  
6 rotors.

7           New motor-generator breakers, new starting bus  
8 breakers and switches, and new static exciters and voltage  
9 regulators.

10           Essentially, we're replacing a lot of the  
11 components in the facility. Probably 70 to 80 percent of  
12 all equipment is being upgraded.

13           So our proposed actions. We're not looking for  
14 any changes in how we operate the project; we're going to  
15 keep operating for peak demands, generate, and then pump  
16 during low demand.

17           Beyond the infrastructure improvements we went  
18 through earlier, and the overhauls-upgrades, there are no  
19 other plans on the books now for any more upgrades to the  
20 project. Continue to utilize and develop the existing  
21 seasonal fish barrier net; and we're going to continue to  
22 provide the operation and maintenance of the five recreation  
23 sites that occur in association with the project.

24           One other thing was, before we got into the  
25 upgrade project, we did a historical assessment of the

1 project itself, to determine if there's any historical  
2 significance to it; and from an engineering standpoint there  
3 is. So eventually, a culture resource management plan will  
4 be drafted, put together, and it will detail the steps that  
5 we're going to have to go through to get the plant listed on  
6 the National Register of Historic Places.

7 Janet?

8 MS. HUTZEL: Before we start, does anyone need a  
9 break?

10 (No response.)

11 Okay. Again, this is NEPA, the National  
12 Environmental Policy Act requires us to analyze any  
13 environmental effects due to the relicensing of the project.  
14 And eventually our environmental assessments, our draft and  
15 finals, we'll prepare our recommendations to the Commission  
16 as to whether to license or not license the project. And if  
17 we do license the project, the conditions under which the  
18 project would operate.

19 Scoping is the first step in the NEPA process,  
20 and that's kind of why we're here now. We want to get  
21 public input on our scoping document, and if there are any  
22 issues that you think need be address that we haven't.

23 In the scoping document, in Section 4.2 they  
24 identify the issues associated that we have identified for  
25 the project. And then also, the purpose of scoping is to

1 discuss any existing information and any of the studies that  
2 are proposed by Consumers and DTE, or if there are any  
3 studies that you think need be proposed.

4 Aaron, do you want to --?

5 MR. LIBERTY: My name is Aaron Liberty; I'm the  
6 aquatic biologist from FERC working on the project.

7 So what we're going to do now is, I'd just like  
8 to walk you through this Section 4.2 of the scoping  
9 document. Hopefully you all have got a chance to at least  
10 look through that scoping document prior to today. We  
11 brought 20 or so copies, so it looks like we've probably  
12 burned through those already.

13 At each of these resource sections, I'm going to  
14 open it up for comments. We typically keep these bullets  
15 fairly generic, and rely on stakeholder comments, input from  
16 the public, to help us refine those bullets. So again, at  
17 the end of each of these sections, I'll open it up, and if  
18 you guys think we've missed something, please let us know;  
19 if we hit the nail on the head, you can tell us that as  
20 well. But again, I'm for the aquatic resources and I think  
21 I'm also going to handle the terrestrial resources stuff  
22 here today, because unfortunately our terrestrial biologist  
23 wasn't able to make it; and then I'll hand it back off to  
24 Janet so she can continue.

25 So in that Section 4.21 in Aquatic Resources,

1 we've identified three issues that we'll be looking at in  
2 our NEPA document. The first one being the effects of  
3 accidental spills of oil, grease, lubricants, et cetera on  
4 water quality.

5           The second issue is the effects of project  
6 operation on water quality, particularly the DO, water  
7 temperature and turbidity in Lake Michigan, and the last  
8 bullet that we have identified is the effects of fish  
9 entrainment associated with pumping operations on fish  
10 populations, including state-listed species, in Lake  
11 Michigan.

12           Does anyone have any comments on those bullets?  
13 Did I miss something.

14           Could you come to the podium, state your name  
15 just so the court reporter can record everything. It's  
16 difficult for him to hear. Or maybe just stand up, that's  
17 fine, just state your name, just so he can hear you.

18           MR. UNDERWOOD: My name is Dick Underwood and I  
19 lived in Ludington all my life. Work on the lake shore all  
20 my life.

