

FEDERAL ENERGY REGULATORY COMMISSION  
Washington, DC 20426

**DATE:** May 5, 2008

**MEMORANDUM TO:** The Agency/Party Addressed

**SUBJECT:** Scoping of environmental issues for the proposed Lake Powell Pipeline Project, FERC No. 12966, Utah and Arizona

The Federal Energy Regulatory Commission (Commission) is doing National Environmental Policy Act (NEPA) scoping for the proposed Lake Powell Pipeline Project and the anticipated license application for the Lake Powell Hydroelectric System FERC No. 12966 (Hydro System), a component of the water supply pipeline, located in Utah and Arizona.

The Utah Board of Natural Resources (Utah) filed its Notice of Intent and Pre-Application Document (PAD) for the Hydro System on March 4, 2008 and will use the Commission's Integrated Licensing Process (ILP) for the Hydro System licensing, and to prepare the environmental record needed by other federal agencies reviewing the project. Because the Hydro System is only one component of the proposed 180-mile-long water supply pipeline project, construction of substantial parts of the overall project will require permits from other federal agencies. Utah intends its PAD (and subsequent studies) to be used by all the agencies that would need to issue permits for the pipeline, developing a record that can be used to prepare a single environmental analysis document covering the entire water supply pipeline.

Pursuant to NEPA, we intend to prepare an environmental impact statement (EIS) for the entire Lake Powell Pipeline Project, in cooperation with other federal agencies, that would be used by the Commission to determine whether, and under what conditions, to issue an original hydropower license for the Hydro System and that would be used by other federal agencies for their decisions. To support and assist our environmental review, we are beginning the public scoping process to ensure that all pertinent issues are identified and analyzed.

We invite you to participate in the scoping process and are circulating the attached Scoping Document 1 (SD1) to provide you with information on the project and to ask for comments and suggestions on our preliminary list of issues and alternatives to be addressed in the EIS. Please review this SD1 and, if you wish to provide comments, follow the instructions included in section 5.0 *Request for Information*.

The Commission's regulations for the ILP require that parties wishing to submit comments on the PAD or staff's SD1, or wishing to request studies, do so within 60 days of the issuance date of SD1.<sup>1</sup>

As part of our scoping process and in an effort to identify issues, concerns, and opportunities associated with the proposed action, we will hold three scoping meetings on June 10, 11, and 12, 2008, to receive comments on the scope of the EIS. The public scoping meetings will be held at the Dixie Center, 1835 Convention Center Drive, St. George, Utah; Cedar City Festival Hall Conference Center, 105 North 100 East, Cedar City, Utah; and Kanab Middle School, 690 Cowboy Way, Kanab, Utah. More information on the meetings is available in the attached SD1.

A site visit is typically held in conjunction with the scoping meeting. The site visit for the projects is scheduled to take place on June 9 and June 10, 2008. The SD1 also has details on the site visit, including the person to contact if you are interested in attending.

Please direct any questions about the licensing of the Hydro System to Jim Fargo at (202) 502-6095, [james.fargo@ferc.gov](mailto:james.fargo@ferc.gov).

enclosure: Scoping Document 1

cc: Utah Board of Water Resources  
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Salt Lake City, UT 84114-6201

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<sup>1</sup> CFR 18 Section 5.9 *Comments and information or study requests*

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**SCOPING DOCUMENT 1**

**LAKE POWELL PIPELINE PROJECT**

**FERC PROJECT No. 12966**

Federal Energy Regulatory Commission  
Office of Energy Projects  
Division of Hydropower Licensing  
Washington, DC

May 2008

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## TABLE OF CONTENTS

<b>1.0 INTRODUCTION .....</b>	<b>3</b>
<b>2.0 SCOPING .....</b>	<b>6</b>
2.1    PURPOSES OF SCOPING .....	6
2.2    COMMENTS AND SCOPING MEETINGS.....	6
<b>3.0    PROPOSED ACTION AND ALTERNATIVES.....</b>	<b>8</b>
3.1    UTAH’S PROPOSED ACTION.....	9
3.2    STAFF’S AND OTHER MODIFICATION OF THE PROPOSED ACTION .....	10
3.3    NO ACTION ALTERNATIVE .....	11
<b>4.0    SCOPE OF CUMULATIVE ANALYSIS AND RESOURCE ISSUES .....</b>	<b>11</b>
4.1    CUMULATIVE EFFECTS .....	11
4.1.1 <i>Geographic Scope</i> .....	11
4.1.2 <i>Temporal Scope</i> .....	11
4.2 <b>LAKE POWELL PIPELINE PROJECT EFFECTS</b> .....	12
4.2.1 <i>Geology and Soil Resources</i> .....	12
4.2.2 <i>Water Resources</i> .....	12
4.2.3 <i>Aquatic Resources</i> .....	13
4.2.4 <i>Terrestrial Resources</i> .....	14
4.2.5 <i>Threatened and Endangered Species</i> .....	14
4.2.6 <i>Recreation</i> .....	15
4.2.7 <i>Aesthetics and Noise</i> .....	16
4.2.8 <i>Archaeological and Historic Resources</i> .....	16
4.2.9 <i>Socioeconomic Resources</i> .....	16
4.2.10 <i>Developmental Resources</i> .....	16
4.3    PROPOSED PROTECTION, MITIGATION, AND ENHANCEMENT MEASURES .....	17
<b>5.0 REQUEST FOR INFORMATION .....</b>	<b>17</b>
<b>6.0 EIS PREPARATION SCHEDULE.....</b>	<b>19</b>
<b>7.0 EIS OUTLINE .....</b>	<b>19</b>
<b>8.0 LIST OF COMPREHENSIVE PLANS .....</b>	<b>21</b>
<b>9.0    INTERESTED PARTIES MAILING LIST .....</b>	<b>23</b>

