

June 30, 2008

Subject:

Cascade Water Alliance

Lake Tapps Reservoir Issuance of New Municipal Water Rights and Change of

Use for Existing Claim No. 60822

Determination of Significance and Request for Comments on

Scope of Environmental Impact Statement

To Whom It May Concern:

The enclosed Determination of Significance (DS) and environmental checklist have been prepared for the above-referenced project in compliance with the State Environmental Policy Act (SEPA) under Chapter 43.21C RCW. The Cascade Water Alliance (Cascade) is the proponent and lead agency.

Copies of the DS and environmental checklist can be obtained by calling Cascade at (425) 453-0930 or visiting our website at: www.cascadewater.org. Additionally, background materials can be viewed at Cascade's office at the address noted below.

Comments are invited and should be postmarked on or before **August 1, 2008**. Written comments should be addressed to:

Michael A. Gagliardo, Director of Planning Cascade Water Alliance 11400 SE 8th Street, Suite 440 Bellevue, WA 98004

Sincerely,

Michael A. Gagliardo Director of Planning

Enclosures

Treasurer Jim Haggerton

Mary-Alyce Burleigh Councilmember

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Lake Tapps Reservoir Issuance of New Municipal Water Rights and Change of Use for Existing Claim No. 60822

Determination of Significance and Request for Comments on Scope of Environmental Impact Statement and Environmental Checklist





CASCADE WATER ALLIANCE

DETERMINATION OF SIGNIFICANCE AND REQUEST FOR COMMENTS ON SCOPE OF ENVIRONMENTAL IMPACT STATEMENT FOR THE LAKE TAPPS RESERVOIR ISSUANCE OF NEW MUNICIPAL WATER RIGHTS AND CHANGE OF USE FOR EXISTING CLAIM NO. 60822

Description of Proponent and Proposal:

a. <u>Description of Proponent</u>

Cascade Water Alliance (Cascade), a Washington non-profit corporation, is organized under the authority of the Interlocal Cooperation Act, Ch. 39.34 RCW, for the purpose of developing water supply to meet the demands of its Members. Cascade is comprised of cities and special purpose districts, each of which is authorized to provide water supply to its designated service area. The Members of Cascade have entered into an Interlocal Contract (Interlocal) to enhance their ability to supply water to their respective service areas and to the region by developing, owning, and operating regional water supply assets. The Members of Cascade are:

- City of Bellevue
- City of Issaquah
- City of Kirkland
- City of Redmond

- City of Tukwila
- Covington Water District
- Skyway Water and Sewer District
- Sammamish Plateau Water and Sewer District

Cascade serves as the primary planning authority for the regional water supplies needed to serve its Members. Cascade is responsible for managing, on behalf of its Members, the regional water supply system and has the responsibility and authority, as authorized under the Interlocal, to plan and provide water to its Members for use within their existing and future water service area boundaries. In furtherance of long-term water supply goals, Cascade has entered into an agreement to purchase certain applications for water rights and an application for change in use of an existing water right and related real and personal property assets from Puget Sound Energy (PSE), to develop Lake Tapps Reservoir as a source of municipal water supply.

b. Description of Proposal

Cascade is proposing that Ecology review and approve three water right applications (S2-29920, R2-29935, and S2-29934), and a requested change to existing Claim No. 60822 (Applications), and issue the water rights permits in accordance with a specific Recommended Flow Regime. The Recommended Flow Regime proposal is summarized in Section A.11 of the Environmental Checklist. Ecology must review and approve or deny the requested Applications and proposed Recommended Flow Regime. Ecology's approval of the Applications and Recommended Flow Regime is a



necessary and prerequisite step to facilitating Cascade's development of Lake Tapps Reservoir as a municipal water supply.

Proponent:

Cascade Water Alliance 11400 SE 8th Street, Suite 440 Bellevue, WA 98004

Attn: Michael A. Gagliardo, Director of Planning

Phone: (425) 453-0930

Applicant:

Puget Sound Energy P.O. Box 97034 Bellevue, WA 98009 Phone: (425) 452-1234

Location of Proposal, including street address, if any:

Lake Tapps is located in the Puyallup/White River watershed, Water Resource Inventory Area (WRIA) 10, in northern Pierce County, Washington, approximately 20 miles southeast of Puget Sound. The project area is located approximately 30 miles southeast of Seattle and approximately 18 miles east of Tacoma.

The point of diversion is located at the existing diversion facility under Water Rights Claim No. 60822 in the City of Buckley; the point of diversion is approximately 200 feet east and approximately 200 feet south from the North 1/4 section corner of Section 2, Township 19 North, Range 6 East, in Pierce County, Washington. Lake Tapps Reservoir is a 4.5-mile-long by 2.5-mile-wide reservoir located in the Township 20 North, Range 5 East region in Pierce County. The location of the place of use has been established as a regional supply area within King, Pierce, and Snohomish counties, as depicted on Figure 2 of the Environmental Checklist.

Lead Agency:

Environmental Impact Statement (EIS) Required

Cascade is the lead agency for the Proposal. The Proposal will have a probable significant adverse impact on the environment and an EIS is required under Chapter 43.21C.030(2)(c) RCW, WAC 197-11-330. This decision was made after review of a completed environmental checklist, documents incorporated into the checklist, and other documents on file with the lead agency. This information may be examined at Cascade's office at the address listed above.

Cascade has identified the following environmental elements for potential discussion in the EIS:

- Water (including Surface, Groundwater, and Water Runoff)
- Plants and Animals



- Recreation
- Historical and Cultural Preservation
- **Energy and Natural Resources**
- **Aesthetics**
- Climate Change
- Land and Shoreline Use (including Impacts to Surrounding Communities)
- Other Environmental Considerations

Scoping:

Agencies, affected tribes, and members of the public are invited to comment on the scope of the EIS. You may comment on alternatives, mitigation measures, probable significant adverse impacts, and licenses or other approvals that may be required. Written comments on the scope of the EIS should be sent to the responsible official indicated below and must be postmarked on or before August 1, 2008.

Responsible Official:

Michael A. Gagliardo, Director of Planning

Cascade Water Alliance

11400 SE 8th Street, Suite 440

Bellevue, WA 98004 (425) 453-0930

30 2000 Signature Michael Q



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Acronyms and Abbreviations

af/y acre-feet per year

Applications water rights applications S2-29920, R2-29935, and S2-29934

Cascade Cascade Water Alliance cfs cubic feet per second

DPS Distinct Population Segment

Ecology Washington State Department of Ecology

ESA Endangered Species Act

ESU Evolutionarily Significant Unit

FERC Federal Energy Regulatory Commission

FR Federal Register

GIS geographic information system

Historic System White River Project System

Hydroelectric Project White River Hydroelectric Project

IFIM in-stream flow incremental methodology

Lake Tapps Reservoir

Water Rights

Lake Tapps Reservoir Issuance of New Municipal Water Rights and Change

of Use for Existing Claim No. 60822

MF minimum flow

msl mean sea level

NPDES National Pollutant Discharge Elimination System

PSE Puget Sound Energy

RM River Mile

ROE Report of Examination

SEPA State Environmental Policy Act

TM technical memorandum

the Tribes the Muckleshoot Indian Tribe and the Puyallup Tribe of Indians

USDA U.S. Department of Agriculture USFWS U.S. Fish and Wildlife Service

USGS U.S. Geological Survey

WAC Washington Administrative Code

WDFW Washington Department of Fish and Wildlife



WDOH Washington State Department of Health

WRIA Water Resource Inventory Area

WUA Weighted Usable Area



Glossary

| Diversion canal | Water is conveyed from the White River to Lake Tapps Reservoir through a diversion canal consisting of a canal, settling basins, and two large-diameter concrete pipes. |
|--|---|
| Diversion dam | Water is diverted from the White River at a diversion dam at the town of Buckley and conveyed through the diversion canal to Lake Tapps Reservoir. |
| Fall Drawdown | The reduction of the level of Lake Tapps Reservoir in the fall to expose portions of the lake bed for the purpose of preventing macrophyte growth or for the purpose of Project maintenance. |
| Hydroelectric Project | The White River Hydroelectric Project owned by Puget Sound Energy since 1911; operated until January 15, 2004. |
| Lake Tapps Reservoir | Formed in 1911 by construction of dikes around four natural lakes; water diverted from the White River is stored in the Reservoir and eventually released through the Reservoir Outlet Works. |
| Lake Tapps Reservoir Water Supply Project | See "Proposal." |
| Project | See "Proposal." |
| Proposal | The purchase of the water rights or applications for water rights, including Claim No. 60822, and issuance of the water rights. The Proposal under consideration encompasses the initial steps necessary to develop Lake Tapps Reservoir as a source of municipal water supply for the long-term needs of Cascade's Members, including acquisition of natural resources, water rights or Applications, and the issuance of the water rights by Ecology. The Proposal will also be referred to interchangeably as the "Water Supply Project" or "Project." |
| Reservation Reach | The area of the White River between the diversion dam and tailrace canal. |
| River Mile (RM) | The distance upstream of the mouth of a river or confluence with another water body. For example, RM 4.9 in the Reservation Reach is located 4.9 miles upstream of the confluence of the White and Puyallup Rivers. |
| Tailrace Canal | The canal through which water from Lake Tapps is discharged into the White River. |



| Water Resource Inventory Area (WRIA) | An administrative and planning area designated by the Washington State Department of Ecology for addressing water and aquatic resource management issues. Sixty-two WRIAs have been designated, corresponding to the state's major watershed basins. The terms "WRIA" and "watershed" are frequently used interchangeably, although a WRIA may include more than one watershed. | |
|---|---|--|
| Water Supply Project | See "Proposal." | |



Cascade Water Alliance Lake Tapps Reservoir Issuance of New Municipal Water Rights and Change of Use for Existing Claim No. 60822

Environmental Checklist

A. Background

- 1. Name of proposed project, background information, and scope of project:
 - a. Name of Project:

The name of the proposed project is Lake Tapps Reservoir Issuance of New Municipal Water Rights and Change of Use for Existing Claim No. 60822 (Lake Tapps Reservoir Water Rights). Note that the terms *Project* and *Proposal* are used interchangeably throughout this checklist.

b. <u>Background Information</u>:

From 1911 until January 15, 2004, Puget Sound Energy (PSE) operated the White River Hydroelectric Project (Hydroelectric Project) in Pierce County. In 2000, PSE submitted the following water rights applications to the Department of Ecology (Ecology) for the purpose of developing Lake Tapps Reservoir as a municipal water supply:

- (1) Surface Water Application S2-29920 (filed June 20, 2000), which proposes to divert up to 2,000 cubic feet per second (cfs) of water, not to exceed a withdrawal of 72,400 acre-feet per year (af/y), from the White River;
- (2) R2-29935 (filed September 15, 2000), which seeks a reservoir permit to store in Lake Tapps Reservoir up to 2,000 cfs of water, not to exceed a withdrawal of 72,400 af/y, that would be diverted from the White River pursuant to application S2-29920; and
- (3) S2-29934 (filed September 15, 2000), which seeks a secondary permit to withdraw water from Lake Tapps Reservoir for consumptive use as a municipal, commercial, and industrial water supply. The application requests a maximum instantaneous rate of 150 cfs, with an average annual rate of 100 cfs, and a maximum annual quantity of 72,400 af/y. Water would be withdrawn from the vicinity of what was previously the forebay of the Hydroelectric Project and placed into a regional treatment and transmission system.

In January 2004, PSE ceased operating the Hydroelectric Project. Since ceasing hydropower operations, PSE has continued to divert water, as needed, to maintain



levels in Lake Tapps Reservoir and has released water back into the river as a flushing or pass-through flow to maintain water quality in the reservoir.

The requested change to Claim No. 60822 would allow water to continue to be diverted from the White River into Lake Tapps Reservoir for the purposes of maintaining water quality and recreation in Lake Tapps Reservoir, and providing flows for the fish bypass structure and for fish or wildlife flow enhancement. The requested change to Claim No. 60822 and the three water rights applications (S2-29920, R2-29935, and S2-29934) are collectively referred to in this checklist as the *Applications*. Cascade Water Alliance (Cascade) has entered into an agreement to purchase the Applications and related real and personal property assets from PSE in order to develop Lake Tapps Reservoir as a source of municipal water supply.

c. Project Scope:

Cascade is proposing that Ecology review and approve the Applications, and issue the water rights permits in accordance with a specific Recommended Flow Regime. The Recommended Flow Regime proposal is summarized in Section 11 below. Ecology must review and approve or deny the requested Applications and proposed Recommended Flow Regime. Ecology's approval of the Applications and Recommended Flow Regime is a necessary and prerequisite step to facilitating the development of Lake Tapps Reservoir as a municipal water supply.

2. Name of Applicant and Proponent:

PSE is the Applicant for certain water rights applications and requested change to existing Claim No. 60822. Cascade has agreed to purchase the water rights or the applications for water rights (including the hydropower Claim No. 60822) from PSE. PSE and Cascade are seeking permit approval from Ecology as a prerequisite step to developing the Project.

3. Address and phone number of Proponent and Applicant and contact person:

Cascade Water Alliance (Proponent) 11400 SE 8th Street, Suite 440 Bellevue, WA 98004 Attn: Michael A. Gagliardo 425/453-0930

Puget Sound Energy, Inc. (Applicant) P.O. Box 97034 Bellevue, WA 98009 425/452-1234

4. Date checklist prepared:

June 2008

5. Agency requesting checklist:

Cascade Water Alliance (Cascade)

Washington State Department of Ecology (Ecology)



6. Proposed timing or schedule (including phasing, if applicable):

As the lead agency under the State Environmental Policy Act (SEPA), Cascade has determined that the environmental review for development of Lake Tapps Reservoir as a potential municipal water supply requires phasing. The potential to develop Lake Tapps Reservoir as a source of municipal water supply is undergoing phased review because only the issuance of the water rights and their environmental impacts are presently known or can be reasonably identified in sufficient detail to allow for meaningful environmental review. Phased review encourages scrutiny of the issues that are ready for decision (i.e., the review and approval of the Applications) and excludes from review issues that are not yet ready for consideration.

According to Cascade's 2004 Transmission and Supply Plan (Cascade, 2005), if the Applications are approved, Cascade anticipates that permitting and design of the treatment plant and related facilities necessary to implement the municipal water supply project would not occur until 2019. Construction would not begin until 2022, with potential completion occurring in 2024. Thus, later phases of environmental review would include detailed analyses of the environmental impacts of the capital improvements necessary to develop and implement the water supply project. These detailed analyses would address impacts related to construction and operation of a water treatment plant and transmission conveyance system.

Phased review would allow agencies and the public to focus on the environmental impacts of the diversion, storage, and withdrawal of water, which are ready for review, and exclude from consideration specific infrastructure issues that cannot be addressed at this time, such as the conveyance features and the means and method of treatment. Phased environmental review is expected to occur in a logical sequence (WAC 197-11-060(5)(c)(ii)): from an environmental document at an early stage (the water rights need and location of storage and withdrawal) to a subsequent environmental document at a later stage (the treatment plant and water conveyance methods and location and related design and locational environmental impacts). In light of the long lead-time associated with planning and development of infrastructure alternatives, phased review of the Project is appropriate under WAC 197-11-060.

7. Do you have any plans for future additions, expansion, or further activity related to or connected with this proposal? If yes, explain.

Yes. Cascade needs to identify and plan alternatives for water treatment and conveyance facilities to serve the 20- to 50-year demands.