21           I've seen the change in the fisheries since the  
22 project came in. I'm not knocking Consumers power because I  
23 have fished within the plant many, many times. I have never  
24 saw a dead fish that I attributed to being killed by the  
25 running of the plant operation.

1           But what we have saw, since the plant has been  
2 built, the year that the reef was first put in we started  
3 having cormorants. And they continued, the population has  
4 continued to grow. Many years the state and feds did not  
5 admit that we had a cormorant population. Nobody knows how  
6 many birds we actually have. I believe they admit to around  
7 600 nests when they first admitted to it.

8           Last year they admitted to 34 nests. They shot  
9 cormorants at the project three times in May, June and July.  
10 They killed about 900 birds. That's from 34 nests and  
11 they're saying there are 68 birds. I have done bird counts  
12 down there, and I should have brought that -- (to wife:)  
13 Virginia, would you grab my thing, hand it to me.

14           I have counted cormorants down there a day or two  
15 after the fed shoot, counting only the top and on the east  
16 side as few as 1200 birds to as many as 1500 birds this past  
17 year.

18           I've been to a lot of meetings on the cormorant  
19 problem we've got. Ludington is unique. Cormorants are a  
20 problem around the state, but Ludington is unique, is that  
21 we only have the one rookery in this area of the state.  
22 Cormorants have to have an island or some they perceive as  
23 an island, like the reef or some lighthouses. That's the  
24 only places that they will roost, rest or nest.

25           The federal law says any man-made structure can

1 be taken to zero. The reef is a man-made structure. I have  
2 over there a petition that we put out, we have about 2,000  
3 names of other people who feel exactly like I do: We have  
4 lost our perch fisheries, and it's all because of the  
5 cormorant, and they're on the reef. Consumers is not the  
6 fault; I realize that they're a victim the same as the rest  
7 of the people who use this area, and I just think that there  
8 has to be something more positive done, like instead of  
9 shooting three times a year during the day, shoot at night,  
10 if necessary; use volunteers, dispose of the carcasses  
11 properly -- I'm not looking for a lot of publicity, because  
12 I know it hurts the images of all companies.

13           But something has to be done different than what  
14 we're doing right now. But in the end, I think what the  
15 Project has to do is to look at the fact of maybe putting up  
16 a couple bald eagle platforms, because -- they're not the  
17 perfect predator for the cormorant, but it is well  
18 documented, they do eat them. And between the shooting to  
19 get the numbers down, then if we had bald eagle platforms up  
20 there, maybe baiting with their carcasses, whatever it takes  
21 to get it started, maybe we could do without shooting at  
22 some point. I don't know.

23           I don't have all the answers, but I've been  
24 looking at this since the project was built, and it's not  
25 got any better. We have some places where -- north of

1 Manistee in their creel census, they have went 14 years  
2 without catching a single perch. Ludington used to be the  
3 perch capital of the state. The first few years they  
4 started doing a creel census, the DNR, they were getting  
5 close to a quarter of a million perch. In the last few  
6 years, four years, we have had a total, zero count of perch  
7 in Ludington, and this is how it has affected.

8           And I'm using perch because there is where the  
9 numbers are. These are what people see, and that's what  
10 counted. But the same thing goes -- I can show you pictures  
11 of stomach contents on how much they eat, the volume, the  
12 size of fish they eat -- people have no idea how much they  
13 eat. But they're using the Consumers power project, reef as  
14 a base.

15           I would answer any questions if I could, and  
16 that's about all I have to say, except I appreciate what  
17 Consumers power does. And I don't get my power from you.

18           MR. LIBERTY: You know, that might be something  
19 that could potentially addressed under our next section on  
20 terrestrial resources. Again, I didn't write these bullets  
21 for terrestrial resources and haven't even really looked at  
22 it, so I'm not sure what we had included in there.

23           But those are good comments and something we  
24 might be able to take a look at under terrestrial resources,  
25 for our terrestrial biologists.

