

FEDERAL ENERGY REGULATORY COMMISSION

Washington, DC 20426

September 7, 2012

OFFICE OF ENERGY PROJECTS

Project No. 14110-001 – Washington  
Black Canyon Hydroelectric Project  
Black Canyon Hydro, LLC

**Subject: Scoping Document 2 for Black Canyon Hydroelectric Project, P-14110**

To the Parties Addressed:

The Federal Energy Regulatory Commission (Commission) is conducting National Environmental Policy Act scoping for Black Canyon Hydro, LLC's (Black Canyon) proposed Black Canyon Hydroelectric Project (Black Canyon Project or project) (FERC No. 14110). Black Canyon filed its Pre-Application Document on March 26, 2012, and will use the Commission's Integrated Licensing Process to develop its license application and prepare the environmental record needed by the Commission. The Black Canyon Project would be located on the North Fork Snoqualmie River, approximately 4 miles northeast of North Bend in King County, Washington. The project would be located on private and state lands.

Pursuant to the National Environmental Policy Act of 1969, as amended, Commission staff intends to prepare an environmental assessment (EA), which will be used by the Commission to determine whether, and under what conditions, to issue a license for the project. This scoping process will support the preparation of the EA, ensure that all pertinent issues are identified and analyzed, and that the environmental review is thorough and balanced.

In our May 25, 2012, Scoping Document 1 (SD1), we disclosed our preliminary view of the scope of environmental issues associated with the Black Canyon Project. Based on verbal comments that we received at the scoping meetings held on June 19, 2012, in North Bend, Washington, and written comments we received throughout the scoping process, we prepared the enclosed Scoping Document 2 (SD2). SD2 serves as a guide to the issues and alternatives to be addressed in the EA. ***Key changes from SD1 to SD2 are identified in bold and italicized type.***

SD2 is being distributed to the Commission's official mailing list (see section 9.0). SD2 is also available from our Public Reference Room by calling (202) 502-8371 and can be accessed online at <http://elibrary.ferc.gov/idmws/search/fercgensearch.asp>.

If you have any questions about SD2, the scoping process, or how Commission staff will develop the EA for this project, please contact Brandon Cherry at (202) 502-8328 or [brandon.cherry@ferc.gov](mailto:brandon.cherry@ferc.gov). Additional information about the Commission's licensing process may be obtained from our website at <http://www.ferc.gov>.

Enclosure: Scoping Document 2

cc: Mailing List  
Public Files

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SCOPING DOCUMENT 2  
BLACK CANYON HYDROELECTRIC PROJECT

WASHINGTON

PROJECT NO. 14110-001

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

September 2012

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## SCOPING DOCUMENT 2

### Black Canyon Hydroelectric Project No. 14110-001

#### 1.0 INTRODUCTION

The Federal Energy Regulatory Commission (Commission or FERC), under the authority of the Federal Power Act (FPA),<sup>1</sup> may issue licenses for terms ranging from 30 to 50 years for the construction, operation, and maintenance of non-federal hydroelectric projects. On March 26, 2012, Black Canyon Hydro, LLC (Black Canyon) filed a Pre-Application Document (PAD), and on March 27, 2012, Black Canyon filed a Notice of Intent (NOI) to seek an original license for the construction and operation of the Black Canyon Hydroelectric Project (Black Canyon Project or project) (FERC Project No. 14110). Black Canyon will use the Commission's Integrated Licensing Process (ILP) to develop its license application.

The Black Canyon Project would be located on the North Fork Snoqualmie River, approximately 4 miles northeast of North Bend in King County, Washington (figure 1). The project would consist of a new 7-foot-high, 156-foot-long dam with a fish ladder and an intake structure. Water would be diverted through a new buried penstock that bypasses a 2.6-mile-long section of the North Fork Snoqualmie River. The project would have a total installed capacity of 25 megawatts (MW) and an estimated average annual generation of 104,720 megawatt-hours. A detailed description of the project is provided in section 3.0.

The National Environmental Policy Act (NEPA) of 1969<sup>2</sup>, the Commission's regulations, and other applicable laws require that we independently evaluate the environmental effects of the proposed project and reasonable alternatives. At this time, we intend to prepare an environmental assessment (EA) that describes and evaluates the probable effects, including an assessment of the site-specific and cumulative effects, if any, of the proposed action and alternatives. The EA preparation will be supported

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<sup>1</sup> 16 U.S.C. § 791(a)-825(r).

<sup>2</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).



Figure 1. Proposed project location in the Upper Snoqualmie River Basin (Source: staff).

this scoping process to ensure identification and analysis of all pertinent issues. Although our current intent is to prepare a draft and final EA, there is a possibility that an environmental impact statement (EIS) will be required. The scoping process will satisfy NEPA scoping requirements, irrespective of whether the Commission issues an EA or EIS.

## **2.0 SCOPING**

This Scoping Document 2 (SD2) is intended to advise all participants as to the proposed scope of the EA based on the verbal and written comments received during the scoping period. This document contains: (1) a description of the scoping process; (2) a description of the proposed action and alternatives; (3) a preliminary identification of environmental issues and proposed studies; (4) a proposed EA outline; and (5) a preliminary list of comprehensive plans that are applicable to the proposed project.

### **2.1 Purposes of Scoping**

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

- invite participation of federal, state and local resource agencies, Indian tribes, non-governmental organizations (NGOs), and the public to identify significant environmental and socioeconomic issues related to the proposed project;
- determine the resource issues, depth of analysis, and significance of issues to be addressed in the EA;
- identify how the project would or would not contribute to cumulative effects in the project area;
- identify reasonable alternatives to the proposed action that should be evaluated in the EA;
- solicit, from participants, available information on the resources at issue, including existing information and study needs; and
- determine the resource areas and potential issues that do not require detailed analysis during review of the project.



## 2.2 Scoping Comments

The Commission issued Scoping Document 1 (SD1) on May 25, 2012, to enable resource agencies, Indian tribes, NGOs, and the public to more effectively participate in and contribute to the scoping process. In SD1, we requested clarification of preliminary issues concerning the proposed project and identification of any new issues that need to be addressed in the EA. We revised SD1 following the scoping meetings and after reviewing comments filed during the scoping comment period. SD2 presents our current view of issues to be considered in the EA. ***Key changes from SD1 to SD2 are identified in bold and italicized type.***

The Commission conducted two scoping meetings for the Black Canyon Project on June 19, 2012, in North Bend, Washington. Based on sign-in sheets, at least 28 individuals attended the daytime meeting, and at least 20 individuals attended the evening meeting. A court reporter recorded the scoping meetings.