It is likely that Cascade would add the infrastructure typically associated with a potable water supply system to the existing facilities. To identify appropriate infrastructure, Cascade would need to conduct a detailed feasibility assessment so that decisions could be made on critical factors such as treatment plant size and technology (or phasing), treatment plant location, pipeline size or routing, or connection with other regional transmission systems. After Cascade completed a detailed alternative infrastructure analysis identifying appropriate features, withdrawal point, treatment needs, and transmission locations, agreements with water providers and design and construction schedules would be required before development began. It is anticipated that the Project would be developed in at least two phases, as follows:



- Begin construction of Phase I within 25 years from Ecology's issuance of water rights permits.
- Complete construction of Phase I within 5 years from the initiation of construction.
- Document Proof of Appropriation within 15 years from the completion of construction of Phase I.
- Begin construction of Phase II within 25 years from issuance of the water rights permits.
- Complete construction within 18 years from completion of construction of Phase I.
- Document Proof of Appropriation within 15 years from the completion of construction of Phase II.

8. List any environmental information you know about that has been prepared, or will be prepared, directly related to this proposal.

The following information was previously prepared, and is directly related to this Proposal:

Lake Tapps Reservoir Water Rights Feasibility Report Technical Memoranda (TMs) (HDR, 2002):

| No. | <u>Name</u> |
|-----|--|
| 1 | Existing Principal Project Features |
| 2 | Water Supply Project Features |
| 3 | Public Water Quality Analysis – Water Quality Monitoring and Evaluation |
| 4 | Public Water Quality Analysis – Treatment Goal |
| 5 | Public Water Quality Analysis – Water Treatment Plant Feasibility Study |
| 6 | Public Water Quality Analysis – Implementation Plan |
| 7 | Watershed Management Strategy for the Lake Tapps Reservoir |
| 8 | Place of Use Description Letter |
| 9 | Demonstration of Future Demands |
| 10 | Relationship between the Existing White River Hydroelectric Project and the Proposed Lake Tapps Reservoir Water Supply |
| 11 | Basin Characterization and Data Summary |
| 12 | Lake Tapps Reservoir Hydrologic System Model Recommendation |
| 13 | Lake Tapps Reservoir System Modeling Workplan |
| 14 | Flow Modeling - Normal, Dry & Drought Conditions Letter |
| 15 | Hydroclimate Analysis |
| 16 | Lake Tapps Reservoir System Model Results and Reservoir Management Plan |
| 17 | Instream Flow Protection and Flow Augmentation Plan |
| 18 | Water Quality Monitoring Plan |
| | |

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Water Quality Monitoring Results



- No. Name
- 20 White River Water Quality Issues Reservation Reach pH
- 21 Water Quality Issues in the Lower White and Puyallup Rivers Dissolved Oxygen
- Water Quality Model Recommendation
- 23 Downstream NPDES Issues
- 24 Water Quality Modeling Workplan
- 25 Water Quality Model Results and Downstream NPDES
- 26 Fish Habitat Impact Analysis
- 27 Groundwater Analysis
- Puget Sound Energy Response (dated July 9, 2002) to Ecology's Letter of May 31, 2002.

The following documents contain information relevant to the Proposal:

- Cascade Water Alliance, 2004 Transmission and Supply Plan (Cascade, 2005)
- Cascade Water Alliance, February 10, 2003, Lake Tapps Storage Reservoir Water Rights Proposal Environmental Checklist
- Central Puget Sound Water Suppliers' Forum, 2001 Drought Response Plan
- Seattle Public Utilities, 2001 Water System Plan Update
- Tacoma Water, Tacoma Public Utilities, Draft Comprehensive Plan Update
- Washington State Department of Ecology, Draft Initial Watershed Assessment Water Resources Inventory Area 10 Puyallup-White Watershed (Ecology, 1995).
- Comprehensive Land Use Plans, including: King County Comprehensive Plan, Pierce County Comprehensive Plan, Snohomish County Comprehensive Plan, Seattle Comprehensive Plan, Tacoma Comprehensive Plan, Bellevue Comprehensive Plan, Redmond Comprehensive Plan, Covington Comprehensive Plan, Sammamish Comprehensive Plan, Issaquah Comprehensive Plan, Kirkland Comprehensive Plan, and Tukwila Comprehensive Plan.
- Draft Report of Examination for Lake Tapps Reservoir Water Supply Project Application S2-29934 (Ecology, 2006).
- Cascade Water Alliance, February 2008, Lake Tapps Reservoir Water Supply Project Environmental Checklist.
- Water Quantity Model Results Compendium for the Lake Tapps Water Rights Applications (Aspect Consulting, 2006).



9. Do you know whether applications are pending for governmental approvals of other proposals directly affecting the property covered by your proposal? If yes, explain.

No other actions, for purposes of SEPA, are pending.

10. List any government approvals or permits that will be needed for your proposal, if known.

Ecology's approval of the following water rights applications are required:

- a. Surface Water Application S2-29920 (filed June 20, 2000), which proposes to divert up to 2,000 cfs of water, not to exceed a withdrawal of 72,400 af/y, from the White River:
- b. R2-29935 (filed September 15, 2000), which seeks a reservoir permit to store in Lake Tapps Reservoir up to 2,000 cfs of water, not to exceed a withdrawal of 72,400 af/y that would be diverted from the White River pursuant to application S2-29920; and
- c. S2-29934 (filed September 15, 2000), which seeks a secondary permit to withdraw water from Lake Tapps Reservoir for consumptive use as a municipal, commercial, and industrial water supply. The application requests a maximum instantaneous rate of 150 cfs, with an average annual rate of 100 cfs, and a maximum annual quantity of 72,400 af/y. Water would be withdrawn from the vicinity of what was previously the forebay of the Hydroelectric Project and placed into a regional treatment and transmission system.
- d. Change to Claim No. 60822. The application for change of use would allow water to continue to be diverted from the White River into Lake Tapps Reservoir for the purposes of maintaining water quality and recreation in Lake Tapps Reservoir, and providing flows for the fish bypass structure and for fish or wildlife flow enhancement.

A water system plan in accordance with the Washington State Department of Health (WDOH) regulations would be required in future phases, as well as various other state and local permits and approvals that cannot be identified until the infrastructure components are specifically identified for the development.

11. Give a brief, complete description of your proposal, including the proposed uses and the size of the project and site. There are several questions later in this checklist that ask you to describe certain aspects of your proposal. You do not need to repeat those answers on this page. (Lead agencies may modify this form to include additional specific information on project description.)

The Proposal is for Ecology to review and approve the Applications (see Section 10 above) in accordance with Cascade's Recommended Flow Regime (see Appendix B). A summary of the Recommended Flow Regime follows.

Recommended Flow Regime

The Recommended Flow Regime was developed in conjunction with the Muckleshoot Indian Tribe and the Puyallup Tribe of Indians (the Tribes). The Recommended Flow Regime was designed to simultaneously carry out the following: (a) divert sufficient



water from the White River into Lake Tapps Reservoir to operate the Project and maintain recreational lake levels and water quality, (b) maintain minimum flows in the White River that would mimic the natural hydrograph of the system and provide enhanced volumes (and habitat) for listed fish species.

The Recommended Flow Regime provides for minimum flows in the White River, ranging from 500 cfs in the late summer/fall to over 800 cfs in the spring. Substantial diversion to Lake Tapps Reservoir is provided for in the spring (to provide for refill to recreational levels). Once the reservoir has reached recreational levels, diversion is limited to amounts needed for the municipal water supply project and for maintaining recreational levels until the Fall Drawdown period. Specific consideration was given to minimum flow in July and August to provide for the needs of the Project and White River fishery, while minimizing potential impacts on recreational levels during the peak recreational season.

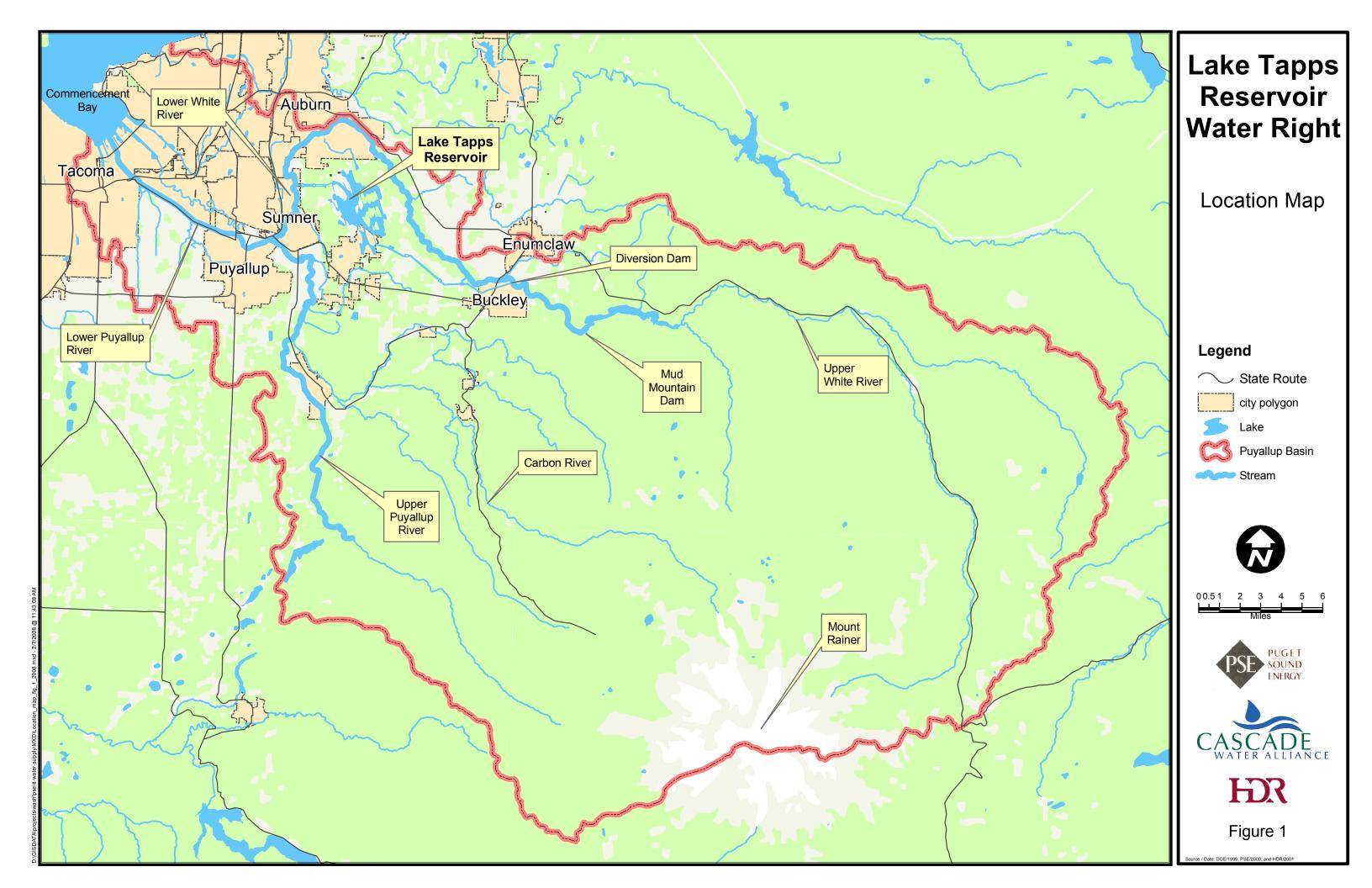
An Annual Refill and Drawdown Plan would be developed in consultation with interested parties (such as the Tribes, fishery agencies, Pierce County, and the Lake Tapps residential community). This plan would establish the dates for refill and drawdown and the level of refill for the reservoir.

12. Location of the proposal. Give sufficient information for a person to understand the precise location of your proposed project, including a street address, if any, and section, township and range, if known. If a proposal would occur over a range of area, provide the range or boundaries of the site(s). Provide a legal description, site plan, vicinity map, and topographic map, if reasonably available. While you should submit any plans required by the agency, you are not required to duplicate maps or detailed plans submitted with any permit applications related to this checklist.

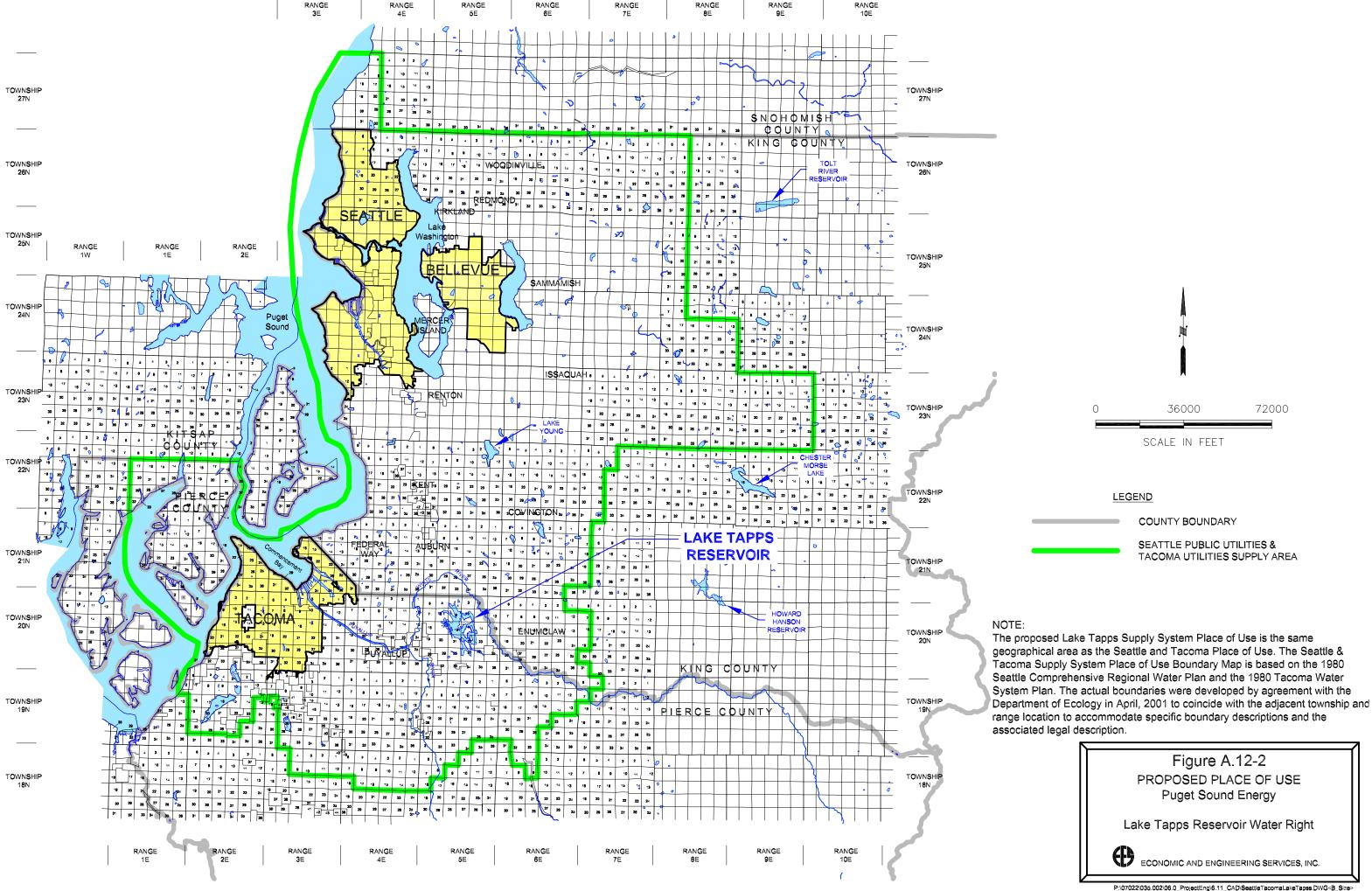
Lake Tapps Reservoir is located in the Puyallup/White River watershed, Water Resource Inventory Area (WRIA) 10, in northern Pierce County, Washington, approximately 20 miles southeast of Puget Sound. The project area is located approximately 30 miles southeast of Seattle and approximately 18 miles east of Tacoma. The Location Map and the Place of Use Map are shown in Figures 1 and 2, respectively.