1           MR. UNDERWOOD: I have made a point not to get  
2 involved with Consumers power on this, because of the fact I  
3 have only counted maybe twice -- I have called somebody and  
4 talked to us, the specific thing about the eagles. I've  
5 been to Lansing three times to speak to House committees,  
6 Senate committees. We've got a box over there with about  
7 2,000 signatures on petitions where people want something  
8 done permanently and finally. Okay.

9           MR. LIBERTY: Thank you very much.

10           Does anyone else have anything else to add to the  
11 Aquatic Resources sections? And again, if you're not  
12 prepared today --

13           MR. UNDERWOOD: May I add; I didn't say  
14 something.

15           When you have weirdness where the cormorants were  
16 so heavy off Ludington, I went down during the morning and  
17 looked at the plant. There were so many birds on the reef  
18 and inside the barrier net, you couldn't count them. I  
19 estimated there were 3500.

20           These birds eat about 30 pounds of fish a day,  
21 that's over 4 pounds a day -- 30 pounds a week. That's over  
22 four pounds of fish a day. Where do you suppose all this  
23 feces go? You have the Pere Marquette Park, Township Park  
24 that are two miles from the project. You've got the Summit  
25 -- park.

1           It's something you've got to take into  
2 consideration. There's a lot of feces goes there -- these  
3 birds are there for about 150 days.

4           MR. LIBERTY: Thank you.

5           As I was saying, if you guys aren't prepared to  
6 provide us full comments here today, like Janet was saying,  
7 the comment period is open until May 21st. So if you go  
8 home to night or next week and you decide you've got  
9 something else that perhaps FERC should take a look at in  
10 the NEPA document, please file those comments with us.

11           So do you guys have anything else to add to the  
12 Aquatic Resources sections?

13           So I got it 100 percent right? That never  
14 happens.

15           All right, so hearing no comments, again I'll  
16 walk you guys through the Terrestrial Resources bullets.  
17 There are four issues that our terrestrial biologist  
18 identified that we'll be analyzing as far as our NEPA  
19 document. The first one being the effects of continued  
20 project operation, including reservoir fluctuations on  
21 riparian, littoral and wetland habits and associated  
22 wildlife.

23           The effects of continued project operation,  
24 including maintenance activities; road maintenance,  
25 transmission line maintenance and rights-of-way vegetation

1 management on wildlife habitat and associated wildlife.

2           And the last being, the effects of continued  
3 project operation on the introduction, establishment and  
4 spread of invasive species; and the last bullet is, the  
5 effects of continued project operation on Michigan state  
6 species of special concern, including bald eagle, marsh  
7 wren, eastern box turtle, and ginseng.

8           Anyone have anything to add to the bullets?

9           Again, we're 100 percent right off.

10           All right, with that I'll hand it off to Janet  
11 and she can walk you guys through the rest of our resource  
12 issues.

13           MS. HUTZEL: Thanks, Aaron.

14           Under the threatened and endangered species,  
15 we've identified effects of continued project operation on  
16 the Indiana bat, the piping plover, the karner blue  
17 butterfly, and the federally threatened pitcher's thistle.

18           Any comments on the threatened and endangered  
19 species?

20           No? Okay, great.

21           For recreation and land use, we have identified  
22 the adequacy of existing recreation facilities in the  
23 project boundary to meet current and future recreational  
24 demand.

25           Any comments on that scoping, for recreation and

1 land use?

2 No? Okay, great.

3 And for cultural resources, we have identified  
4 the effects of the proposed action and alternatives on  
5 property included, or eligible for the inclusion in the  
6 National Register of Historic Places.

7 And are there any issues concerning the bullet we  
8 identified for cultural resources?

9 No? Okay. This is good. I think we've done a  
10 great job so far identifying the scoping issues, hopefully.  
11 But like Aaron said, you have until May 21st to file, if you  
12 have any comments on our scoping document and the  
13 instructions I think are on like page 26 of our scoping  
14 document.