In addition to the comments received at the scoping meetings, the Commission received 144 comment letters from resource agencies, NGOs, Indian tribes, and the public (Appendix B). All comments received are part of the Commission's official record for the project. Information in the official file is available for inspection and reproduction at the Commission's Public Reference Room, located at 888 First Street, NE, Room 2A, Washington, DC 20426, or by calling (202) 502-8371. Information also may be accessed through the Commission's eLibrary system using the "Documents & Filings" link on the Commission's webpage at <http://www.ferc.gov>. Call (202) 502-6652 for assistance.

A large number of the comments identified concerns about potential project effects on: the aesthetics of the river and river corridor; fish and wildlife; recreation, including whitewater boating, fishing, and hiking; and geology, soils, and riparian habitat. All of these comments fall within the scope of issues identified in SD1 and will be addressed as part of the environmental analysis of the proposed project; therefore, no modifications to the scoping document were necessary. However, several issues were raised that were not identified in SD1 and we have modified SD2 accordingly. Below we summarize other comments and provide responses by subject area.

### **Licensing Process**

***Comment: Commenters stated that the Commission should not be considering the proposed project or application and the Commission should deny any proposal studying or investigating hydropower development at this site.***

***Response: No license application for the Black Canyon Project is currently pending before the Commission. On March 26-27, 2012, Black Canyon filed an NOI and PAD initiating the preparation of a license application (i.e., the pre-filing period) using the Commission's ILP. The ILP pre-filing period is designed to identify and study pertinent resource issues and collect the information necessary to prepare a final license application. Once this information is gathered, Black Canyon will prepare a final license application and file it with the Commission. The Commission will use the information in the application to evaluate the environmental effects of the proposed project and reasonable alternatives in compliance with NEPA and other laws and make an informed decision on whether or not to issue a license for the proposed project.***

***Comment: Commenters questioned why the Commission would propose this hydroelectric project.***

***Response: The Black Canyon Project is proposed by Black Canyon Hydro, LLC, not the Commission. If Black Canyon Hydro, LLC ultimately files an application to license the Black Canyon Project with the Commission, the Commission will need to review the application and make a decision on whether or not to issue a license for the proposed project. Under the FPA, the Commission has the authority to issue licenses for the construction, operation, and maintenance of non-federal hydroelectric projects within its jurisdiction.***

***Comment: Many commenters stated that the proposed project would be located on a section of the North Fork Snoqualmie River that was found both to be eligible and suitable for Wild and Scenic River designation.***

***Response: Section 7(a) of the Wild and Scenic Rivers Act bars the Commission from issuing a license for a project on or affecting a river designated as a component of the Wild and Scenic Rivers system.<sup>3</sup> The section of the North Fork Snoqualmie River where the proposed project would be located is not currently designated as a Wild and Scenic River or a study river.***

***Comment: Many commenters stated that the proposed project is inconsistent with the King County Code Shoreline Master Plan, zoning regulations, and the King County Comprehensive Plan. Commenters also stated that the proposed project is inconsistent with a King County conservation easement. King County stated that they hold a conservation easement on two parcels of land identified by Black Canyon as potential locations for proposed project facilities. The conservation easement states that hydroelectric project development on these parcels of land should be limited to an***

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<sup>3</sup> 16 U.S.C. § 1278(a) (2006).

*installed capacity of 12 MW.*

*Response: The proposed project design is not final at this time, and it is possible that information gathered during the pre-filing period will be used to make changes to the project proposal and design that will avoid any apparent conflicts with existing local plans, regulations, or easements. Licensees are required to obtain all necessary rights to construct and operate a project within five years of licensing; therefore, if the Black Canyon Project is licensed, Black Canyon would have 5 years to obtain all necessary rights, including resolving any conflicts that would limit Black Canyon's ability to construct and operate the project as directed by the Commission.*

### *Comprehensive Plans*

*Comment: Many commenters stated that the proposed project is inconsistent with federal and state comprehensive plans, including, but not limited to, the Mt. Baker/Snoqualmie National Forest Land and Resources Management Plan (1990), National Park Service Nationwide Rivers Inventory (June 1982), Northwest Power and Conservation Council Protected Areas Amendments and Response to Comments (September 14, 1988), and the Northwest Power and Conservation Council Sixth Northwest Conservation and Electric Power Plan (February 2010). Commenters stated that the Commission should evaluate the proposed project's consistency with state and federal comprehensive plans earlier in the licensing process in order to more effectively evaluate the project and avoid any unnecessary burden and expense on all parties involved in the pre-filing process.*

*Response: In determining whether the proposed project is best adapted to a comprehensive plan under section 10(a)(1) of the FPA for improving or developing a waterway, the Commission will consider (under section 10(a)(2)(A) of the FPA) the extent to which the project is consistent with relevant comprehensive plans for improving, developing, or conserving a waterway affected by the project that is prepared by a federal or state agency authorized to conduct such planning pursuant to federal or state law. Comprehensive plans are but one consideration in the Commission's determination under FPA section 10(a)(1) of the project best adapted to a comprehensive plan for the development of a waterway for beneficial public purposes. Because the applicant's proposal is not fully developed and finalized, and the information that will be gathered through the pre-filing period is not currently available, an informed decision on the project under FPA section 10(a)(1) cannot be made at this time. As indicated in section 8.0 of this scoping document, the Commission will review relevant comprehensive plans and include a discussion of the proposed project's consistency or inconsistency with the plans as part of our environmental analysis. If there are major project-plan conflicts that cannot be resolved with mitigation, the Commission may recommend an alternative project*

*design or license denial.*

***Comment:*** Many commenters stated that the proposed project's bypassed reach is located on a section of the North Fork Snoqualmie River that flows through the Mt. Si Natural Resources Conservation Area (NRCA). Commenters stated that the proposed project is inconsistent with the conservation goals and purpose of the Mt. Si NRCA. In addition, the Washington State Department of Natural Resources requested that the Commission analyze the project for consistency with the Mt. Si NRCA Management Plan (June 1997), Mt. Si NRCA Public Use Plan (June 1997), State of Washington Natural Resources Conservation Areas Statement Management Plan (September 1992), and Priority Marine Sites for Conservation in the Puget Sound (June 2006).

***Response:*** The proposed project's impact on resources in the Mt. Si NRCA and associated environmental measures will be analyzed in the Commission's environmental review. The corresponding plans identified by the Washington State Department of Natural Resources are not filed with the Commission as state comprehensive plans under section 10(a)(2)(A) of the FPA. The Commission will accord FPA section 10(a)(2)(A) comprehensive plan status to any federal or state plan that is filed under section 2.19 of the Commission's regulations. Additional information on filing comprehensive plans can be found at <http://www.ferc.gov/industries/hydropower/gen-info/licensing/complan.pdf>.

