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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 evening scoping meeting, pursuant to notice,  
convened at 6 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

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

2 MS. HUTZEL: All right. I think we'll begin.  
3 It's a little after 6. My name is Janet Hutzel, I'm with  
4 the Federal Energy Regulatory Commission, and this is the  
5 scoping meeting for the Ludington Pumped Storage Project.

6 First, we have a few housekeeping items. In the  
7 back there's some sign-in sheets; if you haven't signed up,  
8 please do so. We have a court reporter with us tonight. If  
9 you have any comments or have any questions, please use the  
10 podium and state your name and if there's any words that are  
11 scientific or such, please spell them out. The transcripts  
12 will become part of the public record, and we also -- this  
13 is the end but I'll say it at the beginning.

14 We sent out scoping documents to everyone that  
15 was on Consumers distribution list. This does not mean  
16 you're actually on the FERC mailing list. You would want to  
17 look in Section 10 of Scoping Document 1 to see if your name  
18 is listed. If it's not listed, you are not on the official  
19 FERC mailing list. You can either sign up for the mailing  
20 list following the instructions or you can subscribe to  
21 eLibrary, and that's under our website, [www.FERC.gov](http://www.FERC.gov), and  
22 the instructions are there.

23 And also, I want to introduce Aaron. Aaron  
24 Liberty is with me tonight; he is doing the aquatics  
25 resources for the project; I will be doing the cultural

1 resources and recreation, land use and aesthetics.

2           This is the agenda. We're going to go over what  
3 is the Integrated Licensing Process. Consumers Energy and  
4 DTE Electric Company are going to go over the project; they  
5 have some slides to describe what the project is about.  
6 We're going to do the purpose of scoping, we're going to  
7 identify what we think are the issues associated with this  
8 project; we're going to go over how you can request for  
9 studies and additional information. What the next steps are  
10 after this scoping meeting. Final comments and questions,  
11 this is where if you have any oral statements you'd like to  
12 make. And then Consumers has a photo tour for the  
13 presentation.

14           A little bit about the Federal Energy Regulatory  
15 Commission. We are an independent federal agency; we do  
16 regulate interstate transmission of natural gas, oil and  
17 electricity. We also regulate natural gas and hydropower  
18 projects.

19           I'm with the Office of Energy Projects, the  
20 Division of Hydropower Licensing. We also have a Compliance  
21 Division and a Dam Safety Division; they're not here  
22 tonight; they do not do the relicensing for the projects.

23           Hydropower licenses are issued for 30 to 50  
24 years. Consumers' license is up for renewal. If they are  
25 granted a license, it would be between that amount of time.

1 And we have about 2,600 projects that are either licensed or  
2 exempted under our jurisdiction.

3 And this is our jurisdiction. Basically you  
4 either are located on a navigable water; you're located on  
5 public lands or reservations of the U.S., Forest Service  
6 lands or Bureau of Land Management lands. Your project  
7 utilizes surplus water or water power from a federal dam;  
8 i.e., you use a Corps dam to develop power. Or you affect  
9 interstate or foreign commerce.

10 Now Consumers and DTE have opted to use the  
11 Integrated Licensing Process to relicense the Ludington  
12 Pumped Storage Project. This is our default process. FERC  
13 staff, unlike our other two processes, FERC staff get  
14 involved very early. Consumers and DTE filed their Notice  
15 of Intent and Pre Application Document, the PAD, in January  
16 and we are now holding scoping meetings. With the other two  
17 processes, we would hold scoping meetings later.

18 Also a key part of the ILP is the process plan  
19 schedule. And that is located in Appendix B of the scoping  
20 document. Those are the dates by which everything must be  
21 filed or issued by the Commission. So filing from agencies,  
22 NGOs, tribes or the public, and then issued by the  
23 Commission. And these dates are pretty much set in stone,  
24 the very few times have we waived the dates.

