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UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Loup River Public Power District
Project No. 1256-029-Nebraska

Loup River
Hydroelectric Project
(FERC No. 1256-029)
Scoping Meeting

Holiday Inn Express
January 13, 2009

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P A N E L

- KIM NGUYEN - Project Coordinator
- MARK IVY - Outdoor Recreation Planner
- NICK JAYJACK - Fisheries Biologist
- DAVID TURNER - Wildlife Biologist

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P A R T I C I P A N T S

DAVE CARLSON - U.S. Fish & Wildlife Service, Denver.
LISA RICHARDSON - HDR
DENNIS GRENNAN - HDR
RON ZIOLA - Loup River Public Power District
JEFF RUNGE - U.S. Fish & Wildlife Service
JASON ALEXANDER - U.S. Geological Survey
MATT PILLARD - HDR
RANDY THORESON - NPS - Rivers, Trails & Hydro
Program
GEORGE WALDOW - HDR
ROBERT HARMS - U.S. Fish & Wildlife Service
PAT ENGELBERT - HDR
JIM FREAR - Loup River Public Power District
JEFF SCHUCKMAN - NE Game & Parks
DAVE TUNINK - NE Game & Parks
JOHN BENDER - NE Department of Environmental Quality
BOB CLAUSEN - Stakeholder/Loup Board of Directors
NEAL SUESS - Loup River Public Power District
FRANK ALBRECHT - NE Game & Parks
BRIAN BARELS - Nebraska Public Power District
JOHN COCHNAR - U.S. Fish & Wildlife Service

1 (The following proceedings were
2 had, to-wit:)

3 MS. NGUYEN: Good morning. Welcome to
4 another day of FERC's meeting. This is the daytime
5 meeting for the scoping of the Loup River
6 Hydroelectric Project. My name is Kim Nguyen. I'm
7 a civil engineer and the project coordinator for the
8 relicensing of the project.

9 I'd like to take care of some housekeeping
10 items before we get started. I'd like to keep this
11 meeting as informal as we can. That's why we have
12 it set up this way. Most of our presentation is
13 going to be from our scoping document. I have extra
14 copies in the back of the room if you want to grab
15 one of those.

16 The meeting is being transcribed by a
17 court reporter, and her report will be filed with
18 the Commission and be part -- made part of the
19 record. So to assist her before speaking for the
20 first time, if you could state your name, spell your
21 last name, that would help her a lot.

22 Next on our agenda is we'll go through
23 some introductions, the purpose of scoping and why
24 we're here, the request for the kind of information
25 we're looking for, and then we'll have a brief

1 presentation by Loup River Power District to go over
2 the project features, operations, and their proposed
3 environmental measures and studies.

4 And then we'll discuss the scope of
5 cumulative effects followed by a discussion and
6 comments from all of you on each of the resource
7 areas. And then we'll end up with the schedule of
8 the EA and ILP processing plan and schedule.

9 With that I'd like to start with the
10 introductions. Like I said, I am Kim Nguyen. I'm a
11 civil engineer and I am the project coordinator for
12 the project. And I'd like my colleagues to
13 introduce themselves and all of you to introduce
14 yourselves too, please.

15 MR. JAYJACK: I'm Nick Jayjack with FERC,
16 fishery biologist.

17 MR. TURNER: David Turner, wildlife
18 biologist.

19 MR. IVY: And I'm Mark Ivy, outdoor
20 recreation planner.

21 MR. CARLSON: Dave Carlson, biologist with
22 U.S. Fish & Wildlife Service in the Denver Regional
23 Office.

24 MS. RICHARDSON: Lisa Richardson with HDR,
25 the district's consultant on relicensing.

1 MR. GRENNAN: Dennis Grennan with HDR
2 also.

3 MR. ZIOLA: Ron Ziola with Loup Power
4 District.

5 MR. RUNGE: Jeff Runge with the Fish &
6 Wildlife Service out of Grand Island, Nebraska.

7 MR. ALEXANDER: Jason Alexander with U.S.
8 Geological Survey out of Lincoln, Nebraska.

9 MR. PILLARD: I'm Matt Pillard. I'm also
10 with HDR.

11 MR. THORESON: I'm Randy Thoreson,
12 National Parks Service, Rivers, Trails & Hydro
13 Program, Midwest Region.

14 MR. WALDOW: George Waldow with HDR.

15 MR. HARMS: I'm Bob Harms with Fish &
16 Wildlife Service.

17 MR. ENGELBERT: Pat Engelbert with HDR.

18 MR. FREAR: Jim Frear with Loup Power.

19 MR. SCHUCKMAN: Jeff Schuckman with the
20 Game & Parks Commission. I'm a fisheries manager.

21 MR. TUNINK: David Tunink, Game & Parks
22 Commission, Fishery Division out of Lincoln.

23 MR. BENDER: John Bender, Nebraska
24 Department of Environmental Quality.

25 MR. CLAUSEN: Bob Clausen. I'm a

1 stakeholder, and I'm on the Loup Board of Directors.

2 MR. SUESS: Neal Suess. I'm president and
3 CEO of Loup Power District.

4 MR. ALBRECHT: Frank Albrecht, Nebraska
5 Games & Parks Commission, Realty and Environmental
6 Services Division.

7 MR. BARELS: Brian Barels with Nebraska
8 Public Power District.

9 MS. NGUYEN: Thank you. The purpose of
10 scoping and why we're here. NEPA and our
11 regulations and other applicable laws requires an
12 evaluation of environmental effects of licensing and
13 relicensing of hydropower projects.

14 The scoping process is used to identify
15 concerns from federal, state and local resource
16 agencies, Indian tribes, nongovernment
17 organizations -- or NGO's -- and then other
18 interested parties. We also use scoping to
19 determine the resource area, depth of analysis and
20 significance of issues to be addressed in our
21 environmental assessment.

22 Scoping can help us identify how the
23 project would or would not contribute to cumulative
24 impacts in the project area, and identify reasonable
25 alternatives to the proposed action.

1 Lastly, scoping can help us determine the
2 resource area and potential issues that do not
3 require a detailed analysis.

4 The type of information that we seek
5 include, but are certainly not limited to,
6 information, qualified data or professional opinions
7 that may help define the geographic scope;
8 identification of information from any other
9 environmental document or similar previous, ongoing,
10 or planned studies relevant to the proposed
11 licensing of the project; any information or data
12 describing past and present conditions in the
13 project area; any resource plans and future
14 proposals in the project areas.

15 And this information can be given orally
16 today, mailed to the Commission or filed
17 electronically. And all of those directions are in
18 our scoping document.

19 Now, let's learn a little bit about the
20 project from Neal.

21 MR. SUESS: Okay. I'm sure most of you
22 have heard a lot of this, but I will go through what
23 I did last night.

24 First of all, I'm Neal Suess, President
25 and CEO of Loup Power District. And other

1 individuals on our team who you will see during the
2 course of this from Loup Power District, Ron Ziola
3 who is our vice president of engineering; Jim Frear
4 who is a senior engineering technician and basically
5 is our expert on all canal matters. Also with us
6 today, Pop Clausen who is our board member and like
7 he said before, stakeholder.

8 And then our consulting engineers who
9 we've brought on board: Lisa Richardson from HDR,
10 George Waldow from HDR, Dennis Grennan from HDR,
11 Matt Pillard from HDR, and Pat Engelbert from HDR.
12 And that's the main HDR team that we have in place
13 at this moment in time.

14 The slide that you see on the screen right
15 now is an animated overview of the canal system, the
16 bypass reach and the power houses, including our
17 regulating reservoirs Lake Babcock and Lake North.
18 And we're going to show some pictures of each of the
19 separate sections of that as we go on through here.

20 What you see here -- and some of you guys
21 were out there yesterday on the tour. This is the
22 overhead view looking north of the Genoa headworks
23 area. What you see is the Loup River upstream of
24 the diversion into the canal and sluice gates that
25 allow the bypass into the bypass reach of the Loup

1 River.

2 The diversion weir that you see kind of on
3 the bottom left-hand side of the screen, that's used
4 to divert the water from the river to the settling
5 basin -- or into the intake gate structures and to
6 the sluice gate structures.

7 That diversion weir is built up of wood
8 every year and then sacrificed during the spring ice
9 floes. There's a concrete basin there and then we
10 build it up with wood every year to allow that
11 diversion.

12 The sluice gate structure that you see,
13 that allows -- the three gates there, that allows
14 water to flow into the bypass reach of the Loup.
15 The intake gate structure allows the water to flow
16 into the settling basin. We'll talk more about each
17 of those a little bit as we get through here.

18 You see the headworks office and shop and
19 equipment shed. Those are where we store our
20 equipment and where we have our individuals at
21 during the day when they're not out working on the
22 settling basin or on the gate structures.

23 The gate operator's house is where we
24 house our gate operator. We have a full-time person
25 who lives out at that house, and his job is

1 basically to monitor the water levels and the gate
2 levels on both the sluice gate structure and the
3 intake gate structure.

4 We have a boiler house which is used to
5 house our boiler system. That's a propane boiler
6 system that we use to steam the gates open during
7 the winter months when we need to allow additional
8 water to open those gates and/or close the gates to
9 allow the water in the settling basin.

10 And then the settling basin that you see
11 there, what happens in the settling basin is the
12 water comes in and slows down and allows the
13 sediment that's in the Loup River water to settle
14 into the bottom of the basin. That sediment, which
15 is basically sand, is then dredged out to both the
16 north and south side management areas. And we'll
17 talk about that in a little bit more detail as we go
18 through here.

19 This you see is the inlet structure. It's
20 a view of the inlet structure from the Loup River
21 side of the formation. There are 11 gates on the
22 structure. Again, it allows the flow from the river
23 into the settling basin, and then during the winter
24 months we use steam from the boiler to keep those
25 gates open and -- and maneuver -- and our ability to

1 maneuver and open and close those gates as necessary
2 to operate the canal and the settling basin.

3 These are the sluice gates, and it's a
4 view of the sluice gates from the bypass reach of
5 the Loup River. There are three sluice gate
6 controls which are allowed to control the flow into
7 the bypass reach. They are used when we -- for
8 operational reasons when we can't take any
9 additional water into the settling basin either from
10 maximum -- that are already taking maximum flows or
11 for other operational concerns at that point in
12 time.

13 Once past the sluice gates the flow goes
14 onward to Columbus and to the Platte River.

15 This is a picture of our dredge. The
16 dredge is named the Pawnee. The dredge is used to
17 remove sediment and sand from the settling basin and
18 then on to the north and south sand pile areas. It
19 uses electricity to run its pump.

20 Ron, I believe that's a 2,500-horsepower
21 pump, right?

22 MR. ZIOLA: 2,500 horsepower motor to
23 operate it.

24 MR. SUESS: There are 13 discharge
25 stations on the south side of the settling basin and

1 15 discharge stations on the north side of the
2 settling basin. Dredging occurs during the months
3 of March through May and August through November,
4 weather permitting, basically. Once it gets cold,
5 we do stop dredging and then we take time off during
6 the summer due to bird issues on the north sand
7 management area.

8 Approximately one and a half million to
9 two million tons of sand are removed from the
10 settling basin each year by the dredge and pumped to
11 both the north and south side areas.

12 Currently our district board has approved
13 staff looking into the purchase of a new dredge, and
14 we expect to proceed with that over the next couple
15 of years and probably have a new dredge in place.
16 This is an original piece of equipment from the
17 1930s, and it is getting to the point where it is
18 getting cost prohibitive to repair that particular
19 dredge, so we're looking at a new dredge at that
20 point in time.

21 And in 2006 we reached an agreement with a
22 company, now called Preferred Rocks, to remove sand
23 from the north sand management area. They are
24 currently in the process -- they are getting their
25 plan up and running. It's been slow to take as far

1 as what their removal has been, but they have been
2 working on the north sand management area to upgrade
3 their operations.

4 What you see here is the Monroe power
5 house and the substation looking to the southwest.
6 The power is transmitted out of the substation at
7 34.5 kilovolts. There are three turbines at the
8 Monroe power house, each capable of generating about
9 2 1/2 megawatts. Each turbine can pass 1,000 cubic
10 feet per second of water flow, and then there's an
11 additional radial bypass gate that can pass water
12 through this section of the canal from the headworks
13 through the Monroe power house and on to the
14 regulating reservoirs at Lake Babcock and Lake
15 North.

16 The canal can take approximately
17 3,500 cubic feet per second of water. That's
18 basically the design limit of the canal and also our
19 water limitation under our water right with the
20 Department of Natural Resources.

21 So if we have 3,500 cubic feet per second
22 in the canal, a thousand from each of the turbines
23 at Monroe power house, and then the additional
24 radial gate can pass additional water. The
25 additional radial gate can pass most all of the

1 3,500 cubic feet per second if we have that running
2 at the time. So we would not necessarily need to
3 generate the power and we could still pass
4 3,500 cubic feet per second through this particular
5 location.

6 This is a picture of the Columbus power
7 house looking to the north. There are three
8 turbines, each capable of generating approximately
9 15 megawatts from them. Each turbine can pass
10 2,060 cubic feet per second of water through them.
11 There is a limit due to the intake canal capacity.
12 That's the capacity coming from Lake North and Lake
13 Babcock into the Columbus power house. That canal
14 capacity is 4,800 cubic feet per second. Columbus
15 has no bypass capability other than through the
16 turbines. Generation at the Columbus power house is
17 done on what I would call hydrocycling or peaking
18 basis based upon input from NPPD.

19 NPPD schedules the amount of power that
20 they need from the power houses, and we generate it
21 to meet their schedule. With the exception of if we
22 have operational concerns that we need to generate
23 differently, we generally follow NPPD's schedule at
24 that point in time.

25 Going back just for a second to Monroe.

1 Monroe is basically a run of the river. Whatever
2 comes in either gets generated or bypassed at
3 Monroe. We do have the ability, again, at Lake
4 North and Lake Babcock to pond for a short period of
5 time -- no more than 24 hours total that the water
6 can stay there -- and then it comes through the
7 Columbus power house.

8 If we go back to Columbus, then, we
9 generally -- there are generally two times during
10 the day that we use for peaking purposes on that; in
11 the morning to the meet morning peak when people are
12 waking up and then the afternoon peak to meet the
13 night peak at night hours, and then late at night
14 when NPPD might need that during the summer for
15 irrigation purposes.

16 This is a view of the outlet weir looking
17 east. This is down at the confluence of the
18 tailrace canal and the Platte River. It is
19 approximately one mile downstream with the
20 confluence of the Loup River and the Platte River
21 and there's parks on both sides of that outlet weir.

22 Finally, we have the studies that we have
23 proposed in our preliminary application document.

24 The sedimentation study to determine if
25 the project affects sediment transport within the

1 bypass reach and the Platte River downstream of the
2 canal.

3 Hydrocycling study to determine the effect
4 of the project on the hydrograph and the stage of
5 the Platte downstream of the canal.

6 Water temperature in the Platte River --
7 to determine if the project affects temperature in
8 the lower Platte River; water temperature in the
9 Loup River bypass reach to determine if the project
10 affects temperature in the Loup River bypass reach.

11 Flow depletion in the Loup River bypass
12 reach -- to determine the magnitude of the flow
13 reduction in the Loup River bypass reach due to
14 project operation.

15 Fish sampling -- to determine the species
16 abundance, composition and distribution of sports
17 fisheries in the canal.

18 Fish passage study -- study of the flow at
19 the diversion weir and the sluice gate structure to
20 analyze if a reasonable pathway exists for fish
21 movement upstream from the point of diversion.

22 The recreation users survey -- to
23 determine the public awareness, usage and demand of
24 existing recreation facilities.

25 Creel survey -- to determine the status of

1 project fisheries and how they're used by anglers.

2 The land use inventory -- to determine
3 land use of properties abutting the project to
4 identify potential conflicts and opportunities.

5 And then Section 106 compliance. The
6 project is considered to be an historic district,
7 and we're developing a plan to develop a
8 relationship between the state historical
9 preservation office and the district to protect the
10 historic resource.

11 That's all of my presentation at this
12 moment in time.

13 MS. NGUYEN: Thank you, Neal. Next item
14 on our agenda is called the scope of our cumulative
15 effects. After our review of the PAD, we have
16 identified three threatened endangered species that
17 may be cumulatively affected by the project: The
18 piping plover, the interior least tern and the
19 pallid sturgeon.

20 Our geographic scope of analysis for these
21 three species is defined by the physical limits or
22 boundaries of: The proposed action's effects on the
23 species, and contributing effects from other hydro
24 and non-hydro activities within the area. We have
25 tentatively identified the Loup River basin and the

1 lower Platte River to its confluence with the
2 Missouri River as our geographic scope.