### Studies

***Comment:*** Commenters stated that the proposed studies in the PAD are vague and inadequate.

***Response:*** The Commission encourages project developers to strive to provide as much detail as possible on proposed studies in the PAD. However, regardless of the level of detail provided in the PAD, the ILP is designed to ensure that the information needs are identified and any necessary studies are designed and conducted before a license application is filed. This pre-filing period includes development of a detailed Commission-approved study plan that is developed in consultation with state and federal agencies, Indian tribes, NGOs, and the public.

### Need for Power and Alternatives

***Comment:*** Many commenters stated that the proposed project power is not needed or would provide a small portion of the regional power need. Other commenters stated that other forms of renewable generation and energy efficiency and conservation would be better alternatives than the proposed project.

***Response: The Commission's environmental review will evaluate the regional need for power using the most recent projections and consider and evaluate reasonable alternatives to the proposed project, including a no-action alternative. The FPA requires that the Commission consider non-developmental values of the project, as well as power and developmental values in our licensing decision. Specifically, section 4(e) of the FPA requires that the Commission give equal consideration to the purposes of energy conservation, the protection, mitigation of damage to, and enhancement of, fish and wildlife (including related spawning grounds and habitat), the protection of recreational opportunities, and the preservation of environmental quality. These factors will also be considered in any evaluation of alternatives.***

### **Developmental Analysis**

***Comment: Susan Wilkins asked if there is anything that can prevent Black Canyon from declaring bankruptcy and walking away from the project after construction. Lora Cox asked if the Commission has any mandate to require the builder of a new dam to set aside a trust fund for decommissioning.***

***Response: A licensee is required to operate and maintain its project through the term of the issued license according to the terms of the license. The Commission does not generically impose decommissioning funding requirements on licensees. However, in certain situations, where supported by the record, the Commission may impose license conditions to ensure that funds are available for decommissioning.***

***Comment: American Whitewater requested that existing conservation measures (e.g., comprehensive plans) be considered in the Commission's review of the proposed project's economics.***

***Response: The Commission will review comprehensive plans and include a discussion of the proposed project's consistency or inconsistency with the plans in our environmental analysis. The Commission will also evaluate environmental measures to reduce a proposed project's conflict with the goals of these comprehensive plans. The estimated costs of any recommended environmental measures will be included in the evaluation of project economics.***

### **Public Safety**

***Comment: Commenters expressed concern about flooding as a result of dam breach or failure.***

***Response: Public safety at licensed projects is of the utmost importance to the***

*Commission. The Commission's regulations require that Black Canyon file a supporting design report with its final license application that demonstrates that proposed structures are safe and adequate to fulfill their stated functions.<sup>4</sup> A comprehensive review will be undertaken of all loading conditions by an independent consultant hired by the applicant and will be overseen by the Commission's Division of Dam Safety and Inspections. The review will ensure the proposed dam is designed to safely pass all credible loading conditions. In addition to the Commission's review of the project's design, an independent Board of Consultants will be required to perform a peer review. The Board of Consultants will be composed of experts in dam design and construction and they will review the dam design as well as the plans and specifications for construction of the dam. If a license is issued for the project, the Commission will not allow Black Canyon to start construction until it is satisfied that the dam meets our Engineering Guidelines.*

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

In accordance with NEPA, the environmental analysis will consider the following alternatives, at a minimum: (1) the no-action alternative, (2) Black Canyon's proposed action, and (3) alternatives to the proposed action that may be identified.

#### **3.1 No-Action Alternative**

The no-action alternative is license denial. Under the no-action alternative, the project would not be built and environmental resources in the project area would not be affected.

#### **3.2 Black Canyon's Proposed Action**

##### **3.2.1 Proposed Project Facilities and Operations**

The Black Canyon Project would be located on private and state lands and would consist of the following new facilities: (1) a 7-foot-high, 156-foot-long dam with a fish ladder and an intake structure equipped with coanda screens;<sup>5</sup> (2) a 4.2-acre impoundment with a normal water surface elevation of 958 feet above mean sea level; (3) an 8,175-foot-long buried penstock that includes a 6,990-foot-long, 14-foot-diameter section that

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<sup>4</sup> See 18 C.F.R. §4.41(g)(3) (2012).

<sup>5</sup> Coanda screens are angled wedge-wire screens installed to prevent fish and debris from entering the project intake structure. In the June 19, 2012, agency scoping meeting, Black Canyon stated that, based on feedback from the agencies, this is still an emerging technology and other design alternatives may be considered.

connects the intake structure to a 1,185-foot-long, 17-foot-diameter section that connects to; (4) a 60-foot-long, 100-foot-wide powerhouse containing two Francis turbine generating units, one 16.5-MW unit and one 8.5-MW unit, for a total installed capacity of 25 MW; (5) a 150-foot-long, 40-foot-wide tailrace; (6) a 4.2-mile-long, 115-kilovolt overhead transmission line that transmits project power to the regional grid;<sup>6</sup> (7) a 0.75-mile-long and a 0.5-mile-long extension of two existing logging roads that lead to the project facilities; and (8) appurtenant facilities (figure 2). The project would have an estimated average annual generation of 104,720 megawatt-hours.

The project would operate in a run-of-river mode. The combined maximum hydraulic capacity of the two project turbines would be 900 cubic feet per second (cfs). The project would bypass a 2.6-mile-long section of the North Fork Snoqualmie River. No minimum flow release to the bypassed reach is proposed.

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<sup>6</sup> In the June 19, 2012, virtual site review meeting, Black Canyon stated that it is considering burying the proposed transmission line.