## 1.0 INTRODUCTION

The Federal Energy Regulatory Commission (Commission or FERC), under the authority of the Federal Power Act (FPA),<sup>2</sup> may issue licenses for up to 50 years for the construction, operation, and maintenance of non-federal hydroelectric projects. The Utah Board of Natural Resources (Utah) filed its Notice of Intent and Pre-Application Document (PAD) for the Lake Powell Hydroelectric System FERC No. 12966 (Hydro System) of the Lake Powell Pipeline Project on March 4, 2008 and will use the Commission's Integrated Licensing Process (ILP) for the project's licensing.

The National Environmental Policy Act of 1969 (NEPA),<sup>3</sup> the Commission's regulations, and other applicable laws require that we independently evaluate the environmental effects of the proposed project and reasonable alternatives. Based on a preliminary analysis of the issues, Commission staff is proposing to prepare an environmental impact statement (EIS) that describes and evaluates the probable effects, including an assessment of the cumulative effects, if any, of the proposed action and alternatives considered.

The Commission has jurisdiction with regard to the Hydro System. Because the Hydro System is only one component of the proposed 180-mile-long water supply pipeline project, construction of substantial parts of the overall project will require permits from other federal agencies. Utah intends its PAD (and subsequent studies) to be used by all the agencies that would need to issue permits for the pipeline, developing a record that can be used to prepare a single environmental analysis document covering the entire water supply pipeline. This scoping process will help the other federal agencies identify the pertinent issues that need to be analyzed in the EIS for the Lake Powell Pipeline Project.

To ensure cooperation among federal agencies that have jurisdiction with regards to the pipeline, the Commission intends to enter into a Memorandum of Understanding (MOU) with each of the agencies. This MOU would accomplish the following: (1) all of the federal agencies that need to authorize part of the pipeline project would be working

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<sup>2</sup>16 U.S.C. §791(a) -825(r).

<sup>3</sup>National Environmental Policy Act of 1969, as amended (Pub. L. 91-190. 42 U.S.C. 4321-4347, January 1, 1970, as amended by Pub. L. 94-52, July 3, 1975, Pub. L. 94-83, August 9, 1975, and Pub. L. 97-258, §4(b), Sept. 13, 1982).

together under a single process and (2) the scope of the environmental analysis can expand from the hydro system to include the entire pipeline project. We expect that the MOU's will be in place before we issue Scoping Document 2.

The proposed Lake Powell Pipeline, of which the Hydro System is a component, is both a water supply and power generation project that would include about 180 miles of underground pipe. The pipeline project would consist of four systems: 1) Water Intake System, 2) Water Conveyance System, 3) Hydro System, and 4) Cedar Valley Pipeline System. The Hydro System includes large diameter penstocks, seven powerhouses and regulating tanks, a forebay, pumped storage hydro facility, an afterbay, and associated power transmission facilities and equipment (See figure 1).