The point of diversion is located at the existing diversion facility under Water Rights Claim No. 60822 in the City of Buckley; the point of diversion is approximately 200 feet east and 200 feet south from the North 1/4 section corner of Section 2, Township 19 North, Range 6 East, in Pierce County, Washington. Lake Tapps Reservoir is a 4.5-mile-long by 2.5-mile-wide reservoir located in Township 20 North, Range 5 East in Pierce County. The location of the place of use has been established as a regional supply area within King, Pierce, and Snohomish counties, as depicted on Figure 2.













B. Environmental Elements

1. Earth

| a. | General description of the site (circle one): Flat, rolling, hilly, steep slo | pes |
|----|---|-----|
| | mountainous, other | |

The topography is generally flat to rolling from the location of the White River Diversion Dam to the western shore of Lake Tapps Reservoir. The total elevation change between these locations is approximately 130 feet. One of the steepest slopes in the project area is between the Tailrace Canal and the Intake Tunnel, with a total elevation change of approximately 550 feet.

b. What is the steepest slope on the site (approximate percent slope)?

Slopes in the general area vary from 0% to a maximum of approximately 65%.

- c. What general types of soils are found on the site (for example, clay, sand, gravel, peat, muck)? If you know the classification of agricultural soils, specify them and note any prime farmland.
 - White River Diversion Dam and Intake Buckley Association: Nearly level, poorly drained soils that formed in the Osceola mudflows; on uplands. Pilchuck fine sand (USDA, 1979).
 - Diversion Canal Buckley Association: Nearly level, poorly drained soils that formed in the Osceola mudflows; on uplands. Alderwood gravelly sandy loam, Buckley loam, Indianola loamy sand, Kapowsin gravelly loam, Pilchuck fine sand, Puyallup fine sandy loam, Greenwater loamy sand, Aquic erofluvents, and Semiahmoo muck (USDA, 1979).
 - Lake Tapps Reservoir Alderwood/Everett Association: Nearly level to rolling, moderately well drained and somewhat excessively drained soils that formed in glacial till and glacial outwash; on uplands. Alderwood gravelly sandy loam, Buckley loam, Orting loam, Semiahmoo muck, and Shalcar muck (USDA, 1979).
 - Penstock Forebay Alderwood/Everett Association: Nearly level to rolling, moderately well drained and somewhat excessively drained soils that formed in glacial till and glacial outwash; on uplands. Alderwood gravelly sandy loam (USDA, 1979).
 - Tailrace Alderwood/Everett Association: Nearly level to rolling, moderately
 well drained and somewhat excessively drained soils that formed in glacial till
 and glacial outwash; on uplands. Alderwood gravelly sandy loam, Puyallup fine
 sandy loam, Semiahmoo muck, Shalcar muck, Snohomish silty clay loam, and
 Xerochrepts.



d. Are there surface indications or history of unstable soils in the immediate vicinity? If so, describe.

No.

e. Describe the purpose, type, and approximate quantities of any filling or grading proposed. Indicate source of fill.

No filling or grading is proposed.

f. Could erosion occur as a result of clearing, construction, or use? If so, generally describe.

No.

g. About what percent of the site will be covered with impervious surfaces after project construction (for example, asphalt or buildings)?

None.

h. Proposed measures to reduce or control erosion, or other impacts to the earth, if any:

Not applicable. The Project would not result in erosion or impacts to earth because no construction would be required.

2. Air

a. What types of emissions to the air would result from the proposal (i.e., dust, automobile, odors, industrial wood smoke) during construction and when the project is completed? If any, generally describe and give approximate quantities if known.

None.

b. Are there any off-site sources of emissions or odor that may affect your proposal? If so, generally describe.

No.

c. Proposed measures to reduce or control emissions or other impacts to air, if any:

None are required.



3. Water

a. Surface

1) Is there any surface water body on or in the immediate vicinity of the site (including year-round and seasonal streams, saltwater, lakes, ponds, wetlands)? If yes, describe type and provide names. If appropriate, state what stream or river it flows into.

Yes. Lake Tapps Reservoir is located in the vicinity of the White River and the Puyallup River. The Puyallup River Basin drains an area of about 970 square miles, and originates on the north and western slopes of Mount Rainier. The White River Basin is one of the major drainages of the Puyallup River Basin with a drainage area of 494 square miles. The Lake Tapps Reservoir area and surrounding watershed are shown in Figure 1.

Surface Water Bodies

Surface water bodies that could be affected by the Project include Lake Tapps Reservoir, the White River, the Puyallup River, and the Puyallup River Estuary. The river reaches in the general vicinity of the Project are discussed below and are shown on Figure 3.

White River

The White River is of glacial origin, receiving its initial flow from meltwaters of the Fryingpan and Emmons glaciers on the east side of Mount Rainier. From these headwaters, the river initially flows east and then assumes a northerly direction for about 18 miles to Ranger Creek, and then flows northwest for about 8 miles to the confluence of the West Fork White River (River Mile [RM] 49.2) and another 4 miles to the confluence of the Greenwater River (RM 45.8).

Reservation Reach of the White River

The Reservation Reach of the White River is located between RM 24.3 and RM 3.6, immediately downstream of the existing diversion. Water from the White River that is not diverted into Lake Tapps Reservoir flows down the Reservation Reach.

• White River Diversion Canal

At the existing Diversion Dam, water is diverted into the Diversion Canal and thence into the southeast end of Lake Tapps Reservoir. The Diversion Canal is 8 miles long and consists of a series of flumes, canals, and settling basins.

Lake Tapps Reservoir

Under existing conditions, water that is presently diverted from the White River is typically stored in Lake Tapps Reservoir (Figure 3) and eventually released through the Reservoir Outlet Works (see below). The reservoir is 4.5 miles long, 2.5 miles wide, with a surface area of 2,700 acres and a total volume of 67,000 acre-feet.



Reservoir Outlet Works and Tailrace Canal

The outlet for water leaving Lake Tapps Reservoir is a 2,842-foot-long, 12-foot-diameter, concrete-lined tunnel that conveys water from an intake located on the northwest shore of the reservoir to the former Hydroelectric Project forebay (Penstock Forebay, seen in Figure 3). From the forebay, the water is then conveyed downhill through one of three penstocks (pipelines).

Lower White River

The reach of the White River beginning at the entrance point from the Tailrace Canal (RM 3.6) downstream to the confluence with the Puyallup River (RM 0.0) is referred to as the Lower White River.

Upper Puyallup River

The Upper Puyallup River is located upstream of the influence of the Project and would therefore not be affected by the Project. The Puyallup River originates on the west slopes of Mount Rainer and flows approximately 30 miles before joining with the Carbon River at RM 17.8.

• Lower Puyallup River

The Lower Puyallup River, from RM 10.4 to RM 1.0, extends from the confluence with the White River to the Puyallup River Estuary at RM 1.0.

Puyallup River Estuary

The Puyallup River Estuary (RM 1.0 to RM 0.0) flows into Commencement Bay at the Tacoma Harbor.

Commencement Bay

The Puyallup River flows into Commencement Bay.

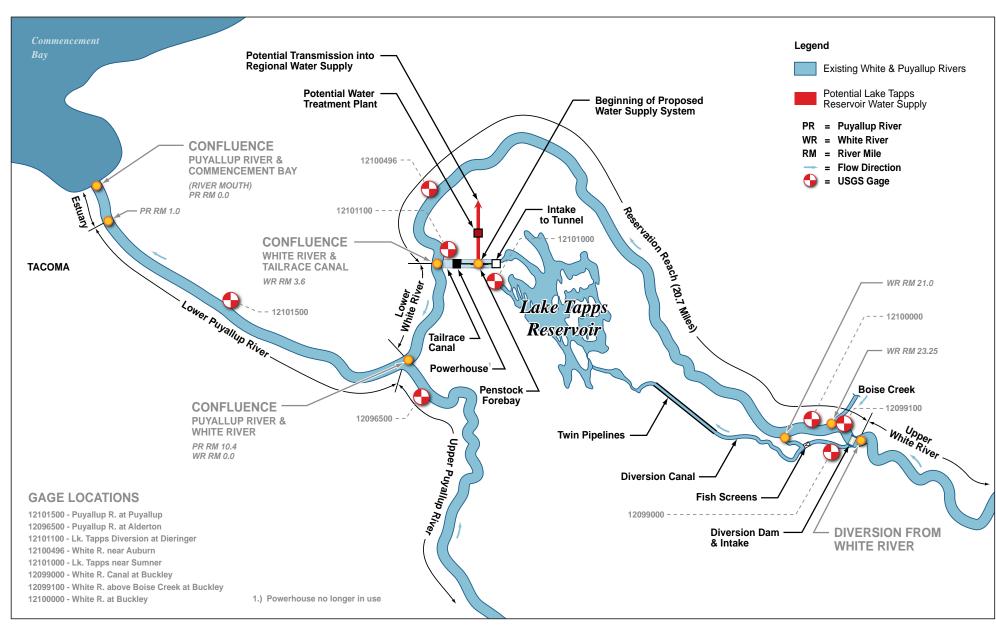


Figure 3: Reaches of the White and Puyallup Rivers (by River Mile)





2) Will the project require any work over, in, or adjacent to (within 200 feet) the described waters? If yes, please describe and attach available plans.

Yes. Some modification of the water supply intake from Lake Tapps Reservoir may be required. Mitigation requirements may require construction of a tailrace barrier. These components would require work completed adjacent to Lake Tapps Reservoir waters and tailrace waters. The exact nature of these modifications is in the planning phase and designs have not been completed.

3) Estimate the amount of fill and dredge material that would be placed in or removed from surface water or wetlands and indicate the area of the site that would be affected. Indicate the source of fill material.

There likely would be some minor filling and dredging within surface water to accommodate the construction described above. The exact specifications for this work have not yet been completed.

4) Will the proposal require surface water withdrawals or diversions? Give general description, purpose, and approximate quantities if known.

Yes. Lake Tapps Reservoir was formerly operated as a component of the Hydroelectric Project. Hydropower generation ceased in January 2004. Diversions to the reservoir from the White River have continued since hydropower generation ceased. However, the diversions are reduced to only support reservoir levels, water quality, and recreation (Ramey and Yoder, 2004). The Project would continue to divert water from the White River at the same location and store the water in Lake Tapps Reservoir. Water stored in the reservoir would be used for municipal water supply and maintenance of reservoir levels. Water would be released from the reservoir through the former Hydroelectric Project penstocks and routed to the Tailrace Canal.

The Project would result in the following operational changes:

 Withdrawal from Lake Tapps Reservoir for municipal water supply. Municipal water supply withdrawals would range from 83 cfs to 150 cfs with an average of 100 cfs and an annual limit of 74,200 acre-feet.

b. Ground

1) Will ground water be withdrawn, or will water be discharged to ground water? Give general description, purpose, and approximate quantities if known.

No groundwater would be directly withdrawn or discharged and there would be no anticipated impacts from the Project on the groundwater system compared with current conditions. Groundwater impacts would be anticipated only if the Lake Tapps Reservoir surface elevations were significantly altered, which is not expected to occur as a result of the Project. Because the average water surface elevation of Lake Tapps Reservoir would essentially be the same as existing conditions, the potential for any impacts from water surface elevation changes is considered negligible.



2) Describe waste material that will be discharged into the ground from septic tanks or other sources, if any (for example: Domestic sewage; industrial, containing the following chemicals; agricultural; etc.). Describe the general size of the system, the number of such systems, the number of houses to be served (if applicable), or the number of animals or humans the system(s) are expected to serve.

None.

3) Water Runoff (including storm water):

1) Describe the source of runoff (including storm water) and method of collection and disposal, if any (include quantities if known). Where will this water flow? Will this water flow into other waters? If so, describe.

No runoff would be associated with the Project.

2) Could waste materials enter ground or surface waters? If so, generally describe.

No waste materials would be associated with the Project.

4) Proposed measures to reduce or control surface, ground, and runoff water impacts, if any:

None would be necessary.

Source: FERC, 1992.

4. Plants

a. Check or circle types of vegetation found on the site:

| <u>X</u> | deciduous tree: red alder, big-leaf maple, aspen, |
|------------|---|
| | black cottonwood, Oregon ash |
| _ <u>X</u> | evergreen tree: Douglas fir, western red cedar, pine, |
| | western hemlock |
| <u>X</u> | shrubs |
| <u>X</u> | grass |
| | pasture |
| | crop or grain |
| <u>X</u> | wet soil plants: cattail, buttercup, rushes, skunk cabbage, |
| | horsetail, sedges, reed canary grass |
| | water plants: water lily, eelgrass, milfoil, other |
| | Other types of vegetation |
| | |

1) What kind and amount of vegetation will be removed or altered?

None. The Proposal would not require new construction; therefore, it would not involve vegetation removal or alteration.

2) List threatened or endangered species known to be on or near the site.



None known (FERC, 1992). Note that this information has not been updated because the Proposal would not have any effect on existing vegetation.

3) Proposed landscaping, use of native plants, or other measures to preserve or enhance vegetation on the site, if any:

None would be required.

5. Animals

a. Circle any birds and animals which have been observed on or near the site or are known to be on or near the site:

| Birds: hawk, heron, eagle, songbirds, other: pileated woodpecker, yellow-billed cuckoo |
|--|
| waterfowl, ruffed grouse, osprey, Vaux's swift, Mallard, American coot, purple martin |
| dabbling duck |
| Mammals: deer, bear, elk, beaver, other: |
| Fish: bass, salmon, trout, herring, shellfish, other: mountain whitefish, sculpins, |
| yellow perch, largescale sucker, redside shiner, black crappie, sunfishes, |
| brown bullhead, longnose dace, speckled dace |
| Source: FERC 1992 |

1) List any threatened or endangered species known to be on or near the site.

Endangered

None.

Threatened

Birds

Marbled murrelet (*Brachyramphus marmoratus*)

Most marbled murrelet nests are associated with old growth or mature timber stands, usually located within 50 miles of salt water where foraging activities take place. Murrelets may use the area as a flight corridor between nesting and foraging habitat. No land-disturbing activities would result from this phase of the Project; therefore, no impacts to marbled murrelets or other bird species in the area would be anticipated.

Fish

Puget Sound Chinook salmon (Oncorhynchus tshawytscha)

Coastal/Puget Sound bull trout (Salvelinus confluentus)

Puget Sound steelhead trout (*Oncorhynchus mykiss*)



Chinook Salmon – Listed as Threatened under the Endangered Species Act (ESA): Three Chinook stocks are present in the lower Puyallup River Basin: (1) White (Puyallup) River spring Chinook, (2) White (Puyallup) River summer/fall Chinook, and (3) Puyallup River fall Chinook. The Puyallup River system Chinook are part of the Puget Sound Evolutionarily Significant Unit (ESU). The National Marine Fisheries Service listed the Puget Sound ESU as threatened under the ESA on March 24, 1999 (64 FR 14308).

Critical habitat has been designated for the Puget Sound Chinook salmon (70 FR 52630; September 2, 2005). Portions of the Puyallup River system have been designated, including the Lower Puyallup River and main stem White River. These reaches contain a few of the essential elements needed to sustain Chinook salmon populations, including spawning, rearing, and migration habitat (70 FR 52630; September 2, 2005).