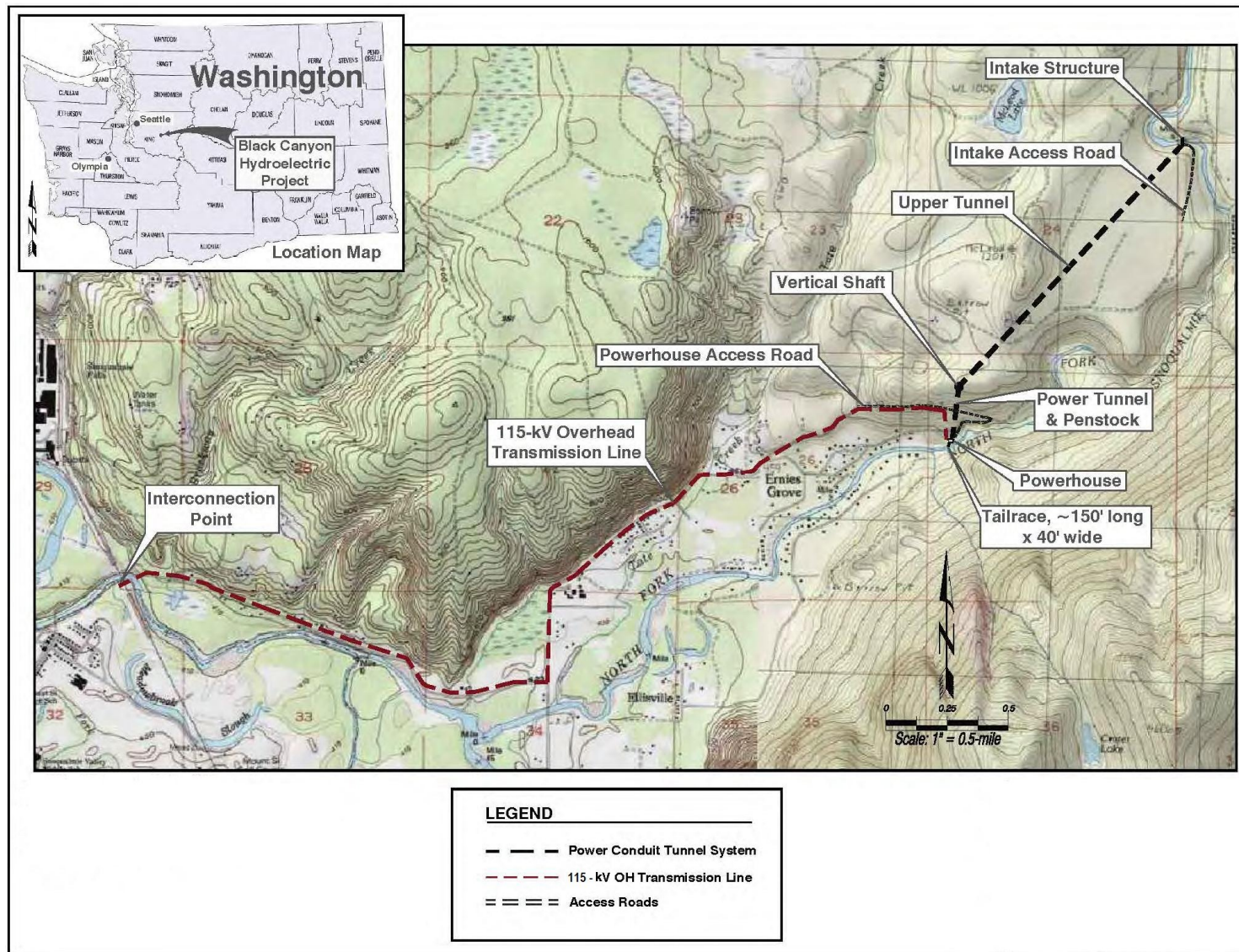


Figure 2. Proposed project site plan (Source: Black Canyon Project PAD, as modified by staff).



### **3.2.2 Proposed Environmental Measures**

In section 5.0 of the PAD, Black Canyon proposes the following environmental measures to protect and enhance environmental resources in the project area.

#### **Geologic and Soil Resources**

- Develop an erosion and sediment control plan that would include best management practices described in the King County Construction Stormwater Manual.
- Stockpile excavated soil from construction in designated areas with suitable drainage, erosion, and sediment control measures.
- Limit clearing and construction activities to the minimum area required to reduce soil erosion.
- Install debris barriers, silt fences, and sediment traps to prevent fine sediment from entering waterways during project construction.
- Employ standard methods for road construction, drainage, and maintenance.

#### **Aquatic Resources**

- Construct and operate a ladder for upstream fish passage.
- Install coanda screens on the intake structure to prevent fish entrainment.

#### **Terrestrial Resources**

- Revegetate disturbed areas as soon as possible to prevent erosion and reestablish vegetation and habitat.

#### **Threatened and Endangered Species**

- None.

#### **Recreation and Land Use**

- Schedule construction and maintenance activities to avoid effects on recreational access and use.

### **Aesthetic Resources**

- Design the project to minimize visual impacts to the extent practical.
- Schedule construction activities to minimize vehicular traffic through residential areas.

### **Cultural Resources**

- Develop and implement a Historic Properties Management Plan (HPMP) in accordance with Section 106 of the National Historic Preservation Act. The HPMP would address protection of known cultural resources in the project area and establish procedures for management of resources identified during project construction and future ground-disturbing activities.
- Develop and implement an Unanticipated Discovery Plan that would include detailed procedures for addressing the unanticipated discovery of human remains or archaeological resources during construction and operation of the project.

## **3.3 Alternatives to 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, other agencies, Indian tribes, NGOs, and the public.

## **4.0 SCOPE OF CUMULATIVE EFFECTS AND SITE-SPECIFIC RESOURCE ISSUES**

### **4.1 Cumulative Effects**

According to the Council on Environmental Quality's regulations for implementing NEPA (50 C.F.R. 1508.7), a cumulative effect is the effect on the environment that results from the incremental effect of the action when added to other past, present, and reasonably foreseeable future actions, regardless of what agency (federal or non-federal) or person undertakes such other actions. Cumulative effects can result from individually

minor but collectively significant actions taking place over a period of time, including hydropower and other land and water development activities.

#### **4.1.1 Resources that Could be Cumulatively Affected**

Based on information in the PAD, preliminary staff analysis, and comments received, we have identified water quality *and resident fisheries as resources* that could be cumulatively affected by the proposed project.

#### **4.1.2 Geographic Scope**

At this time, we have tentatively identified the *Upper* Snoqualmie River Basin as our geographic scope of analysis for cumulatively affected water quality *and resident fisheries* resources. Activities within this basin that may cumulatively affect water quality *and resident fisheries* include: (1) construction and operation of dams; (2) logging, road-building, and other development activities; and (3) consumptive and non-consumptive uses of surface water.

#### **4.1.3 Temporal Scope**

The temporal scope of our cumulative effects analysis in the EA will include a discussion of past, present, and reasonably foreseeable future actions and their effects on each resource that could be cumulatively affected. Based on the potential term of a license, the temporal scope will look 30 to 50 years into the future, concentrating on the effect on the resources from reasonably foreseeable future actions. The historical discussion will, by necessity, be limited to the amount of available information for each resource. The quality and quantity of information, however, diminishes as we analyze resources further away in time from the present.

### **4.2 Resource Issues**

In this section, we present a preliminary list of environmental issues to be addressed in the EA. We have identified these issues, which are listed by resource area, by reviewing information in the PAD and comments received. This list is not intended to be exhaustive or final, but contains those issues raised to date that could have substantial effects. After the scoping process is complete, we will review the list and determine the appropriate level of analysis needed to address each issue in the EA. Those issues identified by an asterisk (\*) will be analyzed for both cumulative and site-specific effects.

#### **4.2.1 Geologic and Soil Resources**

- Effects of project construction and operation on the permeability of rock material and joint fractures along the buried penstock route.
- Effects of construction *and maintenance* of the proposed project dam, intake structure, penstock, powerhouse, tailrace, and transmission line on slope stability, soil erosion, *and debris removal and disposal*.
- Effects of project construction and operation on *erosion and* sedimentation in the *proposed 2.6-mile-long bypassed reach and the* North Fork Snoqualmie River.