3 The temporal scope of our cumulative
4 effect analysis includes an analysis of the past,
5 present and reasonably foreseeable future actions
6 based on a potential term of license of 30 to 50
7 years. So that's our temporal scope, 30 to 50
8 years.

9 Now we'd like to talk about resource
10 issues and why we're here. And as I go through each
11 of these resource areas, I'll open it up for
12 comments or questions any of you might have.

13 I'll do the first three, which is geology
14 and soils, cultural and developmental, and then my
15 colleagues will take the rest of the resources.

16 So for geology and soils we have
17 tentatively identified the effects of continued
18 operation and maintenance of the project and
19 recreational boating on shoreline erosion of the
20 canal and the bypass reach.

21 Our cultural resource includes any effects
22 of continued project operations and maintenance on
23 cultural, historic, archeological and traditional
24 resources in the project area potential effects, and
25 their eligibility to be included in National

1 Register of Historic Places.

2 Developmental resources. What we look for
3 there is any effects the project might have on the
4 power economics of the project, and this includes
5 any recommended alternatives, environmental
6 alternatives and the like.

7 So these are tentatively what we have
8 identified as issues for these three resource areas.

9 Does anybody have any questions or
10 comments about these three resources? No. Let's go
11 on to the aquatics.

12 MR. JAYJACK: This is Nick Jayjack from
13 FERC. If you have your scoping document in front of
14 you, it probably is easiest for you to follow along
15 with me. It starts on page 13, Section 4.2.2
16 Aquatic Resources. And what I'll do is I'll go and
17 I'll read each of the issues that we've identified
18 based on a review of the PAD and the meeting minutes
19 from previous minutes that you all have had here
20 regarding seeking information for the project and
21 identifying issues.

22 The first bullet on page 13 under aquatic
23 resources is -- identifies the issue of the effects
24 of project diversions on water temperatures in the
25 Loup River bypass reach below Genoa.

1 The next one -- effects of the project
2 diversions on bacteria levels in public water wells
3 adjacent to the bypass reach.

4 Effects of project operations on water
5 quality, including the following parameters we've
6 listed there: Dissolved oxygen, E. coli, pH, and
7 temperature. And we're going to look in the power
8 canal and the regulating reservoirs in particular.

9 Effects of the project diversions and flow
10 fluctuations on aquatic habitat, including concept
11 of aquatic habitat connectivity and distribution of
12 species, and of habitat and aquatic species in the
13 Loup River below the project diversion structure and
14 in the lower Platte.

15 The little asterisk there we have at the
16 end of the bullet designates this particular issue
17 as being one we'll look at the cumulative effects,
18 meaning we'll look at the effects of the project in
19 conjunction with other factors and other effects
20 that are taking place on these species in this
21 geographic area.

22 The next issue is effects of peaking or
23 hydrocycling, as is commonly termed here, on aquatic
24 habitat and aquatic species below the Columbus
25 tailrace section and in the lower Platte River. And

1 then again, this is an issue for cumulative effects
2 analysis.

3 The next one -- effects of intermittent
4 flow releases from the Columbus tailrace canal into
5 Lost Creek on aquatic resources and aquatic habitat
6 in Lost Creek.

7 Effects of the diversion weir on fish
8 passage and aquatic species distribution and life
9 histories in the Loup River.

10 And finally effects of peaking operations
11 on fish stranding and mortality in the tailrace
12 canal and the lower Platte River.

13 So at this point I'd like to have a little
14 discussion -- I have a few questions on a couple of
15 these issues. What I want to do here today with
16 regard to these issues is perhaps refine them
17 somewhat, and I have some questions as to how broad
18 do you want to look at these.

19 And if you have any questions for us, I
20 would appreciate those as well, including if we've
21 missed any issues that should be included in this
22 list or your opinions as to whether or not these
23 issues really need to be looked at in our
24 environmental assessment or whether these issues
25 have been addressed through other conversations

1 we've all had and should be removed from the list.

2 So I'll start out and see if you have any
3 questions or comments first, and then I'll ask my
4 questions that I have.

5 MR. HARMS: Bob Harms, Fish & Wildlife
6 Service. I know that you folks have probably seen
7 our letters that we sent. We filed those with FERC.
8 Have you seen them, the two? There's a letter dated
9 July 21, and then there's a supplementary letter
10 dated September 18. Have you seen those?

11 MS. NGUYEN: Was that filed as part of the
12 PAD or comments to the PAD?

13 MR. HARMS: Yeah. They're not in response
14 to the PAD. They're in response to some of the
15 scoping meetings. There wasn't really a document,
16 but they're filed with FERC. There's two letters.

17 But anyway, my point is this. On our
18 second supplementary letter we identified issues
19 with PCBs -- PCB contamination in the canal.
20 There's been some discussion about that. I know
21 there was some discussion yesterday, how could
22 have -- is this something that's a real issue?
23 Where did that originate from?

24 I think for us, we would like to see an
25 evaluation included here in addition to E. coli, pH.

1 We would want to see maybe further sediment testing,
2 PCB's as well as -- atrazine is a big deal, too.
3 It's an agricultural chemical. We would like to see
4 that be included in this list.

5 We -- I'm kind of -- I'm not really doing
6 our letter justice here. We provided a lot more
7 detail in our letter, and if you haven't seen it,
8 we'd -- I could provide that to you separately here.

9 MS. NGUYEN: I'm sure if you filed it we
10 have it.

11 MS. RICHARDSON: It was in the appendix of
12 the PAD, both of those letters.

13 MR. HARMS: Jeff or John or Dave, any
14 other items that we need to provide some input here
15 for Nick that you can think of? What am I missing?

16 MR. RUNGE: This is Jeff Runge, R-U-N-G-E,
17 and I guess I will hold my comments until after we
18 get the full list of issues identified by FERC or
19 studies identified by FERC, and then we will capture
20 what we felt has been left out and provide those at
21 the end.

22 MS. NGUYEN: Are they aquatic in nature?

23 MR. RUNGE: Yes, they are.

24 MS. NGUYEN: Because this is the time we
25 would like to talk about those issues.

1 MR. WALDOW: Can I address the point on
2 the table? George Waldow with HDR.

3 One of the Fish & Wildlife people
4 yesterday asked me about the PCB issue and why --
5 why we didn't have a study proposal on that, and I
6 had to open the PAD to refresh my memory, but the
7 information we had is that there had been reports of
8 PCBs in the fish tissue in the tailrace segment of
9 the project only downstream of the Columbus power
10 house between the power house and the Platte River.
11 And that was, I believe, dated from the late '90s.

12 And there was subsequent testing done in
13 2003, I believe, and there was no PCB contamination
14 identified. And there, to my knowledge, has been no
15 sediment sampling either above or below Columbus
16 power house. So the only evidence of this
17 contamination was one sampling where they found some
18 fish with PCBs in them.

19 It's entirely possible that those fish
20 came from the Platte River which is also
21 contaminated by PCBs in that particular reach where
22 the tailrace enters it, according to the records we
23 found.

24 So lacking any evidence from the district
25 of any PCB spills or known contamination in the area

1 of the project, we said that there really is nothing
2 to study because the only contamination was found in
3 fish which are mobile and had the access to come
4 from the Platte River into the tailrace canal, and
5 so we were not able to identify a reasonable study.

6 And we considered whether sediment
7 sampling of Lake Babcock, which has the most
8 sediment, would be an appropriate check, but since
9 there was no reported contaminated fish in Lake
10 Babcock or Lake North, we didn't see the need to do
11 a study, frankly.

12 So, it's mentioned in the PAD. It's
13 discussed as to why we didn't include a study for
14 that, and so I would just draw your attention to
15 those issues.

16 MR. HARMS: Bob Harms, Fish & Wildlife
17 Service. It might be useful for you just to take a
18 look at our letter. The four water bodies were
19 identified in Section 303(D) of the Clean Water Act.
20 One of those is upstream of the Loup River -- the
21 most upstream segment of the Loup River canal as
22 having the PCB issues, and that's because we had
23 identified that. That's why we include that part in
24 our letter. And you folks may not have that
25 information.

1 MR. RUNGE: The furthest upstream location
2 that these fish with PCB in the tissues -- the
3 furthest upstream was documented at the Monroe power
4 house, and so you've all been to the site. You've
5 seen the two-foot weir that the fish would have to
6 jump to get into that system, and then they would
7 have to go all the way upstream through the Columbus
8 power house, up the pen stocks to get to that Monroe
9 power area.

10 For that to occur, to me that's quite an
11 obstacle for these fish to move upstream and to move
12 all the way to the Monroe power house if those fish
13 were actually contaminated in the lower Platte
14 system. And there isn't a documentation of these
15 contaminated fish upstream of the Monroe power
16 house, and so that seems to be the stopping point --
17 at the power house. And then downstream they've
18 identified these fish captures.

19 MR. JAYJACK: Meaning you suspect they're
20 coming out of Lake North and Lake Babcock and
21 migrating up the power canal? I'm not sure what
22 you're trying to say here.

23 MR. RUNGE: For this fish to be
24 contaminated in the lower Platte and to move all the
25 way upstream, all the way up to the Monroe power

1 house where they've documented PCBs in the tissue,
2 they would have to go upstream of that tailrace,
3 that two-foot tall concrete barrier tailrace, and
4 then move all the way through the Columbus power
5 house which would mean they would have to move
6 through the turbines and upstream through those pen
7 stocks in order to get to that furthest upstream
8 point which is the Monroe power house.

9 MR. WALDOW: I would agree with Jeff
10 that -- the fact is that they found the fish
11 upstream at Columbus power house. They did not move
12 upstream. That's not a point we would dispute. It
13 would be unheard of for fish to go through turbines
14 upstream 112 feet and then over the weirs and on up
15 to Monroe.

16 But looking at the letter it needs to be
17 reviewed to see if, indeed, there was -- it talks
18 about contamination, but I'm not sure -- it's
19 unclear to me whether it was PCBs. It just needs to
20 be explored further.

21 MR. TURNER: Is there any data on
22 contaminants in the upper loop that would have been
23 passing through this?

24 MR. RUNGE: No. That's the furthest
25 upstream location of it, the PCB contamination. The

1 rest is downstream of the Loup.

2 MR. PILLARD: This is Matt Pillard. This
3 is all fish tissue, right? Any noted contamination
4 is noted in fish tissue; is that correct? So when
5 we say contamination it's fish tissue?

6 MR. RUNGE: Yes, it is.

7 MR. PILLARD: Okay. I just wanted to make
8 sure that's what we're talking about is fish tissue
9 not sediment.

10 MR. RUNGE: But I guess they acknowledge
11 that there hasn't been extensive or any sediment
12 sampling, so it's difficult to say whether it's
13 present or not present. It's just something that we
14 would like to investigate as part of the study.

15 And who knows what the remediation may be?
16 Knowing FERC and their experiences nationwide, that
17 remediation may be that it's best to just leave it
18 alone or there may be some type of active way of
19 addressing this, but first it's just looking to
20 see -- actually sample to see whether or not there
21 is that level of presence in that system.

22 MR. HARMS: Our contaminants biologist
23 Matt Schwartz was with us yesterday. He couldn't
24 make it today. Otherwise, he could speak in a lot
25 more detailed way to some of these things than we're

1 able to today.

2 MR. TUNINK: Dave Tunink, Games & Parks
3 Commission. I know the DEQ has done some sampling
4 and they target species such as carp and channel
5 catfish for their analysis for contaminants, and
6 those fish are very migratory. So they could come
7 out of the Missouri River, which has PCB levels, and
8 migrate up the Platte, up the Loup and back down the
9 canal. Fish are very mobile. So I don't know,
10 John's probably got the list of what's been sampled
11 over the many years.

12 MR. BENDER: No, I don't.

13 MR. TUNINK: Not with him today.

14 MR. BENDER: John Bender, Department of
15 Environmental Quality, and I'm not one to speak
16 about our fish monitoring network because I don't
17 have a whole lot of knowledge about it.

18 What I do know is that we have identified
19 PCBs in the canal where that PCB entered the fish.
20 Where those fish originated from we don't know. We
21 will be back in the basin doing sampling in the
22 summer of 2009. We'll be back then and I think
23 George said that -- we've supplied all of this
24 information up front for the PAD.

25 The first identification of an impairment

1 was back in the late '90s. The last revisit, I
2 believe, did come up clean.

3 Now, I don't know if this -- certainly
4 we'd like to know, but is it worth spending a lot of
5 resources on finding out the answer? Because in my
6 mind the levels that we're finding are decreasing.
7 We expect if we had a null hypothesis that it would
8 be that we wouldn't find them this summer, and then
9 we could remove that impairment from our 303(D)
10 list.

11 But we don't know yet. I guess even if we
12 did find low levels of PCB's that triggered
13 continued listing, what we know about this compound
14 is that it's probably better to leave it in place
15 rather than going to digging up the countryside and
16 remobilizing it. So the end result in my mind, at
17 least from the environmental agency, would be to
18 leave it in place and accept the low level of
19 leaching because we are not using it. It's been
20 banned. We don't have it in use anymore, and the
21 only projection is that in the future it will
22 degrade. And it's better to accept that low level
23 of it rather than mobilize it and getting an extreme
24 amount over a short period of time.

25 MR. HARMS: Bob Harms, Fish & Wildlife

1 Service. I would like to speak to is it worth it
2 that John had made.

3 In our letter, again September 18, we --
4 the Fish & Wildlife Service did a study on
5 shovelnose shelf sturgeon and pallid surgeon on the
6 lower Platte, and we found PCB contaminated fish.
7 It was built up in their tissues. And shovelnose
8 sturgeon are not the same. They're closely
9 related -- they're not listed -- not yet -- but when
10 we find them in shovelnose, that leads us to think
11 there could be issues with endangered pallid
12 sturgeon, too.

13 In addition to that, a least tern
14 exclusively feeds on minnows, small fishes, and
15 there may be a pathway to at least terns as well.
16 So that's why -- why we think it's an issue.
17 There's a listed species concern there.

18 MR. JAYJACK: Just thinking
19 hypothetically, if we were to list this as an issue
20 and we were to fill in some information gaps by
21 doing a study, what generally speaking do you have
22 in mind? Were you all thinking of sediment sampling
23 in the lakes or in the canal?

24 MR. HARMS: Well, you know, we prepared
25 this letter. I wanted to send something that was

1 more than just here, we have this problem. We
2 wanted to provide kind of the next step answering
3 the very questions you're asking, and we recommended
4 some -- I think some small scale sampling of
5 sediment in the canal just to see what we have. It
6 may be right. It may be a false alarm. But we have
7 enough information to think well, there could be a
8 red flag. And whether to do something about it or
9 leave it alone in place as the best thing, I don't
10 think we're really there yet. At the very least
11 some sediment samplings.

12 MR. BENDER: John Bender. PCBs, mercury,
13 dieldrin are the three contaminants that we find
14 statewide as giving us a problem with fish tissue.
15 Not necessarily in this locale but throughout the
16 state. PCBs are in any part of the state. It's not
17 just restricted to the Columbus area. We've got it
18 in the lower Platte region, as Bob said. We've got
19 it in the Elkhorn. We've got it in the Missouri
20 River. We've even got it out near North Platte.

21 So it was a product that was in widespread
22 use back in the '60s. We all know that if you're in
23 the electric business. And we've eliminated its use
24 now. I don't know what the appropriate response is
25 other than saying you can't use this stuff anymore.

1 MR. JAYJACK: I guess the next question
2 for me would be if it is there -- again just running
3 through the thought process -- if it's there, then
4 we would have to analyze well, how is the project
5 affecting the -- assuming they're contaminated,
6 assuming it's there, how is the project affecting
7 that? I'd be curious to see. I mean, is it a
8 concern that the project will somehow through
9 operations disrupt these sediments and they're
10 reintroduced into the water column and fish are
11 exposed to that, or is it a concern that they're
12 just simply there?

13 I guess that's -- in order for me to
14 generate an issue, these are the types of things I
15 need to understand where the concern is.

16 MR. HARMS: I don't know if we know some
17 of that but -- Bob Harms. That really gets to
18 something that I hope we can talk to a little bit
19 later, and that's the environmental baseline.

20 You know, you had mentioned, Kim, past,
21 present and 30 to 50 years in the future. We have
22 to think of -- figure out how far in the past and
23 decide whether or not it's an issue that is worth
24 looking at and then trying to figure out -- to
25 answer the question, is the movement of water in the

1 canal disrupting the sediments? Some of the stuff
2 we just don't know.

