



Oregon Water Resources Department  
725 Summer Street NE, Suite A  
Salem Oregon 97301-1271 (503) 986-0900  
[www.oregon.gov/owrd](http://www.oregon.gov/owrd)

# Application to Develop a Major Hydroelectric Project (More than 100 theoretical horsepower)

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply, please insert "n/a". Please read and refer to the instructions guide when completing your application. A summary of review criteria and procedures that are applicable to minor hydroelectric projects is available at [www.oregon.gov/owrd](http://www.oregon.gov/owrd) Thank you.

## 1. APPLICANT INFORMATION

Applicants: David Ford, District Manager

Organization: Eagle Point Irrigation District

Mailing Address: PO Box 157, Eagle Point, OR 97524

Phone: (541)826-3411

\*Fax: \_\_\_\_\_ E-mail address: [deford@centurylink.net](mailto:deford@centurylink.net) \_\_\_\_\_

*\*Optional Information*

## 2. PROPERTY OWNERSHIP

Do you own all the land where you propose to divert, transport, and use water? This includes diversion location and place of use; roads; rights-of-way; and canals or ditches.

Yes, (Skip to section 3 "Water Use")

No, Please check the appropriate box below.

I have a recorded easement or written authorization permitting access.

I do not currently have written authorization or easement permitting access.

**Note: A water right cannot be issued without written authorization or easement provided to the Department.**

List the names and mailing addresses of all affected landowners.

\_\_\_\_\_  
PacifiCorp

\_\_\_\_\_  
825 NE Multnomah Street

\_\_\_\_\_  
Portland, OR 97232

*Attach a separate sheet if needed.*



### 3. WATER USE

#### **A. Proposed Source and Amount of Water**

Provide the commonly used name of the water body from which water will be diverted, and the name of the stream or lake it flows into. If unnamed, say so. If the source will be a reservoir, list reservoir name and/or permit number:

Provide the amount of water you propose to use from each source, for each use, in cubic feet-per-second (CFS) or gallons per minute (GPM). If the proposed use is from storage, provide the amount in acre-feet (AF):

(1 cubic foot per second = 448.8 gallons per minute    1 acre-foot = 43,560 cubic feet)

Source	Tributary to	Amount (AF, CFS, GPM)
Tailrace of powerhouse 1		Up to 100 cfs

#### **B. Period of Use**

Indicate the time of year when you propose to use water:

Variable: October/November through April/June.

#### **C. Power Development**

The project will utilize 157.5 (*number of feet*) of gross head to develop up to 1531.3 (*number*) theoretical horsepower (*THP*).

*THP is calculated by multiplying the quantity of water to be diverted in cubic feet per second by the vertical head in feet and dividing the product by 8.8). The head is the difference in elevation between the intake of the pipeline and the return discharge to the stream.*

#### **D. Location**

The point of diversion is located within the SW \_\_\_\_\_ ¼ of the NW \_\_\_\_\_ ¼ of Section 19 \_\_\_\_\_, Township 35S \_\_\_\_\_, Range 1E \_\_\_\_\_, W.M.,



The power plant is located within the **NE** \_\_\_\_\_ ¼ of the **NE** \_\_\_\_\_ ¼ of Section 30 \_\_\_\_\_, Township 35S \_\_\_\_\_, Range 1E \_\_\_\_\_, W.M., in Jackson County.

After passing through the power plant, the water utilized will be returned to Unnamed tributary of Nichols Gap (stream) in the **NE** ¼ of the **NE** \_\_\_\_\_ ¼ of Section 30 \_\_\_\_\_, Township 35S \_\_\_\_\_, Range 1E \_\_\_\_\_, W.M.

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## E. Project Facilities

(IF APPLICABLE) The diversion dam will have a height of 14 feet, a crest width of 120 feet, an upstream slope of 4.795 feet horizontal to one foot vertical, and a downstream slope of 11.898 feet horizontal to one foot vertical.

Describe the type of dam and the material with which it will be constructed:

The existing dam is 120-foot-long, 14-foot-high reinforced concrete dam below an existing Pacific Power powerhouse at Nichols Gap (Pacific Power Project). The Project dam impounds water from the Pacific Power Project tailrace. It was constructed in 1957.

(IF APPLICABLE) The storage reservoir will be located on \_\_\_\_\_ (body of water), tributary to \_\_\_\_\_ (body of water) in Section \_\_\_\_\_, Township \_\_\_\_\_, Range \_\_\_\_\_, W.M. When full the reservoir will have a surface area of \_\_\_\_\_ acres and a total storage volume of \_\_\_\_\_ acre-feet.

(IF APPLICABLE) The canal will have a length of \_\_\_\_\_ feet, a slope of \_\_\_\_\_ feet horizontal /feet vertical, a base width of \_\_\_\_\_ feet, and a top width of \_\_\_\_\_ feet.