#### 4.2.2 Aquatic Resources

- Effects of impingement and entrainment at the proposed project intake on the resident fish community.\*
- Effects of the proposed project dam on upstream fish movements and access to habitat.\*
- Effects of *changes in the magnitude, frequency, duration, timing, and rate of change of* flows in the proposed 2.6-mile-long bypassed reach on aquatic habitat *for fish and macroinvertebrates (e.g., molluscs)*.\*
- Effects of the proposed 4.2-acre impoundment and tailrace on aquatic habitat *for fish and macroinvertebrates (e.g., molluscs)*.\*
- *Effects of changes in sediment and woody debris transport in the North Fork Snoqualmie River on the resident fish community*.\*
- Effects of project construction and operation on water temperature, dissolved oxygen, turbidity, and sedimentation in the North Fork Snoqualmie River.\*
- Effects of project construction and operation on the water quality of the North Fork Snoqualmie River from inadvertent spills of hazardous materials (e.g., gasoline, oil, concrete).\*
- Effects of project operation on streamflow downstream of the powerhouse.
- Effects of project construction and operation on the distribution and

availability of surface water.

- *Effects of project construction and operation on the distribution and availability of groundwater in existing aquifers and springs in the project vicinity.*

#### 4.2.3 Terrestrial Resources

- Effects of constructing the road extensions and transmission line and burying the penstock on vegetation, *resident and migratory birds*, and *other* wildlife.
- Effects of constructing the proposed project dam, intake structure, and powerhouse on vegetation, *wetlands*, and wildlife habitat.
- *Effects of noise and human disturbance from project construction and operation (e.g., presence of the construction and/or operation workforce) on wildlife, including peregrine falcons during nesting season.*
- Effects of the proposed impoundment and *changes in the magnitude, frequency, duration, timing, and rate of change of* flows in the *2.6-mile-long* bypassed reach on riparian vegetation *and wetlands*.
- Effects of boat portaging around the proposed project dam on vegetation and wildlife habitat.

#### 4.2.4 Threatened and Endangered Species

- *Effects of project construction and operation on federally listed threatened and endangered species (if present in the project vicinity) and their habitats.*

#### 4.2.5 Recreation and Land Use

- Effects of the proposed project dam and *changes in the magnitude, frequency, duration, timing, and rate of change of* flows in the proposed 2.6-mile-long bypassed reach on whitewater boating (*e.g., access, quality of experience, displacement of users*) in Ernie's Gorge and the North Fork Snoqualmie River.

- Effects of project construction and operation on hiking, primitive camping, and fishing (*e.g., access, quality of experience, displacement of users*) in the project vicinity *and downstream of the project*.
- *Effects of access road extensions and other changes in land use and ownership on public access and recreation (e.g., increased use, illegal trespassing, and vandalism) in the project vicinity.*
- *Effects of project construction and operation on recreation-related spending in the project vicinity.*

#### 4.2.6 Aesthetic Resources

- Effects of project construction, including the transmission line *and other proposed project facilities*, on visual resources in the project vicinity.
- Effects of noise from project construction and operation (*e.g., presence of the construction workforce, blasting, traffic and construction equipment, turbine generator noise*) on *residents and recreational users* in the project vicinity.
- *Effects of project construction and operation on the natural character of the North Fork Snoqualmie River (e.g., color and appearance of flowing flatwater and falls) and riparian areas.*

#### 4.2.7 Cultural Resources

- Effects of project construction and operation on *paleontological resources and* potential historic properties included in, or eligible for inclusion in, the National Register of Historic Places.
- Effects of project construction, operation, *and maintenance activities (e.g., noise and access)* on cultural resources of the Snoqualmie Tribe and Tulalip Tribes.

#### 4.2.8 Developmental Resources

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

## **5.0 PROPOSED STUDIES**

Depending upon the findings of studies completed by Black Canyon and the recommendations of the consulted entities, Black Canyon will consider, and may propose certain other measures to enhance environmental resources affected by the project as part of its proposed action. Black Canyon's initial study proposals were identified in the PAD. Updated study proposals will be filed with the Commission in Black Canyon's Proposed Study Plan, due on September 7, 2012.

## **6.0 EA PREPARATION SCHEDULE**

At this time, we anticipate the need to prepare a draft and final EA. The draft EA will be sent to all persons and entities on the Commission's service and mailing lists for the Black Canyon Project. Recipients will then have 30 to 60 days to provide the Commission with written comments on the draft EA. The EA will include staff recommendations for operating procedures and environmental measures for inclusion in any license issued by the Commission. All comments on the draft EA filed with the Commission will be considered in preparation of the final EA. A schedule for preparing the EA will be issued once the final application is filed. A complete list of pre-filing milestones is available in Appendix A.

## **7.0 PROPOSED EA OUTLINE**

The preliminary outline for the Black Canyon Project EA is as follows:

TABLE OF CONTENTS  
 LIST OF FIGURES  
 LIST OF TABLES  
 ACRONYMS AND ABBREVIATIONS  
 EXECUTIVE SUMMARY

### **1.0 INTRODUCTION**

- 1.1 Application
- 1.2 Purpose of Action and Need for Power
- 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) Recommendations
  - 1.3.2 Clean Water Act
  - 1.3.3 Endangered Species Act

- 1.3.4 Coastal Zone Management Act
- 1.3.5 National Historic Preservation Act
- 1.3.6 Wild and Scenic Rivers Act
- 1.3.7 Magnuson-Stevens Fishery Conservation and Management Act
- Other statutes as applicable

#### 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 the Draft EA

### 2.0 PROPOSED ACTION AND ALTERNATIVES

- 2.1 No-action Alternative
- 2.2 Applicant's Proposed Action
  - 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—Mandatory Conditions
- 2.3 Staff Alternative
- 2.4 Staff Alternative with Mandatory Conditions
- 2.5 Other Alternatives (as appropriate)
- 2.6 Alternatives Considered but Eliminated from Detailed Analysis

### 3.0 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

### 4.0 DEVELOPMENTAL ANALYSIS

- 4.1 Power and Economic Benefits of the Project



- 4.2 Comparison of Alternatives
- 4.3 Cost of Environmental Measures

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

- 5.1 Comparison of 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

## 6.0 FINDING OF NO SIGNIFICANT IMPACT (OR SIGNIFICANT IMPACT)

## 7.0 LITERATURE CITED

## 8.0 LIST OF PREPARERS

### APPENDICES

- A--License Conditions Recommended by Staff
- B--Response to Comments on the Draft EA
- C--Mandatory Conditions from Agencies

## **8.0 COMPREHENSIVE PLANS**

Section 10(a)(2) of the FPA, 16 U.S.C. section 803(a)(2)(A), requires the Commission to consider the extent to which a project is consistent with federal and state comprehensive plans for improving, developing, or conserving a waterway or waterways affected by a project. The staff has preliminarily identified and reviewed the plans listed below that may be relevant to the Black Canyon Project. Agencies are requested to review this list and inform the Commission staff of any changes. If there are other comprehensive plans that should be considered for this list that are not on file with the Commission, or if there are more recent versions of the plans already listed, they can be filed for consideration with the Commission according to 18 CFR 2.19 of the Commission's regulations. Please follow the instructions for filing a plan at <http://www.ferc.gov/industries/hydropower/gen-info/licensing/complan.pdf>.