Bull Trout – **Listed as Threatened under ESA:** The Puyallup River system is considered part of the Coastal-Puget Sound bull trout Distinct Population Segment (DPS) by the U.S. Fish and Wildlife Service (USFWS). This DPS is a geographically isolated segment, encompassing all Pacific Coast drainages north of the Columbia River in Washington (63 FR 31695). Due to several detrimental factors (including disease, predation, increased stream temperatures, and loss of habitat), bull trout in the coterminous United States (including the Coastal-Puget Sound DPS) were listed as threatened by the USFWS on November 1, 1999 (64 FR 58910). Dolly Varden were not listed as a threatened species in the DPS when the USFWS listed bull trout in November 1999 (64 FR 58910). However, USFWS indicated in January 2001 that Dolly Varden are being considered for listing as threatened due to their similar appearance to bull trout (66 FR 1628).

Critical habitat has been designated for the Coastal-Puget Sound bull trout population (70 FR 56212; September 26, 2005). Portions of the Puyallup River system have been designated, including the Lower Puyallup River and main stem White River (70 FR 56212; September 26, 2005).

Steelhead – Listed as Threatened under ESA: Two steelhead stocks are present in the lower Puyallup River Basin: (1) White (Puyallup) River winter steelhead; (2) Puyallup River winter steelhead. The Puyallup River system steelhead are part of the Puget Sound DPS. The National Marine Fisheries Service announced the listing of the Puget Sound DPS of steelhead as a threatened species under the ESA on May 7, 2007 (70 FR 26722). The listing was published in the Federal Register (FR) on May 11, 2007 and took effect on June 11, 2007. No critical habitat is presently designated for steelhead within the Puget Sound DPS.

2) Is the site part of a migration route? If so, explain.

Yes. The area is used as a migration route by both waterfowl and fish. Waterfowl use Lake Tapps Reservoir as a resting area during their migrations. There are up to eight species of anadromous salmonids that may migrate within or through various reaches of the White and Puyallup River systems. These include populations of coho (*O. kisutch*), Chinook, pink (*O. gorbuscha*), and chum (*O. keta*) salmon, cutthroat trout (*O. clarki*), steelhead, and bull trout and/or Dolly Varden. Sockeye



salmon (*O. nerka*) have occasionally been observed during Washington Department of Fish and Wildlife (WDFW) spawning surveys in South Prairie Creek, a tributary to the Carbon River. However, the origin and extent of a naturally sustaining population in the Puyallup system is unknown (Kerwin, 1999).

Two non-salmonid species may also migrate within reaches of the White and Puyallup rivers. These include the Pacific lamprey (*Lampetra tridentata*) and river lamprey (*L. ayresi*). Of these, the river lamprey may spend its entire life cycle within fresh water, while the Pacific lamprey is anadromous, with adults migrating upstream from salt water into fresh water to spawn.

3) Proposed measures to preserve or enhance wildlife, if any:

Because the Project would not involve land-disturbing activity, it would have no impact on terrestrial species and habitat. No specific mitigation/enhancement measures are proposed that are not already a part of the Project elements related to fish, as described in previous sections. The anticipated effects on aquatic species are discussed in the following paragraphs.

Summary of Project Effects on Fisheries Resources

The effects of the Project on fish resources are summarized below for the White River and Lower Puvallup River.

Lake Tapps Reservoir

In general, the reservoir water level would not change significantly to affect the resident fish species occupying the reservoir.

White River

The Project would result in more flow during the critical low-flow period in the Reservation Reach and Lower White River. This would provide a significant benefit to juvenile salmonid rearing and spring Chinook salmon spawning by increasing the White River flows during the summer and increasing the probability that the White River minimum flows are always met.



Lower Puyallup River

Ecology reported in the 2006 Draft Report of Examination (ROE) on an instream flow incremental methodology (IFIM) modeling analysis for the Puyallup River at RM 7.0 using USGS data and updated default habitat preference curves. Weighted Usable Area (WUA) results for juvenile salmonids indicated peak habitat values at 400 cfs for Chinook and coho and 700 cfs for steelhead. The Lower Puyallup River minimum flows established in WAC 173-510-040 are above these requirements, and the Project would comply with the minimum flows at all times. This indicates that the Project would not significantly affect habitat in the Lower Puyallup River.

6. Energy and Natural Resources

a. What kinds of energy (electric, natural gas, oil, wood stove, solar) will be used to meet the completed project's energy needs? Describe whether it will be used for heating, manufacturing, etc.

None.

1) Would your project affect the potential use of solar energy by adjacent properties? If so, generally describe.

No.

2) What kinds of energy conservation features are included in the plans of this proposal? List other proposed measures to reduce or control energy impacts, if any:

None would be required.

7. Environmental Health

a. Are there any environmental health hazards, including exposure to toxic chemicals, risk of fire and explosion, spill, or hazardous waste, that could occur as a result of this proposal? If so, describe.

No.

1) Describe special emergency services that might be required.

None would be required.

2) Proposed measures to reduce or control environmental health hazards, if any:

None would be required.



1) Noise

1) What types of noise exist in the area which may affect your project (for example: traffic, equipment, operation, other)?

None.

2) What types and levels of noise would be created by or associated with the project on a short-term or a long-term basis (for example: traffic, construction, operation, other)? Indicate what hours noise would come from this site.

None.

3) Proposed measures to reduce or control noise impacts, if any:

None would be required.

8. Land and Shoreline Use

a. What is the current use of the site and adjacent properties?

The Hydroelectric Project and Lake Tapps Reservoir were constructed in the early 1900s. Since the original construction, significant urban, suburban, and light industrial uses have come into existence and now occur in close proximity to the reservoir. Residential development has increased significantly. There is some limited rural residential development along the East Valley Highway to the north and south of the powerhouse, and there are agricultural uses to the east and west of the reservoir. Residential development has been occurring on the south side of the White River in the City of Buckley near the Diversion Dam. The White River Fish Hatchery operated by the Muckleshoot Indian Tribe is on the north side of the Diversion Dam in King County. Land use along the White River is primarily agricultural and residential, but is influenced by increasing amounts of urbanization.

1) Has the site been used for agriculture? If so, describe.

Various parcels of land adjacent to the project area have been used for agricultural purposes, and such use would be unaffected by the Project.

2) Describe any structures on the site.

The existing facilities that would be used to divert and store water include the following:

- A Diversion Dam.
- A Diversion Canal consisting of a canal, settling basins, and two large-diameter concrete pipes.
- A 12-foot-diameter, concrete-lined tunnel.
- Three 96-inch-diameter steel penstocks.



- A powerhouse and hydroelectric generation facilities that are no longer used for power production.
- A 34-foot-wide, 0.5-mile-long Tailrace Canal.
- Several dikes.
- Fish screens.
- Printz Basin backflow prevention structure (Printz Basin is one of the settling basins along the Diversion Canal).
- Utility roads.

3) Will any structures be demolished? If so, what?

No.

4) What is the current zoning classification of the site?

- White River Diversion Dam & Intake Sensitive and Public Institutional (City of Buckley, 2005); RA-10-Rural Area – one Dwelling Unit per 10 acres (King County, 2006)
- Diversion Canal Sensitive and Public Institutional (City of Buckley, 2005); Rural 10, Agricultural Resource Land, Reserve 5, and Moderate Density Single Family (Pierce County, 2007)
- Lake Tapps Reservoir Rural 10, Moderate Density Single Family, and Agricultural Resource Land (Pierce County, 2007); R-1-Residential, R-2 Medium Density, R-3 High Density, and PF Public Facilities (City of Bonney Lake, 2005a)
- Penstock Forebay Moderate Density Single Family (Pierce County, 2007)
- Tailrace Canal M-1 Light Industrial and LDR-12 Lower Density Residential (City of Sumner, 2005a)

5) What is the current comprehensive plan designation of the site?

- White River Diversion Dam and Intake Sensitive and Public Institutional (City of Buckley, 2005); Rural Residential – one Dwelling Unit per 2.5-10 acres (King County, 2006)
- *Diversion Canal* Sensitive and Public Institutional (City of Buckley, 2005); Rural 10, Agricultural Resource Land, and Reserve 5 (Pierce County, 2005)
- Lake Tapps Reservoir Rural 10, Moderate Density Single Family, Neighborhood Center, Agricultural Resource Land (Pierce County, 2005); Single Family Residential, Medium Density Residential, and Conservation/Open Space (City of Bonney Lake, 2005b)



- Penstock Forebay Rural 10 and Moderate Density Single Family (Pierce County, 2005)
- Tailrace Canal Public-Private Utilities and Facilities (City of Sumner, 2005b)

6) If applicable, what is the current shoreline master program designation of the site?

- White River Diversion Dam and Intake Conservancy Environment (City of Buckley, 2007); Resource Zoning (King County, 2007)
- Diversion Canal Not applicable (Pierce County, 2005).
- Lake Tapps Reservoir Rural Residential, Conservancy (Pierce County, 2005)
- Penstock Forebay Not applicable (Pierce County, 2005)
- Tailrace Canal Conservancy at bank of Lower White River (City of Sumner, 2005a)

7) Has any part of the site been classified as an "environmentally sensitive" area? If so, specify.

The following areas are designated as environmentally sensitive areas by Pierce County:

Pierce County Landslide and Erosion Hazard (effective September 16, 2002)

- White River Diversion Dam and Intake No designation.
- Diversion Canal Areas between the Project Diversion Canal, Lake Tapps Reservoir, tailrace, and the White River are designated as greater than 45% landslide/erosion hazard areas; areas immediately north and south of Printz Basin are designated as 15% to 30% landslide/erosion hazard areas.
- Lake Tapps Reservoir The area immediately to the west side of the reservoir is designated as a 15% to 30% landslide/erosion hazard and a small area to the south is designated as 30% to 45% landslide/erosion hazard.
- Penstock Forebay The area surrounding the Penstock Forebay is designated as a 0% to 15% landslide/erosion hazard.
- Tailrace Canal An area east of the Lower White River within the Sumner city limits is designated as greater than a 45% landslide/erosion hazard.

Pierce County Wetland Inventory (effective July 11, 2003)

- White River Diversion Dam and Intake No wetland designation.
- Diversion Canal There are several wetlands along the Diversion Canal, including Printz Basin (one of the settling basins along the Diversion Canal, as noted above).



- Lake Tapps Reservoir The entire reservoir is designated as a wetland, including several of the drainage courses and the reservoir outlet "pond".
- Penstock Forebay There is one small area located near the location of the Penstock Forebay that is designated as a wetland.
- Tailrace Canal There are several small areas located east of the Lower White River that are designated as wetlands.

Pierce County Potential Flood Hazard Map (effective February 23, 2005)

- White River Diversion and Intake The areas immediately upstream and downstream of the White River Diversion Dam are designated as Flood Hazard.
- Diversion Canal Most of the diversion canal is designated as having hydric soils. Printz Basin and a few of the upstream settling basins are designated as Flood Hazard.
- Lake Tapps Reservoir The entire fringe of the reservoir is designated as Flood Hazard. An area immediately north of the reservoir outlet pond is designated as Flood Hazard and having hydric soils. Several areas west and south of the reservoir as well as to the east are designated as having hydric soils.
- 8) Approximately how many people would reside or work in the completed project?

None.

- 9) Approximately how many people would the completed project displace?
 None.
- 10) Proposed measures to avoid or reduce displacement impacts, if any:

None would be required.

11) Proposed measures to ensure the proposal is compatible with existing and projected land uses and plans, if any:

No measures would be needed because there would be no adverse impact on land uses.

9. Housing

a. Approximately how many units would be provided, if any? Indicate whether high, middle, or low-income housing.

None.



1) Approximately how many units, if any, would be eliminated? Indicate whether high, middle, or low-income housing.

None.

2) Proposed measures to reduce or control housing impacts, if any:

None would be required.

10. Aesthetics

a. What is the tallest height of any proposed structure(s), not including antennas; what is the principal exterior building material(s) proposed?

Not applicable.

1) What views in the immediate vicinity would be altered or obstructed?

None. Views of the Lake Tapps Reservoir shoreline vary seasonally.

2) Proposed measures to reduce or control aesthetic impacts, if any:

No measures are necessary.

11. Light and Glare

a. What type of light or glare will the proposal produce? What time of day would it mainly occur?

None.

1) Could light or glare from the finished project be a safety hazard or interfere with views?

No.

2) What existing off-site sources of light or glare may affect your proposal?

None.

3) Proposed measures to reduce or control light and glare impacts, if any:

None would be required.



12. Recreation

a. What designated and informal recreational opportunities are in the immediate vicinity?

Recreational use of the reservoir occurs seasonally, with the heavy public use typically occurring over the 14-week-long summer season from Memorial Day to Labor Day. The Lake Tapps County Park, the Bonney Lake City Park, and the Tapps Island Golf Course provide public recreational opportunities. Nine private parks are located on or near the reservoir.

The historical summer season recreational use of the reservoir consists of boating, swimming, picnicking, fishing, and golfing. In addition, there is fishing and recreation in the White River.

1) Would the proposed project displace any existing recreational uses? If so, describe.

Most of the time, recreation that occurred between Memorial Day and Labor Day would not be impacted by operation of the Project. The degree that recreation would be impacted depends on the unique climate conditions of a particular year.

2) Proposed measures to reduce or control impacts on recreation, including recreation opportunities to be provided by the project or applicant, if any:

See Section A. 11.

13. Historic and Cultural Preservation

a. Are there any places or objects listed on, or proposed for, national, state, or local preservation registers known to be on or next to the site? If so, generally describe.

During the licensing process for the Hydroelectric Project, PSE conducted a cultural resources survey (PSE, 1983). One cultural resource, the historic White River Project System (Historic System), was identified as eligible for inclusion in the National Register of Historic Places. The Historic System contains 35 structures and buildings associated with the former White River Hydroelectric Project (FERC, 1992).

1) Generally describe any landmarks or evidence of historic, archaeological, scientific, or cultural importance known to be on or next to the site.

The project area is situated on lands covered by the Osceola Mudflow which, if penetrated, could damage any archaeological sites located on the original land surface beneath the flow. Additionally, while constructing the new fish screen facility bypass in 1995, a small stone tool-making site was discovered on the bank above the White River. PSE consulted with the State Historic Preservation Office, Muckleshoot Indian Tribe, and the Puyallup Tribe of Indians in determining appropriate actions. No construction is proposed for this phase of the Project; thus, no disturbances would occur.



2) Proposed measures to reduce or control impacts, if any:

Not applicable for this phase of the Project.

14. Transportation

a. Identify public streets and highways serving the site, and describe proposed access to the existing street system. Show on site plans, if any.

Existing roads would not be altered as a result of this phase of the Project.

1) Is site currently served by public transit? If not, what is the approximate distance to the nearest transit stop?

A Pierce Transit Park-and-Ride stop is located along the south side of Lake Tapps Reservoir at Bonney Lake Boulevard and West Tapps Highway. This Park-and-Ride is served by Pierce Transit route number 407. The City of Buckley is served by Pierce Transit route number 406, which runs about 0.5 mile south of the diversion canal along SR 410 (Pierce Transit, 2007). Existing roads would not be altered as a result of this phase of the Project.

2) How many parking spaces would the completed project have? How many would the project eliminate?

None.

3) Will the proposal require any new roads or streets, or improvements to existing roads or streets, not including driveways? If so, generally describe (indicate whether public or private).

No.

4) Will the project use (or occur in the immediate vicinity of) water, rail, or air transportation? If so, generally describe.

No.

5) How many vehicular trips per day would be generated by the completed project? If known, indicate when peak volumes would occur.

Not applicable.

6) Proposed measures to reduce or control transportation impacts, if any:

None would be required.



15. Public Services

a. Would the project result in an increased need for public services (for example: fire protection, police protection, health care, schools, other)? If so, generally describe.