3 MR. ALBRECHT: Frank Albrecht, Nebraska
4 Games & Parks Commission. Question for John. You
5 mentioned 2009 sampling. Was that just fish tissue
6 or is that sediment at all?

7 MR. BENDER: No. We don't do sediment
8 sampling.

9 MR. ALBRECHT: Just fish?

10 MR. BENDER: We do fish tissue. Shock the
11 fish and select representative species of the
12 appropriate size.

13 MR. ALBRECHT: Is that part of your normal
14 sampling plan?

15 MR. BENDER: Yes. That's part of our
16 routine operation.

17 MR. ALBRECHT: So you haven't slated that
18 sample for -- pursuant to these studies or as
19 anything out of your normal?

20 MR. BENDER: No. No. It's not out of our
21 normal stuff, and certainly if FERC wants to
22 identify this as an issue for further study, I can
23 give you the name of the gentleman that coordinates
24 that network within our agency, and you can team up
25 with him. Maybe we could modify what we do and how

1 we do it to give you more information.

2 MR. JAYJACK: Any other questions on that
3 issue?

4 Are there any other issues that we missed
5 that we might want to consider adding or that we
6 should consider adding to this list?

7 MR. HARMS: Possibly. I'm not sure if
8 this is the right spot, but the issue involving
9 depletions from the Platte River system. It means
10 it's an aquatic issue.

11 Originally when we think of depletions, we
12 think of pallid sturgeons and terns and plovers.
13 But there are other fish and wildlife resources,
14 too. But we can take care of that now or wait. I'm
15 assuming there will be a section about --

16 MR. TURNER: It gets covered in both
17 terrestrial and the aquatic and the DNE because
18 you're talking about the geomorphological processes
19 in the bypass region, I'm assuming is where you're
20 going with that, right? That concern?

21 MR. RUNGE: Not exactly. One portion of
22 that is the bypass reach, but also any flow going
23 through the project. There's deliveries to
24 irrigation that the project facilitates. That
25 irrigation would lead to a consumptive use that

1 needs to be evaluated.

2 There's also the different conditions
3 associated with the project there that may lead to
4 increased evapotranspiration or evaporation through
5 the project system and that would be different as
6 if -- compared to if it traveled through a river in
7 system. It may improve conditions. It may worsen
8 conditions. But that water loss would result in a
9 loss in water flow in the Platte -- in the lower
10 Platte River where the three species are at, and
11 that's their habitat.

12 I guess to provide some meaning of the
13 significance of these depletions to the Platte River
14 system is that the Department of Natural Resources
15 has declared the lower Platte River system as fully
16 appropriated, and with that, that fully appropriated
17 is based on water supply or water right holders, but
18 it's also an indication of the declining trends in
19 the hydrograph.

20 And that's sort of a secondary effect. We
21 see the direct effect to species but that is also a
22 secondary effect to existing water right holders,
23 too, to help validate what we were saying about the
24 species.

25 And for our standard, too, we've always

1 looked at projects and have consistently in the past
2 used a tenth of an acre foot as our diminimus
3 threshold between projects that are not having an
4 effect to federally listed species or Platte species
5 versus those that are having a quantified and
6 concrete effect to the species. Because that tenth
7 of an acre foot, and knowing the projects and --
8 especially, I think, a lot of the delivery water
9 system deliveries, either directly from the canal or
10 indirectly through Lost Creek, that those projects
11 would far exceed that tenth of an acre foot.

12 So we consider that -- in effect that
13 should be evaluated through the system. Not only
14 the direct effect but also the indirect effect
15 knowing that we are having a declining hydrograph
16 because of the increase surface in the groundwater
17 diversions, that that would affect the baseline of
18 the FERC evaluation as well; that there's going to
19 be less water coming into the system, less water for
20 the Loup to divert, less monies associated with
21 hydropower and less water for the fish as well. And
22 so all the effects as far as sediment, the effects
23 of hydrocycling are all tied into this future water
24 budget that needs to be analyzed.

25 MR. WALDOW: George Waldow, HDR. I don't

1 take issue with Mr. Runge's comment that the basin
2 has recently been fully appropriated by DNR, but I
3 think we need to look at the laws and the
4 regulations that are in place with the operation of
5 the project with respect to consumptive water uses,
6 which are basically irrigators. And as I explained
7 to some of you yesterday on the tour, the project
8 provides access to this water in the canal to a
9 number of irrigation interests along the long canal
10 who have their own water rights to the water for
11 consumptive uses which, in fact, is a use that
12 trumps industrial and power production. So their
13 water rights are effective at the point of diversion
14 of the power canal.

15 Loup facilitates, as Mr. Runge said, their
16 access to that water, and if they take water, they
17 pay for it to compensate Loup for the value of the
18 lost energy. And this is all established with a
19 long history in the state regulations. So, in fact,
20 the Loup hydroelectric project is still,
21 notwithstanding the irrigation, is a nonconsumptive
22 user of the water in the Loup River. They divert
23 it. They return it into the Platte basin.

24 And the numbers that we have evaluated to
25 date indicate that -- and I'm going to turn this

1 over to Mr. Engelbert in a second who did the
2 analysis -- they indicate that in essence there is
3 no net loss of water. The water that comes in at
4 the diversion works is essentially the same volume
5 of water that exits at the tailrace canal, and
6 there's a lot that goes on in between groundwater
7 inflows and canal water outflows with the -- we
8 talked about the Corp of Engineers flood control
9 project, and you saw the spillway where that water
10 enters in immediately below Columbus power house.
11 And when we've taken all of these water records, the
12 indication is that on an average annual basis the
13 differences are probably finer than the ability of
14 the gauging system that measures them.

15 Now, we don't get down to a tenth of an
16 acre foot, but I don't think in this case of the
17 consideration of the groundwater issues, the
18 evapotranspiration losses in the system justify
19 concern about consumptive losses due to the
20 hydroelectric project.

21 And I don't know, Pat, if you want to
22 reflect on those numbers or not or if anybody is
23 interested in hearing those today.

24 MR. ENGELBERT: Pat Engelbert with HDR.
25 As is written up in Section 5 of the PAD, we were

1 able to analyze four or five years of gauge data as
2 exists both upstream and downstream of the canal
3 system, and we did an annual water budget, and
4 there's about a million acre feet of water that go
5 through the system, and I believe out of that
6 roughly 2,000 cubic feet are used for irrigation
7 which is a relatively minor amount. But as is
8 indicated by the gauge data that is out, there's
9 actually a slightly gaining reach through that
10 system. So based on the analysis that we did, we
11 didn't feel that the slow depletion to the lower
12 Platte was going to be an issue.

13 Similarly with it being designated a fully
14 appropriated basin, the DNR will take steps to
15 ensure that no new consumptive uses would be allowed
16 in the basin that would reduce the size of -- the
17 amount of water that is available to those current
18 permanent deals. That's all that I have.

19 MR. HARMS: Bob Harms. The analysis that
20 Pat did was a good, good, good effort, but I think
21 the difference here is it comes down to this
22 environmental baseline issue again, with the project
23 versus without. And that's really -- I think the
24 sticking point for us is -- I know you showed 2,000
25 acre feet and it all kind of balances out, but

1 that's to us like comparing current and kind of what
2 is expected into the future, and we know that
3 operations aren't really anticipated to change that
4 much in 30 to 50 years. At least that's what we've
5 been told.

6 We're looking at it from the time before
7 the Loup canal was there and comparing that to now,
8 and that's why we identified the depletion issue --
9 depletion concern as an issue. And that's also why
10 we recommend that that continue to be a study, a
11 comparison of before versus now, and maybe into the
12 future.

13 Anything to add, Jeff?

14 MR. RUNGE: Well, you know, I think that
15 that 2,000 acre foot is well above that tenth of an
16 acre threshold, and that is calculated -- I mean,
17 you can have an irrigation supply number just fixed
18 to crop water use demand, and if they supply a
19 certain amount of acres, which is -- I'd have to
20 find the numbers here, but they supply a certain
21 number of acres, and of that a certain portion of
22 that is going to be consumed. And regardless of the
23 variability of these gauge measurements, I mean,
24 that's a realized loss of water that is being
25 withdrawn from the system that Loup is providing

1 access onto FERC properties to withdraw that water,
2 and that is an impact on the species.

3 MR. HARMS: Bob Harms. We would consider
4 that that would fall in the category of an
5 interrelated, interdependent component of the
6 federal action -- facilitates the irrigation under
7 Section 7. I'm sure you're familiar with that.

8 MR. JAYJACK: Just to comment on what you
9 had said previously about what the past system
10 looked like before the project. I'm thinking maybe
11 a better way to think of it would be, just for
12 practical purposes, and prior to the private
13 people -- particularly the irrigators, probably
14 weren't there, and I don't know -- I mean, I don't
15 know what the irrigation system looked like back
16 then, but I'm positive that they probably -- the
17 folks that are pulling water from there now probably
18 didn't have a means of pulling the water from the
19 Loup River where it originally was to farm the
20 fields.

21 So I don't know that that type of analysis
22 or logic would work for us, but maybe a better way
23 to think of it would be if we were to not divert any
24 water into the canal what would the system look
25 like, you know, in terms of not -- I'm not going to

1 come out and suggest that we go that route.

2 MR. HARMS: It's good discussion premises.

3 MR. JAYJACK: Sure. So if we do -- if we
4 were to go that route, what kind of study -- what
5 exactly would we be studying? Would you be looking
6 at evaporative rates in the bypass reach of the Loup
7 River assuming we allow all the water to go into the
8 Loup River, what that would be and compare it
9 against the 2,000 per acre feet depletion or
10 whatever the number was that occurs with the system
11 as configured today, and then do a -- see how
12 different, if it's less or more?

13 MR. HARMS: I'm going to rely on Jeff and
14 maybe Dave to speak to that, those two folks that
15 have quite a bit of experience on depletion on the
16 Platte River and have what sort of a framework of
17 what the study might be.

18 MR. RUNGE: It would be similar to an
19 enhanced water budget. It'd be similar to what has
20 been done here. Except for there's --

21 MR. JAYJACK: I guess the question is,
22 what's missing? What don't we know yet?

23 MR. RUNGE: For example here, they show on
24 Table 5.9 they show a loss from the Loup power canal
25 near Genoa to the Columbus power house. They see a

1 net loss of 52,000 net acre feet in that reach. And
2 I don't know exactly how they come up with those
3 numbers, whether they see this net 52,000 acre foot
4 loss, and they have some certainties around certain
5 losses. But other losses they did some quick
6 subtraction and said, well, this leftover has to be
7 attributable to seepage. And that may not be the
8 case. You may have additional losses that are
9 associated with -- maybe greater loss associated
10 with a certain variable that wasn't really
11 quantified to -- wasn't really measured on the
12 ground. It wasn't quantified.

13 MR. ENGELBERT: Pat Engelbert again. Just
14 to note, Jeff brings up the 52,000 acre feet loss.
15 Relative to a million acre feet, that's within about
16 a 5 percent range, and the gauges themselves aren't
17 within 10 percent if they're considered good.

18 So, again, we posited based on the
19 information we had and the calculations from
20 standardized graphs of evaporation and
21 evapotranspiration, et cetera, that likely that was
22 a result of seepage.

23 I think if we look throughout the state of
24 Nebraska if all the irrigation canals -- and this is
25 not an irrigation canal -- but if the irrigation

1 canals in western Nebraska operated with only
2 5 percent loss, I think those suppliers would be
3 extremely excited that they were only losing
4 5 percent of their water. So having a system that
5 only uses 5 percent is extremely tight. It's an
6 extremely tight system. So I just wanted to bring
7 that up.

8 MR. JAYJACK: Does Nebraska state law
9 require you to allow the irrigators to pull water
10 from your canal or could you tell them, no, we're
11 going -- you tell us the amount that you want and
12 that's the amount we won't divert from the Loup
13 River at our diversion?

14 MR. SUESS: No. The state law
15 basically -- Neal Suess from Loup Power District.
16 The state law basically is if somebody wants to pull
17 water out of the canal or someplace else, they are
18 allowed to do that. They go to the DNR for a
19 permit, and they get a permit from the DNR, and we
20 don't have any say in that whatsoever.

21 What we do have a say in is if our water
22 right is senior to that water right, we can call on
23 that water unless they have some kind of agreement
24 with us to not allow that water to be drawn from the
25 river to protect our water right at that point in

1 time.

2 MR. ZIOLA: But there's a payment system.

3 MR. SUESS: But there's a payment system.

4 They basically pay us for their pulling the water
5 either out of our canal or upstream of the diversion
6 point.

7 MR. WALDOW: George Waldow, HDR. There's
8 no obligation for the district to provide water to
9 any one of those irrigators. It's a convenience
10 that if the water is there, they can trump the power
11 use and take the water for irrigation use. But it
12 doesn't change the amount of water that the district
13 diverts. They divert according to their hydropower
14 needs and all the limitations of sediment and water
15 levels and so on.

16 They divert the same way in November as
17 they do in July when the irrigators -- August when
18 the irrigators want the water. They can do it
19 without any consideration for the irrigators at all
20 other than they send Jim Frear out to read the
21 meters on the pumps, but they operate strictly for
22 hydro generation. And as a little ancillary
23 consumptive use, the irrigators take water out and
24 pay for what they use to compensate for the lost
25 energy. So it's not operated as an irrigation

1 system whatsoever.

2 MR. SUESS: And, you know, we are only
3 looking at a July and August time frame for this.
4 For ten months out of the year, there is no
5 irrigation. The system operates as it does.

6 MR. ALBRECHT: Just a quick clarification.
7 Frank Albrecht, Games & Parks. On the water budget,
8 I just want to make sure I understand it right. The
9 total is from the top to bottom 12,000 acre foot
10 gain. Is that -- am I reading that right?

11 MR. ENGELBERT: Yes.

12 MR. ALBRECHT: And that 1.59 that shows
13 the 52,000 and then a net gain of 64?

14 MR. ENGELBERT: Yes. And just a little
15 bit of background for you, Frank. The Lost Creek
16 flood control project comes in downstream of the
17 power house but before the confluence with the
18 Platte. And the feeling is that anything lost to
19 seepage is likely to get picked up by that Lost
20 Creek flood control project and transported
21 directly -- (inaudible).

22 MR. HARMS: Bob Harms. Neal, I'd like
23 to -- maybe you could correct me here if I
24 misinterpret -- kind of go back to the question that
25 I think, Nick, you had. There are subagreements

1 that Loop Power District has -- and if I
2 misinterpret it, stop me -- that allow access to the
3 canal. And you folks can make a decision on whether
4 or not you will allow the irrigator access to the
5 canal through those subagreements. That's my
6 understanding from what I've learned from this. So
7 there's a decision making process there. It's not
8 something that they don't have discretion.

9 MR. ZIOLA: Basically we have agreements
10 that say, you know, how they can put the stinger in.
11 Jim, you can help me on this, too. But we basically
12 have an operations agreement that says how they can
13 put the stinger in, but none of that starts until
14 they have a water right.

15 MR. SUESS: They have to get the agreement
16 first.

17 MR. ZIOLA: Some operational issues so as
18 not to jeopardize the integrity of, you know, the
19 banks to where we might have a safety concern, a
20 piping issue and those kind of things. But it's
21 just primarily from a standpoint of not, you know,
22 causing degradation or berms and those kinds of
23 things, plus, you know, just to know where things
24 are just so we can monitor them.

25 But they're pretty minor because -- you

1 know, an individual -- I mean, we're to allow access
2 by the public, you know, for being on the project.
3 So to, you know, allow one person to get on and ride
4 a bike and another person not get access, you know,
5 to fulfill their water right which they've received,
6 you know, seems to be kind of opposed to each other.

7 MR. JAYJACK: So the water right obviously
8 will have a quantity component to it, but does it
9 also have an extraction -- some language as to where
10 exactly they can extract that from, a particular
11 point or points of extraction?

12 MR. FREAR: Yes, it does. They have to
13 complete a map for the DNR, and actually their
14 actual water right is given as the headworks because
15 that's where it's diverted. But the DNR does make
16 them put their diversion point on a map -- a
17 particular point on that map.

18 MR. JAYJACK: So if an irrigator came to
19 you and said to you, look, I have a water right and
20 it says that I can divert anywhere in your canal
21 within 100 feet of point A or whatever it might be,
22 you have to allow me to draw water, put a siphon
23 into this position or pump or something along those
24 lines? You can't say no to that, correct?

25 MR. FREAR: Not according to water law we

1 can't say no.

2 MR. JAYJACK: That's what I was getting
3 at.

4 MR. SUESS: There's nothing -- we can say
5 here's how you have to draw water from that or
6 either how you put your stinger in to protect the
7 safety and the integrity of the canal. But other
8 than that, we can't really say no, you can't once
9 they have the water right from the state.