The following is a list of comprehensive plans currently on file with the Commission that may be relevant to the Black Canyon Project.

Forest Service. 1990. Mt. Baker-Snoqualmie National Forest land and resource management plan. Department of Agriculture, Seattle, Washington. June 1990.

Interagency Committee for Outdoor Recreation. Washington State Comprehensive Outdoor Recreation Planning Document (SCORP): 2002-2007. Olympia, Washington. October 2002.

Interagency Committee for Outdoor Recreation. 1991. Washington State trails plan: policy and action document. Tumwater, Washington. June 1991.

National Park Service. The Nationwide Rivers Inventory. Department of the Interior, Washington, D.C. 1993.

Northwest Power and Conservation Council. 2010. The Sixth Northwest conservation and electric power plan. Portland, Oregon. Council Document 2010-09. February 2010.

Northwest Power and Conservation Council. 1988. Protected areas amendments and response to comments. Portland, Oregon. Council Document 88-22 (September 14, 1988).

State of Washington. 1977. Statute establishing the State scenic river system, Chapter 79.72 RCW. Olympia, Washington.

U.S. Fish and Wildlife Service. Canadian Wildlife Service. 1986. North American waterfowl management plan. Department of the Interior. Environment Canada. May 1986.

U.S. Fish and Wildlife Service. Undated. Fisheries USA: the recreational fisheries policy of the U.S. Fish and Wildlife Service. Washington, D.C.

Washington Department of Ecology. 1979. Snohomish River Basin instream resources protection program. Olympia, Washington. August 28, 1979.

Washington Department of Ecology. 1994. State wetlands integration strategy. Olympia, Washington. December 1994. 80 pp.

Washington Department of Ecology. 1986. Application of shoreline management to hydroelectric developments. Olympia, Washington. September 1986.

Washington Department of Fisheries. Point No Point Treaty Council. U.S. Fish and Wildlife Service. Settlement agreement pursuant to the July 2, 1986, Order of the U.S. District Court for the Western District of Washington in Case No. 9213.

Washington Department of Fisheries. 1987. Hydroelectric project assessment guidelines. Olympia, Washington. 91 pp.

Washington Department of Game. 1987. Strategies for Washington's wildlife. Olympia, Washington. May 1987.

Washington Department of Natural Resources. 1987. State of Washington natural heritage plan. Olympia, Washington. 108 pp.

Washington Department of Natural Resources. 1997. Final habitat conservation plan. Olympia, Washington. September 1997.

Washington State Energy Office. 1992. Washington State hydropower development/resource protection plan. Olympia, Washington. December 1992. 34 pp.

Washington State Parks and Recreation Commission. 1988. Washington State scenic river assessment. Olympia, Washington. September 1988. 70 pp.

Washington State Parks and Recreation Commission. 1988. Scenic rivers program – report. Olympia, Washington. January 29, 1988. 8 pp.

## **9.0 MAILING LIST**

The list below is the Commission's official mailing list for the Black Canyon Project (FERC No. 14110). If you want to receive future mailings for the Black Canyon Project and are not included in the list below, please send your request by email to [efiling@ferc.gov](mailto:efiling@ferc.gov) or by mail to: Kimberly D. Bose, Secretary, Federal Energy Regulatory Commission, 888 First Street, NE, Room 1A, Washington, DC 20426. All written and emailed requests to be added to the mailing list must clearly identify the following on the first page: Black Canyon Hydroelectric Project No. 14110-001. You may use the same method if requesting removal from the mailing list below.

Register online at <http://www.ferc.gov/esubscribenow.htm> to be notified via email of new filings and issuances related to this or other pending projects. 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.

### **Mailing List**

<p>Isabel Tinoco Muckleshoot Indian Tribe 39015 172nd Ave. SE Auburn, WA 98092-9763</p>	<p>Snoqualmie Indian Tribe P.O. Box 969 8130 Railroad Ave. SE Snoqualmie, WA 98065</p>
<p>City of Snoqualmie P.O. Box 987 Snoqualmie, WA 98065</p>	<p>THR, LLC 114 Alaskan Way Suite 120 Seattle, WA 98104</p>
<p>Hancock Forest Management 17700 Mill Plain Blvd., Suite 180 Vancouver, WA 98683</p>	<p>NOD Enterprises, LLC P.O. Box 228 Woodinville, WA 98072</p>
<p>George F. Marshall 44937 SE 70th Street Snoqualmie, WA 98065</p>	<p>Rosella M. Banovetz 44940 SE 70th Street Snoqualmie, WA 98066</p>
<p>Lawrence and Maria Hassard 44912 SE 70th Street Snoqualmie, WA 98065</p>	<p>John and Anita Wambaugh 44728 SE 70th Street Snoqualmie, WA 98065</p>
<p>City of North Bend 211 Main Avenue N. North Bend, WA 98045</p>	<p>Marjorie R. Kinch 3510 NW Mink Place Corvallis, OR 97330</p>
<p>Thomas O'Keefe American Whitewater 3537 NE 87th Street Seattle, WA 98115</p>	<p>Matthew Baerwalde Water Quality Manager Snoqualmie Tribe Snoqualmie Tribe ENR Dept. P.O. Box 969 Snoqualmie, WA 98065</p>
<p>Andrea Rodgers Harris In-House Legal Counsel Snoqualmie Tribe P.O. Box 969 Snoqualmie, WA 98065-0969</p>	<p>Brett Swift American Rivers 320 SW Stark Street, Suite 412 Portland, OR 97204</p>
<p>Marc Bardsley North Cascades Conservation Council P.O. Box 9580 Seattle, WA 98145-2980</p>	<p>Richard Bowers Hydropower Reform Coalition 830 Reveille Street Bellingham, WA 98229</p>