25 Also part of the ILP is a study plan development,

1 which we will talk about at this meeting. We will go over  
2 the proposed studies that Consumers and DTE proposed, and if  
3 you have any comments or any suggestions to these studies.

4 Any questions or?

5 This is the ILP prefile. We are on Step 4. We  
6 are holding the scoping meeting. The next step is May 21st;  
7 that is when you can comment on Consumers and DTE's PAD that  
8 they filed, the Preliminary Application Document. You can  
9 also file comments on our scoping document, and also this is  
10 your opportunity to file any study requests that you may  
11 want Consumers and DTE to -- if you think they need to  
12 conduct certain studies for the environment.

13 Then the applicants would file their preliminary  
14 study proposals, these are the studies they're proposing  
15 that they would conduct for the project; then we would have  
16 a meeting to discuss them, discuss this proposed study, then  
17 there would be a comment period where you could comment on a  
18 proposed study. Then Consumers would file their revised  
19 study plan. There would be another comment period, about 15  
20 days, to file comments on Consumers' revised study plan; and  
21 then the Commission issues a determination on the study  
22 plan.

23 Once the Commission issues the determination,  
24 these are the studies that Consumers and DTE must conduct,  
25 unless there's a dispute resolution. And then there is, if

1 necessary, the studies are disputed and then another order  
2 is issued, and then that finalizes what studies will be  
3 conducted for the licensing process.

4           Once the studies are conducted, Consumers and DTE  
5 would file a preliminary licensing proposal. There would be  
6 a comment period for that, and then they would file their  
7 license application. The license application has to be  
8 filed two years prior to their license expiring. So this is  
9 about a four and a half, five year process.

10           Then once it's filed -- total, it's about four  
11 and a half, five years from start to perhaps having an order  
12 issued that either grants or denies them a license.

13           Once their license application is filed, it's  
14 pretty much in FERC's, FERC will process it. We will ask  
15 for terms and conditions and comments and that is when if  
16 there's any mitigation measures that you think are necessary  
17 to mitigate for any adverse effects, provide them then.

18           We will be doing a draft Environmental Analysis,  
19 and then a Final Analysis. So agencies, licensee, any NGOs  
20 or public could comment on the Draft EA. And then once we  
21 issue the final EA, the Commission will then issue an order  
22 either granting or denying Consumers a license; and if we  
23 grant Consumers and DTE a license, the measures by which  
24 they would have to operate their project, and any measures  
25 to address the environmental effects.

1 Any questions?

2 Okay.

3 MR. McINTOSH: Good evening. I'm Dave McIntosh,  
4 I'm a licensing engineer for Consumers, and I'm going to be  
5 working on the relicensing project.

6 A few other members of our team here. From  
7 Consumers, we have Bill Scheinlein, who's a Manager of a  
8 Hydro Renewable Resources for Consumers. Ken Squibb here is  
9 a project manager, pretty much doing the administrative  
10 functions for the relicensing project. Brooke Shields --

11 (Laughter)

12 MS. McTAGGART: Wow, thank you.

13 MR. McINTOSH: Brooke McTaggart. Is in our Land  
14 Management Group.

15 (Laughter)

16 It's been a long day.

17 We have Dave D. is a senior engineer at the  
18 Ludington Project. And we also have from DTE Jim Musial,  
19 who is representing DTE tonight. We also have a couple  
20 contractors working on the project with us; Rita Hayen from  
21 PRC and Mike Hreben from Kleinschmidt Associates.

22 A little bit of the history of the project  
23 itself. Preliminary investigation for a feasibility study  
24 for the project began January 1959. Purchasing of the land  
25 started around that, 1961. Construction followed shortly

1 after that, in '69 -- it was designed, and the plan started  
2 in '67 with construction going on in '69.

3 Prior to the construction we actually had to get  
4 the FERC license issued, so we applied for a license. In  
5 '69 FERC issued the license for the project, which had a 50-  
6 year term. So it's June of 2019.