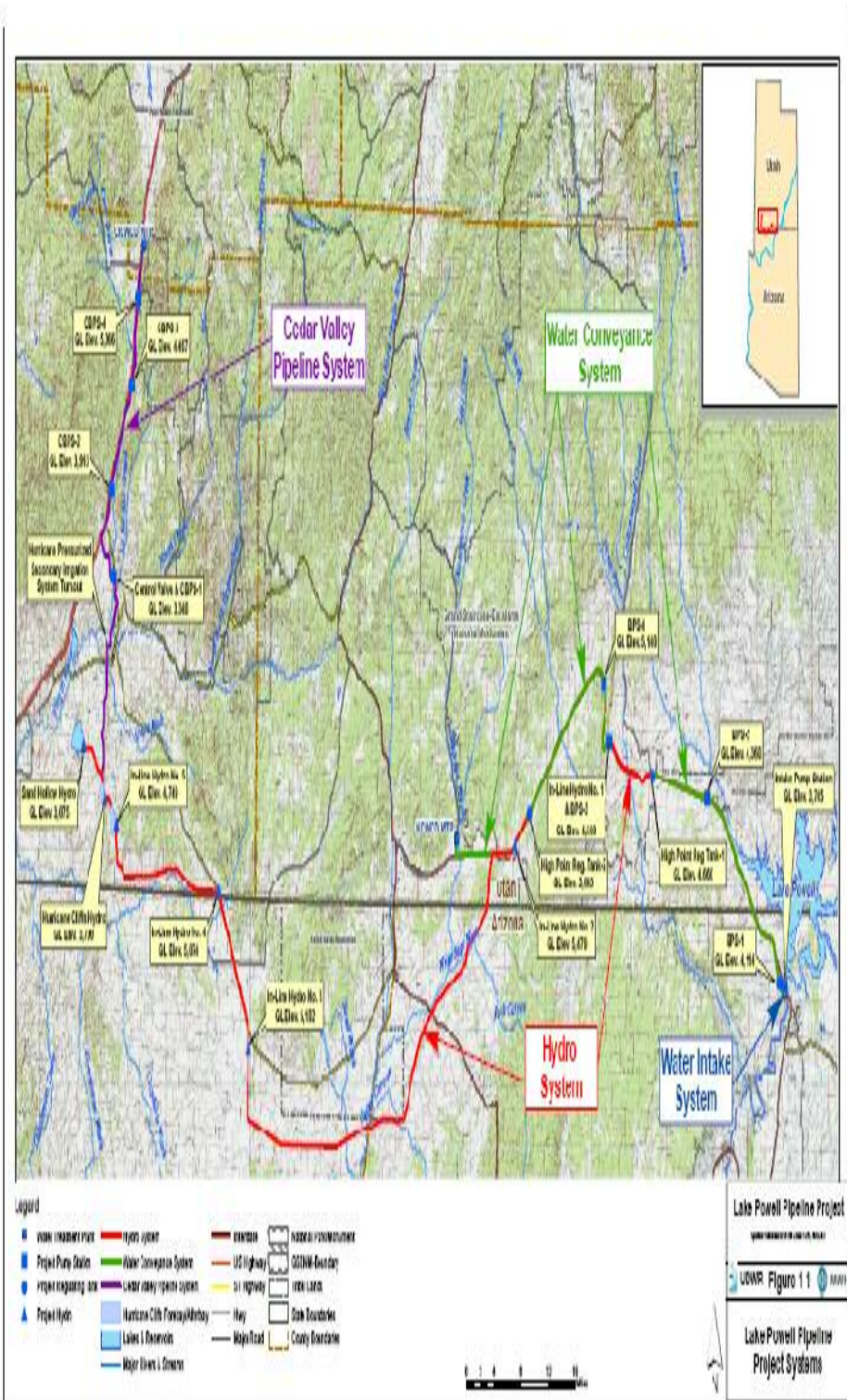


Figure 1—Proposed Lake Powell Pipeline

## 2.0 SCOPING

### 2.1 Purposes of Scoping

Scoping is the process used to identify issues, concerns, and opportunities associated with a proposed action. According to NEPA, scoping should be conducted early in the planning stage of a project. The purposes of scoping are as follows:

- invite federal, state, and local resource agencies, Indian tribes, nongovernmental organizations (NGOs), and interested persons to help us identify significant environmental and socioeconomic issues related to the proposed action;
- determine the depth of analysis and significance of issues to be addressed in the EIS;
- identify how the project would or would not contribute to cumulative impacts in the project area;
- identify reasonable alternatives to the proposed action that should be evaluated in the EIS;
- ask participants for information they have available on the resources at issue; and
- determine the resource areas and potential issues that do not require detailed analysis during review of the project.

### 2.2 Comments and Scoping Meetings

Between now and the time when the Commission and the other responsible federal agencies (federal agencies) take action on the Lake Powell pipeline, there will be the following opportunities to comment:

- During the public scoping process and study plan meetings, which occur prior to preparation of the EIS; so that the Commission staff and agencies can receive written comments regarding issues or the scope and content of studies



- In response to the Commission's notice that the project is ready for environmental analysis.
- After issuance of the draft EIS.

Besides the written comments we ask for in this SD1, Commission staff will hold three public scoping meetings in the vicinity of the projects. We invite all interested agencies, Indian tribes, NGOs, and individuals to attend one of the meetings to help staff identify the scope of environmental issues that should be analyzed in the EIS.

The times and locations of the scoping meetings are as follows:

Tuesday, June 10, 2008	5:00 p.m. to 9:00 p.m.	Kanab Middle School 690 Cowboy Way Kanab, Utah
Wednesday, June 11, 2008	5:00 p.m. to 9:00 p.m.	Dixie Center 1835 Convention Center Drive St. George, Utah
Thursday, June 12, 2008	5:00 p.m. to 9:00 p.m.	Festival Hall Conference Center 105 North 100 East Cedar City, Utah

On June 9 & 10, 2008, Commission staff will visit the site of the proposed Lake Powell Pipeline. We will view the proposed pipeline route and possibly alternative routes that have been considered for the project. Staff will tour these proposed project areas by automobile and on foot. Representatives of the Utah Board of Natural Resources will accompany the Commission staff.