No.

1) Proposed measures to reduce or control direct impacts on public services, if any:

None would be required.

16. Utilities

a. Circle utilities currently available at the site:

electricity, natural gas, water, refuse service, telephone, sanitary sewer, septic system, other.

 Describe the utilities that are proposed for the project, the utility providing the service, and the general construction activities on the site or in the immediate vicinity which might be needed.

None.



C. Signature

The above answers are true and complete to the best of my knowledge. I understand that the lead agency is relying on them to make its decision.

Signature:

Date Submitted:

Jon 30, 2008



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D. Supplemental Sheet for Non-Project Actions

NOT APPLICABLE.

1. How would the proposal be likely to increase discharge to water; emissions to air; production, storage, or release of toxic or hazardous substances; or production of noise?

Proposed measures to avoid or reduce such increases are:

2. How would the proposal be likely to affect plants, animals, fish, or marine life?

Proposed measures to protect or conserve plants, animals, fish, or marine life are:

3. How would the proposal be likely to deplete energy or natural resources?

Proposed measures to protect or conserve energy and natural resources are:

4. How would the proposal be likely to use or affect environmentally sensitive areas or areas designated (or eligible or under study) for governmental protection; such as parks, wilderness, wild and scenic rivers, threatened or endangered species habitat, historic or cultural sites, wetlands, floodplains, or prime farmlands?

Proposed measures to protect such resources or to avoid or reduce impacts are:

5. How would the proposal be likely to affect land and shoreline use, including whether it would allow or encourage land or shoreline uses incompatible with existing plans?

Proposed measures to avoid or reduce shoreline and land use impacts are:

6. How would the proposal be likely to increase demands on transportation or public services and utilities?

Proposed measures to reduce or respond to such demand(s) are:

7. Identify, if possible, whether the proposal may conflict with local, state, or federal laws or requirements for the protection of the environment.



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Appendix A Puget Sound Energy Water Rights Applications



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PERKINS COIE LLP

1110 CAPITOL WAY SOUTH, SUITE 405 - OLYMPIA, WASHINGTON 98501-206 E CELVED
TELEPHONE: 360 956-3300 - FACSIMILE: 360 956-1208

700 JUN 20 AS:47

June 20, 2000

Mr. J. Mike Harris Southwest Regional Office Water Resources Manager Department of Ecology Post Office Box 47775 Olympia, WA 98504-7775 17 hl.h

Re: White River Water Right Application

Dear Mike:

On behalf of Puget Sound Energy, I am filing the enclosed application for a surface water right from the White River. This water right will provide a regional water supply for current and future population needs in the central Puget Sound area. As you know Puget Sound Energy (PSE) has been informally discussing this opportunity with the Department of Ecology over the last year. Because of its current White River Hydropower Project, PSE is in the unique position to provide this public water supply without further impacts during the low stream flows currently being experienced on the Puyallup River. In fact, with the requirement of bypass flows under the new FERC license, PSE will be providing significant flows and environmental enhancement to the White and Puyallup Rivers.

The application provides you with the basic information requested on the form. PSE recognizes that the application is only the filing document and additional information and analysis are necessary to support the standards set forth in the water code for obtaining a water right. PSE has done extensive research and analysis that supports the application, including the important elements of determining the beneficial use of the water and the lack of impairment to existing rights and the instream flows. I discuss these in more detail below. PSE looks forward to reviewing the result of its work with you and your staff. Additionally, PSE will be filing necessary documents under the State Environmental Policy Act (SEPA).

PSE recognizes the Department's desire to have all interests in the basin involved in decisions related to the allocation of water through basin planning. Through its application, PSE is not rejecting basin planning efforts, but wants to remain involved. Because PSE is in a position under its FERC relicensing process to act now on this unique opportunity to obtain a water supply, I have discussed with

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Mr. Harris June 20, 2000 Page 2

your staff the ability to have PSE support basin planning needs through the application itself. If the application is approved, PSE can offer a supply of water that will be a key tool in future planning efforts in the basin. PSE will agree that a limited quantity of water will not be committed until 2006 or when basin plan is adopted and approved by the Department, whichever comes first. If the plan is adopted and approved, the water will be available to address the recommendations of the basin plan for water allocation. We believe that the reasonable quantity of water reserved for basin needs should not exceed 10 cfs.

PSE agrees that a new permit will be conditioned to protect existing water rights and instream flows. PSE is develoing a water management plant that will be implemented as a condition of the permit during that period of time instream flows have historically not been met at the Puyallup gauge. Based on its analysis, PSE has determined that even during low flow periods historically recorded, it can supply the quantity of water it is requesting under the permit without causing any net impact on the instream flows. PSE will utilize Lake Tapps to store sufficient water and when the stream flow at the Puyallup gauge is not meeting minimum flows, PSE will either use water only out of the Lake to satisfy the beneficial uses under the new permit, or for any water diverted under the new permit, PSE will be mitigate one-for-one with water stored in Lake Tapps, causing the drafting of Lake Tapps. In other words, the plan will assure that there will be a beneficial or neutral impact on the White and Puyallup Rivers during the low flow periods to be described in the permit.

PSE also agrees that the water right will be conditioned on an instream flow that is equivelent to the flows that Puget will be required to provide in the bypass under its new FERC license. Further, PSE will agree that as a condition of the new permit, the new water right can only be exercised if PSE is exercising its current hydropower 2000 cfs water right in compliance with the instream flow conditions of the FERC license. The flow requirements will be determined by the requirements of applicable law, but as a going forward assumption, it is expected that different points of view as to the appropriate flows will be resolved through the ongoing Lake Tapps collaborative process.

As I indicate above, the beneficial use element of the application is supported by research and analysis on the demand for current and future regional public water supplies. PSE has been meeting with major regional water purveyors, including the Cities of Seattle and Tacoma. PSE has also had discussions with the Cascade Water Alliance. Based on these discussions, PSE is confident that a new regional water

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Mr. Harris June 20, 2000 Page 3

supply is necessary and supports prudent growth management planning. This is supported by PSE's independent consultant's analysis of public water supply demand.

The preparation of water forecasts is a quantitative tool used to determine the likelihood of a water district or region to meet all the needs of all the users in the future. Within the central Puget Sound Region (Pierce, King, and Snohomish Counties), some regions are unable to meet the current demands placed upon the resource. To help prepare for the future, the central Puget Sound regional water supply purveyors have come together to plan to meet the needs through an array of alternatives and options that will reduce demands and increase supplies. Although no regional water planning authority exists in the central Puget Sound Region, representatives from water suppliers in King, Pierce, and Snohomish Counties are participating in a water supply planning forum and have recently produced Central Puget Sound Regional Supply Outlook Technical Memoranda and Progress Report (Outlook, February 2000). This document, while still in progress, provides a recent compilation and analysis of the regional forecasted water demand.

Forecasted demand published in the Outlook report were analyzed for the two largest water suppliers in King and Pierce Counties: Seattle Public Utilities (SPU) and Tacoma Water (TW), respectively. The population of King County (1.7 million in 2000) is forecast to increase to 2.1 million in 2020. Similarly, the population of Pierce County (0.73 million in 2000) is forecast to increase to 0.94 million in 2020. Considering the combined demand of SPU and TW are about 68% of the demand in King and Pierce Counties, the documentation shows that forecast water demand exceeds available supplies.

PSE will continue to divert water from the White River, subject to the bypass flows, and operate the Project to maintain Lake Tapps. A "viable lake" analysis is being conducted by the Lake Tapps Task Force, and this analysis will likely lead to a viable lake profile that restricts draw downs for revenue generating purposes. Within these parameters, Lake Tapps will be used for storage and release of water to mitigate when necessary any net impacts during low flow periods caused by the diversion of water under the new water right permit.

To allow for the diversion of water from the White River, an amendment to the White River rule is necessary. Currently, the rule provides that when new information is available or conditions have changed within the basin, the rule should be reviewed and amended to address those new conditions. WAC 173-510-100. Puget submits

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Mr. Harris June 20, 2000 Page 4

that the conditions for the new FERC license including the bypass flows, and the necessary changes to the White River Project, meet the standard for amending the rule. A proposed rule amendment will be filed with the Department.

The water right will be conditioned to require Puget or its contract agent (i.e., major basin purveyor) to offer a limited quantity of water authorized under the permit for potential water users in the White River Basin. In addition, PSE will agree, as stated above, to provide a certain quantity of water reserved for future use by persons/entities that, through a future basin planning process, are recommended in the final basin report as candidates for water supply. As I state above, we believe that 10 cfs is a reasonable quantity to reserve for basin needs. This is not, however, to be a limitation on the quantity of water that may eventually be provided to the basin.

The condition on the permits requiring PSE to address the water demands in the White River Basin must be reasonably limited so as to provide the opportunity to purvey the water regionally within a reasonable amount of time. Therefore, this condition must include a schedule that authorizes Puget to sell water regionally if certain time and financial conditions are not met. PSE will work diligently with the Department of Ecology to provide water to resolve the basin needs within a timely process. However, the permit must provide that if the efforts to work with the entities in the basin do not result in an agreement within two years of initiating contact (2006 for adoption of a basin plan), PSE may begin to commit the water to regional purveyors.

I look forward to discussing the application with you in the near future Please do not hesitate to call if you have any questions.

Very truly yours,

Tom Monald

Tom McDonald

TM/sc

cc Ed Schild Markham A. Quehrn

[/00171 003.doc 6/20/00

APPLICATION FOR PERMIT TO APPROPRIATE PUBLIC WATERS OF THE STATE OF SWASHING FOR

washington department of ECOLOGY

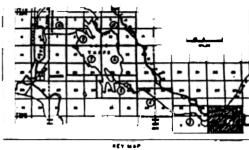
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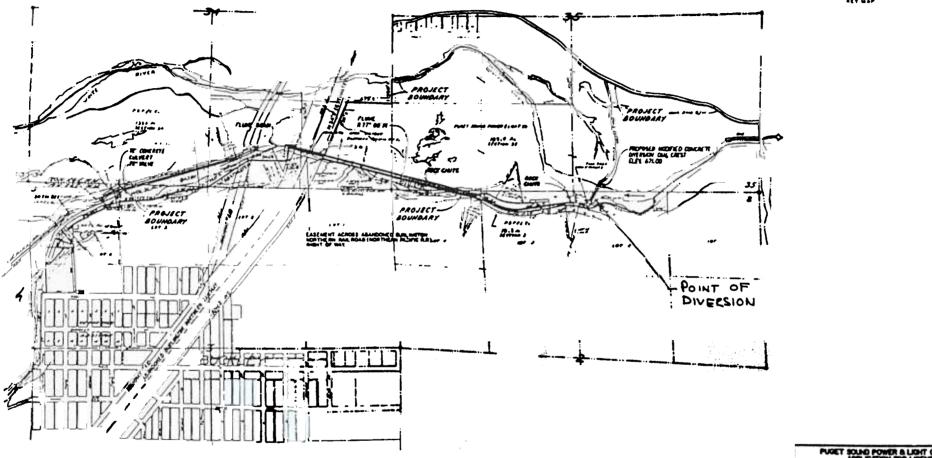
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10.00 MINIMUM STATUTORY EXAMINATION FEE REQUIRED WITH APPLICATION (GRAY BOXES FOR OFFICE USE ONLY)

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| APPLICANT'S NAME-PLEASE PRINT | | | | Bus. Tel. (425) | 462-3022 | |
| PUGET SOUND ENERGY, INC. CONTACT: | EDWARD R. SC | HILD | | Other Tel. (360 | 956-3300_ | |
| ADDRESS (STREET) | | | (CITY) | (STAT | (E) (Z | IP CODE) |
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T.19 & 20H., R. 6 E., W.M. PIERCE CO., WASHINGTON

PROMOTE LINES

HOTHER LINES

PUGET SOUND POWER & LIGHT COMPANY
APPLICATION FOR LICENSE
WHITE RIVER PROJECT
FERC PROJECT NO. 2494

PROJECT BOUNDARY MAP

DOMENT 0-2

Waterright Attachment A June 19, 2000

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EXISTING WHITE RIVER HYDROELECTRIC PROJECT FEATURES L The principal project features necessary to divert and convey water from the White River near Buckley to the place of use consist of both existing (installed) features and proposed features. The proposed features are further subdivided into common features and alternative specific features dependent on which regional supply system interconnection point(s) are ultimately selected. The following description of the system is based on this categorizing of facilities. The project holds a vested yearround water right that pre-dates the state water code of 1917, to divert 2,000 cfs from the White River at the existing diversion dam and intake location. Diverted water flows through a series of lined and unlined canal, pipeline, and basins over a distance of about 8-miles where it flows into Lake Tapps. From Lake Tapps the water is withdrawn via an intake to a one-half-mile-long tunnel and then into penstocks that supply four water turbines. After passing through the turbines, the water flows down a one-half-mile-long tailrace canal and returns to the White River. The reach of White River between the diversion dam and the tailrace canal return is about 23-miles long and is referred to as the "bypass reach" of the White River.

The existing principal project features that the proposed water supply project will Utilize are identified and briefly described here:

Diversion Dam – The dam is 352 feet wide and is comprised of a 4-foot high rock filled timber crib base structure, and 7-foot high flashboards. When installed, the flashboards have a crest elevation of 671 feet mean sea level (finsl).

- Intake The intake is located on the left bank of the river and diverts water from the White River, as ponded behind the diversion dam. The intake is a concrete structure with no over-water operation deck. The intake has no debris rack. Water diversion is regulated by two vertical roller gates located at the down stream end of the intake, just prior water entering the flow line.
- 3. Flume The first 1.1 miles of flowline consists of 2,600 lineal feet of concrete structure followed by 2400 lineal feet of wooden structure. The final section of flume consists of a 900 foot long concrete structure.
- 4. Earthen Canal The next 2.4 miles of flowline are a series of earthern canals and basins (pond-like water bodies).
- 5. Fish Screens & Bypass Pipeline Located within the earthen canal section of the flowline, about 2.5 miles downstream of the intake, is the 2,000 cfs fish screen and fish bypass pipeline. The vertical screen structure was put into service in 1996 and safely screens out all downstream migrating fish transporting them back to the White River via a 3000-foot-long, 31-inch diameter, 20 cfs fish bypass pipeline. Fish removed from the flowline re-enter the river and continue down the bypass reach of the White River at the discharge end of the bypass pipeline.
- 6. Twin Pipelines Twin 10-foot diameter concrete pipelines convey water from a point approximately 3.5 miles downstream of the intake for a distance of 2 miles.
 - Twin Howell Bunger Valves These valves are located at the downstream end of the pipelines and safely break the head in the pipes prior to the release of water into the downstream reach of the flowline.
 - Earthen Canal The remaining 2 miles of flowline is a series of earthen canals and basins that end where the water enters the southeast corner of Lake Tapps.
- 9 Lake Tapps Covering a surface area of roughly 2,700 acres, Lake Tapps is about 4.5 miles long by 2.5 miles wide. Lake Tapps has a storage capacity of 46,700 acresfeet at the normal maximum high pool elevation of 542.2 fmsl, and has a normal minimum low pool elevation of 515 fmsl. Therefore, Lake Tapps has a range of operating level equal to about 28.5 feet, between normal high and normal low pool elevations.

- 10. Tunnel Intake Water exits Lake Tapps through a tunnel intake structure located along the northwest shore of the lake. The bottom of the intake structure is at approximate elevation 490 fmsl and the intake deck is at approximate elevation 544 fmsl.
 - Tunnel Lake Tapps water is conveyed from the intake structure through a 2,842 foot long, 12-foot diameter concrete tunnel to a concrete forebay structure.
- 12. Forebay The 30-foot diameter vertical shaft forebay structure is located near the top of the hill overlooking the White River Valley to the west. The forebay connects the 12-foot diameter tunnel from Lake Tapps to the three penstocks that supply water to the powerhouse located at the base of the hill. The forebay includes 3 slide gates that may be closed to isolate the 3 penstocks from Lake Tapps.