7 Construction was completed in '73. Unit 1 was  
8 actually declared operable in January of 1973, and the units  
9 came on sequentially after that, with No. 6 coming on line  
10 in September of '73.

11 Since the units were constructed, they've been  
12 overhauled once, a big, major overhaul in their history.  
13 Unit 4 was the first one to be overhauled; that occurred in  
14 1987. And then the remaining units, again sequentially were  
15 overhauled in 1992 through 1996.

16 Currently, right now, we are in a major upgrade  
17 for all six units. Unit No. 2 was selected as the first  
18 unit to be upgraded, and that started in November of last  
19 year, 2013. Again sequentially, upgrade the Unit 1; the  
20 unit will be upgraded over the next six years.

21 Benefits of the upgrades, cycle efficiency is  
22 going to increase from the original design of 72 percent to  
23 about 77 percent. Capacity increase all the facilities,  
24 about 50 megawatts per unit, so increased capacity of 300  
25 megawatts total.

1           Extending the periodic outage frequency from two  
2 to three years, which will reduce the outage also from  
3 apparently about 28 days to about 20 days. It's also going  
4 to provide a little more flexible reservoir operation.

5           Some of the interesting assets of the project  
6 itself; it's co-owned by Consumers and Detroit Edison or  
7 DTE, former name. Consumers is only 51 percent and DTE has  
8 49 percent. Nameplate capacity for the project is 1,872  
9 megawatts.

10           Over the last ten years, the annual generation,  
11 the average greater than 2.5 million megawatt hours. The  
12 man-made reservoir will hold about 27 billion gallons of  
13 water, and around the top, halfway around, is 5.7 miles.  
14 The original units were manufactured by Hitachi. They're  
15 some of the largest generating-pumping facilities in the  
16 world. The current pump turbine is over 27 feet in  
17 diameter, weighs about 325 tons. The motor-generators are  
18 over 68 feet in diameter; they're really classified as one  
19 of the world's largest motors.

20           Reservoir head, the elevation of the pond when  
21 it's at full level, is about 363 feet above the level of  
22 Lake Michigan, which is roughly half the height of the  
23 Hoover Dam.

24           Another interesting aspect of the project is the  
25 seasonal barrier net that gets deployed. Typically, it gets

1 deployed from April 15th to October 15th. This year it's a  
2 little late because of all the ice that was on the lake; so  
3 they haven't actually begun the installation yet because the  
4 ice just cleared.

5           The panel itself consists of 62 panels or the  
6 total length of the wall, 12,850 feet. And in the back  
7 there on the coat rack, we have a sample section of it and  
8 how the overall net is constructed.

9           The barrier net is one of the largest ones in use  
10 in the world; and it's designed to effectively exclude the  
11 target species of fish, while the plant can continue  
12 operation.

13           Some of the benefits of the Pumped Storage  
14 Project is power to operate pumps is purchased at off-peak  
15 hours when the power is lower in cost, and there's more  
16 power available. Typically nights and weekends; and then  
17 that energy is stored in the reservoir for later use as  
18 potential energy.

19           Units are dispatched to generate during periods  
20 of high electrical demand, which are usually the daytime  
21 hours, not on weekends. It's a lower cost than buying  
22 electric energy from the market. That provides a  
23 significant savings to the customer.

24           The units provide an essential service,  
25 supporting the electrical grid as well. They supply

1 regulation of the grid, so. And the quick start capacity,  
2 the spinning reserve, and also a black start facility, which  
3 means they don't need any outside power in order to start  
4 the units up; they're fully self-contained.

5           The project itself helps support increased  
6 amounts of grid-connected renewable energy. Expected  
7 regulation to balance the renewable generation of the load.  
8 White/brownouts, and then need to idle fossil generation  
9 facility. And Michigan Energy Reform Law provides for one-  
10 fifth Michigan's renewable standard of renewable energy  
11 credits for generators; water stored in the reservoir using  
12 renewable energy.