15 Next is the Request for information and Studies.  
16 So part of the process in the ILP is to identify the studies  
17 by which Consumers and DTE Energy Companies have to complete  
18 during the first season; and if necessary, a second season  
19 of study. Usually these studies define and temporal scope,  
20 and they identify the environmental issues. They can  
21 contain data that describe existing environmental effects of  
22 the project; documentation showing why any resource or  
23 identified issues should be excluded from further study or  
24 consideration, another thing we look for. And the study  
25 requests that would provide the frame for collecting

1 information on the resources potentially be affected by the  
2 project.

3           So those are our main four categories when we're  
4 looking for Request for information and Studies. And I  
5 believe the next slide is our study criteria.

6           These study criteria are listed in Appendix A of  
7 Scoping Document 1. These seven criteria must -- so  
8 Consumers did propose I think four studies. If you want to  
9 propose your own study, or you think that Consumers missed  
10 the mark or there's something that needs to be studied in  
11 addition to what Consumers has proposed, you need to follow  
12 these seven criteria; all must be addressed.

13           You have to define the goals and objectives of  
14 the study you're proposing. Explain the relevant resource  
15 management goals. Explain the relevant public interest.  
16 Describe the existing information and the need for  
17 additional information; we're trying to avoid just obtaining  
18 information for information's sake.

19           You need to explain the nexus between project  
20 operations and effects, and this one is key; you really have  
21 to tie into why this study is needed and why project  
22 operations may be affecting this resource and this is why  
23 the study is required.

24           You need to describe your methodology as detailed  
25 as you possibly can. Even though the transects, how many

1 you would want, anything of that nature. And then you have  
2 to describe the level of effort and the cost of the study,  
3 and why an alternative study is needed, in case Consumers  
4 and DTE has already proposed a similar study.

5           So we do ask that you provide us what you think  
6 is the estimate of the cost of the study when you file your  
7 study request. This is also due May 21st. So comments on  
8 Consumers PAD, comments on our scoping document, and any  
9 study requests that you think are necessary for Consumers  
10 and DTE to study are all due in a little more than a month.

11           Yes?

12           MS. NEWCOMB: My name is Tammy Newcomb. I'm  
13 with the Michigan Department of Natural Resources, and I'm  
14 also the cochair for the Science Advisory Team of the Great  
15 Lakes Fishery trust.

16           So in the timeline, what is the purpose of the  
17 site visit?

18           MS. HUTZEL: The purpose of the site visit, it  
19 usually occurs during our scoping meeting. We had to alter  
20 it this year because of the severe weather; we were unsure  
21 if some of the sites would be available because of the snow.

22           The purpose of the site visit is for you to be  
23 able to look at the site and how it's operated and see the  
24 rec facilities; and I think that's why Consumers and DTE is  
25 doing a -- if you stay after this scoping meeting, they're

1 having a presentation about their plant, and they're giving  
2 more pictures.

3 But the purpose of a site visit is essentially  
4 for you to be able to see the project and the lands  
5 associated with the project.

6 MS. NEWCOMB: So one of the questions that came  
7 about earlier today was, since the site visit isn't until  
8 the end of July -- now I had thought it was the end of June,  
9 but it's the end of July -- but the comments are due for the  
10 study--

11 MS. HUTZEL: They are.

12 MS. NEWCOMB: -- in May. We were wondering about  
13 the relevancy of that deadline on the studies if the site  
14 visit is used to inform.

15 MS. HUTZEL: The site visit is not to much used  
16 to inform studies; it's more to familiarize you with the  
17 project, what it looks like. But Consumers is providing on  
18 how it operates, they are providing additional slides than  
19 what we require them to in a regular scoping meeting, to try  
20 to make up for the fact that we are not actually having a  
21 site visit along with scoping.

22 But we do scoping -- we don't always do onsite  
23 scoping; we don't always do site visits. So it's not  
24 necessary to have a site visit to complete the studies. We  
25 do what's called 'paper scoping' and there are times where

1 we just issue the scoping document and then we address the  
2 issues that way. So we don't always have a site visit.

3 MS. NEWCOMB: So the May 21st deadline regarding  
4 studies and part of the scoping is the last opportunity for  
5 us to provide input on required studies, then?