II. PROPOSED NEW WATER SUPPLY SYSTEM FEATURES

Pipeline – A pipeline is proposed to connect the proposed new water supply System to the existing Lake Tapps Project. The connection will be made on the north side of the forebay and convey raw water to a proposed water treatment plant.

- Treatment Plant A water treatment plant is proposed to treat Lake Tapps water
 Potable drinking water standards. This plant is currently planned to be located
 downhill and approximately 500 feet north of the forebay structure.
 Alternate Specific Features
- Regional Inter-connection Points Currently four alternative potential points of Delivery are being examined. These are:

Delivery to Tacoma Water's regional supply system at McMillin Reservoir,

Delivery to Tacoma Water and Seattle Public Utilities' (SPU) regional supply system at the interconnection point of the North Branch of the Second Supply Project (SSP) with Pipeline No. 5 of the SSP;

Delivery to SPU's regional supply system at the north end of Lake Youngs;

Delivery to SPU's regional supply system serving the recently formed Cascade Water Alliance (CWA) near the site of the Eastside Reservoir.

- 4 Pipelines Large, regional transmission pipelines are required to convey finished Water from the treatment plant near Lake Tapps to any of the potential points of delivery. These pipelines could range in diameter from 48-inches to 60-inches or larger, depending on delivery location(s).
- 5. Pump Stations- Due to the elevation of Lake Tapps relative to the potential points delivery, and the long distances required for water conveyance, booster pump stations will be required at various points along the pipeline alignments. The necessary pump station size ranges from 2.7 megawatt to 4.7 megawatt, depending on delivery location, alignment, and pipeline diameter.

PERKINS COIE LLP

1110 CAPITOL WAY SOUTH, SUITE 405 - OLYMPIA, WASHINGTON 98501-2251 TELEPHONE: 360 956-3300 - FACSIMILE: 360 956-1208

September 12, 2000

Mr. J. Mike Harris
Department of Ecology
S.W. Regional Office
P.O. Box 47775
Olympia, WA 98504-7775

Re: Water Right Applications for the Lake Tapps Reservoir

Dear Mike

Enclosed please find two additional applications for the proposal described in Application No. S2-29921. I am also enclosing two documents that provide necessary information for processing the applications. These applications and documents supplement the information necessary for the Department to commence review of Puget Sound Energy's proposal to divert water from the reservoir for public water supply purposes.

The enclosed application for a reservoir permit is to allow for an additional right to store water in Lake Tapps for the water diverted for municipal/public water supply purposes under Application No. S2-29921. This right would be in addition to and not in derogation of PSE's existing storage right. As proposed, the additional use of the reservoir for municipal supply will not increase the maximum storage level (545 msl). As with the Water Right Application No. S2-29921, this application is made with a full reservation of rights as to PSE's existing diversion and storage rights

The application for the secondary permit is filed to authorize the diversion of water from Lake Tapps reservoir for delivery to a treatment facility for use by the contracted purveyors of the water. PSE is currently in discussions with several purveyors that would be expected to be purveying the water subject to the terms of the permits.

The enclosed documents include a memorandum report by HDR Engineering Inc. that summarizes the water demand for municipal/public water supply in King and Pierce Counties. This report substantiates the need for and the expected beneficial

[00256 004 doc]

Mr. J. Mike Harris September 13, 2000 Page 2

use of the water within the area described in the application. Attached to this report are preliminary figures and engineering plans depicting options for the diversion, processing, and delivery of the water. The second report is the Lake Tapps Reservoir Water Management Plan, which describes how the diversion and storage of water will be managed to enhance instream flows in the White and Puyallup Rivers.

Please do not hesitate to call if you have any questions.

Very truly yours,

for Tom McDonald

TM:no

Enclosures

CC:

Sue Mauermann Mark Quehrn Ed Schild Jill Walsh

PETITION FOR ADOPTION, AMENDMENT, OR REPEAL OF A STATE ADMINISTRATIVE RULE (RCW 34.05.330)

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Attachment A

The Petition to amend WAC 173.510 is being filed to allow the Lake Tapps reservoir to be developed as a source of municipal and public water supply. The rule change is necessary to allow an application for a much needed regional resource of water to be considered by the Washington State Department of Ecology ("Ecology"). This petition is being filed to reflect the significant changes that are occurring in the White River Basin and is supported and offered pursuant to the specific language of the existing rule that provides:

The Department of Ecology shall initiate a review of the rules established in this chapter whenever new information, changing conditions, or statutory modifications make it necessary to consider revisions. WAC 173-510-100.

In 1980, Ecology adopted the Puyallup River Basin Instream Flow Management Plan that provided for the allocation and management of water in the Puyallup River Basin. WAC 173-510. The Puyallup River Basin has been designated Water Resource Inventory Area (WRIA) 10. WAC 173-500. Based on the information at the time the rule was adopted Ecology determined minimum levels of instream flows for the rivers and streams in WRIA 10. These flows were established by Ecology to protect, as it saw appropriate, these instream flow values.

Having decided that many of the streams were experiencing such low flows, Ecology decided to simply "close" these streams from further appropriations. Specifically, the rule states:

The Department, having determined that further consumptive or appropriations would harmfully impact instream values, closes the following streams and lakes in WRIA 10 to further consumptive appropriations. WAC 173-510-040(3).

The White River is "closed" under the rule

Since the early 1900's PSE has exercised a pre-code water right to divert up to 2000 cubic feet per second (cfs) of water from the White River, store water in the Lake Tapps reservoir, and eventually run the water through a power house, and return the water back into the White River. Between the point of diversion and the point of discharge back to the White River, there exists a "by-pass" reach of the river of over 20 miles. It has been Ecology's position that this by-pass reach has insufficient flow to allow further appropriation.

A FERC license was issued in December of 1997 for the Project, a license which PSE has not accepted. Among other things, the license would require PSE to adjust its diversion, and provide more flows in the by-pass reach. These flows will, according to

federal and state resource agencies, enhance the fishery resource and the instream flow values. This change also creates circumstances justifying consideration of amending the rule related to the White River.

The petition does not however request that the closure on the White River be repealed, although this is an option. Rather, this petition requests a rule change that would allow for Ecology to consider water right applications for the use of water in "closed basins" if the applicant can support the application with evidence that the proposed project would provide substantial environmental enhancement to the Basin or support a comprehensive regional public water supply, and under no circumstances would cause additional impairment to the river during times that the flows are currently known not to meet the minimum flows established for the Puyallup River. This rule amendment will therefore recognize the purpose of the rules and meet the intent of a "closure" in the Puyallup River Basin, and will also provide Ecology with the flexibility to consider applications that, while not causing additional impairment to the instream flows during low flow times, will provide enhancement of the environmental resources or support a regional public water supply. Processing applications under this standard is consistent with the Basin planning adopted by the legislature in Chapter 90.54 RCW. See RCW 90.54.020(2), (3), (5) and (7).

The petitioner's suggest the following amendment to Chapter 173-510.

Insert at WAC 173-510-040 the following:

(4) Notwithstanding the closures set forth in subsections (2) and (3) of this section, the department shall process applications for the appropriation of water from surface waters and ground waters affected by such closures if the applications propose a project and use of water that: (a) will not cause any additional impact to the instream flows established for the Puyallup River at a time when the Puyallup River is not meeting the minimum flows set forth in subsection (1) of this section; and (b) will substantially enhance the quality of the natural environment or will result in providing public water supplies to meet the general needs of the public for regional areas.

We believe that the standards set forth in the proposed amendment are consistent with the criteria that Ecology has included in current rules that allow for expediting applications. See WAC 173-152 (the Hillis Rule) and WAC 173-532 (the Walla Walla Rule). Both of these rules have allowed Ecology the flexibility to prioritize the processing of competing applications if the project would "substantially enhance or protect the quality of the natural environment" or "would result in providing public water supplies to meet the general needs of the public for regional areas." See WAC 173-152-050(3).

Washington state
Department of
ECOLOGY

State of Washington Application for a Water Right



Please follow the attached instructions to avoid unnecessary delays.

SECONDARY PERMIT APPLICATION FOR RESERVOIR PERMIT APPLICATION FOR LAKE TAPPS FOR APPROPRIATION FROM WHITE RIVER—SEE APPLICATION NO. S2-29921

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| Lake Tai Number Source is White R | pps Reserved of diversion clows into (notiver | Free Scott | of water) | Reservoir, | A permit is do Size and dept | esired for h of well(s) s S2-29921 and Lot | well(s | ent A hereto |

| Sq. | HAR CHARLAN WATER SYSTEM MEDIANA TO THE TRANSPORT OF THE PROPERTY OF THE PROPE |
|--------------|--|
| A. | Name of system, if named: |
| | Briefly describe your proposed water system. (See instructions.) |
| See | Application No. S2-29921 |
| C. | Do you already have any water rights or claims associated with this property or system? YES NO PROVIDE DOCUMENTATION. |
| pur all I | Application No. S2-29921. Puget Sound Energy has a Water Right Claim No. 160322; the current water veyors including the municipalities within Pierce, King, and southern portions of Snohomish Counties have existing water rights as provided in their water system plans on file with the Department of Ecology. Is application is made with a full reservation of rights as to PSE's existing diversion and storage rights. |
| See U o | nan (a. DIOMESTIC PUBLIC WATER SUPPLY SYSTEM INTORMATION nadenai na ali elapente public supply atem) |
| A. | Number of "connections" requested: Type of connection: |
| _ | See Application No. S2-29921 and supporting documentation on demand analysis. |
| B. | Are you within the area of an approved water system? N/A YES NO |
| | If yes, explain why you are unable to connect to the system. As stated in the application S2-29921 and supporting documents, this water supply will be a regional water supply. |
| 1 | nplete C. and D. only if the proposed water system will have fifteen or more connections. |
| C. | Do you have a current water system plan approved by the Washington State Department of Health? If yes, when was it approved? Prospective purveyors of the water will have approved plans. Please attach the current approved version of your plan. |
| D. | Do you have an approved conservation plan? If yes, when was it approved? See C., above. Please attach the current approved version of your plan. |
| | tion 7. littlingAutOkyAcptictoji. hitjitasi. neAthii strotemvatilos nudletad po all inaugemaa and (4500 ultina neas) |
| A. | Total number of acres to be irrigated:N/A |
| В. | List total number of acres for other specified agricultural uses: |
| | Use Acres Use Acres Use Acres |
| C | Total number of acres to be covered by this application: |
| D. | Family Farm Act (Initiative Measure Number 59, November 3, 1977) Add up the acreage in which you have a controlling interest, including only: I Acreage irrigated under water rights acquired after December 8, 1977; I Acreage proposed to be irrigated under this application; I Acreage proposed to be irrigated under other pending application(s). |
| | 1. Is the combined acreage greater than 2000 acres? 2. Do you have a controlling interest in a Family Farm Development Permit? If yes, enter permit no.: YES NO YES NO |
| | Farm uses: Stockwater - Total # of animals Animal Type (If dairy cattle, see below) Dairy # Milking # Non-Milking |

| | ON88 WATERSTORAGE STATES | 建筑和水平区域 | 建设建设工程 |
|-------------------------|--|--|---|
| Wil | I you be using a dam, dike, or other structure to retain or st | ore water? | ✓ YES □ NO |
| the a | TE: If you will be storing 10 acre-feet or more of water and/or deepest point; and some portion of the storage will be above grait. You can get a reservoir permit application from the Depar | ade, you must also a | ill be 10 feet or more at apply for a reservoir |
| This Whi | application is being filed with a reservoir permit application and te River, Application No. S2-29921. | l an application to a | ppropriate from the |
| জন্ত | (ion 9) Digityristic idirectionsis | And the state of t | |
| Prov | vide detailed driving instructions to the project site: | | |
| | ause of the size and scope of the project, specific driving tact Mr. Schild's office for instructions to the particular l | | |
| Sec | ijon no regolurreid maid | | ing that the south |
| A. | See Attachment A of Application for storage permit. | on and one on the same of the same of the | Sufficiency of Character against Supply |
| | | | |
| Sec | non hu pikkopiarany (okyraniryana | and the second | |
| A. | Does the applicant own the land on which the water will | be used? | ☐ YES⊠ NO |
| | If no, explain the applicant's interest in the place of use and proowner(s): | | |
| | See Application S2-29921 and supporting documents. | | |
| | | | |
| В. | Does the applicant own the land on which the water source is If no, submit a copy of agreement: | ocated: | ⊠ YES □ NO |
| I cerundacce | Does the applicant own the land on which the water source is | the best of my knowstaff from the Delven though I may f the Department me. | wledge. I partment of Ecology have been assisted in |
| I cerund accethe resp | Does the applicant own the land on which the water source is If no, submit a copy of agreement: retify that the information above is true and accurate to erstand that in order to process my application, I grant ess to the site for inspection and monitoring purposes. Expreparation of the above application by the employees of the information rests with | the best of my knostaff from the Delven though I may f the Department me. | wledge. I partment of Ecology have been assisted in |
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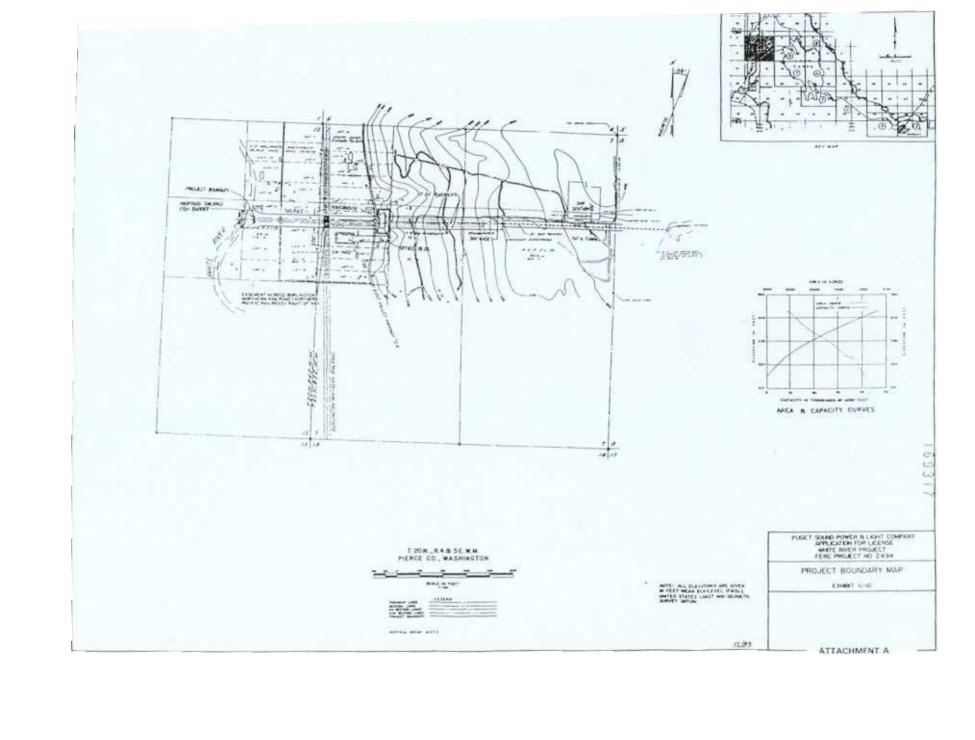
Use this page to continue your answers to any questions on the application. Please indicate section number before answer.

| We are returning your children for the transfer and children for the control of t | and the second of the second o |
|--|--|
| | APPLICANT PLEASE RETURN TO THE APPROPRIATE REGIONAL OFFICE |
| Explanation: Please provide the additional information | n requested above and return your application by (date). |

Ecology is an Equal Opportunity and Affirmative Action employer.