Interested parties may attend the site visit. Those planning to attend must provide their own transportation. If you are interested in attending the site visit, or would like more information about the visit, please contact Harold Sersland at (801)310-0089. Those attending the site visit on Monday, June 9, should meet at 8:00 a.m. at Sand Hollow Reservoir State Park entrance pay station (please bring your own food and water for the day). The plan on Monday is to tour Sand Hollow Hydro Site 7 and Hurricane Cliffs Hydro Sites 5 and 6, and then follow the proposed pipeline route until south of the Kaibab Indian Reservation, ending at about 5:00 p.m.

Those taking the site visit on Tuesday, June 10, should meet at 8:00 a.m. at the BLM Interpretive Center in east Kanab on U.S. 89, (again please bring own food and water for the day). The trip will start near the proposed Hydro Site 2 and end at Glen Canyon National Recreation Area at Lake Powell around 2:00 p.m.

A court reporter will be available at the scoping meetings to record statements, and all statements (oral and written) will become part of the Commission's public record for the project. Interested parties who choose not to speak or who are unable to attend any of the scoping meetings may provide written comments and information to the Commission as described in section 5.0. These meetings are posted on the Commission's calendar located on the internet at <http://www.ferc.gov/EventCalendar/EventsList.aspx> along with other related information.

Meeting participants should come prepared to discuss their issues and concerns as they pertain to the project. To prepare for the scoping meetings, we ask that participants review the Pre-Application Document (PAD). A copy of the PAD is available for review at the Commission in the Public Reference Room or may be viewed on the Commission's website (<http://www.ferc.gov>), using the "eLibrary" link. Enter the docket number, P-12966 to access the document. For assistance, contact FERC Online Support at [FERCOnlineSupport@ferc.gov](mailto:FERCOnlineSupport@ferc.gov) or toll free at 1-866-208-3676, or for TTY, (202) 502-8659.

Following the scoping meetings and comment period, all issues raised will be reviewed and decisions will be made about the level of analysis needed. If preliminary analysis shows that any issues presented in this scoping document have little potential for causing significant effects, the issue(s) will be identified and the reasons for not providing a more detailed analysis will be given in Scoping Document 2.

The EIS will address the major issues identified during the scoping process.

### **3.0 PROPOSED ACTION AND ALTERNATIVES**

In accordance with NEPA, our environmental analysis will consider the following alternatives, at a minimum: (1) Utah's proposed action, (2) staff's and other modification of the proposed action, and (3) no action. Given our expectation that other federal agencies with permitting responsibilities will reply to our request for cooperating agency status, the scoping document describes the entire Lake Powell Pipeline and issues

associated with it. We want to make it clear, however, that the Commission only has jurisdiction over the part of the pipeline that pertains to the Hydro System.

### 3.1 Utah's Proposed Action

The proposed pipeline project consists of building and operating 139 miles of 69-inch-diameter pipeline and penstock; 35 miles of 48- to 30-inch-diameter pipeline; 6 miles of 24-inch-diameter pipeline; a combined conventional peaking and pumped storage hydro station; and six conventional in-line hydro stations on federal, state, and private lands in Kane, Washington, and Iron counties, Utah, and in Coconino and Mohave counties, Arizona.

Starting at Lake Powell, a water intake would convey water from the Bureau of Reclamation's Lake Powell up to a high point within the Grand Staircase-Escalante National Monument. From there, the water would go through a series of hydroelectric turbines, ending at Sand Hollow reservoir, near St. George, Utah. To serve Iron County, Utah proposes another pipeline, the Cedar Valley Pipeline System, from the Hurricane Cliffs afterbay reservoir to Cedar Valley in Iron County, Utah.

The primary project facilities would include the following:

- A Water Intake System on the west side of Lake Powell in Coconino County, Arizona.
- 44 miles of 69-inch-diameter buried pipeline from Lake Powell to two regulating tanks at high points in the Grand Staircase-Escalante National Monument along a 60-foot-wide operational right-of-way in Kane County, Utah.
- Four booster pump stations along the 44-mile-long pipeline, three in Kane County, Utah and one in Coconino County, Arizona, and 6.6 miles of power transmission line to supply electricity to the pump stations.
- 6.3 miles of 24-inch-diameter buried pipeline from the 69-inch-diameter penstock west of the Grand Staircase-Escalante National Monument boundary to the mouth of Johnson Canyon, terminating at a proposed regional water treatment plant serving Kane County Water Conservancy District in Kane County, Utah.