6 MS. HUTZEL: It's the best time, it's not the  
7 last time. It's the best time for you to provide,  
8 especially if you are proposing an additional study. It is  
9 the best time for you to propose an additional study with  
10 all the criteria. It is not your last opportunity, but  
11 there is a higher bar as we go through because on May 21st,  
12 everyone including FERC staff can propose studies. Then  
13 Consumers and DTE will develop a proposed study plan, where  
14 they should have a more fleshed out study based on anything  
15 that the public or state or federal agencies has proposed,  
16 based on anything FERC has proposed, based on the scoping  
17 meeting.

18 Then we will be having, along with the site visit  
19 in July, we will -- Consumers and DTE will hold a study plan  
20 meeting. So then we would go over the proposed studies,  
21 that Consumers officially proposed, and try to address any  
22 issues that you may have with their studies or any  
23 additional gaps that may be needed.

24 MS. NEWCOMB: So if we have any glaring  
25 deficiencies and what additional question we think needs to

1 be answered, that we would have an additional opportunity>?

2 MS. HUTZEL: Yes.

3 MS. NEWCOMB: Not just to bring forward more  
4 studies, but to identify a gap.

5 MS. HUTZEL: Right. And then Consumers would  
6 file a revised study plan, about a month after they hold the  
7 meetings, and then after the revised study plan is issued,  
8 you would have an additional 15 days to make comments on the  
9 revised study plan.

10 But it's much, much better to have -- if you know  
11 that you're going to have a study that you want Consumers to  
12 do, it's much better if you just provide it up front so that  
13 it can be fleshed out through that process.

14 MS. NEWCOMB: Sure. It's just a little yiikee --  
15 it's already April 17th.

16 MS. HUTZEL: It is a very fast process. It was  
17 designed to be fast so that the licensee would be able to  
18 know what studies they really had to perform, and to move it  
19 along quickly. I did the first ILP ever, and that was in  
20 2004 or -6. So we have done multiple ones after that, and  
21 it is dicey for everyone, including us, because we've got  
22 time frames that we have to meet also.

23 MS. NEWCOMB: Okay, thank you.

24 MS. HUTZEL: Any other questions, concerns about  
25 study criteria?

1           All right. Do you want to go over your proposed  
2 studies since you guys proposed them?

3           MR. McINTOSH: Yes.

4           During the preparation of the pre application  
5 document, we have centered around four areas where we  
6 thought additional study needs to be done, for information.

7           One of them dealing with the terrestrial  
8 resources was doing a wildlife and botanical survey of the  
9 project proper, which is basically looking for rare,  
10 threatened and endangered species habitat that might exist  
11 on the property.

12           Having some qualified individuals basically  
13 walking through the property, identifying items of interest.  
14 We don't have any specific species that we're going to be  
15 looking for; but there will be a little that I can focus  
16 maybe on the ginseng and the pitchers thistle. Right now we  
17 don't think any of that is in the project property, but  
18 we'll be looking for that.

19           Another study, which is a periodic study that is  
20 being done, it just happens to kind of coincide with the  
21 relicensing, is the FERC Form 80 survey of the recreation  
22 usage associated with the project. And that's basically  
23 talking to the rec site managers for their -- their usage  
24 for a year. FERC, do you cover a year on there, or is it  
25 like a six year period they're looking for?

1           MS. HUTZEL: Well, it's required every six years;  
2 so we'll be collecting data for this year. But basically  
3 it's a summer's worth.

4           MR. McINTOSH: The rec sites are only open from  
5 May 1st until the end of September, I think. And then  
6 they're closed off. So we have limited usage. What we do,  
7 the survey will just involve people using the rec site  
8 during the summer.

9           The other survey we're going to be doing is a  
10 cultural resources survey. There is a lot of disturbed  
11 property within the project boundary, but there is some that  
12 hasn't been disturbed. We've done a couple smaller surveys  
13 to date, and we're going to, as part of relicensing, we'll  
14 finish off the remainder of the undisturbed property within  
15 the boundary.

16           Those are basically the surveys we are looking  
17 at.

18           MS. HUTZEL: At this point I'd like to open it up  
19 for discussion about the studies.

20           Does anyone have comments or additions to those  
21 proposed studies that Consumers is proposing?

22           Go ahead. An also, if you have any oral comments  
23 that you would like to make, now would be the time to make  
24 them also.