To receive this document in alternate format, contact the Water Resources Program at (360) 407-6604 (Voice) or (360) 407-6006 (TDD).

Ecology staff _____ Date ____



STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

APPLICATION FOR PERMIT TO CONSTRUCT A RESERVOIR AND TO STORE FOR BENEFICIAL USE WATERS OF THE STATE OF WASHINGTON

\$10.00 MINIMUM STATUTORY FILING FEE REQUIRED WITH APPLICATION
(GRAY BOXES FOR OFFICE USE ONLY)

| APPLICANT'S NAME Puget Sound Energy Inc. Contact: Edward DATE AND PLACE OF INCORPORATION, I 9/12/60 State of Washington Successor is | SAN SECTION | | Color of the Color | 国民公共政 自然共享的经济的关系 | The room of |
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| DATE AND PLACE OF INCORPORATION, I | d B. Sobild | | | 425-462-3022 | |
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| | SOURCE US | SE AND CAPACITY | | | |
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| Lake Tappe Reservelt (existing) | | | | | |
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| SEE ATTACHMENT A | | | SEE ATTACHMENT A | | | |
| HEIGHT OF DAM ABOVE WATER LINE A | AT MAXIMUM FLOOD F | 1 | ■ | | | |
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| rest elevations in the Lake Tapps Reser | rvoir Embankment Char | | | to FERC's exclusive jurisdiction; dike salety is | | |
| egulated by FERC pursuant to 18 CFR 1 | i 12. | | | | | |
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| There is no spillway at Lake Tappa Rese | ervoir because it is an o | off channel stores | e project with controlled injet. | | | |
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Lake Tapps Embankment Characteristics

| Dike Numbe r | Washington ID Number | Crest Elevation (ft) | Base Elevation (ft) | Embank- ment Height (ft) | Embank- ment Width (ft) | Crest Length (ft) |
|--------------------|-------------------------|----------------------------|---------------------------|-----------------------------------|----------------------------------|-------------------------|
| E | WA418 | 550.8 | 533.0 | 17.8 | 47 | 200 |
| 2A | WA419 | 545.5 | 534.0 | | | 350 |
| 2B | WA420 | 547.1 | 530.7 | | | 300 |
| 3 | WA421 | | 530.3 | | | 500 |
| 4 | WA296 | | | | | 4000 |
| 5 | WA422 | | | | 55 | 500 |
| 6 | WA423 | | 519.5 | 26.1 | 51 | 500 |
| 7 | WA435 | 546.2 | 540.0 | 6,2 | 52 | 200 |
| 8 | WA424 | 545.9 | 525.8 | 20.1 | 55 | 350 |
| 9 | WA425 | 545.8 | 530.6 | 15.2 | 55 | 200 |
| 10 | WA426 | 546.0 | 526.6 | 19.4 | 48 | 700 |
| 11 | WA427 | 545.4 | 522.8 | 22.6 | 53 | 1500 |
| 12 | WA428 | 545.0 | 531.1 | 13.9 | 42 | 1250 |
| 13 | WA429 | 547.0 | 539.3 | 7.7 | 20 | 350 |
| | WA430 | 547.2 | 524.0 | 23.2 | 74 | 1450 |
| | WA431 | 547.4 | 524.0 | 23.4 | 53 | 1500 |

Currently, Wolslegal and Dingle Basins are actively worked for sediment removal. Sediment removed from the basins is stockpiled adjacent to the canal. Stockpiled sediment at Wolslegal Basin is sold for commercial and residential uses.

The dike adjacent to Wolslegal and Wickersham Basins is approximately 2,500 feet long and is oriented roughly east-west. The crest of the dike is at elevation 668 to 673 fmsl with a width of 20 to 25 feet. The outboard slope of the dike is at an angle of approximately 35 degrees down to the toe which is at an elevation of approximately 635 to 645 fmsl. The inboard dike slope angles between 35 to 45 degrees down to the canal. The dike fill material is reported to be loose to very loose silty sand with some gravels and cobbles, and founded on alluvium and mudflow deposits (Woodward-Clyde 1995).

A concrete lined rock chute is also present at Wolslegal Basin. This chute consists of a 72-inch-diameter concrete intake conduit that discharges to a concrete spillway.

The dike adjacent to McHugh Basin is approximately 1,400 feet long and is oriented roughly southeasterly. The crest of the dike is at elevation 668 to 670 fmsl with a width of 35 to 45 feet. The outboard slope of the dike is at an angle of approximately 35 to 50 degrees. The inboard dike slope angles between 20 to 40 degrees down to the canal. The dike fill material is reported to be loose to very loose silty and clayey sands with gravels and cobbles, and founded on alluvium and mudflow deposits (Woodward-Clyde 1995).

Printz Basin

Printz Basin is located between Lake Tapps and the buried pipeline and was constructed as the final sedimentation basin in the flowline. Two dikes (Dikes 14 and 15) are located on the basin. The Printz Basin Dikes are comprised primarily of two dike fill materials. The upper dike fill is very loose to loose fine sand with silt to silty sand. The lower dike fill is primarily very loose to loose gravelly fine to coarse silty sand. Dike dimensions are listed on Table II-1.

Lake Tapps Dikes

Lake Tapps is impounded by a series of 13 dikes ranging in length from a few hundred to a few thousand feet and from a few feet in height up to 40 feet. The lake, once a series of smaller lakes (including Lake Tapps, Lake Kirtley, Crawford Lake, and Church Lake), was created by the construction of the dikes and the diversion of water from the White River into the reservoir. Lake Tapps is approximately 4.5 miles long and 2.5 miles wide. The lake has an area of 2,700 acres and a storage capacity of 46,700 acre-feet at normal maximum pool elevation (543 feet fmsl) (Puget Power 1983b). The main outlet of the

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reservoir is through a 12-foot-diameter, concrete lined tunnel that leads to a forebay from which penstocks divert flow through the White River powerhouse.

As previously discussed, there are 13 dikes that impound the reservoir. The dikes contain approximately 600,000 cubic yards of material (Puget Power 1983a). Documentation developed during the construction of the dikes indicate that the topsoil was first stripped to the impervious strata (till) beneath each dike. Steam rollers were then used to prepare the foundation. Fill material, consisting of cemented gravels obtained from nearby excavations, was transported to the site by dump cars on railway trestles. Large scrapers and donkey engines were then used for placement of the fill.

The dikes were then finished using horse-drawn slip scrapers and wheelers. Initial design specifications required that the dikes have a minimum crest width of 40 feet, upstream slopes of 2.5 horizontal to 1 vertical, and downstream slopes of 2 horizontal to 1 vertical. Subsequent field investigations conducted by Ebasco Services Incorporated in 1983 (Puget Power 1993) and Squire Associates (Appendix D) have further defined the characteristics of each dike. The dike fill material typically consists of loose to medium dense silty sandy gravel with silt or clay. The dike dimensions are included in Table II-1.

B. SPILLWAY

The Diversion Dam is essentially a continuous spillway and is described in Section IIA. There are no other spillway structures on Lake Tapps. Discharge of flow from Lake Tapps if the powerhouse is out of service can be accomplished using four 16-inch penstock drain valves.

C. POWERHOUSE

The concrete powerhouse building is 85 feet wide, 225 feet long, and 55 feet high

The initial two-unit development at the powerhouse was completed in 1911 and produced 25.000 kVA. The capacity was increased by 7.600 kVA in 1917 by rewinding the existing two units. A third 20,000-kVA unit was added in 1924. An increase of 5,000 kVA was accomplished in 1952 and 1956 by rewinding units 3 and 4, respectively, thus giving a total rated capacity of 25,000 kVA for each unit. The present rated generator capacity is 82.600 kVA. Each generator is directly connected to a single horizontal Francis-type turbine that operates 360 revolutions per minute (RPM) (Puget Power 1983b).

A conduit for collection of downstream migrants is provided and extends the entire length of the fish screens. Downstream migrants enter into the conduit and pass through a 2.0 foot diameter pipeline which discharges into a bypass channel that returns the fish to the White River. The downstream migrants enter the conduit, thus bypassing the Lake Tapps reservoir, and the powerhouse.

A gravity operated emergency gate at the fish screens is located in the south bank of the flowline. This gate is tripped automatically by differential water pressure if the screens become clogged by debris. In case of a trip, an alarm carried over telephone wires is sounded in the powerhouse.

2.2.5 Timber Lined Canal

The canal between Dingle and Printz Basins, the last basin in the flowline, is an 18,600-foot long canal of which 11,800 feet is timber lined. The cross section of the lined portion is rectangular with dimensions of 26 feet in width and 7 feet in depth.

2.6 <u>Unlined Canal</u>

From Printz Basin, an unlined canal approximately 2,600 feet long conveys flows to Lake Tapps. Typically, the unlined canal is 13 feet deep and 74 feet wide (measured across the top) and is parabolic in cross section. Flow depth and width vary with Lake Tapps elevations

2.3 Existing Project Reservoir - Lake Tapps

Lake Tapps serves as the reservoir for the Project. It is approximately 4.5 miles long and 2.5 miles wide. Water diverted from the White River through the diversion system previously described flows into the lake at the south end. The main outlet from the lake is through the White River Powerplant. This outlet, located on the northwestern side of the lake, begins as a 12-foot-diameter, concrete-lined tunnel that leads to a forebay from which the penstocks extend. The only other outlet from the lake is a 2-foot-diameter pipe which is used to satisfy a 1 cfs downstream water right, but which can discharge 5 to 10 cfs if fully opened. The reservoir has no spillway.

Lake Tapps originally consisted of several natural lakes; Lake Tapps, Lake Kirtley, Crawford Lake, and Church Lake. By constructing earthen dikes totalling two and one half miles in length, the water level was raised 35 feet above the original elevation. This created the present reservoir, Lake Tapps, having a surface area of approximately 2,700 acres and an active storage capacity of approximately 46,700 acre-feet at normal maximum pool elevation 543 fmsl. The active storage is based on normal minimum pool elevation 515 fmsl.

2.4 Existing Tunnel

2.4.1 Tunnel Intake

The portal to the main tunnel at the outlet of Lake Tapps reservoir is screened with a vertical rack bar screen. 50 feet high and 4 feet wide. The ball are provided with motor operated cleaning devices divided into six separate bays with selective clutches. Debris is deposited on the tunnel intake deck and disposed of manually.

The tunnel entrance is provided with a Stoney gate, 12.5 feet high by 12 feet wide. A 24 inch square Stoney bypass gate is provided in the face of the main gate for filling the tunnel. The main gate and the auxiliary gate are motor operated. Vertical air shafts lead from the gate house to the tunnel in back of the gate for venting during the closing of the main gate.

2.4.2 Tunnel Structure

The concrete lined tunnel, located on the northwest shore of the reservoir, is 12 feet in diameter and 2,842 feet in length. The invert elevation is 490 fmsl at the tunnel intake and drops to elevation 477 fmsl at the forebay well.

2.5 Existing Forebay and Penstock

The forebay well, 30 feet in diameter and 73 feet deep, is located at the brow of the hill above the powerhouse. A collection basin is provided at the top of the forebay well to accept surges at this point.

Three 96-inch diameter steel penstocks, each controlled by a 96-inch diameter standard Coffin sluice gate, direct the flow from the west side of the forebay well to the powerhouse below. Three of the penstocks are 2,135 feet long. Just below the forebay, two of the penstocks are tapped forming a supply to a fourth penstock, which is 1,791 feet long. Two 84-inch diameter butterfly valves control the flow into the fourth penstock. These valves and the sluice gates are motor operated either locally from the gatehouse or remotely from the powerhouse control panels.

2.6 Existing Powerhouse

The concrete powerhouse building is 85 feet wide, 225 feet long and 55 feet high.

The initial two unit development at the powerhouse was completed in 1911 and produced 25,000 kVA. The capacity was increas by ,,600 kVA in 1917 by rewinding the existing two units. A third 20,000 kVA unit was installed in 1918, and a fourth 20,000 kVA unit was added in 1924. An increase of 5,000 kVA was accomplished in 1952 and 1956 by rewinding units 3 and 4, respectively, thus giving a total rated capacity of 25,000 kVA for each unit. The present rated generator capacity is 82,600 kVA. Each generator is directly connected to a single horizontal Francis-type turbine that operates at 360 revolutions per minute (RPM).

2.6.1 Hydraulic Turbines

The powerhouse contains four reaction-type horizontal shaft turbines that operate at 360 RPM. Units 1 and 2 are rated at 18.000 HP and Units 3 and 4 are rated at 23,000 HP. Speed is controlled by four gate shaft type governors, the oil pressure being supplied by individual 50 gallon per minute (GPM) governor oil pumps. Each unit is provided with a 30 inch relief valve discharging water from the scroll cases into the tailrace in case of a sudden closing of the gates. Four 78 inch motor operated butterfly valves are located just upstream from the turbines. Two 8 inch bypass valves, one hydraulically operated and the other manually operated, are used to equalize the water pressure during the operation of each butterfly valve.

-2 2

Large supplies of ground water are available from the post-glacial alluvium deposited in the lower White River valley. Yields of 500-1,500 gpm are typical for wells in the flood plain alluvium along the White River. In the Auburn area, exceedingly high yields in excess of 1,500 gpm can be obtained from wells tapping the deeper alluvium.

Although substantial ground water resources are present in the Project area, the actual utilization of this resource is confined primarily to the larger community systems due to economic considerations. The presence of the Osceola mud flow over much of the area generally necessitates well depths of 200 feet or more for reliable supplies. addition, state policies generally favor development of areawide water supply systems in order to assure good water quality control. In the Lake Tapps area, this has resulted in a number of former individual wells being relegated to non-potable uses, such as lawn irrigation, with potable water supplies being imported from the larger adjoining water districts and communities, such as Bonney Lake. the extent that the larger communities are dependent on ground water, they tap the more productive and deeper aquifers along the Lower White, Green or Puyallup valleys. For example, the cities of Sumner and Puyallup both utilize Salmon Springs 1 mile northeast of Sumner for municipal The city of Auburn's utilization of Coal Creek Springs, with a yield of 4,200 gpm (Luzier, 1969), has eliminated what was formerly a highly productive salmon stream tributary to the lower White River. The city of Enumclaw utilizes Boise Creek Springs, 600-1,000 gpm, and Watercress Springs, 800 gpm (Luzier, 1969). In many instances, the larger communities are in part dependent on imported purveyed water supplies, either as a primary source or as backup.

The continued operation of the White River Project should not alter the viability of these existing ground water supplies. Indeed, insofar as leakage from Lake Tapps supports the discharge at nearby Salmon Springs, the continued diversion of water enhances existing ground water supplies.

2.4 Existing Water Uses and Project Water Rights

Instream uses of water in the vicinity of the Project include power production, fish and wildlife, recreation, aesthetics, and stock watering. Power production occurs at the Project's Dieringer power plant at the present time. Under this license additional power production will occur on the Project flow line as well. The assimilative capacity of

the surface waters of Boise Creek and the White River below the diversion dam is also used for the disposal of treated municipal and industrial waste discharges. In addition to the aforementioned instream uses, surface waters in the Project area are diverted and utilized for irrigation, stock watering, and domestic, municipal and industrial water supplies (WDOE, 1980).