10 MR. JAYJACK: So really the only way you
11 can say no is choose to not divert at all and then
12 you would be within your rights to do that and they
13 couldn't come back and say, hey, our water right
14 requires you to divert water into this canal so we
15 can withdraw it.

16 MR. SUESS: That's right.

17 MR. RUNGE: I think the difference we're
18 talking about here is a right to water versus a
19 right to access the water. And if this is a
20 situation where a person had a water right but
21 needed to -- a right to receive access from a
22 private property land owner in order to get that
23 water right, they need that permission first from
24 the landowner. And I see that as no different from
25 this situation. They've got a right to the water

1 but they don't have a right to access. That
2 access -- that right to access was granted by Loup
3 Power.

4 MR. JAYJACK: That's not what I'm hearing,
5 though. I'm hearing -- they're saying they can't
6 deny access. And the reason I'm asking these
7 questions is I don't want us to be delving into a
8 water rights issue if there's no relationship and
9 there's -- we have no control to do anything in a
10 license to effect that relationship, so that's the
11 reason for these questions.

12 MR. RUNGE: Unfortunately, the Department
13 of Natural Resources isn't here, and I'm not sure if
14 that's an equivalent to, like I said, if Loup Power
15 District is an equivalent to a private landowner
16 that would need -- need to provide permission in
17 order to access that water. I think that's
18 something that needs to be researched further.

19 MR. WALDOW: The Loup is not a private
20 land owner, they're a public agency.

21 MR. RUNGE: And if there's a difference
22 between that, exactly, and how that difference is
23 treated under law. And that's where we really do
24 need DNR to come in and provide us with some
25 additional information with an interpretation.

1 MR. JAYJACK: I had one question about one
2 of the issues here, and I'm not even sure it was an
3 issue, but we put it in the document -- but we
4 thought we should put it in there and discuss it
5 here. And I'm not quite certain where in the PAD we
6 picked up on this issue, but it's bullet number 2.
7 It says, effects of the project diversions on
8 bacteria levels in the public water wells adjacent
9 to the Loup River bypass reach.

10 Is that something we really need to look
11 at in the context of hydro, or where did the issue
12 arise from and should we remove it when we issue our
13 scoping document?

14 MS. RICHARDSON: Lisa Richardson with HDR.
15 That was a question -- just a comment that was
16 raised by Department of Health and Human Services
17 who attended a lot of the early coordination
18 meetings that we had, and the concern was related to
19 along the bypass reach when water is diverted into
20 the canal, that there's less water, that water is
21 going to become warmer, that warmer water may have
22 an effect on groundwater and may raise the
23 temperature in public water wells, and that may
24 raise the temperature just enough that it would
25 allow bacteria to grow.

1 And the analysis or the information that
2 we gathered from -- did we get that from DEQ? We
3 got information from the DEQ, I believe, that it was
4 in Genoa, their public water wells, and they did
5 have a couple of occasions where they had high
6 levels, but those were not at times of the year when
7 water temperature would have been a factor. They
8 were in May or October.

9 It's in the PAD. It's in Section 6 of the
10 PAD, the discussion of that. So that's why the
11 district didn't include that as a specific issue to
12 be studied. We felt like the original concern was
13 not borne out by the data that we were able to
14 gather.

15 MR. JAYJACK: So if we were to delete this
16 issue, would anybody have a concern with us doing
17 that if it's not really an issue that we need to
18 look at. I would just as soon pull it out of the
19 document.

20 MR. TURNER: Have you heard from the
21 Department of Health and Human Services as to
22 whether they were satisfied with what you found in
23 the PAD?

24 MS. RICHARDSON: We have not contacted
25 them since the PAD, and we have not heard from them

1 directly.

2 MR. JAYJACK: It's something we'll
3 probably -- I know we're going to give thought to
4 between now and the time that we issue the next
5 scoping document. So stay tuned for that document
6 as to what our decision was. We'll look at the
7 written record as well and see if -- to come
8 subsequent to this meeting to see if that agency
9 responds.

10 MS. RICHARDSON: Okay.

11 MR. JAYJACK: Well, that was the only
12 question I had. The other question I had was
13 answered when we talked about depletion. So is
14 there anything else anybody wants to bring up with
15 specific regards to the aquatics?

16 MR. HARMS: Sediment issues as well might
17 be a good place to cover that under aquatic
18 resources here. And, Jeff, I might defer to you on
19 some discussion about sediment.

20 MR. RUNGE: I'm trying to pull my notes
21 together here, but a lot of that information was
22 based on the Missouri River Level B study, and that
23 was back in 1975.

24 You know that there is an effect of the
25 project to the system, to river morphology or the

1 system. You see those piles of sand being withdrawn
2 and deposited on the spoil pile, and there is
3 sediment free water coming into the system at the
4 tailrace area. And it's just having an
5 understanding as to what degree that that sediment
6 free water is having an effect on the system.

7 Reading the PAD and identifying just some
8 numerical equations they've come up with, I'm trying
9 to figure out what the certain proportion of the
10 amount of sediment that is estimated to be removed
11 from the system due to operations, and knowing that
12 the system is highly variable, that may change. I
13 do remember reading the PAD, and the amount of
14 sediment being dredged from the system has
15 reduced -- been reduced significantly compared to
16 the sediment that they were dredging in years prior.

17 I don't have the exact dates and the exact
18 amounts, but that would provide some indication of
19 the reduced sediment supply in the middle Loup River
20 system. That underestimation of sediment when
21 compared to this Level B study may show that they're
22 actually attracting more sediment from the system
23 proportionately compared to what was observed in the
24 past. Especially based on that Level B study.

25 So I believe that what we need to do is to

1 look at different -- well, first of all, make a
2 comparison of the present condition, you know, the
3 with project action alternative versus the without
4 project action alternative to get a good
5 understanding of what the sediment budget is.

6 MR. JAYJACK: Where specifically would you
7 be looking, the Loup bypass reach and the Platte
8 River downstream how far?

9 MR. RUNGE: Well, that depends. I mean,
10 that's -- it's unknown to what degree that sediment
11 deprivation has an effect downstream, and that's
12 something that was never evaluated and we really
13 don't have a good handle on.

14 So normally you'd think sediment
15 deprivation within these clear water type,
16 underwater situations, and that's localized. I
17 mean, that's within a -- within a few miles or tens
18 of miles from that site. You usually don't --
19 wouldn't see a significant effect or huge effect way
20 downstream in the lower parts below the lower
21 Platte.

22 MR. HARMS: Bob Harms, Fish & Wildlife
23 Service. Maybe the first good step on looking into
24 sediment in further detail would be to take a really
25 close look at the Sediment Analysis Table 5-13, and

1 that's in the PAD page 523.

2 Now, we know these numbers. There's some
3 good numbers here, you know, especially in terms of
4 the amount of sediment that was taken out and
5 removed from the settling basin is pretty tight, but
6 there's some other numbers that can really vary
7 wildly. You know, if -- you know, I'm looking at
8 some information at the Duncan gauge on the Platte
9 River. Duncan is on the Platte, and the Bureau
10 reclamation estimated 1 million tons of sediment
11 moving down the river of 14,000 CFS, and the power
12 district estimated 1.8 million, and there's real
13 variation there between those two numbers.

14 What I would suggest on the sediment
15 yield -- what we would suggest on the sediment yield
16 table would be to, number one, take a look at those
17 numbers and see how variable they are, especially
18 when they're doing the debits and credits, and get
19 them peer reviewed.

20 That's a good first starting step, because
21 this table says not much change in sediment
22 movement. You know, what's going in is what's going
23 out. That may be the first step. And then you take
24 that and step that to the next component of the
25 study which might be, is the lack of sediment

1 affecting availability of sandbar islands for terns
2 and plovers on the lower Platte River from the
3 tailrace down to the confluence of the Platte to the
4 Missouri Rivers? Is there changes in size,
5 perimeter, and height? It seems like a good first
6 step is to take a look at the yield analysis.

7 Jeff, any comments to that? Thoughts?

8 MR. RUNGE: I guess to first of all
9 quantify that effect and then if it's identified
10 that there is a significant effect to federal
11 regulated species, to look at different actions and
12 alternatives that would help to offset that -- that
13 negative effect.

14 But I would include an initial study here,
15 especially looking at the refining and reevaluating
16 that budget analysis. We've got Jason Alexander
17 here from USGS. Is that something that can be done
18 through a collection of studies or a collection of
19 existing information or I guess has -- does the
20 sediment budgets change enough over time that you
21 really need to get down on the ground and develop a
22 proactive study to really identify these different
23 proportions?

24 MR. ALEXANDER: Jason Alexander with
25 USGS. So there's a study that's proposed for this,

1 and I haven't been through the process before,
2 really. But under sedimentation, and I'm just
3 wondering is that -- since you already have a study
4 proposed, is that something that you want more
5 comment on? Our -- through our letter that we put
6 in to -- for the PAD, our chief technical concern
7 was about sediment. And we reviewed the PAD a bit,
8 and we did look at the sediment budget, and our main
9 concern about the sediment budget was that some of
10 the numbers appear really, really large. See, I
11 wrote some down just because the only -- I mean, our
12 main concern was with the sediment budget, and I was
13 going to comment on it today. I guess now would be
14 it.

15 The numbers were used from the Missouri
16 River Basin Commission Study, and the number here,
17 the 7.4 million coming out at the Loup, that number
18 is from a rating curve. And we're pretty familiar
19 with this Missouri River Basin document because
20 we've done a lot of work there, and that is a rating
21 curve that was developed from sediment data that
22 wasn't taken above 10,000 cubic feet per second but
23 was applied up to 64,000 cubic feet per second. And
24 so there isn't data past 10,000. So the rating
25 curve wouldn't have a linear relationship that would

1 be -- especially once you start reaching flood
2 stages of 64,000 you're not going to have a linear
3 relationship between flow and sediment transport.
4 And so without -- when it's extrapolated up that
5 far, if you look at the data, most of that sediment
6 transport and that 7.4 number is from flows that are
7 above 15,000 CFS.

8 And all of the data that's used to create
9 the curve is below 10,000, so it's the equivalent of
10 doing like a flood frequency curve for a net
11 analysis when you don't have data above, you know,
12 infrequent -- any infrequent processes.

13 So that would be my main concern with that
14 number, and that especially because the sediment
15 removed from the settling basin is the tightest
16 number you guys have. I mean, you guys have a
17 really good number on how much you remove from the
18 settling basin. And so that's a good number as far
19 as a from a geomorphology perspective. That's the
20 tightest number you can get in a sediment budget
21 when you actually have a sediment removal number
22 from pumping.

23 But since that's the tightest number, and
24 the number that they put out that was -- that they
25 cited in like 1976, I think you guys have seen a

1 decline of sediment coming into the settling basin.
2 And so if that were, say, a systematic process -- so
3 if, say, sediment yield in the upper basin was
4 declining which would have resulted in a reduction
5 of what was going on in the settling basin, then
6 that should have been systematic.

7 So, say the numbers halved going into the
8 settling basin. Then they probably should have
9 halved in total sediment yield coming down which
10 makes that total sediment yield above Genoa go to
11 about half, from the 7.8 down to, say, you know, 3
12 or 4.

13 And then the yield from below the
14 diversion is also equivalent to the same yield as,
15 say, the entire central Platte basin.

16 And so those numbers just seem really,
17 really big, and our only technical concern with that
18 is if those numbers are really big relative to the
19 number that's pretty tight which is the number in
20 the settling basin, then the 14 percent or so
21 sediment deficit that was reported in the PAD all of
22 a sudden becomes something more like 50 percent.
23 And so that would -- that was our concern with this
24 budget.

25 You know, the Missouri River Water Basin

1 was a perfectly good study, but it was a basin wide
2 study. It was a really large scale analysis. So
3 when you're doing orders of magnitude difference,
4 like I say, up to 64,000 CFS, you could have
5 probably two orders of magnitude difference.

6 And so, for a study of the scale of the
7 Missouri River Basin, that might be kind of, you
8 know, just drops in the bucket. But at the scale of
9 the Platte River basin or just the loop basin,
10 that's a big number. And if it's a big number, then
11 I think that would be a technical concern. And
12 there is -- there's three things that happen to kind
13 of superimpose on top of each other, and the one is
14 that there should be, you know, just theoretically
15 from any dam study -- and you guys do a lot of them
16 obviously -- below any dam there's always a sediment
17 deficit. Below any clear water input there's a
18 sediment deficit, and there's superimposed on top of
19 each other -- you know, there's the project, there's
20 very few species within the project area, so between
21 the diversion and the Elkhorn River where the
22 sediment is input.

23 And then yesterday I was asking Mary about
24 her -- Mary actually has -- you remember from the
25 tern and plover partnership -- she actually has data

1 that would help in a study that could be done, and
2 they do bar areas and bar elevations relative to --
3 in the downstream direction from the tailrace to the
4 mouth of the Platte, and she shows a relationship
5 that shows basically the bar areas and bar
6 elevations near the tailrace. Basically bar
7 elevation, bar area increases in the downstream
8 direction.

9 So those three things kind of together
10 lead one to believe that there's a sediment deficit.
11 That would be our main technical concern with
12 sediment.

13 MR. JAYJACK: You brought up a point that
14 below -- we see that below dams there's a deficit of
15 sediment because it's deposited in the reservoir
16 above the dam but diverted elsewhere. And we
17 recognize that, but it's not an issue at every
18 single project.

19 So taking a step back, we'll look to see
20 if, for instance, the state Fish & Wildlife agency
21 brings up an issue related to, well, we've lost
22 trout spawning habitat, for instance, or whatever
23 fish species you're working with. And so we'll look
24 to see if -- if the loss of that sediment is having
25 an indirect effect on fish habitat, for instance.

1 And so I guess where I'm going with this
2 is -- I mean, we can see that, yeah, there's -- and
3 we saw it with our own eyes yesterday on the tour,
4 that 1 to 2 million cubic feet per year of sand
5 being deposited in the north -- I don't know the
6 exact quantity -- but in the north sand management
7 areas. So obviously that's been taken out of the
8 river and it's being left there and some of it's
9 being mined, a very small percentage of that.

10 But then the question becomes, you know,
11 what is the effect downstream? And what I -- the
12 type of question that I start to ask then is, is
13 there anecdotal evidence of loss of sandbars
14 downstream? Have they become smaller over the
15 decades? So is there any kind of anecdotal evidence
16 like that that would help us to look at, you know,
17 how big an issue is this really? I mean, do we
18 really need to go -- to delve into this any further?

19 MR. HARMS: Nick, Bob Harms. And let me
20 speak to that. Probably for the last 10, 15 years
21 the Nebraska Game & Parks Commission has been doing
22 surveys for terns and plovers every year during the
23 nesting season, and they do that in coordination
24 with the Tern & Plover Partnership, Mary's group.
25 Sometimes Fish & Wildlife Service gets involved in

1 that, too.

2 And years ago the -- what's happened is
3 the bars between the Loup confluence or Columbus
4 bridge or whatever down to the Elkhorn or Fremont,
5 somewhere in that area, have become so vegetated
6 that there's no nesting habitat. That's been going
7 on for a long time to the extent that Game & Parks
8 have gotten to the point where they weren't even
9 going to do any surveys.

10 Now, this last year we were lucky enough
11 to have some tremendous rainfalls out on the central
12 Platte starting -- we had just finished doing our
13 own tern and plover surveys when was it, May, June?
14 I mean, it rained and rained and rained and rained,
15 and the Platte River truly looked like the Missouri
16 River. It was huge. And the effect of that -- what
17 that resulted in was a tremendous amount of scouring
18 of those old bars and restoring a lot of that
19 habitat that's out there. And before then there
20 weren't any. There was a time they weren't even
21 finding nests -- tern and plover nests until below
22 the -- you aren't familiar with these areas, but
23 below Highway 92 bridge, Venice area. For years
24 that's the only place they found tern and plover
25 nests.

1 The bars were there. They were just
2 overcovered. And they weren't being overtopped.
3 There weren't any -- there didn't seem like there
4 was much in bar formation. That's about as
5 anecdotal as I can get, and I hope that helps.