25           MR. WAHR: My name is Terry Wahr, I'm the Zoning

1 Administrator for Pere Marquette Township. I'm here on  
2 behalf of the Township Supervisor, who could not make the  
3 meeting.

4 So I'd like to read some prepared written  
5 comments, and I'll give you a copy for the recorder.

6 Some initial comments from Pere Marquette  
7 Township.

8 Much of the Ludington Pumped Storage Project is  
9 located in Pere Marquette Township, including the  
10 power plant complex itself and a significant  
11 portion of the Project reservoir and associated  
12 Project lands.

13 The pumped storage project is a vital component  
14 of the Township economy and has been a vital  
15 continue partner over the current license term.  
16 Accordingly, PM Township wishes to express its  
17 strong support of the FERC's granting of a new  
18 license for the Project.

19 The Township understands there is an important  
20 process that the FERC follows in considering the  
21 issuance of a new license, and looks forward to  
22 participating in that process.

23 The Township sees one of the important roles of  
24 the Project as its contribution to the recreation  
25 and environmental opportunities that contribute

1 to the quality of life for the Township residents  
2 and the visitors to the area.

3 An updated examination of recreational needs, as  
4 defined in the area recreation plans and through  
5 appropriate studies, and an assessment of how the  
6 Project can contribute to those needs should be  
7 an important element of the FERC's licensing  
8 process. The environmental enhancement of the  
9 area is also an important factor that should be  
10 considered.

11 In reviewing the Pre Application Document, we  
12 know that the PM Township recreational plan,  
13 which had been approved by the Michigan DNR, is  
14 not included in the plans noted for review. The  
15 current plan for the Township is being updated,  
16 and the Townships expects to issue its revised  
17 recreation plan in June of 2014. The updated  
18 Township Recreation Plan will provide valuable  
19 information regarding the recreational needs and  
20 the goals in the vicinity of the Ludington Pumped  
21 Storage Project, and should be incorporated in  
22 the licensing review process.

23 Pere Marquette Township will be providing  
24 additional comments to the FERC by May 21, 2014  
25 and requests copies of all pertinent relicensing

1 documents be directed to Mr. Paul Keson, the  
2 Township Supervisor.

3 MS. HUTZEL: I'd like to actually address the  
4 comprehensive plan. We have -- to be a comprehensive plan,  
5 it has to be approved by the Commission. So there's a high  
6 likelihood that the Township's plan is not approved by the  
7 Commission, which is why it's not listed. That doesn't mean  
8 that we won't take it into consideration or we could not.

9 But if you stick around, I can give you my  
10 contact information and then give you information as to how  
11 to file the plan to see if we would consider it a  
12 comprehensive plan.

13 MR. WAHR: Okay.

14 MS. HUTZEL: I do have two questions about two of  
15 the studies that Consumers -- actually, are there any other  
16 people who have oral comments they'd like to make?

17 No. I actually have two questions for Consumers  
18 and DTE about the proposed studies. One is the rec and land  
19 use. It says that you're going to use your Form 80 to do  
20 the recreation and land use study. Do you intend to use  
21 like traffic counters and surveys, or are you going to  
22 estimate the amount of usage? Because there are different  
23 ways that you can fill out the Form 80.

24 MS. McTAGGART: We use a mixture of both. Some  
25 of our sites, for example, Mason County Campground is a

1 leased site; so we ask the lessee to do counts for us.  
2 They'll go out -- we give them a schedule to go out on days,  
3 and they will do counts for us, count number of people, and  
4 then they provide the information back to us. And then some  
5 of it is an estimate.

6 MS. HUTZEL: Those estimates aren't as accurate,  
7 and we're trying to get away from those.

8 And do you do any recreation surveys or counting  
9 at the North Pigeon here, or is that --?

10 MS. McTAGGART: I have to look at what we did  
11 last time. Most of them, we do a mixture of all of those.  
12 So I'd have to check on that for you.