13           This little cutaway of the Pumped Storage Project  
14 would work. In our case, we would take water from Lake  
15 Michigan and pump it up into the upper reservoir during pump  
16 operations, and then we're going to generate, we just  
17 reverse the flow of water, pumped back through the pump  
18 turbines; and then when it's flowing in the other direction,  
19 electricity is produced.

20           Another little cutaway of the project itself,  
21 just showing a little bit more detail. Relatively speaking,  
22 Lake Michigan is here -- most of the project itself, the  
23 equipment is actually below water level, inside the  
24 powerhouse. Water comes in from the impoundment, impel the  
25 runner. This is generated up on top.

1           A little closer view of the unit, generator  
2 units. Penstock is like on the back side where the water is  
3 coming in from the reservoir, pumped into the spiral gates,  
4 vertical, spinner runner, and then when we are generating,  
5 come up to the chutes into the tailrace. The shaft  
6 connecting up to the generator.

7           The different colors on this diagram here kind of  
8 indicate some of the things we're doing during the major  
9 upgrade. The big things that are being replaced are the  
10 pump turbine runner here, the thrust bearing and the motor  
11 generator. The main shaft, spiral case and draft tube have  
12 already been inspected. Since we have the units all taken  
13 apart, it's a good time to get in there and look at things.

14           And then some of the -- the brown items here are  
15 things that are going to get refurbished; the guide  
16 bearings, the wicket gates and stay vanes, some of the other  
17 components.

18           A couple aerial views of the project itself. The  
19 dotted line that you'll see here is the actual project  
20 boundary, the FERC boundary; that's what the, property  
21 limits are part of the license. Includes a little bit of  
22 tail water out here on Lake Michigan. This line here is the  
23 where the barrier net is deployed.

24           The substation and the transmission corridor  
25 here, where the transmission line runs -- are not actually

1 included in the boundary itself. The other photo on the  
2 other side is the Port Sheldon recreation area; that's a  
3 satellite place, that's about seven miles to the south.  
4 It's just a recreation site, it's a parking structure on the  
5 way out to a fishing pier in Lake Michigan.

6 Here are a few pictures. Up at the reservoir we  
7 have an overlook facility, we call it the pagoda. It's a  
8 long walk to the top of the impoundment, gives you a view  
9 over the impoundment, and all that's involved.

10 This is the intake structure, this is where the  
11 water goes in and comes out of the reservoir, whether it's  
12 pumping or generating. Or the causeway that connects the  
13 intake structure to the driveway around the impoundment.

14 This is a view of the powerhouse area and our  
15 facility down by the lake water. The penstocks or the pipes  
16 that come out of the helmet for the reservoir are in this  
17 area here, underground; go up to the intake structure.

18 This is just a view from Lake Michigan, and in  
19 the foreground here you can see the barrier net.

20 And a quick shot of the Port Sheldon recreation  
21 area walkway, going out to Lake Michigan.

22 Prior to us getting really involved in the  
23 upgrade of the facilities, or the equipment in the  
24 powerhouse, we were doing significant structure  
25 improvements. We needed to install two new cranes, of a

1 heavier lifting capacity than was originally installed in  
2 the project. We went from a single crane of 360 ton to two  
3 410 ton cranes that provides us a lifting capacity for the  
4 new stators -- part of the generator.

5           Construction of two new fabrication buildings,  
6 North and South of the powerhouse, for working on the  
7 equipment. To do that we also had to extend the gantry  
8 crane rail to the north, so that we could get out to the new  
9 building. And also updated the boat dock facility to  
10 facilitate bringing the large equipment in on a barge.

11           A few of the infrastructure improvements. This is  
12 a building up to the north, crane construction, sections  
13 going out here. Also put in a seawall to provide support,  
14 increased loading on the land so it wouldn't push everything  
15 into the tailrace.