6 MR. JAYJACK: If there's no storage,
7 though, I'm still not making the connection. So it
8 sounds like it's caused -- what removes the
9 vegetation are big flows, and so if the process --

10 MR. HARMS: Ice jams do, too.

11 MR. RUNGE: I think to help answer your
12 question, too, that sediment deprivation has an
13 effect on sandbar formation. Sandbars are what
14 terns and plovers nest on, and I think to answer
15 your question to what degree is that having an
16 extent, to what extent longitudinally and temporally
17 throughout time? And it's really difficult to
18 answer because we do have that declining hydrograph.
19 We do have that reduction in peak flows. But we
20 also have the effects of hydrocycling. And without
21 having an intensive analysis that is able to tease
22 out these factors, you don't know whether that
23 reduction in bar height and bar formation is due to
24 sediment deprivation, or is that due to continuous
25 hydrocycling and that erosive effect of

1 hydrocycling, or is that due to bars becoming
2 permanently vegetated because of the declining
3 hydrograph?

4 And that's what we are recommending is
5 that we develop a study so we can tease these
6 different factors out, to really parse out what the
7 actual effect of sediment is versus the effect of
8 other forces.

9 MR. WALDOW: Gorge Waldow, HDR. In
10 response to your question about anecdotal evidence,
11 one thing I would ask everyone to keep in mind is
12 that there -- there is a declining hydrograph or
13 there are hydrographic changes. Pat, isn't it true
14 that the Loup hydrograph has actually increased over
15 time?

16 MR. ENGELBERT: We haven't looked at that.

17 MR. WALDOW: Let's say the hydrograph is
18 changing for basically the discussion. The thing
19 that I keep in mind is that this project has
20 operated since the mid- to late 1930s. The one
21 constant in all that time with the development of
22 irrigation and the changes on the central Platte and
23 the changes on the Loup Basin, the one constant over
24 all these years has been the operation of this
25 project.

1 Ever since that canal was built, every
2 since that dredge was put in the settling basin, the
3 project has operated as it was designed with this
4 daily hydrocycling. And so when you look at -- when
5 you look for variables and causes of these variables
6 to -- if there are things -- like, we're seeing the
7 tern and plover population trend shows a decline
8 since the '80s, since they started doing the census
9 studies, but the project hasn't changed since that
10 time.

11 The populations vary. They go up and
12 down. One year they're up. One year they're down,
13 and it's not consistent between the species. This
14 is anecdotal review of the studies. And so one year
15 terns will be up and plovers will be down, but these
16 birds share the same nesting areas. So there's the
17 possibility of externalities impacting this beyond
18 the project including return to birds from wherever
19 they migrate which is not part of the census
20 studies. The census studies are only looking at the
21 local occurrence and nesting habits.

22 So there seems to me to be not very good
23 linkages between habitat issues, quality habitat or
24 poor habitat which is largely affected by the kind
25 of events that Bob described.

1 to get some coffee, so I may have missed some of
2 this. But it seems to me based on what I heard from
3 Jason and the information that I know Mary has on
4 bar sizes and perimeters and heights, you know, it
5 seems like there's a way of evaluating that. Some
6 of that information is already available from the
7 survey start, all the way down. And that might be a
8 good starting point here. Take that and see if
9 there's a difference as bars get larger and larger,
10 and then go from there.

11 Jason, any comments on that that's going
12 to kind of try to piggyback off of your earlier
13 comments?

14 MR. ALEXANDER: Well, I guess my only
15 comment on -- I do know that in regards to the
16 temporal aspect of it, you know, we did a study --
17 Daniel at USGS did a study. He did not show changes
18 in basically most major cross-sectional geometry
19 metrics and gauges, which are near bridges. He
20 didn't show -- in his study -- for some parts of the
21 Loup, I think it was back to the 1800's, but in the
22 North Bend area it might have only been the 30's on,
23 but they haven't shown any major changes at those.

24 So I guess the thing that I was thinking
25 about that that I was discussing with Mary yesterday

1 was a seasonality of sediment. And so there's, you
2 know, like this year, for example, the bars got
3 really, really big, and part of that change is
4 because of the Loup flushes. So the Loup has got a
5 lot of sediment. And even though there's a lot
6 that's removed, there's still a lot of sediment in
7 that reach. Probably maybe even a surplus in that
8 reach between the diversion and the mouth. And so,
9 you get a flushing of sediment into the Platte which
10 then causes bars to build and you create habitat.
11 So in a year like this year, Mary measured bar
12 heights that were all above the elevations that
13 would be adequate to -- for tern and plover habitat.
14 And she showed that none of them overtopped from
15 hydro peaking or storms.

16 I guess what I would most be concerned
17 with in the sediment budget is that sediment budgets
18 can be very rigid and, you know, you can look at
19 them -- and, you know, in the long term you can say
20 in the long term there might not be a sediment
21 deficit because sediment flushes through. I think
22 the way Mary interpreted it yesterday is that
23 there's a seasonality to it. So if you get a big
24 flood -- if you're lucky enough to get a big flood
25 that comes down flushes that into the Platte, then

1 it builds bars and you have habitat.

2 If you have a year that stays more like an
3 average year, you probably don't get enough sediment
4 into the lower Platte and the bars don't build as
5 big and maybe they're initially emerging after the
6 spring floods, but they degrade faster and don't
7 last as long if they're closer to the tailrace.

8 And so her -- her anecdotal observations
9 were that bars degrade faster and don't build as
10 high between the tailrace and the Elkhorn because --
11 and her anecdotal evidence and her anecdotal numbers
12 are that there's not enough sediment to build those
13 bars.

14 MR. JAYJACK: So it degrades faster and
15 doesn't build as high up relative to what?

16 MR. ALEXANDER: Relative to, say, below
17 the Elkhorn where there's another input of sediment
18 or even upstream. I don't know how much.

19 MR. RUNGE: And one thing, too, in talking
20 about species response is to focus on the physical
21 habitat and the physical morphology and not looking
22 at species' response because there's a lot of
23 factors on the wintering grounds. They're based on
24 habitat availability outside of the Platte that
25 may -- you may have the best habitat on the Platte,

1 best looking habitat, but it may not be used
2 compared to other years because of increased habitat
3 availability in other river systems.

4 And so, to me it's, you know, let's just
5 look at -- let's not look at species and species
6 response, and have this more focus on river
7 morphology, sandbar maintenance, graded system
8 maintenance.

9 MR. ENGELBERT: Pat Engelbert with HDR.
10 Clarification. Jeff had mentioned reduction in peak
11 flows as a result of the project, and I think you
12 were about to bring it up. Those are regulating
13 reservoirs. They're not storage reservoirs, so I
14 don't understand the reduction of peak flows as a
15 result.

16 MR. RUNGE: There's numerous throughout
17 the system -- the Platte River system, there's
18 numerous storage projects that --

19 MR. ENGELBERT: I was talking specifically
20 as a result of this project.

21 MR. RUNGE: Oh, no. No. It's not
22 associated with the project, but it's a confounding
23 factor that would confuse results from an analysis.

24 MR. ENGELBERT: Okay. Thank you.

25 MR. RUNGE: Thank you.

1 MS. NGUYEN: Just FYI. Mary gave me a
2 copy of her report, her latest report, 2008, and I
3 will be giving it to the court reporter to be put in
4 as part of the record so we'll have it.

5 MR. JAYJACK: I would move at this time
6 that we take a break and let the court reporter rest
7 her fingers.

8 (A recess was taken.)

9 MR. JAYJACK: In the essence of time I
10 think we should close the discussion on aquatics for
11 now and if there are any additional comments to be
12 brought up, there may be a little bit of time at the
13 end of the meeting. But if not, there's an
14 opportunity to provide written comments by -- Kim
15 will give you the due date for doing that. But I
16 think there are some other issues I think we need to
17 talk about this morning.

18 So with that I'm going to turn it over to
19 David to talk about the terrestrial issues he's
20 identified as well as the threatened and endangered
21 species issues.

22 MR. TURNER: As Nick said, I think we
23 probably talked about a lot of this already this
24 morning. But based on my review of what's in the
25 PAD and the consultation recommendations so far, the

1 thing -- the critical issues in terms of terrestrial
2 or wildlife species still seem to be the overall
3 effects of the project operations and the
4 hydrocycling flow fluctuations and how they are
5 affecting the riparian resources.

6 Also how those things might be affecting
7 bald eagles and migratory birds like bank swallows,
8 cliff swallows and the small white lady's slipper
9 orchid.

10 Is there any other terrestrial issues that
11 I've missed in reviewing the PAD or your comment
12 letters?

13 MR. HARMS: Bob Harms, Fish & Wildlife.
14 You might include western prairie orchid, but that
15 is a threatened species, so you might actually have
16 it covered in the next section.

17 MR. TURNER: It is. It is covered. We
18 deal with the endangered species sort of separately
19 even though they're all related in regards to the
20 overall terrestrial processes and they're all
21 terrestrial species. Because of EA constitution of
22 departments we deal with those separately.

23 From the silence I assume that we can move
24 into threatened and endangered species.

25 There are -- again, we've identified

1 project operational effects and in particular on
2 page 14 of the scoping document is our bulleted list
3 of effects. I think we probably covered a large
4 part of that again in our discussion in aquatic
5 resources in terms of sediment projects and flow and
6 how that's affecting the pallid sturgeon as well as
7 a number of the habitat characteristics of the least
8 tern and the piping plover.

9 And I've got a fairly detailed component
10 list in terms of nesting habitat, foraging habitat
11 for the least tern and piping plover. I won't read
12 them verbatim because everybody can read them for
13 themselves, but is there anything that I've missed
14 here that we should be considering that we haven't
15 already discussed?

16 MR. HARMS: Bob Harms. I guess I would
17 have one comment that would -- it's kind of an
18 overarching issue for all of us, and it will be an
19 important overarching issue for our upcoming Section
20 7 consultation with you folks, and that is that --
21 it's the environmental baseline.

22 We would view the environmental baseline
23 as being with versus without the project in this
24 Section 7 consultation, so I hope these studies
25 would be developed so -- in that way -- in

1 consideration of the environmental baseline, and not
2 today versus continued operations. And this is just
3 a comment point.

4 MR. TURNER: Environmental baseline has
5 always been somewhat at odds in ASA consultations
6 and the Commission's baseline even though the
7 Commission's baseline has been held up in court over
8 the years. And I think Nick pointed out a very good
9 way of looking at it, and it gets to the same
10 concept of what happens if you change operations
11 such that you don't divert any water and basically
12 make the project go away. It gets to the same
13 questions that you're trying to answer, but you're
14 not confusing the baseline.

15 MR. HARMS: I guess we would agree with
16 that.

17 MR. TURNER: Whether it's reality is a
18 bigger question, but it still gets to the same
19 point. And we do look at in terms of the cumulative
20 effects of what's happening. Whether we want to
21 talk about it in terms of what the baseline is, we
22 can talk about how things progressed over the years
23 and where we are now and what's going to happen in
24 the future under future operations. So, I don't see
25 the conflict personally.

1 MR. HARMS: I guess the important thing is
2 sometimes that can be a real rub figuring out the
3 environmental baseline and getting it to so we can
4 all agree and make progress. I guess as this
5 proceeds on as long as we're talking about baselines
6 and have a similar sort of an understanding, I think
7 that will go a long ways.

8 MR. TURNER: As I said, we covered a whole
9 lot of this in terms of flow fluctuations,
10 wintertime ice and jams and how that affects things
11 down. One question I did have is, is the principle
12 focus on the least tern, the piping plover recovery
13 efforts in the lower Platte? I mean, is that where
14 most of this analysis is coming or is the bypass
15 reach critical consideration? I mean, I was getting
16 an impression this morning that we're really talking
17 about the plovers and the least terns all occurring
18 in the lower Platte from the tailrace down to the
19 lower Platte, but I'm not hearing any discussions
20 about the bypass reach per se.

21 MR. HARMS: Bob Harms. I can speak to
22 that. It's really both the bypass and the lower
23 Platte. It concerns both of them.

24 MR. RUNGE: The Loup River is a graded
25 river system similar to the Platte River, and we do

1 have nesting sandbars above the project on the Loup
2 River system, and so it's occurring above the
3 project and it's occurring in the Platte River
4 system downstream of the project that -- the
5 habitats and the nesting.

6 Within that project area that gets to
7 that -- that discussion about species response and
8 how we don't have documented nesting within that
9 area, but the project has been operating for 50
10 years and the surveys have only -- were only started
11 in the '80s. So you've got multiple years of
12 effects without any variations in operations that
13 you can test to see what the species response was or
14 habitat response was or channel response does in
15 that bypass reach. And so considering how we have
16 sightings above the system and the Loup River
17 system, we do have nesting, and an absence within
18 there could indicate that the bypass would have an
19 effect.

20 MR. JAYJACK: An absence of what where?

21 MR. RUNGE: The absence of nesting within
22 the bypass reach.

23 MR. TURNER: So the nesting above the
24 diversions and nesting occurring below?

25 MR. RUNGE: There is, yes. And there's

1 also nesting that has -- we actually documented
2 nesting this year occurring in the Platte River
3 system above that bypass reach, too. So it's in the
4 upper parts of the Platte, above that -- the bypass
5 reach. And it's in the lower parts of the Platte
6 River below that bypass reach. And it's also in the
7 upper parts of the Loup in the bypass reach.

8 In other words, there's -- there's nesting
9 upstream of both the Loup River system and the
10 Platte River system within that -- upstream -- just
11 upstream of that bypass reach. Just nothing within
12 that bypass reach.

13 MR. TURNER: So there's nesting occurring
14 within that very short section between the
15 confluence of the Loup and the Platte? Is that what
16 you're saying?

17 MR. RUNGE: No. It's actually in the
18 Platte upstream of the confluence.

19 MR. HARMS: It's the Highway 81 bridge.

20 MR. RUNGE: When I say bypass reach, I
21 also include that area of bypass that includes the
22 Platte River, that area of the Platte River, too. I
23 include that all as the -- which technically is
24 incorrect.

25 MS. NGUYEN: So maybe somewhere here?

1 Because this is the Loup.

2 MR. RUNGE: Yes. We do have nesting
3 upstream of there.

4 MS. NGUYEN: Upstream of the Loup and
5 upstream of the Platte?

6 MR. RUNGE: Yeah. Actually, let me just
7 explain it here. We do have nesting actually right
8 up here just upstream of where the Loup comes in,
9 and we do have nesting way up above this diversion
10 area. It's just this little dewater reach of the
11 Platte River. And this dewater reach of the Loup
12 River we don't have nesting. And we do have nesting
13 downstream of the -- actually, there's a nest this
14 year just right down here of this trail bridge.

15 MR. WALDOW: Can you tell us how far
16 upstream of the diversion the nesting is in the Loup
17 River?

18 MR. RUNGE: We'd have to get to the
19 records to get exact miles.

20 MR. WALDOW: It's some distance; is it
21 not?

22 MR. RUNGE: We'd have to get the records
23 to see. I don't know the exact amount of those
24 locations and the nests change from one year to the
25 next, too, so I could give you a number but that

1 number may be wrong.

2 MR. WALDOW: I'm not trying to put you on
3 the spot but the data that we have -- and we need to
4 get more data from the service as well as we're
5 waiting for some from Game & Parks, but the
6 impression that I had was that it's upstream on one
7 of the branches of the Loup River not on the main
8 stem. Does anybody know if that's correct?

9 MR. RUNGE: You mean like -- well --

10 MR. WALDOW: What I'm trying to get to
11 is --

12 MR. HARMS: I drove a boat and we found
13 birds on the bars upstream of that diversion all the
14 way up to Fullerton Bridge and upstream of there,
15 too.

16 MR. WALDOW: Okay. That's what I wanted
17 to know. We don't have any of that data.

18 MR. HARMS: We did that survey about two
19 or three years ago, and that may be the Games &
20 Parks process. I don't know.

21 MR. THORESON: Randy Thoreson, National
22 Park Service. I'm a little confused, Jeff, because
23 when we took a tour out there in June, I think it
24 was, we saw signs and evidence of nesting on the
25 headwaters diversion structure area, and I believe

1 that -- am I confused to where you're pointing out?

2 MR. RUNGE: Yes. There is a structure,
3 but just none using the sandbars. That diversion --
4 the spoil pile is removed from the river.

5 MR. THORESON: Does the canal have
6 sedimentation there as Neal pointed out?

7 MR. RUNGE: Yeah.

8 MR. JAYJACK: Just to clarify what Jeff
9 said for the court reporter, he said that the spoil
10 pile is removed from the river. In other words,
11 it's not influenced by the river.

12 MR. TURNER: Is there anything else we
13 need to cover on threatened and endangered species?

14 MR. JAYJACK: In the first bullet, and
15 this may have been a typo on my part, but I have on
16 there that the geographic scope as being -- with
17 regard to the pallid sturgeon as being an analysis
18 of effects in the Loup River and lower Platte River,
19 and I'm wondering if I should have just said the
20 lower Platte River and not the Loup River. And
21 would it be okay in the next scoping document if I
22 deleted Loup River from the issue?