Rick McGuire Alpine Lakes Protection Society 705 Second Avenue, Suite 203 Seattle, WA 98104	Bonneville Power Association P.O. Box 3621 Portland, OR 97208-3621
Columbia River Gorge Commission P.O. Box 730 White Salmon, WA 98672-0730	Craig Hansen U.S. Fish & Wildlife Service, Region 1 510 Desmond Drive SE Lacey, WA 98503
Julie Stangell Senior Forester Hancock Forest Management 31716 Camp 1 Rd. Orting, WA 98360	Joseph Rochelle King County Prosecuting Attorney 516 Third Avenue W400 Seattle, WA 98110
Julia Marshall 1009 Vista Way Edmonds, WA 98020-2969	Jim F. Simon 9033 381 <sup>st</sup> Avenue SE Snoqualmie, WA 98065
Susan Wilkins 18024 NE 99 <sup>th</sup> Court Redmond, WA 98052	John Starbard King County DDES Director 900 Oakesdale Avenue SW Renton, WA 98057
Christie True King County 201 S. Jackson Street, Suite 700 Seattle, WA 98104	Mark Isaacson King County Division Director 201 S. Jackson Street, Suite 600 Seattle, WA 98104
Susan Rosebrough National Park Service 909 First Avenue, 5th Floor Seattle, WA 98104	Ronald Garrow City of North Bend P.O. Box 896 North Bend, WA 98045
Karen Gustin Olympic National Park 600 East Park Avenue Port Angeles, WA 98362	Patrick Anderson PO Box 987 Snoqualmie, WA 98065-0924
Donald E. Kempf Stillaguamish Tribe of Washington P.O. Box 277 Arlington, WA 98223-0277	David Zarett THR, LLC 114 Alaskan Way South #120 Seattle, WA 98104

Michelle Demmert Tulalip Tribes of the Tulalip Reservation 6406 Marine Drive Tulalip, WA 98271	Daryl Brent Williams Environmental Liaison Tulalip Tribes of the Tulalip Reservation 6406 Marine Drive Tulalip, WA 98271
U.S. Army Corps of Engineers P.O. Box 2946 Portland, OR 97208-2946	Stephen Bredthauer Technical Review Program Manager U.S. Army Corps of Engineers, NW Division P.O. Box 2870 Portland, OR 97208-2870
U.S. Bureau of Indian Affairs Portland Area Office 911 NE 11th Ave. Portland, OR 97232-4169	U.S. Bureau of Indian Affairs P.O. Box 48 Aberdeen, WA 98520-0010
U.S. Environmental Protection Agency 805 SW Broadway, Suite 500 Portland, OR 97205-3331	Senator Maria Cantwell U.S. Senate 311 Hart Senate Office Bldg. Washington, DC 20510
Washington State Department of Archaeology and Historic Preservation P.O. Box 48343 Olympia, WA 98504-8343	Washington State Department of Agriculture 406 General Administration Building Olympia, WA 98504-0001
Phyllis J. Barney Washington Office of Attorney General P.O. Box 40117 Olympia, WA 98504	Monika Kannadaguli Washington State Department of Ecology 3190-160th Ave. SE Bellevue, WA 98008
Lee Van Tussenbrook Washington State Department of Fish & Wildlife 2108 Grand Blvd. Vancouver, WA 98661-4624	Washington State Department of Fish & Wildlife Habitat Division 600 N. Capitol Way Olympia, WA 98504-0001

<p>Bill Frymire  Washington Office of Attorney General  P.O. Box 40100  Olympia, WA 98504</p>	<p>Brock Applegate  Washington State Dept of Fish &amp;  Wildlife  111 Sherman Street  La Conner, WA 98257</p>
<p>Terry Pruit  Washington Office of Attorney General  P.O. Box 40100  Olympia, WA 98504</p>	<p>Pamela W. Krueger  Washington State Department of Natural  Resources  P.O. Box 85899  Olympia, WA 98145</p>
<p>Forest Practice Coordinator  Washington State Department of Natural  Resources  950 Farman Street N  Enumclaw, WA 98022-9282</p>	<p>SEPA Center  Washington State Department of Natural  Resources  P.O. Box 47015  Olympia, WA 98504-7015</p>
<p>Washington Utilities and Transportation  Commission  Electric Section  P.O. Box 47250  Olympia, WA 98504-7250</p>	

**APPENDIX A  
PROCESS PLAN AND SCHEDULE**

Shaded milestones are unnecessary if there are no study disputes. If the due date falls on a weekend or holiday, the due date is the following business day. The schedule assumes that there will be one study season; however, if a second study season is necessary, the schedule will be adjusted accordingly.

<b>Responsible Party</b>	<b>Pre-Filing Milestone</b>	<b>Date</b>	<b>FERC Regulation</b>
Black Canyon	Issue Public Notice for NOI/PAD	3/27/12	5.3(d)(2)
Black Canyon	File NOI/PAD with FERC	3/27/12	5.5, 5.6
FERC	Initiate Tribal Consultation	3/30/12	5.7
FERC	Issue Notice of Commencement of Proceeding; Scoping Document 1 (SD1)	5/25/12	5.8
FERC	Project Virtual Site Review and Scoping Meetings	6/19/12	5.8(b)(viii)
All stakeholders	PAD/SD1 Comments and Study Requests Due	7/24/12	5.9
FERC	Issue Scoping Document 2	9/7/12	5.10
Black Canyon	File Proposed Study Plan (PSP)	9/7/12	5.11(a)
All stakeholders	Proposed Study Plan Meeting	10/8/12	5.11(e)
All stakeholders	Proposed Study Plan Comments Due	12/6/12	5.12
Black Canyon	File Revised Study Plan	1/7/13	5.13(a)
All stakeholders	Revised Study Plan Comments Due	1/22/13	5.13(b)
FERC	Director's Study Plan Determination	2/6/13	5.13(c)
Mandatory Conditioning Agencies	Any Study Disputes Due	2/26/13	5.14(a)
Dispute Panel	Third Dispute Panel Member Selected	3/13/13	5.14(d)(3)
Dispute Panel	Dispute Resolution Panel Convenes	3/18/13	5.14(d)
Black Canyon	Applicant Comments on Study Disputes Due	3/25/13	5.14(j)
Dispute Panel	Dispute Resolution Panel Technical Conference	3/28/13	5.14(j)
Dispute Panel	Dispute Resolution Panel Findings Issued	4/17/13	5.14(k)
FERC	Director's Study Dispute Determination	5/7/13	5.14(l)
Black Canyon	First Study Season	2013	5.15(a)
Black Canyon	Initial Study Report	2/6/14	5.15(c)(1)
All stakeholders	Initial Study Report Meeting	2/21/14	5.15(c)(2)



Black Canyon	Initial Study Report Meeting Summary	3/10/14	5.15(c)(3)
All stakeholders	Any Disputes/Requests to Amend Study Plan Due	4/9/14	5.15(c)(4)
All stakeholders	Responses to Disputes/Amendment Requests Due	5/9/14	5.15(c)(5)
FERC	Director's Determination on Disputes/Amendments	6/9/14	5.15(c)(6)
<i>Second study season if necessary. Schedule would be adjusted accordingly.</i>			
Black Canyon	File Preliminary Licensing Proposal (PLP)	9/1/14 <sup>1</sup>	5.16(a)
All stakeholders	PLP Comments Due	12/1/14	5.16(e)

<sup>1</sup> Date for filing of the PLP is a staff estimate.