16           This is a shot of one of the new cranes being  
17 constructed; this was last summer. This would be the north  
18 crane in the background. The existing crane back in here.  
19 We just moved that all the way to the north to put the new  
20 ones in.

21           This is a picture of the south fabrication shop;  
22 this building right in here. And then the guard shanty.  
23 Just happened to have a picture of the new runner for Unit  
24 No. 2 coming to the site before it's off-loaded.

25           We also improved the entrance into the facility;

1 the original guard shack was a very small little building  
2 here, and both the ingress and egress to the plant are on  
3 one side of the building. So we kind of revamped the  
4 driveway in and coming out, allows people coming into the  
5 project on one side and come out the other is much better  
6 traffic flow, especially some of the increased truck traffic  
7 that's coming in to the site.

8           A few pictures of some of the equipment. This is  
9 the first runner being fabricated at the shop in China; you  
10 can get a relative idea of how big this piece of equipment  
11 is. These are the wicket gates, this is what's used to  
12 admit the water to the runners. We're getting a new set of  
13 fabricators so that we can, during the upgrade of Unit 2, we  
14 can put in a new set of the wicket gates, pull out the old  
15 ones, and it will speed up the overall outage time when the  
16 old units are taken out, they'll be taken overseas,  
17 fabricated and refurbished, and we'll use them on the next  
18 unit.

19           The picture in the upper right is the shaft that  
20 connects the runner to the generator at No. 2. This is best  
21 smoothed in the shop there on site, being inspected.

22           These are a few pictures of the new generator  
23 motor stator being constructed onsite, in the north  
24 warehouse. This is the exterior of the frame, this will be  
25 -- this whole unit will be -- that could be picked up as a

1 unit, set down inside the foundation. This is just a  
2 picture of them setting up the seal to make up the ring for  
3 the generator.

4           Some of the other projects that are going on as  
5 part of the upgrade, indicated where we're modifying the  
6 spiral cases, stay vanes for the changing flow. We're  
7 refurbishing the wicket gates. We're refurbishing the field  
8 pole, the thrust bearing system on the generator.  
9 Refurbishing and rewinding the starter motors for Units 1  
10 and 6, the stator motors.

11           Installing more breakers, and installing new 30  
12 bus breakers and switches and also static exciters and  
13 bolted --.

14           One of the proposed actions that we included in  
15 the Pre Application Document are to continue to operate the  
16 project to generate during off-peak hours, and pump during  
17 the low demand period. During the work on the existing  
18 infrastructure improvements we've made, and with the new  
19 upgrade and overhauls, there's no other planned, circle  
20 changes in their future.

21           Continue utilization and development of the  
22 existing barrier -- or the seasonal fish barrier net, and  
23 we're going to continue to provide for the operation and  
24 maintenance of the five existing recreation sites and  
25 develop a culture resource management plan.

1           Before we started into the upgrade process, we  
2 realized that when we were going through relicensing, the  
3 project itself will be 50 years old so it will be eligible  
4 for listing on the National Register of Historic Places. So  
5 part of the relicense would have been to do an historic  
6 assessment anyway; so we went ahead and did that before we  
7 did any modifications to the plant, so we could have a good  
8 baseline.

9           So part of the resource management plan will be  
10 to indicate what we will need to do to get the project on  
11 the National Register of Historic Places.

12           Back to Janet.

13           MS. HUTZEL: All right. The National  
14 Environmental Policy Act, NEPA, requires us to analyze the  
15 effects that the licensing may have.

16           Eventually we will issue a final and draft EA, it  
17 will contain our recommendations to the Commission as to  
18 whether or not we think that the project should be licensed  
19 and if so, what the conditions would be in the license. And  
20 scoping is the first step in the process.

21           So we're here tonight to basically get public  
22 input and comment on our scoping document; to identify the  
23 issues associated with the project -- and we have identified  
24 some, and we're also here to see if there are some we  
25 missed, and you think there's things that are being

1 affected.