- 95 miles of 69-inch-diameter buried penstock, which includes 88 miles of continuous penstock pipeline from the two regulating tanks at high points in the Grand Staircase-Escalante National Monument to the existing Sand Hollow Reservoir, along a 60-foot wide operational right-of-way in Kane and Washington counties, Utah and Coconino and Mohave counties, Arizona.
- Five in-line hydro stations using impulse type turbine units along the pipeline and penstock alignment, ranging in capacity from 1.0 megawatt (MW) to 3.5 MW; including two in Kane County, Utah; one in Mohave County, Arizona; and two in Washington County, Utah.
- Hurricane Cliffs Pumped Storage Hydro consisting of two generating units with combined capacity of 300 MW alongside a single 35-MW peaking generating unit in Washington County, Utah.
- Sand Hollow Hydro, consisting of a turbine generating system with a single generating unit of about 3.5-MW capacity, at the terminus of the Lake Powell Pipeline along the shoreline of the existing Sand Hollow reservoir in Washington County, Utah.
- 42 miles of power transmission line, including about 35 miles of 138-kV line connecting in-line hydro stations to the existing power grid and about 7 miles of 345-kV line from the Hurricane Cliffs Pumped Storage Hydro and Sand Hollow Hydro to the planned Hurricane West 345-kV substation.
- 35-miles of 48- to 30-inch-diameter buried pipeline from the Hurricane Cliffs afterbay to the Hurricane pressurized secondary irrigation system and to a regional water treatment plant in the Cedar Valley near Kanarraville along a 50-foot-wide operational right-of-way in Washington and Iron counties, Utah, and 2.2 miles of power transmission line to supply electricity to the four booster pump stations that pump water to Iron County.

### 3.2 Staff's and Other Modification of the Proposed Action

Commission staff will consider and assess all alternative recommendations for location or other changes to the proposed project, as well as protection, mitigation, and enhancement measures identified by the Commission staff, other agencies, Indian tribes, NGOs, and the general public.

### 3.3 No Action Alternative

Under the no-action alternative, the needed authorizations for the pipeline project would not be granted. There would be no disturbance of existing environmental conditions at the site, and the water supply and power generation needs would be addressed through other means. The no action alternative is our baseline to establish environmental conditions for comparison with other alternatives.

## **4.0 SCOPE OF CUMULATIVE ANALYSIS AND RESOURCE ISSUES**

### 4.1 Cumulative Effects

According to the Council on Environmental Quality's regulations for implementing NEPA (Section 1508.7), a cumulative effect is the impact on the environment that results from the incremental impact of the action when added to other past, present and reasonably foreseeable future actions, regardless of what agency or person undertakes such other actions. Cumulative effects can result from individually minor but collectively significant actions taking place over a period of time, to include hydropower and other land and water development activities.

Based on information in the Pre-Application Documents, we have not identified any resources as potentially cumulatively affected by construction and operation of the Lake Powell Pipeline Project. By this document, we are asking for recommendations on resources that may be affected cumulatively.

#### 4.1.1 Geographic Scope

The geographic scope of the analysis defines the physical limits or boundaries of the proposed action's effect on the resources. Because the proposed action would affect the resources differently, the geographic scope for each resource may vary. For any resources that participants recommend we analyze for cumulative effects, we are also asking them to recommend the geographic scope that they think is appropriate.

#### 4.1.2 Temporal Scope

The temporal scope of a cumulative effects analysis includes a discussion of past, present, and future actions and their effects on each resource that could be cumulatively affected. For any resource that we identify as potentially having cumulative effects, our

temporal scope will look 30 to 50 years into the future, based on the potential term of a new license, concentrating on the effect on the resource from reasonably foreseeable future actions. The historical discussion will, by necessity, be limited to the amount of available information for each resource area.

## 4.2 Lake Powell Pipeline Project Effects

Environmental issues and concerns preliminarily identified by the Commission staff are presented below. This identification of issues and concerns is not intended to be exhaustive or final, but is an initial listing of issues we have identified. For convenience, the issues have been listed by resource area.

### 4.2.1 Geology and Soil Resources

- Effects of active faults on pipeline crossings.
- Effects of rock quality on pipeline excavation methods.
- Effects of rock and geologic structure on probable shaft and tunnel locations.
- Effects of groundwater infiltration on tunnels, shafts, or excavation trenches.
- Amount of dewatering at tunnel, shaft, and excavation trench locations needed to facilitate construction.
- Effects of tunnel construction and/or operation on surrounding groundwater.
- Whether suitable soil and rock characteristics exist at the foundations of the pump station and hydro sites.

### 4.2.2 Water Resources

- Effects of project proposal on water availability and water use.
- Effects of project construction on water quality and turbidity at project reservoirs and stream crossings.

- Consistency with state and regional water resource planning efforts.
- Integration of water conservation and management programs.
- Effects on water quality in the Virgin River due to intentional or unintentional releases of water.
- Effects of project operation on water temperature and dissolved oxygen profiles at existing project reservoirs, including spatial and temporal trends.
- Effects of project operation on water quality parameters due to the inter-basin transfer of water.
- Effects of project operation on ground water quality in the vicinity of the Sand Hollow reservoir due to artificial aquifer recharge.
- Effects on contamination of water resources resulting from the potential release of petroleum products or other volatile organic chemicals (VOCs) as a result of construction and operation of the project.