23 MR. HARMS: Yeah, that's fine. They're a
24 big lower Platte sort of fish. That's not to say
25 that things that go on the Loup River won't have an

1 effect downstream.

2 MR. JAYJACK: Understood. Thank you.

3 MR. TURNER: With that I'll turn it over
4 to Mark for recreation use.

5 MR. MARQUESS: So if you just want to
6 follow along in your document, moving on to 4.2.5,
7 Recreational Land Use.

8 Our job here is to establish the baseline
9 for the next 30 to 50 year license, so we're coming
10 to the close of this first license and you've
11 really -- second license, sorry -- and you've really
12 established yourself, the district as a regional
13 recreation provider, and that was really evidenced
14 last night when we had big turnout of people that
15 drove two hours in that terrible weather to talk
16 about outdoor recreation, OHV. And that should be a
17 feather in your cap. I congratulate you on that.
18 It's great that you're doing that.

19 Some of the issues that have been
20 identified, and we can go through these together.
21 You know, the effects of existing recreation
22 facilities. And there's quite a list there: fishing
23 hunting, camping, boat launches, trails,
24 playgrounds, swimming areas, and public access
25 within the project boundary, current and future --

1 over the term of the new license -- recreation
2 demand, including barrier free access.

3 You have a framework of recreation
4 facilities you're providing now, and so there's --
5 the public out there is expecting that those
6 facilities will be there. And one of the questions
7 I came up with yesterday was when we went by the
8 Monroe power plant there was an existing bathroom, a
9 slide, some swings, and that's not mentioned as one
10 of your park sites. Is that supposed to be a park
11 site? Is it planned to be a park site or what's the
12 status of that?

13 MR. ZIOLA: I don't know that we really --
14 it's not large enough, I guess, to define it as a
15 park site. It was probably facilities that were put
16 there so when some people are fishing their children
17 have something to do. It may have also been there
18 for our residents because at times we have a
19 young -- we would have people with young family
20 members, so it could have been something provided
21 for the operator in their household. But, you know,
22 the restroom is there because we do have people that
23 fish below the power house. There's actually
24 stairwells on that south side where you can actually
25 walk down. And the building is not open 24-hours a

1 day, and we limit the public's use of those
2 facilities within. So it was a means to provide
3 some restroom capabilities for the -- the occasional
4 fisherman who would stay there the better part of a
5 day so they do have some means to use a restroom
6 facility.

7 But as defining it as a park, it's just
8 such a small, small area. You know we kind of
9 turned around kind of right next to it, so it's just
10 more of a convenience for people living there as
11 well as the occasional fisherman that might bring a
12 young child with them.

13 MR. JAYJACK: I have a quick follow-up
14 clarifying question. So it's not a facility
15 required by the license, for one?

16 MR. ZIOLA: No.

17 MR. JAYJACK: And number two, it's a
18 facility that you own and operate, though?

19 MR. ZIOLA: Yes.

20 MR. JAYJACK: Is it on project lands?

21 MR. ZIOLA: Yes. The project lands go
22 south of that house just a little bit. Yes, it is
23 on project lands, and it might have been that we had
24 a slide at the Columbus power house and someone said
25 we should have a slide at the Monroe power house. I

1 really don't know the history.

2 Jim, do you have any other --

3 MR. FREAR: We never did include it in our
4 Form 80 that we talked about. I never did include
5 it as a park. It was just a convenience for the
6 fishermen.

7 MR. JAYJACK: Just real quick for the
8 record. The reason I ask that kind of a question is
9 occasionally what will happen is when we go to the
10 time of licensing or typically what we do have to do
11 is we have to identify those facilities that are
12 licensed project facilities, and it's not always
13 evident because recreation springs up all over the
14 place. And as early as possible we like to know
15 those things.

16 Number one is, what is the facility? Is
17 it on lands owned by the licensee? Are they
18 considered project lands in the context of a
19 license? And is it required by the existing
20 license, et cetera?

21 So, as we go on through this process and
22 we work on identifying these recreation sites, you
23 can keep that in the back of your mind when you're
24 identifying these sites in the written record and
25 talking about studies at these sites. It's helpful

1 to us to know right up front exactly what these
2 sites are.

3 MR. IVY: Added to that I think we'll have
4 to determine for the next round which of those sites
5 do you want to include within the boundaries as
6 sites.

7 MR. WALDOW: George Waldow, HDR. I think
8 that step should be taken care of in the land use
9 inventory as one of our scheduled studies because
10 we -- since the PAD went out we've had some
11 discussions with the various agencies, and the idea
12 that we're coming down to on this is we're looking
13 at land use along the project boundary both external
14 and internal, and looking for compatibility issues
15 and the fact that you have the residents of the
16 plant operator right there, and the property project
17 boundary is fairly narrow still even though the
18 power house is there.

19 I'm wondering about the compatibility of a
20 full-time camp site, for example, to attract people
21 there versus the people living in that residence
22 being self-resolved.

23 MR. IVY: Right. You may want to move
24 that restroom facility down to by the park area
25 where -- before you go up that hill to get it away

1 from the residence.

2 MR. WALDOW: It was very effective having
3 it where it was during the reconstruction of the
4 power house with many contractors on site.

5 MR. MARQUESS: The next point we have is
6 the effects of water quality on recreation
7 fisheries, swimming, canoeing and boating.

8 MR. THORESON: My name is Randy Thoreson,
9 National Park Service. Mark, I'll comment when you
10 go through all of these because I'm kind of tied in
11 all three topics.

12 MR. IVY: So you'll wait?

13 MR. THORESON: I'll wait.

14 MR. IVY: Anybody else have a comment on
15 that one? Okay.

16 Effects of the project diversion on the
17 recreational use within the bypass reach of the Loup
18 River. And we've had some discussions about where
19 the project boundary is at the headwaters, and from
20 the maps that we looked at it looks like it does go
21 on both sides of the Loup River for a small part
22 there at the headwaters.

23 MR. SUESS: That's correct. Neal Suess.
24 And we do. There is some land on the south side of
25 the headworks that goes past -- basically comes back

1 to the east that we own, and I believe you also
2 lease to the Games & Parks Commission.

3 MR. IVY: And so I'm curious as to what
4 kind of use occurs there, and we talked a little bit
5 more about there is some use out there, but we
6 really don't know how much and what they're doing.

7 MR. SUESS: Hunting access.

8 MR. ZIOLA: I would say primarily hunting
9 for, you know, the games species that we have in
10 that area, and mushrooms may be the other primary
11 access. As part of the lease Game & Parks is
12 supposedly down there, you know, developing habitat
13 both from a feeding standpoint, you know, as well as
14 for wildlife development. I would say it's
15 primarily recreational, hunting and mushroom
16 hunting.

17 MR. SUESS: Nothing more than that at that
18 point in time.

19 MR. IVY: And what's the access like
20 there?

21 MR. ZIOLA: The access is through county
22 roads or township roads, and there might even be
23 lanes. But when you get -- as you come --

24 MR. SUESS: I think there's a private
25 lane.

1 MR. ZIOLA: As you get into the -- as you
2 get to the actual river part, it might be more
3 lanes. But the primary access would be through
4 township roads.

5 MR. IVY: So it's one of those places
6 where if you know how to get there, you go?

7 MR. SUESS: Yeah. If you don't know how
8 to get there, you're in trouble.

9 MS. NGUYEN: You shouldn't be there.

10 MR. SUESS: You shouldn't be there.
11 That's right. And the only thing that I will add
12 there is we have talked with both the county and the
13 township about that. At one time I believe the
14 township wanted to close that road off and had
15 talked about possibly closing that road off, and we
16 said that's really a township decision; we don't
17 care other than we obviously need access to get back
18 in there since we own that property.

19 MR. ZIOLA: So we were neutral on the
20 thing. We're not proposing you do it. Like Neal
21 said, it's -- for us, it's neutral. Whatever the
22 township, as well as the county deems, is this case.

23 MR. JAYJACK: So people are driving in
24 these roads and parking along in here and walking
25 in?

1 MR. ZIOLA: That would be the case. Most
2 of the time where we get the access is -- and, Jim,
3 help me out -- but it would be like where that
4 number 6 is at. There's kind of a lane in there,
5 and they'll want to get to where they can be on the
6 south side of the fishing below the diversion
7 structure. So I mean, there's been a few occasions
8 I've been out there where it would be two or three
9 people, there will be a vehicle parked down in
10 there, and there will be fishing in that area below.

11 MR. SUESS: And you can see the lanes that
12 kind of come -- you know, if you come up that little
13 stretch that comes down, there's a lane that comes
14 up there and then goes back towards the west towards
15 the river, and then you can kind of come back around
16 to those sandbars that are just downstream of the
17 diversion structure right there, and they get on and
18 fish from that side of the river versus coming on to
19 property and fishing on the south side of the
20 management area.

21 MR. JAYJACK: So those are publicly
22 accessible lanes, not private lines?

23 MR. SUESS: Yes.

24 MR. JAYJACK: They're not private
25 driveways or --

1 MR. SUESS: No.

2 MR. IVY: I was also curious as to why the
3 project boundary does that dip.

4 MR. WALDOW: That's a dyke. It ties the
5 project into ground. It's part of the weir
6 structure. There's one on either side of the river.

7 For clarification on this bullet point,
8 where you're talking about within the bypass region,
9 are you speaking specifically within the project
10 boundary?

11 MR. IVY: Well, we're also interested on
12 looking on impact of the project on use of the
13 bypass reach.

14 MR. WALDOW: Okay. With that then I would
15 like to make two additional points. One is that
16 the -- correct me if I'm wrong. Is the off-road
17 park not posted to keep the vehicles off the river,
18 what we consider the south bank?

19 And I say that to make it clear that the
20 vehicles are not to be out there harassing fish and
21 wildlife.

22 MR. ZIOLA: They'll be in the river
23 channel, where you see that line of trees on the
24 south bank. That's primarily -- they will at times
25 be in the river channel proper up in there.

1 MR. WALDOW: And then the second point --

2 MR. ZIOLA: And it would be in those areas
3 that are within the channel proper and that red line
4 and maybe down in those areas there.

5 MR. WALDOW: The other point I wanted to
6 make is that under Nebraska Law riparian owners own
7 property out to the thread of the stream. And so
8 for the entire reach of the river downstream of the
9 project boundary, unless it's publicly owned land,
10 it would be considered trespassing for anybody to be
11 on the beaches or on the sandbars.

12 MR. ZIOLA: Other than the owners?

13 MR. TURNER: Other than the owners, yes.

14 MR. IVY: But floating reach is allowed
15 under state law?

16 MR. ZIOLA: Correct. As long as you don't
17 put your feet down on the ground, which, you know,
18 during the spring flows and stuff there is enough
19 flow that you can put in a canoe and --

20 MR. WALDOW: I just wanted to make that
21 clarification because it limits the recreation
22 opportunities substantially.

23 MR. IVY: And something you can help us
24 with is how much use is occurring? We have no clue.

25 MR. ZIOLA: And, again, we are -- we put

1 some summertime numbers together on camp, not
2 necessarily people but tent campers and those kind
3 of activities and so on. Jim, were we doing it on a
4 Monday to Friday basis?

5 MR. FREAR: Friday. Friday.

6 MR. ZIOLA: Friday. So as to what was
7 setting up for the weekend.

8 MR. WALDOW: Was your point specifically
9 the floating --

10 MR. IVY: Yes, the bypass.

11 MR. SUESS: I don't think we have any --
12 we don't have any indication below where our
13 projects at as to what's going on. We know stuff
14 happens down there, but as far as how much, that
15 would be anybody's guess. I mean, there are people
16 that canoe and kayak on the bypass reach on a
17 regular basis between Monroe and Columbus, and even
18 from Genoa to Monroe I'm guessing. That much I know
19 of from personal knowledge. And I'm sure there's
20 fishing that occurs and other hunting because it is
21 pretty popular hunting spots in there. But again,
22 it's all private ownership for the most part that
23 I'm aware of.

24 MR. ZIOLA: Yeah. The state has river
25 access on a parcel of ground south and east of what

1 we're looking at. I don't know what the exact
2 location of that particular wildlife management area
3 is.

4 MR. IVY: That's helpful.

5 MR. ZIOLA: Again, I think the State of
6 Nebraska Game & Parks website shows public -- lands
7 that are owned by the state opened to the public for
8 recreational usage, so you might visit the Game &
9 Parks website for some of those, and specifically
10 looking in that stretch.

11 MR. IVY: And before we move on to land
12 use, I wanted to go back to the geology because it
13 was mentioned here within the effects of continued
14 project operation and maintenance and recreational
15 boating on shoreline erosion. And this is the area
16 where I'm asking for information about how much
17 boating would actually occur within the canal that
18 would maybe lead to erosion issues within the canals
19 and lakes.

20 MR. ZIOLA: There's very little boating
21 that actually occurs in the canal, and especially
22 any kind of -- you know, outside of canoes or kayaks
23 or something like that. So as far as power boating,
24 it's -- and part of that reason is because so many
25 of the bridges don't have the clearance; whereas, if

1 you come with a canoe or a kayak, you come in and
2 continue your way down. Power boats, there's almost
3 no place you can get a power boat in easily.

4 MR. SUESS: In all my years of living in
5 Columbus, I don't think I've ever seen a power boat
6 on the canal. I mean, obviously Lake North you have
7 power boating, but other than that --

8 MR. ZIOLA: In Lake Babcock there's a
9 place where the canal comes into Lake Babcock that
10 allows smaller boats. But as part of state game and
11 recreation law, the whole lake is basically a
12 no-wake zone. So you can have a power boat, but,
13 you know, you can't be over 5 miles an hour. So you
14 can have a motor on a boat but you're limited to
15 5 miles an hour or less.

16 MR. THORESON: Randy Thoreson, National
17 Park Service. Do you see much canoeing and that
18 stuff on the canal? You mentioned that a couple of
19 times.

20 MR. ZIOLA: Not anymore. At one time as
21 part of a local festival they did have a canoe race
22 on it which they started downstream in the last
23 siphon, but on a general basis, no, I don't really
24 see it.

25 MR. SUESS: For the same reason on the

1 power boating you come up to a bridge, you got to
2 basically get out. And then we also have the
3 siphons every so often, so it's not particularly
4 conducive for doing anything like that. But, for
5 people that just want to go a mile here and there
6 back and forth it would be okay. But, again, as far
7 as what we see on a regular basis, probably pretty
8 small.

9 Now, I know on the bypass reach there
10 happens to be quite a bit. I know there's a couple
11 groups that like to go out and canoe and kayak on
12 that bypass reach on occasion when the water flows
13 are --

14 MR. ZIOLA: Yeah, when you have a rain
15 event.

16 MR. THORESON: Versus people like me who
17 canoe and fish at the same time. And I'm rather
18 successful doing that because the same reason people
19 don't. Potential recreation I'm interested in.

20 MR. IVY: Right. Lake North is where the
21 motors are allowed?

22 MR. ZIOLA: Yes. Full power boats. We
23 don't have any motor size or limit. One of the
24 other activities that takes part is the jet skis
25 because in a lot of the state recreational areas

1 that are a little bit heavier, have a higher usage,
2 they kind of limit it or totally ban the use of jet
3 skis. So we go the whole range from sailboats
4 through personal water craft up to full power boats,
5 but we don't limit our horsepower like some of the
6 sand pits might, where you might have 135 horse or
7 something show up you can use.

8 MR. IVY: And that was the lake that we
9 went to in the blizzard yesterday?

10 MR. PILLARD: Did you see it?

11 MR. ZIOLA: We were standing on the edge
12 and you could not see the lake. And that's why I
13 was trying to show the lake -- almost the entire
14 perimeter of the lake except for the corners does
15 have a wake wall because of -- and it wasn't because
16 of any boating activities that was causing it. As
17 you are well aware, it gets windy up there, too, so
18 you do get hard driving winds out of the north when
19 the lake is not frozen, as well as in the summertime
20 we get strong winds out of the south. So it was as
21 much wave action and things like that due to the
22 conditions out there.

23 Jim, what was it, through the late '90s
24 and early 2000s that we installed that wave wall?
25 And that was to reduce maintenance and stabilize the

1 banks.

2 MR. IVY: So is it safe to say from a
3 recreation perspective that the only place you
4 really have to worry about erosion impacts would be
5 the corners of that lake?