2 To discuss the existing information and discuss  
3 any study needs.

4 Aaron, would you do the aquatics?

5 MR. LIBERTY: So my name is Aaron Liberty, I'm an  
6 aquatic biologist with FERC. So what I'd like to do now is  
7 just walk you through that Section 4.2 of our scoping  
8 document, which begins on page 15. As Janet said, this is  
9 really just our preliminary list of environmental issues  
10 that we think warrant discussion as part of our  
11 environmental document.

12 So again, this is the real reason why we're here  
13 tonight. I'm going to go through the aquatics section,  
14 which I'll be handling, and I'm also filling in for our  
15 terrestrial biologist tonight, so I'm going to walk through  
16 that section with you guys as well.

17 At the end of each of these sections, I'll open  
18 it up for comments. You can have any comments on the  
19 sections, if you think we missed the mark or we need to add  
20 something, please let us know. And as Janet said earlier, I  
21 ask that if you do have comments, please step up to the  
22 podium and state your name for the benefit of the court  
23 reporter.

24 So starting on page 15 of the scoping document,  
25 we've identified three issues that we think need to be

1 discussed as part of our environmental document. The first  
2 one being the effects of accidental spills of oil, grease,  
3 lubricants, et cetera on water quality.

4           Second one is the effects of project operation on  
5 water quality, particularly DO, water temperature and  
6 turbidity, in Lake Michigan.

7           And the last bullet: The effects of fish  
8 entrainment associated with pumping operations on fish  
9 populations, including state-listed species in Lake  
10 Michigan.

11           Does anyone have any comments on the aquatics  
12 section?

13           Okay, hearing none, I'll move on to Terrestrial  
14 Resources. And we have identified four issues on  
15 Terrestrial Resources. First one being the effects of  
16 continued project operation including reservoir fluctuations  
17 on riparian, littoral and wetland habits and associated  
18 wildlife.

19           The effects of continued project operation  
20 including maintenance activities such as road maintenance,  
21 transmission line maintenance and rights-of-way vegetation  
22 management, on wildlife habit and associated wildlife.

23           The next two being, the effects of continued  
24 project operation on the introduction, establishment and  
25 spread of invasive species.

1           And the last one, the effects of continued  
2 project operation on Michigan state species of special  
3 concern, including bald eagle, marsh wren, eastern box  
4 turtle, and ginseng.

5           Any comments on Terrestrial Resources?

6           And if you do go home later and you think that  
7 there's something else that needs to be analyze as part of  
8 our scoping document, as Janet said earlier, comments are  
9 due on May 21st so you can always provide those in written  
10 form.

11           MS. HUTZEL: For under Threatened and Endangered  
12 Species, we have identified the effects of project operation  
13 on federally endangered Indiana bat, the piping clover, the  
14 karner blue butterfly, and the federally threatened  
15 pitcher's thistle.

16           For Recreation and Land Use Resources, we've  
17 identified the issue as the adequacy of existing rec  
18 facilities in the project boundary to meet the current and  
19 future recreation demands.

20           And for Cultural Resources, we've identified the  
21 effects of the proposed action on properties included in, or  
22 eligible for inclusion in the National Register of Historic  
23 Places.

24           Are there any issues concerning -- or any  
25 comments on the issues we've identified?

1           No? Okay. Next part of scoping is essentially  
2 Request for Information and Studies. Like I said earlier, I  
3 know the ILP, Consumers and DTE conducts their studies early  
4 on to determine the effects that the project has on various  
5 resources.

6           So information includes identifying the  
7 geographic and temporal scope and the issues. We identified  
8 data that describes the existing environment and effects of  
9 the project operation on environmental resources. We also  
10 document any reasons showing why any resource or identified  
11 issues should be excluded from further study or  
12 consideration. And then study requests help provide a  
13 framework for collecting info on resources that may be  
14 affected by the project.