For the White River Project, Puget holds a vested yeararound water right claim to 2,000 cfs from the White River at the current point of diversion, within the NE 1/4 of the SW 1/4, Section 25, T. 20 N., R. 7 E. The right is based on claims dated April 17, 1895; April 27, 1901; and from the adjudicated Pacific Coast Power Company vs. Quilquilion, dated April 13, 1910. Puget Power, or its predecessors, has, since 1911, consistently diverted this amount of water, subject to the availability, passing 30 cfs, which is required to be released downstream at all times under terms of the April 13, 1910, Pierce County Superior Court decree (No. 28120). This claim for riparian and water rights was acquired prior to the State of Washington Water Code of June 15, 1917. This water rights claim was registered in June, 1974, and was assigned a water right claim #160822 by the State of Washington Department of Ecology.

Other water rights held in connection with the Project include a registered water rights claim (#160812) to divert an average of 43 gpm from an unnamed spring in the NE 1/4 SW 1/4, Section 7, T. 20 N., R. 5 E. This water is used for domestic water for the power plant and three Company houses owned by Puget Power. The Company also claims rights for water storage in Lake Tapps in the amount of 46,700 acrefeet. The basis for this storage right is under claims dating to October 30, 1902; November 3, 1902; and August 3, 1909, and riparian and property rights acquired prior to the establishment of the state water code of June 15, 1917. Under this claim, a valved release of 1 cfs is provided from Lake Tapps to a former outlet stream to provide water for stock watering and irrigation.

Puget Power makes no other consumptive use of the Project waters; however, unregistered usage of the waters of Lake Tapps for lawn and garden watering is known to occur, and shallow wells along the 47 miles of lakeshore may draw more or less directly from the lake. Since much of the water so used is returned to the lake, no attempt has been made to quantify any consumptive water loss due to this usage. A water budget for Lake Tapps suggests that between 1963 and 1981, the average outflow from the reservoir at 949 cfs exceeded the measured canal inflow by 37 cfs. Thus,



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Appendix B Cascade Recommended Flow Regime



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A. Defined Terms for the Recommended Flow Regime

- "Buckley Gage" shall mean U.S. Geological Service ("USGS") streamflow station
 No. 12099200 White River above Boise Creek at Buckley, WA, or any other USGS streamflow station subsequently designated by agreement of the Parties.
- "Control Date" shall mean the date upon which the transaction between Cascade and PSE closes or the date upon which Cascade becomes the Operator as defined in Section A.8, whichever occurs first.
- 3. "Fall Drawdown" shall mean the reduction of the level of Lake Tapps Reservoir in the fall to expose portions of the lake bed for the purpose of preventing macrophyte growth or for the purpose of conducting maintenance at Lake Tapps Reservoir and/or Associated Facilities.
- 4. "Lake Tapps Reservoir" means the waters and the real property below 545 feet msl, more particularly described in the recorded Deed No. 1686523 executed on June 22, 1954, by Grantor, Puget Sound Power & Light Company for the benefit of Grantee, the Lake Tapps Development Co., Inc., and recorded at Pages 485-495 of Volume 1063, Office of County Auditor for Pierce County, Washington ("1954 Deed").
- 5. "Mean Sea Level" or "msl" when used herein refers to the elevation of Lake Tapps Reservoir above the mean sea level established by the National Geodetic Vertical Datum of 1929.
- 6. "Minimum Flow" or "MF" means the minimum streamflow as measured at the Buckley Gage below which Cascade will not cause the White River to fall as the result of diversions from the White River into Lake Tapps Reservoir.
- 7. "Normal Full Pool" means a water level at Lake Tapps Reservoir between 541.5 msl and 543 msl, as measured at USGS reservoir gaging station No. 12101000, or any other USGS reservoir gaging station subsequently designated by the Parties.
- 8. "Operator" means Cascade and/or a Qualified Operator as defined in Section A.9. Cascade shall remain responsible for implementing all of its obligations under this Agreement, notwithstanding any contract into which it may enter for operation of some or all the Project.
- 9. "Qualified Operator" shall mean PSE, the United States Army Corps of Engineers, or another entity that is reasonably qualified to operate the Diversion Dam.
- 10. "Ramping Rate" is the rate of change in River Stage, measured in inches per hour, at which the White River water elevation rises or lowers in response to changes in the quantity of water diverted into Lake Tapps or discharged from Lake Tapps through the Tailrace.
- 11. "Recommended Flow Regime" refers collectively to the Minimum Flows, the Diversion Optimization Plan and the Ramping Rate established in Sections B. 2 B.3 of this Agreement.



- 12. "Spring Refill" shall mean the late winter or early spring refill of Lake Tapps Reservoir to Target Elevations.
- 13. "Tailrace" means the canal through which water from Lake Tapps is discharged into the White River.
- 14. "Target Elevations" means the target surface water elevation of Lake Tapps Reservoir established under Section B.5. and measured at USGS reservoir station No. 12101000, or any other USGS gaging station subsequently designated by agreement of the Parties.

B. Recommended Flow Regime

 Cascade shall divert water and/or contract with a Qualified Operator to divert water from the White River into Lake Tapps Reservoir in accordance with the Diversion Optimization Plan in Section B.3 and the Ramping Rates in Section B.4 to achieve or exceed the Minimum Flows in Section B.2.

2. Minimum Flows.

Water may be diverted from the White River to Lake Tapps Reservoir if and only if the diversion does not reduce the instream flow of the White River (measured at the Buckley Gage) below the Minimum Flows (MF) established by the Minimum Flow Table set out below (Table B-1). Notwithstanding the foregoing, to avoid stranding fish in the diversion canal between the headgate and fishscreens, Cascade may divert up to 20 cfs of water from the headgate and through the fishscreens during those periods of time that the flow is below the MF, set out in Table B-1, due to natural flow conditions.

Table B-1: Minimum Flow

| Time Period | Minimum Flows ("MF") | Time Period | Minimum Flows ("MF") |
|----------------|----------------------|-----------------|----------------------|
| January 1-14 | 650 cfs | July 1-23 | 800 cfs |
| January 15-31 | 525 cfs | July 24-31 | 650 cfs |
| February 1-14 | 550 cfs | August 1-6 | 650 cfs |
| February 15-29 | 500 cfs | August 7-31 | 500 cfs |
| March 1-14 | 550 cfs | September 1-14 | 500 cfs |
| March 15-31 | 725 cfs | September 15-30 | 500 cfs |
| April 1-14 | 775 cfs | October 1-14 | 500 cfs |
| April 15-30 | 825 cfs | October 15-31 | 500 cfs |
| May 1-14 | 875 cfs | November 1-14 | 500 cfs |
| May 15-31 | 875 cfs | November 15-30 | 550 cfs |
| June 1-14 | 800 cfs | December 1-14 | 550 cfs |
| June 15-30 | 800 cfs | December 15-31 | 600 cfs |



3. <u>Diversion Optimization Plan</u>

Unless otherwise agreed, the following Diversion Optimization Plan shall be implemented on the Control Date as defined in Section A.2:

- a. On an annual basis, beginning on February 15 and continuing until Lake Tapps Reservoir is refilled to Normal Full Pool in accordance with the Spring Refill Plan, or until July 1, whichever is earlier (the "Refill Date"), water may be diverted into Lake Tapps Reservoir in an amount not to exceed 1000 cfs if and only if the instream flow of the White River at the Buckley Gage exceeds the MF established by Table B-1.
- b. On an annual basis, beginning on the Refill Date, (as described in Section B.3.a), until September 15 or the subsequent date the Operator commences drawing down the water level of Lake Tapps Reservoir, whichever is later ("Fall Drawdown Date"), water may be diverted into Lake Tapps Reservoir in an amount not to exceed 400 cfs if and only if the instream flow of the White River at the Buckley Gage exceeds the MF established by Table B-1.
- c. On an annual basis, beginning on the Fall Drawdown Date (as defined in Section B.3.b) until February 15, water may be diverted into Lake Tapps Reservoir in an amount not to exceed 150 cfs if and only if the instream flow of the White River at the Buckley Gage exceeds the MF established by Table B-1.
- d. To maintain desired elevations in Lake Tapps Reservoir while minimizing diversions from the White River, Cascade shall limit discharges from Lake Tapps Reservoir into the Tailrace to no more than 50 cfs, which is the estimated leakage through the powerhouse under current conditions, except during the Fall Drawdown. If technically feasible and if the associated cost is not unreasonable, Cascade shall at the point in time when it modifies the Lake Tapps Reservoir outlet structures in conjunction with development of the intake for the water treatment plant, endeavor to reduce the amount of leakage and further decrease discharges from Lake Tapps Reservoir outside of the Fall Drawdown period.
- e. All diversions from the White River and all discharges from the Tailrace, shall comply with Sections B.3.a. through B.3.d. above, and shall further comply with the Ramping Rate in Section B.4.
- f. The diversions provided for under Sections B.3.a. through B.3.c. above shall at no time result in the reduction of streamflow in the White River below the MF as established in Section B.2.

4. Ramping Rate

The water intake facility to Lake Tapps Reservoir and the discharge through the Tailrace from Lake Tapps Reservoir shall, at all times:

a. Comply with applicable law;



- Be operated so that the Ramping Rate does not exceed one inch per hour (increase or decrease) as measured respectively at the Buckley Gage and the Lake Tapps Diversion Gage at Dieringer, USGS Gaging Station No. 12101100; and
- c. Be operated so that between February 16 and June 15 of each year, daylight downramping shall not be permitted. Daylight shall be defined for this purpose as commencing one hour before sunrise and ending one hour after sunset.

5. Target Lake Elevation

- a. Subject to compliance with the Minimum Flows, the Diversion Optimization Plan and the Ramping Rate:
 - (1) Cascade will endeavor to maintain the Lake Tapps Reservoir elevation between April 15 and September 14 so that the Lake Tapps Reservoir target water surface elevation is Normal Full Pool;
 - (2) Between September 15 and November 30 Cascade may draw down the Lake Tapps Reservoir water surface elevation to 530 feet msl:
 - (3) Cascade will endeavor to maintain the Lake Tapps Reservoir elevation between December 1 and February 14 so that the Lake Tapps Reservoir target water surface elevation is 530 feet msl; and
 - (4) Between February 15 and July 1, Cascade may fill Lake Tapps Reservoir to Normal Full Pool.

C. Fall Drawdown and Spring Refill Plans

- 1. Each year prior to the commencement of the Fall Drawdown, Cascade shall consult with interested parties (such as the Tribes, relevant federal and state fishery resource agencies, Pierce County and the Lake Tapps residential community) on measures, consistent with the Recommended Flow Regime, to accomplish the drawdown and refill of Lake Tapps Reservoir in a manner that minimizes potential adverse impacts on salmonids in light of anticipated hydrological conditions ("Annual Drawdown Plan").
- 2. Each year prior to the Spring Refill, Cascade shall consult with interested parties to develop a plan for the Spring Refill that, among other things, takes into account anticipated hydrological conditions that minimize impacts on fishery resources while seeking to achieve Normal Full Pool consistent with Section B.5.a.(1) ("Annual Refill Plan"). The Annual Refill Plan shall include provisions for establishing the date for beginning Spring Refill, the elevation within the Normal Full Pool range at which time Cascade shall reduce diversion in accordance with Section B.3.b., and the target date for achieving the appropriate Normal Full Pool.



D. Water Right Trust

- 1. Cascade shall transfer that portion of the perfected hydropower water right that it obtains from PSE in excess of the quantity of water that it is permitted to divert into Lake Tapps under the terms of this Agreement ("Trust Water") to the State Water Trust for the purpose of providing instream flows in the White River. The transfer will be in a form acceptable to the Puyallup Tribe and the Muckleshoot Tribe and will be in perpetuity. The transfer will be revocable only by the written agreement.
- 2. In the event that Cascade fails to or is unable to complete the transfer of the Trust Water to the State Water Trust, Cascade shall transfer undivided interests in the Trust Water to the Puyallup Tribe and the Muckleshoot Tribe upon their request. If Cascade does transfer the Trust Water to the Puyallup Tribe and the Muckleshoot Tribe, the Puyallup Tribe and the Muckleshoot Tribe agree to dedicate the Trust Water to instream flows. Cascade, the Puyallup Tribe and the Muckleshoot Tribe shall work together and use best efforts to take all actions and implement all such measures as may be available to them jointly or individually to prevent the out of stream or consumptive use of the Trust Water by third parties.
- 3. The Trust Water dedication for instream flow purposes to the State Water Trust or the Tribes shall not affect the right to use twelve (12) cfs for fish hatchery operations under Certificate of Change to Water Right Claim No. 60822, dated April 15, 1994. Cascade shall continue to hold said water right and make such water available for hatchery operation by the Muckleshoot Tribe as provided in the Certificate of Change.



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Appendix C Distribution List



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CASCADE WATER ALLIANCE LAKE TAPPS RESERVOIR ISSUANCE OF NEW MUNICIPAL WATER RIGHTS AND CHANGE OF EXISTING USE FOR CLAIM NO. 60822

NOTICE OF DETERMINATION OF SIGNIFICANCE AND REQUEST FOR COMMENTS ON SCOPE OF ENVIRONMENTAL IMPACT STATEMENT

DISTRIBUTION LIST

CASCADE WATER ALLIANCE MEMBERS

City of Bellevue
Covington Water District
City of Issaquah
City of Kirkland
City of Redmond
Sammamish Plateau Water & Sewer District
Skyway Water & Sewer District
City of Tukwila

LOCAL GOVERNMENTS

King County DNR/P – Water Policy
Seattle and King County Public Health
City of Auburn
City of Kent
Pierce County Office of the County Executive
Pierce County Planning and Land Services
City of Buckley
City of Bonney Lake
City of Sumner

STATE OF WASHINGTON

Department of Ecology SEPA Register
Department of Ecology Northwest Regional Office
Department of Ecology Southwest Regional Office
Department of Health
Department of Archaeology and Historic Preservation
Department of Natural Resources
Department of Transportation
Department of Fish and Wildlife
Parks and Recreation Commission
Utilities and Transportation Commission

Puget Sound Clean Air Agency

Interagency Committee for Outdoor Recreation

Office of the Attorney General

Appendix C: Distribution List



FEDERAL AGENCIES

U.S. Army Corps of Engineers, Seattle District
Bureau of Indian Affairs
U.S. Environmental Protection Agency, Region 10
Federal Emergency Management Agency, Region 10
U.S. Fish and Wildlife Service
U.S. Geological Survey
NOAA Fisheries - National Marine Fisheries Service
Natural Resource Conservation Services

TRIBES

Muckleshoot Indian Tribe Puyallup Tribe of Indians Duwamish Tribe Tulalip Tribe Snoqualmie Tribe of Indians

LIBRARIES

King County Library System, Redmond Regional Branch King County Library System, Bellevue Regional Branch King County Library System, Issaquah Branch King County Library System, Tukwila Branch King County Library System, Covington Branch King County Library System, Auburn Branch Pierce County Library System, Bonney Lake Pierce County Library System, Sumner University of Washington Suzzallo Library

SPECIAL INTEREST GROUPS

Washington Environmental Council Seattle Audubon Society Trout Unlimited Washington Trout Sierra Club Lake Tapps Task Force Citizens for Clean Drinking Water League of Women Voters

WHOLESALE WATER PURVEYORS

Seattle Public Utilities
Tacoma Water
Cedar River Water and Sewer District
Fall City Water District
Shoreline Water District
East King County Regional Water Association
South King County Regional Water Association



NEWSPAPERS*

Daily Journal of Commerce Seattle Times Tacoma News Tribune

OTHER

Puget Sound Energy
Aspect Consulting, LLC
Perkins Coie, LLP
HDR Engineering, Inc.
Inslee Best, PS
Lake Tapps Community Council
Eglick Kiker Whited, PLLC

Notes:

(1) A Notice of Determination of Significance and Request for Comments on Scope of Environmental Impact Statement is being published in the newspapers as noted with "*."