13 MS. HUTZEL: Okay. And then I guess the other  
14 one, the cultural, is just to ensure that the SHPO is  
15 involved and that the study is being completed.

16 The other one was for cultural, and I just wanted  
17 to remind Consumers to ensure that the State Historic  
18 Preservation Officer is involved when they're doing the  
19 survey.

20 If there's no other comments, Consumers has --  
21 oh, there is one important thing. Not everyone who received  
22 a scoping document is on our official mailing list. I have  
23 an extra copy of the scoping document; we'd greatly  
24 appreciate it to make sure that your name is not it. If it  
25 is not on it, you are not on our official mailing list and

1 you will not receive anything else from us. And to get on  
2 the official mailing list, we have instructions in Section 6  
3 as to how to apply to the Commission to be put on. If you  
4 ask me to be put on, you'll be put on; but I know Consumers  
5 had sent the PAD to probably, what, over 100 people?

6 MR. McINTOSH: 150.

7 MS. HUTZEL: 150 people. Our official mailing  
8 list only has like 30 or 40. So if you want to be kept  
9 informed of the process, you will need to put yourself on  
10 the mailing list; I can't do it. It's just our procedure.

11 Again, comments on the Scoping Document 1 and  
12 study requests are due May 21st. You need to identify the  
13 project as the Ludington Pumped Storage Project, and this is  
14 very key; you need to put down P-2680-108. This information  
15 is in your scoping document also, and there are instructions  
16 on how to apply it.

17 If you don't put the P- number in it will not be  
18 processed and we may not get that information. You can file  
19 it electronically, and we highly encourage it being filed  
20 electronically, or you can file it by mail. But please  
21 remember that our mail is still be irradiated; so it may  
22 come several weeks after the deadline.

23 MR. LIBERTY: Just to kind of follow up on this  
24 mailing list thing, we also have a service called  
25 eSubscription. You guys can sign up for that on our

1 website, of [www.FERC.gov](http://www.FERC.gov). And what that is basically, is  
2 every time FERC issues a document or say a state agency  
3 files a recommendation for the FERC, anytime anything goes  
4 onto the docket regarding this project, you'll get an e-mail  
5 notification saying 'Hey, this has been filed into the FERC  
6 project for the Ludington Project.' It's a really great way  
7 to stay informed; it's very easy to do. I would recommend  
8 to all of you to eSubscribe to this project if you want to  
9 stay in the loop of what's going on.

10 MS. HUTZEL: Yes; and also by eSubscribing, you  
11 get notified immediately. If you get notified through mail,  
12 it could be up to a week lag time, or longer. And also,  
13 your other option is just to eSubscribe. You do not have to  
14 then get on our mailing list, because you will be notified  
15 of everything coming in and coming out. So that is your  
16 other option.

17 Would you like to make some comments?

18 MR. MITCHELL: Yes, my name is Jimmie Mitchell,  
19 I'm the Director of Natural Resources for the Little River  
20 Band of Ottawa Indians. And in reading through the Federal  
21 Register, I just noticed that you designated Consumers as  
22 the entity to initiate consultation in regards to -- not  
23 only the SHPOs, but I think it also extends to the Tribal  
24 Historic Preservation Offices as well, to solicit  
25 consultation. And in going through the FERC's website, I

1 notice that some of the tribes are listed as the THPO  
2 designees as being the point of contact, and others were for  
3 the tribal chairmen.

4 I just wondered, I know that this year the  
5 weather has sort of delayed some of the aspects of  
6 consultation, and I don't even know if actually official  
7 consultation had been sent out to the tribes yet, for a  
8 request for consultation; and if so, if a date has been  
9 established for those consultations to occur; but I would  
10 certainly be interested in knowing that so that we can make  
11 sure that we can be active participants in that process.

12 MS. HUTZEL: Actual, we went out notification to  
13 the tribes oh, last year. We sent it out prior to Consumers  
14 and DTE filing their NOI and Pre Application Document.  
15 Because as part of the ILP process, are to hold tribal  
16 consultation within 30 days of Consumers and DTE filing  
17 their NOI and PAD.