15           And these are the seven Study Criteria. If  
16 you're going to file a study request that you think is  
17 necessary to assess the effects the project has had, you  
18 have to explain under each one of these criteria; you have  
19 to describe the goal and objective of the study; the  
20 relevant resource management goal; why this study is needed  
21 for the public interest. You need to describe what existing  
22 information is already out there and why there's a need for  
23 additional information; you have to explain the nexus  
24 between the project operation and the effect, and this one  
25 is pretty key; you have to explain to us how the project

1 would affect the resource. You want to describe the  
2 methodology that you'd want used to conduct the study, and  
3 then any level of effort and the cost of the study. Tell  
4 them why an alternative study is needed, especially if  
5 Consumers and DTE is proposing a study and you want an  
6 alternative one.

7           And this is all in Appendix A of Scoping Document  
8 1.

9           Any questions?

10           Okay. And each of the studies they're proposing.

11           MR. McINTOSH: During the development of the pre  
12 application document, we identified several studies that we  
13 felt needed to be conducted during the study phase of the  
14 process. Historic resources, we propose to do a wildlife  
15 botanical survey to identify any potential rare, threatened  
16 and endangered species that might be within the project  
17 boundary.

18           Basically this is an intuitive meander approach  
19 by qualified persons, walking the boundary -- the property,  
20 looking for potential habitat. We're not proposing a  
21 species-specific survey; rather, there will be some  
22 additional focus for like pitcher's thistle, but nothing,  
23 focus looking for one species.

24           Second study we've proposed is to use the  
25 existing FERC Form 80 survey process to identify recreation

1 land use. That's a periodic survey, it occurs every six  
2 years, and it just happens to fall inside, It's being  
3 conducted this year, this summer for the year 2014. So it  
4 just coincided with a relicensing, so we thought we'd just  
5 use the data for that part, Recreation and Land use.

6           And then the Cultural Resources survey is  
7 basically a study of a property within the boundary looking  
8 for any cultural resources sites. We've already done a  
9 couple smaller ones inside the site; this will finish up all  
10 the remaining, undisturbed property within the project  
11 boundaries.

12           So identifying any sites that we need to protect  
13 or mitigate any cultural resource materials there.

14           MS. HUTZEL: The comments in SD1 and all study  
15 requests are due by May 21, 2014. This is a pretty hard and  
16 fast date; this is in -- Section 6 of the scoping document  
17 explains how you can file comments on our scoping document  
18 and how you can file study requests. We highly recommend  
19 that you electronically file. We still get our mail  
20 irradiated, and we don't want anyone to miss the deadline.

21           If you're going to file, you need to on the first  
22 page put down it's the Ludington Pumped Storage Project, and  
23 it is very necessary for you to put down "P-2680-108"; that  
24 is how we have our filing system. If the Docket No. is not  
25 on the letter, we may not get it. And like I said, we

1 encourage you to electronically file.

2           At this point are there any oral comments or any  
3 questions? We're pretty close to the end of at least the  
4 FERC presentation.

5           If not, going forward, Appendix B of the scoping  
6 document has all the dates by which things must be filed or  
7 things, documents will be issued by the Commission.  
8 Everything that is issued or filed with the Commission is in  
9 our eLibrary, and that's [www.FERC.gov](http://www.FERC.gov); and the Docket No.  
10 is P-2680. I would highly encourage you to eSubscribe, and  
11 that allows you to get notified of everything that is filed  
12 with the Commission for this project and everything that is  
13 issued by the Commission for this project.

14           And like I said, the next step is the filing of  
15 the comments from the scoping document and any comments on  
16 their PAD, Preliminary Application Document, and any filings  
17 of study plans or study plan requests.

18           Any question?

19           If not, then that concludes the scoping meeting.  
20 Consumers does have a video and some more pictures of the  
21 plant if you'd like to stick around and look at that.

22           Thank you.

23           (Whereupon, at 6:47 p.m., the evening scoping  
24 meeting concluded.)

25