#### 4.2.3 Aquatic Resources

- Entrainment of fish from Lake Powell into the proposed project's intake structure, including, but not limited to, the federally-listed razorback sucker (*Xyrauchen texanus*).
- Effects of siltation resulting from project construction at proposed stream crossings.
- Effects of direct or indirect water discharges upon aquatic communities in the Virgin River, including, but not limited to, the federally-listed woundfin minnow (*Plagopterus argentissimus*) and Virgin River chub (*Gila seminude*).
- Effects of proposed construction, operation, environmental measures, and project-related human disturbance on the available aquatic habitat at project reservoirs and stream crossings.
- Effects of proposed construction, operation, and maintenance upon

invertebrate and amphibian communities.

- Potential for invasive species to affect intake withdrawal.
- Potential for pipeline project construction and operation to introduce invasive species, such as zebra, quagga, and other invasive mollusk species.

#### 4.2.4 Terrestrial Resources

- Effects on native plant communities and alteration in species composition as a result of: removal of vegetation for construction of the pipeline and above-ground facilities, extra work space, pipe storage and contractor yards, and access roads dust and erosion.
- Effects of construction activities on the introduction and spread of invasive and noxious plant species.
- Potential for the reestablishment of native vegetation and wildlife habitat along the right-of-way and disturbed areas.
- Direct and indirect effects on local wildlife populations and habitat as a result of: alteration and loss of habitat; direct mortality from construction activities and equipment; displacement of wildlife species; habitat fragmentation; construction and noise disturbance of wildlife located next to construction areas; blocked migration; and trench entrapment.
- Effects of operation and maintenance activities on wildlife species and habitat.
- Effects on wetland and riparian habitat from direct loss of wetland and riparian vegetation, change in distribution of invasive species, such as tamarisk, and alteration in hydrologic regimes.

#### 4.2.5 Threatened and Endangered Species

- Potential direct and indirect effects of pipeline project construction,



operation, and maintenance on federally listed threatened or endangered species, including the Welsh's milkweed, Brady pincushion cactus, Siler pincushion cactus, Utah prairie dog, Southwestern willow flycatcher, and desert tortoise, and special status species, including Gumbo milk-vetch, bald eagle, burrowing owl, ferruginous hawk, Swainson's hawk, and peregrine falcon.

#### 4.2.6 Recreation

- Effects of pipeline project construction, operation, and maintenance on access to the Glen Canyon National Recreation Area.
- Effects of pipeline project construction, operation, and maintenance on Lake Powell recreation, including visual, noise, and dust nuisances and restricted shoreline access.
- Effects of pipeline project construction, operation, and maintenance on access to existing and future recreational activities within the proposed project area, including dispersed recreation.
- Effects of pipeline project construction, operation, and maintenance on scenic corridors and recreational travelers within the proposed project area.
- Effects of pipeline project construction, operation, and maintenance on the Paria River, which is eligible for designation as a Wild and Scenic River under the Federal Wild and Scenic Rivers Act.
- Recreational effects of increased water levels in Sand Hollow reservoir as a result of the proposed project.
- Effects of proposed project easements and rights-of-way on current and future land uses within the proposed project area.
- Effects of pipeline project construction and disposal of project waste materials on current and future land uses within the proposed project area.

#### 4.2.7 Aesthetics and Noise

- Effects of pipeline project construction, operation, and maintenance on aesthetic resources within the proposed project area.
- Effects of the proposed facilities on the proposed project area's visual setting, including the effects of night security lighting and other visual impacts.
- Effects of noise associated with project construction, operation, and maintenance on visitors to the proposed project area.
- Effects of project operations on wildfire risk and fire management.

#### 4.2.8 Archaeological and Historic Resources

- Effects of construction, operation, and maintenance of the proposed pipeline project on historic, archeological, and traditional cultural resources that may be eligible for inclusion in the National Register of Historic Places.

#### 4.2.9 Socioeconomic Resources

- Potential to accommodate or affect population and economic growth.
- Impacts on local and regional socioeconomic resources from pipeline construction and operation.

#### 4.2.10 Developmental Resources

- Economics of the proposed pipeline project and the effects of any recommended environmental measures on the pipeline project's economics.

### 4.3 Proposed Protection, Mitigation, and Enhancement Measures

After reviewing the studies Utah completes and the recommendations of stakeholders, Utah may propose measures to protect, mitigate, and enhance environmental resources affected by the pipeline project.