18 So we sent these letters out, we got no response.

19 MR. MITCHELL: Okay.

20 MS. HUTZEL: That does not mean that you cannot  
21 participate; it just means that the initial tribal  
22 consultation meeting, no one responded to us that they  
23 wanted an initial tribal consultation meeting. And we sent  
24 them, we should have sent them -- and I sent them out  
25 personally -- most of -- all of them went to the tribal

1 leader with cc's to the post. Because a majority of the  
2 time -- not always -- but a majority of the time it's  
3 usually a cultural issue as to why the tribes are being  
4 involved.

5 But we got no response.

6 MR. MITCHELL: Okay.

7 MS. HUTZEL: Now, tribes like anyone else is  
8 welcome to participate and we want them to participate  
9 early. So if you want to participate or you know of tribes  
10 who would want to participate, they are on the mailing list.  
11 I did put most of the tribes on the mailing list, because I  
12 know sometimes they don't always respond. They had until  
13 May 21st to provide studies and comments, and also if they  
14 want to follow the process.

15 MR. MITCHELL: Well, thank you. And just as a  
16 note, the tribes at least, there are five tribes that are  
17 party to the 2007 consent decree that gives co-management  
18 with tribes, state and the federal governments to  
19 collaborate and work as managers of the environment, co-  
20 managers if you will. And I just want to make sure, a lot  
21 of times I think tribal chairs and other folks that may be  
22 contact persons, they get overwhelmed with the amount of  
23 information, especially the consultation that's occurring  
24 right now at the federal level as well as the state level,  
25 and there's just so much information that comes their way

1 that maybe this is the reason why you didn't get anything  
2 back, it's because those folks just get, again, an enormous  
3 amount of information to sift through.

4           But further down in the ranks, folks, natural  
5 resource directors and others that are -- are really the  
6 ones that are managing many of these processes with  
7 consultation. I, myself, I know that I spend more time in  
8 D.C. I think now than I do actually in Michigan working on  
9 tribal, state and federal issues. So maybe a way to sort of  
10 reorganize, you know, this is just sort of a thought to make  
11 sure that you are getting active participation is to maybe  
12 make requests as well as to who or whom those contact people  
13 will be, because I know I have several staff people in here,  
14 as there are other tribes sitting in this room as well today  
15 that's probably looking for information, and just to make  
16 sure that we're being responsive and active in any of these  
17 things that affect our shared natural resources.

18           And again, I just wanted to make sure that if  
19 there is going to be a consultation process; I know again  
20 there are five tribes that are party to what we call the  
21 2007 consent decree, and we just want to make sure -- again,  
22 I've worked really well with Consumers; they're a really  
23 great partner, the Great Lakes Fishery Trust is an amazing  
24 entity to work with; it's been very beneficial, and I'd like  
25 to actually see that continue on, and work with folks like

1 John Allen. He's been a mentor of mine in collaborative  
2 governance and collaborative being the operative word; I  
3 know that he'd want to make sure that I've made my concerns  
4 known here today, and that's what I'd like to share with  
5 you. And thanks.

6 MS. HUTZEL: Well, how about after the meeting I  
7 can show you who's on the mailing list; and if you have  
8 other suggestions --

9 MR. MITCHELL: That would be wonderful. Thank  
10 you.

11 MS. HUTZEL: -- we can go from there.

12 MR. MITCHELL: Thank you.

13 MS. HUTZEL: Are there any other comments?  
14 Studies, our scoping documents. Or any other concerns? And  
15 like Aaron said, if you don't have any now, we take written  
16 comments.

17 MR. McINTOSH: I'll be glad to take a few  
18 minutes.

19 MS. HUTZEL: Do you want to take a break?

20 (Break.)

21 MS. HUTZEL: We are going to close the scoping  
22 meeting.

23 Are there any other comments? Or anything of  
24 that nature?

25 Okay, the afternoon scoping meeting is closed;

1 and if you want to attend, you can attend the 6 o'clock  
2 meeting, but it will be the same thing. Thank you all.

3 (Followed by a slide show/video from Consumers  
4 Energy/DTE.)

5 (Whereupon, at 3 p.m., the afternoon scoping  
6 meeting concluded.)

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