6 MR. ZIOLA: Yes.

7 MR. IVY: Now going to back effects of
8 current operation, maintenance and recreation on
9 adjacent land uses.

10 Any comments on that?

11 MR. THORESON: Randy Thoreson, National
12 Park Service. Again I'll be giving comments when
13 you're done there, but I was confused by adjacent
14 because as George pointed out, we're looking within
15 and outside the project boundaries, and my
16 understanding would be within adjacent land uses.
17 That would be acceptable because I think that's
18 something that we looked at. We're not just
19 interested in adjacent. We're interested in project
20 use within the boundaries, too. We're interested in
21 land use rather than property ownership in some
22 cases.

23 MR. IVY: So is there any objection to
24 adding within the boundary as well?

25 MR. SUESS: No.

1 MR. IVY: And one of the things I noticed
2 yesterday during our tour is that you do have a lot
3 of housing that's starting to encroach upon your
4 boundaries, and so as these new housing developments
5 are building close around the lakes, they like the
6 view and canal, how is that going to impact the way
7 you're doing your operations maintenance, recreation
8 opportunities, those kinds of things?

9 MR. WALDOW: George Waldow, HDR. I would
10 refer you to the fact that we also saw how the canal
11 goes through the buildings -- city of Genoa. And I
12 don't -- because the project has access roads on
13 either side of the canal and the boundaries outside
14 of those access roads, I don't foresee any
15 significant impacts due to housing developments
16 coming up to the project boundary, and I would use
17 the Genoa development -- city as an example.

18 MR. IVY: Do you see increased desire for
19 access from these developments? They'll want to add
20 trails up to the banks?

21 MR. ZIOLA: We have already provided the
22 trails, you know, even before. But, again, you
23 know, we don't in the area of the lakes where most
24 of the development is at, we -- I guess we don't
25 limit -- we have not experienced any --

1 is we're removing trees in conjunction with an order
2 we got from FERC.

3 MR. ZIOLA: On the dam safety side.

4 MR. SCHUCKMAN: So I mean, that's the only
5 reason that we've been removing trees at all is
6 because of that order that we have.

7 MR. IVY: Thanks.

8 MR. TURNER: Maybe this really isn't an
9 issue we should be considering. I mean, I'm not
10 sure where it arose.

11 MR. ZIOLA: We don't remove trees. In
12 fact, in the Lake Babcock camping area, our
13 operational people have been planting new trees
14 because of the age of the ones that are there. So
15 we're trying to reestablish trees where it's within
16 our okay to do so. But most of any tree removal is
17 directly required by our operator safety aspect of
18 things, so, we do not -- in fact, like I say, we try
19 to reestablish trees in some of the park areas where
20 we're losing them just due to age.

21 MR. IVY: So really the thing to focus on
22 here is the bank stabilization and the aesthetics of
23 that?

24 MR. SUESS: Right.

25 MR. ZIOLA: Yes.

1 MR. WALDOW: I think there is another
2 aspect, too. Annual inspectors have requested trees
3 that are a threat to falling across an access road,
4 an important access road, need to be removed. And
5 that's kind of an almost individual tree basis, but
6 that's -- I know that that was a requirement.

7 MR. IVY: Great.

8 MR. ZIOLA: We always have an all weather
9 road to any of those major structures.

10 MR. IVY: Right. So that was the last of
11 the points that I was going to bring up. So if you
12 want to add your comments.

13 MR. THORESON: Randy Thoreson, National
14 Park Service. The National Park Service in our
15 hydro program is mainly interested in three areas,
16 recreation, land use, and aesthetics. Other studies
17 that go into that we're obviously interested in are
18 aquatics and how does that relate to fishing
19 experiences; some of the things we talked about
20 today. We looked at those studies, but the main
21 areas that we look at is recreation, land use and
22 aesthetics. And I'd like to just briefly touch on
23 each one of those individually.

24 We've hit a couple of the points on that
25 within our discussion but I want to maybe

1 reemphasize a couple points there.

2 Mention was made within the scoping
3 document, as well as the PAD, about recreation
4 survey as a tool for assessing recreation within the
5 project area. I view that as a tool, an instrument
6 to analyze recreation, not a specific study in
7 itself although it's labeled as study. I'd be
8 interested in where does that go, where does the
9 survey go? By itself we need to draw some
10 conclusions and go with some meaningful measures
11 coming out of that. And it's more of just a form
12 meaning in my opinion. And I think you'll see the
13 park service pretty consistently commenting on that
14 although we recognize form meetings and -- you know,
15 we still like to see some survey recreation
16 analysis.

17 So in relation to the survey I have a
18 couple of points here. Evidenced last night by a
19 gentleman that spoke last night, a citizen, there
20 was some confusion about the recreational survey and
21 what it was. I don't know how you can get the word
22 out on that, but I think the public needs to know
23 what the survey is. It's not going to be shutting
24 down the recreation areas although he said that, if
25 you recall. And I guess I have a concern coming

1 from the public that the recreational survey is
2 going to be a stop to recreational availabilities in
3 the corridor here.

4 I think there needs to be an open and
5 transparent process with the recreational survey and
6 make the public aware and communicate what the
7 survey is.

8 Also on the National Parks Service, to my
9 experience, I'd like to have some input with you on
10 the rec survey instrument itself rather than just
11 see it being undertaken without any input and
12 review. I'm sure other agencies would like that
13 too, as well, I'm assuming.

14 MR. WALDOW: Can I add something?

15 MR. THORESON: Let me finish up. I'm on a
16 roll. Also interested in the seasonal. You know,
17 I'd like to know exactly when during the season the
18 recreational survey is being undertaken. It sounds
19 kind of obvious, but I've been involved in a couple
20 projects where they did the recreational survey
21 outside the peak, you know, which made no sense. So
22 I'd like to know when the recreational survey will
23 be done within the season.

24 Let me just continue on that, and George
25 will want to say a couple things and I'll continue.

1 I guess the question I have to FERC is
2 through the experience I've had with FERC
3 relicensing, a recreation plan is one of the
4 conditional -- standard conditions that come out
5 with licensing. And in some cases it's post license
6 within a year of the license. I guess I'd like to
7 get some feedback from you folks, Mark, and that is,
8 is that the way you intend this project to go as you
9 use the survey and then as a standard consideration
10 ask for a recreation plan?

11 MR. TURNER: Actually, you bring up a
12 couple of points that I'd like to talk about. Your
13 points are good in terms of what you'd like to see
14 included in the survey, but it kind of leads into
15 some of the topics we're going to talk about next,
16 and that's where we're going in the prefiling of the
17 study development aspects and what information is
18 missing. And I think all of those things you
19 probably need to be involved in, and we reiterate at
20 that point in time. And I would fully expect the
21 park services to be involved in helping develop that
22 recreational survey.

23 With regards to plans per se, the
24 Commission has in its very recent history been
25 pushing applicants to give us very definitive

1 measures in its license proposal, and very
2 definitive measures even recommended by the public
3 and agencies and the NGOs. We're trying to get away
4 from that post licensing aspect of developing plans
5 to the extent -- obviously, we're not going to be
6 100 percent successful in a lot of cases if there's
7 very complex issues and things still need to be
8 ironed out. But our goal is really to get to those
9 definable, defensible types of measures that we can
10 implement on license issues.

11 So, from that perspective we would fully
12 expect a recreation plan to be in place in our
13 proposed -- as part of the license application,
14 receive comments on that plan and its adequacy and
15 things that we could review in our environmental
16 analysis and make recommended changes based on our
17 analysis and decisions and then say, okay. The plan
18 is approved with these or without these
19 modifications in place. So that's where we're
20 intending to go.

21 MR. THORESON: Randy Thoreson, National
22 Park Service. I think, you know, I've been involved
23 in this since last May, I believe was the first
24 official -- May 6, I believe. I'd like to commend
25 Loup and the consultant HDR by getting us involved

1 early in the process. I think that's really been
2 beneficial. When I looked at the PAD and initial
3 information, I don't think it's lacking a lot of
4 information related to recreational studies and
5 stuff like that. They've done a pretty good
6 pre-inventory. I think adding a survey to that will
7 strengthen that data. And I wrote that down that
8 one of the elements related to recreation is early
9 on rather than waiting post license.

10 Did you want to say something before I go
11 on to land use?

12 MR. WALDOW: Yeah. This is a good point
13 that you raise, and we've talked about it internally
14 kind of looking forward here. I'm saving the first
15 subject for later.

16 The issue of whether you prepare the plan
17 in advance of the license application or do a
18 preliminary plan and then finalize it after, what I
19 would tell the licensee in this case is that not
20 knowing where we're going to go with some of these
21 other issues, the land use issue, for example, and
22 what kind of settlement agreements might be in the
23 future, there may be an advantage in resolving some
24 of these things together rather than just say we can
25 do the recreation land now and then everything else

1 will fall into place.

2 I know that because of the
3 interrelationships among some of these things like
4 recreation and the fishing -- fisheries issues,
5 fishing access, those things can play together. And
6 I would at this point like to suggest that Loup
7 Power District might want to retain some flexibility
8 as we approach the actual license issuance because
9 there might be what I like to call win/win solutions
10 to some of these issues, and I wouldn't like to
11 limit the flexibility that we have at the very end
12 by locking in something too soon. That's my
13 opinion. That's not the district's opinion.

14 MR. TURNER: I fully appreciate that, and
15 I know that there's a lot of consultation efforts
16 going down that line, but one of our goals here
17 really is to try to get to a license that is -- and
18 has measures that can be implemented at the time of
19 the license. At the very minimum you're going to
20 have to make some proposals in your application. I
21 mean, we're going to do X, Y and Z here, and this is
22 the type of thing. So you're going to have some
23 foundation for that, and you're going to have to
24 include that foundation in your application.

25 MR. WALDOW: We understand.

1 MR. TURNER: But the sooner you can talk
2 about the interrelationship, the better off the
3 parties are. So that's kind of what we're -- the
4 message we're trying to send is to get your goals
5 and objectives and the studies to help you define
6 those measures early. Start talking about those
7 measures early, and anywhere to the extent you can,
8 give us those final plans with your final
9 application.

10 MR. WALDOW: I think we understand that,
11 and I don't see it being a big deal or a big
12 problem, and I appreciate Randy's positive comments
13 about the early involvement and transparency. And
14 that's something we intend to continue, and I don't
15 see problems with the things he brought up. This is
16 going to unfold with the study plans that are
17 forthcoming, and they will be posted on the project
18 website. This isn't going to be done in a vacuum.

19 MR. THORESON: One other thing that I want
20 to talk about is that I did some research and maybe
21 Ron -- back in 1985 the park service did get a
22 particular grant for park improvements. Could you
23 tell me what those were?

24 MR. ZIOLA: In '85 that would have been
25 the two shelters, one at Lake Babcock and one at

1 Lake North. Those are -- there is signage to that
2 with those credits given to those individuals out
3 there.

4 MR. THORESON: I was just curious.

5 MR. ZIOLA: It's the ones with the
6 shingles on the roof.

7 MR. THORESON: Going back to land use.
8 I'd like to mention a few comments about land use.
9 And Mark mentioned bullet points with regard to land
10 use. It talks about the effects of current project
11 operation on adjacent land uses.

12 I already made -- the observation should
13 be within and outside the land use area -- project
14 land use area. I don't think I have any more about
15 land use. I do have a comment about aesthetics.

16 On page 15 in the scoping document it
17 talks about the encroaching vegetation. You talked
18 about that a little while ago. I'd like to know how
19 you're going to be talking about aesthetics related
20 to the environmental assessment. It really isn't a
21 study or a suggestion, but you're trying to fold
22 that into some sort of analysis. I'm not just --
23 you talked about it. I'd also like to see some
24 information as to water craft recreation along the
25 canal.

1 MR. IVY: I have to admit I didn't write
2 this document, so I'm not sure exactly what the
3 thinking was behind it, but I'm guessing that it is
4 looking at the stabilization measures that have
5 occurred, some that are not very esthetically
6 pleasing. So just going through and seeing what can
7 you do to make it look nicer?

8 MR. THORESON: Are you looking at not just
9 the lakes but the whole canal area?

10 MR. IVY: Right.

11 MR. THORESON: I think that would be
12 important. That's what I've got for my comments at
13 this time.

14 MR. IVY: Okay. I just want to emphasize
15 that recreation is no longer tangential to what you
16 do. You've really become a major recreational
17 player in the region, and I hope that you'll move
18 forward in taking on that responsibility and
19 continue to do that because you provide a great
20 service. I just want to throw that out there.

21 MS. NGUYEN: Anything else on any of these
22 four resource areas?

23 I think our schedule or ILP processing
24 plan and EA schedule is next on the agenda. So,
25 this is our -- we're fortunate to have our ILP guru

1 here today. That's Mr. David Turner over there.
2 So, this is the pre-application process of the ILP.
3 So, since it's relatively new to us, I thought I'd
4 put this up and see if anybody else has any more
5 comments.

6 And then the specific dates are obviously
7 in the processing plan in your scoping document 1,
8 but we wanted to highlight a couple of things,
9 mainly all the study plan dates and filings that are
10 coming up.

11 MR. TURNER: Kim, let me interject a
12 couple of things. I think we'll take a few minutes
13 to talk about the ILP process and some of the things
14 that are going to unfold over the next couple of
15 years and why they came about, and kind of put them
16 in context with what you're going to be
17 experiencing.

18 The ILP was really created to improve the
19 efficiency in which the Commission deals with its
20 license application to come before us.
21 Historically -- and when I say historically about
22 five, six, seven years ago -- it wasn't uncommon for
23 the Commission to take as long seven years to
24 process an application once it was filed. And that
25 doesn't include the two or three years the applicant

1 took to prepare his license application. A lot of
2 that was because of information gaps that weren't
3 completely filled out for a variety of reasons
4 during the pre -- prefiling stage.

5 And we did scoping, for instance, after
6 the application was filed and new issues were
7 raised. So we're moving scoping to this period in
8 the prefiling so that we know where those issues are
9 and what needs to be done to help gather the data to
10 deal with those issues.

11 Historically also in that prefiling period
12 applicants kind of went off on their own to do a
13 study. They got input on their study requests and
14 went off and tried to fill that to the best of their
15 knowledge and brought forth that information, and it
16 still didn't quite cut mustard for whatever reason.
17 So we're trying to in the ILP resolve at least those
18 two components of the problems, and that's
19 identifying the issues, identifying the data gaps
20 there to address those issues, get agreement on the
21 types of studies that need to be done to address
22 those issues. And then to coordinate those
23 activities.

24 The other aspect of our downfall was some
25 of the things that were outside of our control like

1 getting 401 water quality certification or
2 completing ESA consultation. And those two aspects
3 were historically a problem, and they had underlying
4 issues very similar for similar reasons. The
5 agencies still didn't feel they had the right data
6 to do their analysis to issue the certificates or
7 complete EA consultations. So a lot of this effort
8 really is to bring together everybody up front, talk
9 about and identify those issues, and define the data
10 gaps and how we're going to fill those gaps.

11 So over the next couple of months, the
12 next really big issue here or the next step that
13 you're facing is to tell the district what kind of
14 data or what kind of studies need to be completed
15 that deal with your issues that you -- these issues
16 that we've identified.

17 And it's incumbent upon you to take the
18 time to do that, and we've included it in the ILP
19 that went out to all stakeholders, including state
20 and federal agencies, NGO's, tribes, a whole slew of
21 the parties that are particularly involved, some
22 criteria that helps you define those studies to make
23 sure that those studies are connected to the project
24 and they're going to result in recommendations that
25 can be applied to a license and implemented by a

1 licensee to make sure that we're not gathering data
2 for data sake, and that they have very defined
3 objectives that will lead to those good -- that good
4 information to help characterize what a new license
5 is going to require.

6 So in the next -- well, by February 10, we
7 need to get information on whether or not we got the
8 issues defined and what kind of studies need to be
9 done, and those study requests really need to be
10 well defined.

11 It's like telling an applicant we want
12 this and asking them to bring them me a rock and say
13 no, it's the wrong rock, wrong color. Come back
14 again. We're trying to give him something to
15 develop where he's going to take that information,
16 develop a proposed study plan, and then we're going
17 to sit down and work through that study plan and try
18 to resolve any disagreements. And it's a very
19 defined time frame for each of these steps in the
20 ILP. And we want this done as efficiently and
21 quickly as possible so it doesn't drag out over two
22 and a half years.

23 One driving factor here for the applicant
24 is they have to file the license application within
25 three years of -- within two years of their

1 expiration date. That's a given. That's a dead
2 given. That milestone doesn't give. So just --

3 MR. JAYJACK: It's statutory. We can't
4 waive that requirement. Congress would have to do
5 that.

6 MR. TURNER: So given that, we have a very
7 fine time frame to get to that point and develop
8 that application. So I recommend you go on our
9 website page and look at the ILP regulations.