## 5.0 REQUEST FOR INFORMATION

We are asking federal, state, and local resource agencies; Indian tribes; nongovernmental organizations; and other entities and individuals to forward to the Commission any information that will help the Commission and other federal agencies do an accurate and thorough analysis of the site-specific and cumulative effects of licensing and issuing permits for construction of the Lake Powell Pipeline Project. Types of information that we seek include, but are not limited to:

- Information, quantified data, or professional opinion that may contribute to refining the geographic scope of the analysis, including the analysis of cumulative effects, and identifying significant environmental issues;
- Identification of, and information from, any other environmental document or similar study (previous, ongoing, or planned) relevant to the proposed licensing of the project;
- Existing information and any data that would help describe the past, present and future actions and the effects of the project and other developmental activities on environmental and socioeconomic resources;
- Information that would help characterize existing environmental conditions and habitats;
- Identification of any federal, state, or local agency or Indian tribe resource plans and future project proposals in the affected resource area, such as proposals to construct or operate water treatment facilities, recreation areas, or water diversions; timber harvest activities; or fish management programs;
- Documentation of cumulative effects of basin-wide activities, including the project's operation, on resources; and

- Documentation that would support a conclusion that the project does or does not contribute to adverse or beneficial effects on resources and should therefore be excluded from further study or included for further consideration of cumulative effects. Documentation should include, but need not be limited to: how the project interacts with other hydropower projects in the area and other developmental and non-developmental activities; results from studies; resource management policies; and reports from federal, state, and local agencies and Indian tribes.

The requested information should be submitted in writing to the Commission no later July 7, 2008. All filings must clearly identify the following on the first page: Lake Powell Hydroelectric System Project No. 12966-002. Address all communications to:

Kimberly D. Bose, Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E., Room 1A  
Washington, DC 20426

All filings sent to the Secretary of the Commission should contain an original and eight copies. The Commission strongly encourages electronic filings. See 18 CFR 85.2001(a)(1)(iii) and the instructions on the Commission's website (<http://www.ferc.gov>) under the "e-filing" link. For assistance, please contact FERC Online Support at [FERCOnlineSupport@ferc.gov](mailto:FERCOnlineSupport@ferc.gov) or toll-free at 1-(866) 208-3676, or for TTY, (202) 502-8659.

Register online at <http://ferc.gov/esubscribenow.htm> to be notified via e-mail of new filing and issuances related to this or other pending projects. For assistance, contact FERC Online Support.

Any questions concerning scoping or preparation of the EIS for this proposed action should be directed to Jim Fargo at (202)502-6095 or [james.fargo@ferc.gov](mailto:james.fargo@ferc.gov).

## 6.0 EIS PREPARATION SCHEDULE

At this time we anticipate the need to prepare an EIS (we show our preliminary Outline in section 7). We will prepare a draft EIS, which will be sent to all persons and entities on the Commission's and any cooperating agencies' service and mailing list for the Lake Powell Pipeline Project. The draft EIS will include recommendations for construction and operating procedures, and environmental protection, mitigation, and enhancement measures that should be part of any license issued by the Commission. Recipients will then have 60 days to provide the Commission with written comments on the draft EIS. All comments on the draft EIS filed with the Commission will be considered in the Commission's decision on the Hydro System license application.

Below is the Process Plan and schedule for pre-application activity:

Responsible Entity	Pre-Filing Milestone	Date	FERC Regulation
Federal staffs	NOI and SD1	5/5/08	5.8
		6/09/08-	
Federal staffs	Scoping and Site Visit	6/12/08	5.8(b)(viii)
All stakeholders	NOI/PAD/SD1 comments due	7/07/08	5.9
Federal staffs	Issue SD2 if needed	8/21/08	5.1
State	File Proposed Study Plan	8/21/08	5.11(a)
All stakeholders	Study Plan Meeting	9/22/08	5.11(e)
All stakeholders	Study Plan Comments due	11/19/08	5.12
State	File Revised Proposed Study Plan	12/19/08	5.13(a)
All stakeholders	Revised Proposed Study Plan Comments due	1/05/09	5.13(b)
Federal staffs	FERC OEP Director's and Federal agencies' Study Plan Determination	2/09/09	5.13(c)

## 7.0 EIS OUTLINE

The preliminary outline for the EIS is as follows:

COVER SHEET  
 FOREWORD  
 TABLE OF CONTENTS  
 LIST OF APPENDICES  
 LIST OF FIGURES  
 LIST OF TABLES  
 ACRONYMS AND ABBREVIATIONS

## EXECUTIVE SUMMARY

### 1. INTRODUCTION

- 1.1. Application
- 1.2. Purpose of Action, Need for Power, Need for Water Supply
- 1.3. Statutory and Regulatory Requirements
  - 1.3.1. Federal Power Act
    - 1.3.1.1. Section 18 Fishway Prescriptions
    - 1.3.1.2. Section 4(e) Conditions
    - 1.3.1.3. Section 10(j) Conditions
  - 1.3.2. Clean Water Act
  - 1.3.3. Endangered Species Act
  - 1.3.4. National Historic Preservation Act
- 1.4. Public Review and Comment
  - 1.4.1. Scoping
  - 1.4.2. Interventions
  - 1.4.3. Comments on the Application
  - 1.4.4. Comments on Draft EIS