**APPENDIX B**  
**ENTITIES THAT FILED WRITTEN SCOPING COMMENTS**

In addition to the comments received at the scoping meetings, the following entities filed comments on the PAD or SD1:

<u><i>Entity</i></u>	<u><i>Date Filed</i></u>
Roy Murphy	April 26, 2012
Ryan Masterson	June 13, 2012
John Cornelison	June 13, 2012
Julia Marshall	July 2, 2012
Dave Peterson	July 6, 2012
U.S. Fish and Wildlife Service	July 9, 2012
Marjorie Kinch	July 9, 2012
Samuel Esswein	July 11, 2012
Seth Fitzsimmons	July 11, 2012
Roger Maney	July 11, 2012
Janice Keeley	July 11, 2012
Juliane Gust	July 11, 2012
Benjamin Hawthorne	July 11, 2012
Nathan Bell	July 11, 2012
Brandon Koch	July 11, 2012
Jeff Bennett	July 11, 2012
Louis Geltman	July 11, 2012
Willie Illingworth	July 11, 2012
Matthew Wong	July 11, 2012
Kate	July 11, 2012
Matt Horton	July 11, 2012
John Haddock	July 11, 2012
Stephen Sanborn	July 11, 2012
Steve Powers	July 11, 2012
Kiran Bhageshpur	July 11, 2012
Judith Ranelli	July 11, 2012
Justin Cullars	July 11, 2012
Jeff Muston	July 11, 2012
John Pilson	July 11, 2012
Josh Wilder	July 11, 2012
Robert Gibbert	July 11, 2012
Peter Morgan	July 11, 2012
Audrey	July 11, 2012
Daniel Patrinellis	July 11, 2012

William Day	July 12, 2012
Phillip Kast	July 12, 2012
Gynner Coronel	July 12, 2012
Keith Masill	July 12, 2012
John Edwards	July 12, 2012
Ethan Smith	July 12, 2012
Jacob Risch	July 12, 2012
Guido Van Hofwegen	July 12, 2012
Ryan Allen	July 12, 2012
John Petroske	July 12, 2012
Michael McWhirter	July 12, 2012
Jefferson Slagle	July 12, 2012
JD Gaffney	July 12, 2012
Joe Keck	July 12, 2012
Judy Gaffney	July 13, 2012
Michael Harms	July 13, 2012
Peter Morgan	July 13, 2012
Lance Reif	July 13, 2012
Brian Ginsberg	July 13, 2012
Paul Gamache	July 13, 2012
Brian Vogt	July 13, 2012
Jonathan Crain	July 13, 2012
Willy Dinsdale	July 13, 2012
Adam Frey	July 13, 2012
Paul Reilly	July 13, 2012
Koushik Ray	July 13, 2012
Brandon Bloomquist	July 13, 2012
Joanne Edwards	July 13, 2012
David Maurier	July 13, 2012
Mike Nash	July 13, 2012
Cody Clayton	July 16, 2012
Soyoung Shin	July 16, 2012
David Herman	July 16, 2012
Travis Heim	July 16, 2012
Gene Hacker	July 16, 2012
Dee Brodigan	July 17, 2012
Anna Royem	July 18, 2012
Oliver Deshler	July 18, 2012
Ben Dinsdale	July 18, 2012
Jeff Trauba	July 18, 2012
David Zarett	July 18, 2012

Martin Morgan	July 19, 2012
Matt Thackray	July 19, 2012
Washington State Department of Ecology	July 19, 2012
Mike Dezzani	July 19, 2012
Kent Perillo	July 19, 2012
Atom Crawford	July 19, 2012
Richard Patterman	July 19, 2012
Jesse Lanci	July 19, 2012
Marcus Bratcher	July 19, 2012
Kevin Cripps	July 19, 2012
Mathew Bauerle	July 19, 2012
National Park Service	July 19, 2012
Joshua Darnell	July 19, 2012
Kelly Ralston	July 19, 2012
Stuart Perillo	July 19, 2012
James	July 19, 2012
Hayden Strickland	July 19, 2012
Andrew	July 19, 2012
Todd Gillman	July 19, 2012
Abe Cobb	July 20, 2012
Mark Mueller	July 20, 2012
Brent Phillips	July 20, 2012
King County, Washington	July 23, 2012
Hadden Lucas	July 23, 2012
Brooks Foster	July 23, 2012
Brian Fletcher	July 23, 2012
Chris Young	July 23, 2012
David Hajoglou	July 23, 2012
Mark Billerbeck	July 23, 2012
Roy Hovland	July 23, 2012
Larry Phillips	July 23, 2012
Jason Stingl	July 23, 2012
Joel Glidden	July 23, 2012
Jeremy Syz	July 23, 2012
Miguel Reyes	July 23, 2012
Nicholas Mardirosian	July 23, 2012
Jeffrey Thomas	July 23, 2012
Mark Lisowski	July 23, 2012
Janelle Deane	July 23, 2012
Collin Laingen	July 23, 2012
BoLars	July 23, 2012

Snoqualmie Tribe	July 24, 2012
Trout Unlimited	July 24, 2012
City of Snoqualmie	July 24, 2012
Alpine Lakes Protection Society, American Rivers, American Whitewater, North Cascades Conservation Council, The Mountaineers, and Washington Wild	July 24, 2012
Washington State Department of Fish and Wildlife	July 24, 2012
Russell Porter	July 24, 2012
Susan Wilkins	July 24, 2012
Nick Haskell	July 24, 2012
Susan Wilkins	July 24, 2012
Beth McVay	July 24, 2012
Marjorie Kinch	July 24, 2012
Washington State Department of Natural Resources	July 24, 2012
Eli Tayrien	July 24, 2012
Caleb Paquette	July 24, 2012
Jim Simon	July 24, 2012
Aaron Angelovic	July 24, 2012
Aaron David	July 24, 2012
Doug Marbarger	July 24, 2012
Andy Horn	July 24, 2012
John McConville	July 24, 2012
Blake Huber	July 24, 2012
Mitch WerBell	July 24, 2012
Jon Lambert	July 25, 2012
Tulalip Tribes	July 25, 2012
Shane Robinson	July 30, 2012
Metropolitan King County Councilmember Larry Phillips	July 30, 2012
Rolf Kelly	August 1, 2012
Forterra	August 3, 2012

Document Content(s)

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