10 There's a process plan in the back of your
11 scoping document that talks about the dates. And
12 again, it's a very scheduled driven process but it's
13 done by design so that we can get to where we need
14 to be within that prefiling time.

15 (A recess was taken.)

16 MR. TURNER: Just to kind of pick up, in
17 the process plan it talks about how we're going to
18 work through this. As I said, we'll work through
19 the studies, get agreement, develop a study plan and
20 have an opportunity to comment on that study plan.

21 The applicant will then follow the revised
22 study plan and you'll have a chance again to comment
23 on that. And ultimately if there's any
24 disagreements, the Commission will make a decision
25 as to what we believe is necessary to develop and

1 approve the study plan. And they'll be required to
2 go out and develop that information for the
3 application.

4 And then one year from that date we're
5 going to -- we'll all return to at least review
6 those results and make sure that we have the study
7 plans, gathering the data that we intended, whether
8 it needs to be modified or not. And we'll do that
9 at least once, maybe twice depending on whether or
10 not it's multiple years of studies. And then the
11 applicant will ultimately file a draft or a
12 preliminary licensing proposal, and you get a chance
13 to review that and the data and provide input, and
14 then we'll develop -- with that information develop
15 a final license application.

16 But each one of those things has some very
17 defined time frames within the ILP process, and we
18 encourage you to go back and look at the
19 regulations, look at the process plan and look at
20 the dates that are defined in there. There's some
21 wiggle room in there within the dates to kind of set
22 meeting dates and that kind of thing, but there is a
23 drop dead date as well. So keep that in mind. Keep
24 your calendars open and try to the extent you can to
25 coordinate your activities around that.

1 And that also was part of the design of
2 the ILP is to develop a process plan so that folks
3 have an early on idea of where they're going to be
4 going over the next two years in developing the
5 application.

6 Are there any questions about the ILP
7 process?

8 MR. THORESON: Randy Thoreson, National
9 Park Service. I just was wondering if it might come
10 up with a parallel track with regard to
11 environmental assessment and how that relates to the
12 process plan there and the dates on that.

13 MR. TURNER: It's not going to be a
14 parallel track. Once the license application is
15 filed with the Commission, we'll review it for its
16 accuracy and then we'll do an environmental
17 assessment or AIS depending on any controversy.
18 Right now I don't see an environmental assessment
19 will probably be appropriate here. That will be
20 made for public review. That assessment will also
21 be used to initiate Section 7 consultation as
22 appropriate. And from there we'll develop --
23 presuming there will be a draft and final, it might
24 even be just a single EA. We can develop a final
25 environmental assessment based on the comments that

1 we get on our assessment. And that then forms the
2 basis for the Commission's licensing decision.

3 MR. CARLSON: So to clarify, then, there's
4 a pre-licensing process and a -- or a
5 pre-application process and a post application
6 process, correct? And the EA is part of the post
7 application process. Now, do you go through a
8 separate scoping or is this scoping for that EA?

9 MR. TURNER: This scoping is for that EA.
10 We're doing that analysis now to make sure we have
11 the issues that should be covered. Things change in
12 time over the last couple of years, and things can
13 crop up. This isn't necessarily engrained in stone.
14 If new issues kind of come to bear, we'll adjust our
15 environmental assessment accordingly. But our
16 intent is to make sure that we, to the best extent
17 we can now, based on the best available information
18 define those issues in the studies so that we're not
19 getting surprised down the road.

20 MR. CARLSON: So the scoping kind of
21 covers both the studies that will be going into the
22 pre-application process as well as the EA?

23 MR. TURNER: Exactly.

24 MR. CARLSON: And then my understanding is
25 that this is also the time when you would accept

1 comments on the scoping document, Scoping Document 1
2 and you will be then revising that to send out a
3 Scoping Document 2; is that correct?

4 MS. NGUYEN: That is correct, yes.

5 MR. CARLSON: So this commenting period,
6 we're commenting both on the studies and proposed
7 studies that we would include and also on the --
8 referenced in the PAD and so forth, and then also on
9 the scoping documents. We're commenting on two
10 different things for the February 10.

11 MR. TURNER: Exactly. Study requests that
12 you want there. Now, as I understand it, the PAD
13 was probably just -- and it's all required as a
14 general list of the type of studies. They haven't
15 put really a lot of detail in there, but that in
16 part is because some of that really needs to be
17 developed in consultation once the issues are
18 defined.

19 So it's now your turn to say, yeah, these
20 things need to be studied and really we have these
21 kinds of methods in mind to get to that kind of
22 data. And the applicant can look at it and weigh in
23 their minds whether or not they're willing to do
24 that, and the kind of connection it has to the
25 project and its operations and say, yeah or nay, or

1 here is an alternative. And then we're going to sit
2 down and talk about these alternatives.

3 MR. THORESON: Randy Thoreson, National
4 Park Service. Let's go back to the EA a little bit
5 and point out to me why on page 25 and 26 which you
6 have on the screen there at the tail end of that
7 chart it talks about the preliminary licensing
8 application, the very end of that, all stakeholders.
9 If it happens between the preliminary and the
10 license application filed, shouldn't there be a row
11 there that talks about the EA?

12 MR. TURNER: No. This is the applicant's
13 licensing proposal. Consider it a draft of the
14 application. It lays out what they're proposing to
15 do, if anything, in terms of changing their
16 operations or proposed -- it's just here is the
17 early draft of the application. It should be
18 constructed to look like an environmental assessment
19 the Commission may be producing.

20 And that was the other aspect of the ILP;
21 to try to morph this PAD that you've got which gives
22 a lot of the existing information based on what they
23 were able to glean and gather from their
24 consultations with everybody and existing
25 literature -- that morphs into the draft application

1 or preliminary licensing proposal, and we're
2 recommending that applicants use our environmental
3 assessment guidelines to construct that.

4 That then morphs into the final license
5 application based on the components we see from
6 everybody on the contents of that preliminary
7 licensing proposal.

8 That final license application gets filed
9 with the Commission, gets reviewed by the
10 Commission, and if everything is there, including
11 all of the other exhibits, the Exhibit G drawings
12 that come in, the Exhibit F's that have existing
13 project facilities and financing cost information
14 that's associated with Exhibit H, all those other
15 components that are not required to be produced
16 early in the prefiling gets filed.

17 Once we determine that we -- that all of
18 that meets our regulations for filing an application
19 is adequate, we'll notice that. And once we
20 determine that all the information is available,
21 we'll issue a Ready for Environmental Analysis
22 Notice. That REA Notice is your trigger then to
23 say, here's our final recommendations for licensing
24 this project and these measures. And we take that
25 information, do an environmental assessment

1 considering what they proposed, what you've
2 recommended, and based on that analysis make our
3 recommendation, at least in draft form if not final
4 form in the EA, to the Commission and get comments
5 on that, and that goes before the Commission who
6 makes its licensing decision.

7 MR. JAYJACK: So what you're looking at
8 here is a prefiling schedule. Once the application
9 is filed and we notice it, like David said, you'll
10 probably most likely see post licensing schedule,
11 and there is where you'll see a line item for
12 environmental assessment.

13 MS. NGUYEN: Which is this page 18 of the
14 scoping document that I have up here tentatively.

15 Let's get to that ILP processing schedule
16 and talk about a couple of big dates coming up. As
17 you've already said, February 10 is the next big
18 date for everyone, and that's their comments on the
19 PAD, our SD1, and their study requests.

20 And then after that, we'll issue an SD2 in
21 March.

22 And then from your study requests, then
23 Loup will come in with their proposed study plan in
24 March.

25 And then you go through a series of

1 meetings on the study plan and then comments from
2 everyone, and then Loup files the revised plan in
3 July, as you can see here. And then we make our
4 determination in August.

5 MR. TURNER: That's your first year,
6 basically, or next six months.

7 Any questions? Comments?

8 MS. RICHARDSON: Lisa Richardson with HDR.
9 We've been talking with the district about schedule,
10 and the April 27 date is a -- we have to conduct
11 that study plan meeting by that date. We are
12 tentatively looking at April 21 for a study plan
13 meeting, and then we kind of envision that there may
14 be follow-up meetings after that. So, we're going
15 to be looking for some tentative dates in May and
16 June that we can continue to coordinate and go back
17 and forth on the study plan so that we'll have
18 something -- when we file our revised study plan,
19 we'll have good concurrence from everybody on what
20 those studies include.

21 MR. TURNER: It's been our experience on
22 the 30-some odd ILP's that are ongoing at the
23 Commission right now that it has been very rare that
24 people have been able to actually sit down and
25 resolve studies in that one meeting, so I would

1 encourage you to kind of set some subsequent dates
2 within that 90-day period to kind of talk about
3 those meetings so that everybody can participate.

4 MR. JAYJACK: On a related point, if in
5 the next 30 or so days -- because this is roughly
6 around 26 or 27 days -- if you recommend studies be
7 done or propose studies be done, we really encourage
8 folks to follow our regulations and address the
9 criteria that apply to you, to your agency or to you
10 as an individual because it helps us in making our
11 study determination. And we fully expect folks to
12 address the study criteria that applies.

13 It's not helpful to us if -- I'll use a
14 toxic study as an example. Your recommended study
15 is to go and do a toxic study plan. It's very broad
16 and does not address any or just a few of the issues
17 because it's very hard for us to make a
18 determination on that very broad and general type of
19 a study recommendation. The better you apply the
20 criteria and use the criteria, the more we
21 understand the study requests and the better chance
22 that we're going to fully understand it and base a
23 good decision on exactly what it is you want in
24 terms of a study.

25 So, I can't reiterate enough that, you

1 know, you folks really need to address those
2 criteria so that we understand what it is that you
3 want and we can make a good decision.

4 MR. WALDOW: George Waldow, HDR. Could
5 you comment on the concept that we have talked about
6 internally where a study -- study of an issue lends
7 itself to a tiered study approach where you do
8 studies for a season or even a year to identify the
9 magnitude of some impact physically, and then
10 subsequent to what you learn from that study there
11 may or may not be another study to follow on to look
12 at the impacts of that issue on a species or a site
13 or whatever the case may be.

14 Does that fit within your discussion of
15 the concept here?

16 MR. TURNER: It does. The only caveat
17 that I would apply is that we would also like to see
18 where you're likely to go, the next steps. You have
19 a hypothesis and it says this is one avenue that
20 we're going to go, and if it says this, we're going
21 to do Y. If it says this, we're going to do X.
22 That should be as well defined as possible because
23 we don't want to get down into later discussions --
24 while there are opportunities for that in terms of
25 reviewing the study results, we really want to have

1 that path already pretty much worked out. And in
2 part, that's related to certain conditions that are
3 mandatory, the Section 4E conditions, for
4 reservations which, as I would see here, don't
5 apply.

6 But Section 18 restrictions, for instance,
7 or 401 quality certification conditions those
8 agencies have under the ILP, a process available to
9 them is to basically ask for a new look at the
10 Commissions' decision if we didn't go with a study
11 that they recommended. Under those -- those
12 specific authorities, they could ask for a different
13 or a third panel review of those.

14 And to the extent that those studies
15 you're talking about in the tiered approach might be
16 affected by that decision, they would not be able to
17 implement that process after this initial study
18 determination. It's only available to them on this
19 first year. So to the extent we can define that up
20 front, those two things, it helps in those kinds of
21 situations.

22 But it also really helps resolve where
23 we're going down the line. We don't have to -- we
24 really won't be continuing to negotiate those kinds
25 of details two years down the road here.

1 So to the extent you can, we want that
2 plan defined up front and in as much detail as you
3 can. So tiered approach works. It's just that it
4 still should probably contemplate to the extent
5 possible where you go with the end studies.

6 MS. NGUYEN: And did you say that first
7 date was April 21? Right, Lisa?

8 MS. RICHARDSON: April 21, right.

9 MR. CARLSON: In terms of commenting on
10 that first -- on the proposed study plan, I would
11 also request of the district or their consultant to
12 consider that our comments are ultimately due on the
13 26th of June. It's the end of the 90-day period and
14 for any later meetings during that 90 days, or any
15 revised plans or anything, draft revised plans or
16 anything of that nature, we should get it well
17 before the 26th in order to have to time to -- for
18 comments. I mean, we don't want to receive on the
19 85th day of a 90-day period. It just give us a real
20 opportunity there to provide any comment, and we'd
21 be obligated almost to further those until the
22 following comments on the revised study plan.

23 MS. NGUYEN: You mean comments on your
24 subsequent meetings after the initial --

25 MR. CARLSON: Yes, subsequent meetings,

1 any draft working products that come out of that,
2 if -- if they expect us to come within that, we'd
3 like to receive that well before the 90th day of the
4 comment period.

5 MS. NGUYEN: One of the ILPs I'm working
6 on now is after every meeting that they've been
7 having during this period is they do a summary and
8 send it out to everyone, all the stakeholders or
9 anyone who was at the study plan meeting, and that
10 gives you an opportunity to comment before the next
11 meeting.

12 MR. TURNER: To the extent you'll reach
13 agreements verbally or otherwise, things should be
14 documented in the record. So it might alleviate
15 some of your concerns about getting earlier drafts.
16 I think some applicants have been doing that, but
17 it's obviously not a requirement for regulation.

18 The next product really is the revised
19 study plan. But to the extent you can keep those
20 kind of -- that dialogue flowing, keeping it in the
21 record, and any agreements in the record, hopefully
22 it will facilitate the process. There won't be any
23 real surprises in the revised study.

24 MS. RICHARDSON: Lisa Richardson for HDR.
25 We appreciate that there needs to be a lot of back

1 and forth dialogue, and really that June 26 date is
2 a date for your comments technically on the study
3 plan, the proposed study plan, so by that same token
4 we'd encourage you to provide us with your comments
5 as early as you can at that first study plan meeting
6 so that we can then incorporate and discuss and --
7 just since the PAD has been filed, we've had some
8 discussions with Randy. We've had some conference
9 calls on the recreation work group with Fish &
10 Wildlife and Game & Parks trying to get input
11 already on what it is that you're wanting the study
12 to look like.

13 We just need to coordinate back and forth
14 all of us together and that nobody wait until the
15 last minute to provide their information.

16 MR. JAYJACK: Exactly. Just to kind of
17 reiterate the point, you'll know largely what the
18 applicant's position is as to the studies that
19 they're proposing to do in March, so that's really
20 when you should be looking at it. You've got a
21 three-month window there to review.

22 MR. CARLSON: The problem is if you're
23 receiving products through that 90 days, it comes
24 down to what actually are you commenting on, the
25 March document or what's been developed since then?

1 MS. NGUYEN: Anything else? Do we want to
2 go back and maybe take a look at our tentative EA
3 schedule? Does anybody have any comments on this?

4 MS. RICHARDSON: I have one question.
5 Either David or Nick, one of you noted a draft
6 versus a non-draft. I think this schedule shows
7 that you're not intending to have a draft. Is there
8 a point where you might decide that you do need a
9 draft EA and when will that occur?

10 MR. TURNER: It will most likely occur
11 after the application is filed and we see how things
12 have progressed in terms of proposed measures, what
13 kind of controversy there still allies, how much
14 difference there is between recommendations we're
15 anticipating versus the issues, but it will likely
16 happen after the application is filed.

17 MR. JAYJACK: The cue to look for is what
18 I mentioned to Randy before. When we issue the
19 notice you'll see typically -- I think we still do
20 this -- at the end of the notice there will be a
21 licensing -- or a processing schedule, and if you
22 still see single EA at that point, then that's --
23 we're sticking with the default.

24 But if -- we'll know a lot more when the
25 application is filed. If there's a change, then

1 you'll probably see a line item for draft EA and
2 another line item for final EA. So that's really
3 when to start looking.

4 MS. NGUYEN: Anything else on the
5 schedule? Anybody else on anything else? Hearing
6 nothing, I move to close the meeting and I thank you
7 again for coming and for your participation. We
8 greatly appreciate it. That's why we're here. So
9 thanks again.

10 (At which time the meeting adjourned at 12:30 p.m.)

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C E R T I F I C A T E

STATE OF NEBRASKA)
) ss.
COUNTY OF DOUGLAS)

I, Margaret Tyska Heaney, General Notary Public within and for the State of Nebraska, do hereby certify that the foregoing proceedings of the Federal Energy Regulatory Commission was taken by me in shorthand and thereafter reduced to typewriting by use of Computer-Aided Transcription, and the foregoing one hundred thirty-four (134) pages contain a full, true and correct transcription of all the proceedings to the best of my ability;

IN WITNESS WHEREOF, I hereunto affix my signature and seal the 15th day of January, 2009.

MARGARET TYSKA HEANEY
GENERAL NOTARY PUBLIC

My Commission Expires: October 18, 2012