### 2. PROPOSED ACTION AND ALTERNATIVES

- 2.1. No-action Alternative
- 2.2. Applicant's Proposal
  - 2.2.1. Proposed Project Facilities
  - 2.2.2. Proposed Project Operation
  - 2.2.3. Proposed Environmental Measures
  - 2.2.4. Modifications to Applicant's Proposal
- 2.3. Federal Staff Alternatives
- 2.4. Other Alternatives (as appropriate)
- 2.5. Alternatives Considered but Eliminated from Detailed Study

### 3. ENVIRONMENTAL ANALYSIS

- 3.1. General Description of the River Basin
- 3.2. Scope of Cumulative Effects Analysis
  - 3.2.1. Geographic Scope
  - 3.2.2. Temporal Scope
- 3.3. Proposed Action and Action Alternatives
  - 3.3.1. Geologic and Soil Resources
  - 3.3.2. Aquatic Resources
  - 3.3.3. Terrestrial Resources
  - 3.3.4. Threatened and Endangered Species
  - 3.3.5. Recreation and Land Use
  - 3.3.6. Cultural Resources
  - 3.3.7. Aesthetic Resources
  - 3.3.8. Socioeconomics
- 3.4. No-action Alternative

### 4. DEVELOPMENTAL ANALYSIS

- 4.1. Power, Water Supply, and Economic Benefits of the Project
- 4.2. Cost of Environmental Measures
- 4.3. Comparison of Alternatives

### 5. CONCLUSIONS AND RECOMMENDATIONS

- 5.1. Comparison of Effects of Proposed Action and Alternatives
  - 5.2. Comprehensive Development and Recommended Alternative
  - 5.3. Unavoidable Adverse Effects
  - 5.4. Recommendations of Fish and Wildlife Agencies
  - 5.5. Consistency with Comprehensive Plans
  6. LITERATURE CITED
  7. LIST OF PREPARERS
  8. LIST OF RECIPIENTS
- APPENDICES

## **8.0 LIST OF COMPREHENSIVE PLANS**

Section 10(a)(2) of the FPA requires us to consider whether or not, and under what conditions, licensing the project would be consistent with relevant comprehensive plans on the Commission's Comprehensive Plan List. The plans that we consider to be relevant to this project are listed below. We ask agencies to review this list and to inform FERC if any changes are needed. If there are plans that should be added to the list, agencies should file the plans according to 18 CFR 2.19

### **Utah**

- Bureau of Land Management. 1990. Proposed Dixie resource management plan/final environmental impact statement. Department of the Interior, Cedar City, Utah. 240 pp. and maps.
- Bureau of Land Management. 1993. Diamond Mountain resource area management plan and environmental impact statement. Department of the Interior, Vernal, Utah. Spring 1993. Two volumes.
- Forest Service. 1986. Ashley National Forest land and resource management plan. Department of Agriculture, Vernal, Utah. October 8, 1986. 170 pp. and appendices.
- Forest Service. 1990. Fishlake National Forest land and resource management plan. Department of Agriculture, Richfield, Utah. 296 pp. and appendices.
- Forest Service. 2003. Wasatch-Cache National Forest land and resource management plan. Department of Agriculture, Salt Lake City, Utah. March 2003.
- Forest Service. Undated. Manti-LaSal National Forest land and resource management plan. Department of Agriculture, Price, Utah. 192 pp. and appendices.
- Forest Service. 2003. Uinta National Forest land and resource management plan. Department of Agriculture, Provo, Utah. May 2003.

Forest Service. Undated. Dixie National Forest land and resource management plan. Department of Agriculture, Cedar City, Utah. 246 pp. and appendices.  
Utah Division of Parks and Recreation. 1987. Statewide Comprehensive Outdoor Recreation Plan (SCORP). Salt Lake City, Utah. December 1987. 435 pp. and appendices.

### **Arizona**

Arizona Outdoor Recreation Coordinating Commission. 1983. Arizona Statewide Comprehensive Outdoor Recreation Plan (SCORP). Phoenix, Arizona. 152 pp.  
Arizona Outdoor Recreation Coordinating Commission. 1983. Arizona Statewide Comprehensive Outdoor Recreation Plan-technical document. Phoenix, Arizona. 120 pp. and appendices.  
Arizona State Parks. 1989. Arizona rivers, streams and wetlands study. Phoenix, Arizona. 244 pp. and appendices.  
Bureau of Land Management. 1991. Final Safford District resource management plan and environmental impact statement. Department of the Interior, Safford, Arizona. August 1991. 504 pp. and map.  
Forest Service. 1985. Tonto National Forest plan. Department of Agriculture, Phoenix, Arizona. October 1985. 253 pp.  
Forest Service. 1987. Coconino National Forest land and resource plan. Department of Agriculture, Flagstaff, Arizona. 228 pp. and appendices.  
U.S. Fish and Wildlife Service. 1978. Unique wildlife ecosystems of Arizona. Department of the Interior, Albuquerque, New Mexico. November 6, 1978.



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