(IF APPLICABLE) The pipeline will have a length of 3,450 feet, a diameter of 48 inches, and the difference in elevation between the intake and discharge will be 290 feet. The type of pipe used is steel pipe. \_\_\_\_\_  
\_\_\_\_\_

Describe the type of water wheel and generator that will be used:

The Project contains one Gilkes Turgo Impulse turbine with a hydraulic capacity of 100 cubic feet per second (cfs), installed in 1986, and one Kato generator with a 900-kW (0.9-megawatt (MW) rating; the average annual power generation is rated at 2,660,000 kilowatt hours (kWh).

## 4. WATER MANAGEMENT

### A. Monitoring

How will you monitor your diversion to be sure you are within the limits of your water right and you are not wasting water?

Weir       Meter       Periodic Sampling

Have you planned for a minimum bypass flow?

Describe

The project FERC exemption requires a 2 cfs bypass flow. \_\_\_\_\_

## 5. RESOURCE PROTECTION

In granting permission to use water from a stream or lake, the state requires, careful control of activities that may affect the waterway or streamside area. Please indicate any of the practices you plan to undertake to protect water resources.

- Diversion will be screened to prevent uptake of fish and other aquatic life.

Describe planned actions:

The point of diversion is within the tailrace of another hydropower project. There are no fish or other aquatic life in that waterway.

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- Excavation or clearing of banks will be kept to a minimum to protect riparian or streamside areas. Describe planned actions:

The Project facility is already constructed and operational. No excavation or clearing of banks will be required.

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- Operating equipment in a water body will be managed and timed to prevent damage to aquatic life.

Describe:

The Project facility is already constructed and operational. No equipment will be required within a waterbody.

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- Water quality will be protected by preventing erosion and run-off of waste or chemical products. Describe: The Project facility is already constructed and operational and therefore no additional erosion or water quality concerns from construction will occur.
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**6. FINANCES AND SCHEDULE**

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The estimated cost of the project is: N/A, the project was constructed in 1985.

The proposed use or market for the power to be developed is:

The project has an existing power purchase agreement with Pacific Power that expires in 2021. We are in the process of negotiating a renewal of the PPA and interconnection agreement with Pacific Power.

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The time schedule for completing the project after a water right is issued is

N/A. The project is operational.

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The estimated life of this project is 100 years. Upon a decision to terminate project operations, the project must be decommissioned under applicable Oregon laws. Upon project termination, the proposed method of removal will be determined through consultation with appropriate consultants and agencies.

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**7. NEIGHBORS**

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The following individuals own property within 300 feet of the proposed powerhouse: (include names, physical addresses, and mailing addresses)

Please see Exhibit A.

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**8. REMARKS**

*If you would like to clarify any information you have provided in the application, please do so here and reference the specific application question you are addressing.*

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**9. MAP REQUIREMENTS**

The Department cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section, and quarter-quarter section of the proposed diversion location and powerhouse. See the map guidelines sheet for detailed map specifications.

**10. SIGNATURE**

By my signature below I confirm that I understand:

- X I am asking to use water specifically as described in this application.
- X Evaluation of this application will be based on information provided.
- X I cannot legally use water until the Water Resources Department issues a water right to me.
- X If I get a water right, I must not waste water.
- X If development of the water use is not according to the terms of the water right, the water right can be canceled.
- X The water use must be compatible with local comprehensive land use plans.
- X Even if the Department issues a water right to me, I may have to stop using water to allow senior water right holders, instream water rights or minimum bypass flows to get water they are entitled to, and

I affirm that all information provided in this application is true and correct to the best of my knowledge.

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Signature of applicant

Date

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Signature of applicant

Date

## 11. EXHIBITS

The following Exhibits must be included as a part of this application:

**Exhibit A** Narrative Statement describing the proposed project from the point(s) of diversion to the water return area.

Provide a detailed written description of each component of the proposed Project from the point(s) of diversion to the water return area. The reader should be able to draw a basic picture of the Project based on the Narrative Statement. Such features include points of diversion, dams and appurtenant works and structures, storage, diverting or forebay reservoirs connected therewith, conduits or pipes, powerhouses, water wheels, and primary lines transmitting power to the point of junction with a distributing system, or with any interconnected primary system, miscellaneous works and structures used in connection with the Project or any part thereof, rights of way, lands, flowage rights and all other properties, rights and structures necessary or appropriate in the use, operation and maintenance of the Project.

**Exhibit B** Project Operations Plan and Energy Production

**Exhibit C** Construction Schedule

**Exhibit D** Project Costs and Financing

**Exhibit E** Environmental Report

- a) Project location in environmental setting
- b) Water Use and Quality
- c) Fish Resources
- d) Wildlife Resources
- e) Plant Resources



- f) Recreation Resources
- g) Historical, Cultural and Archaeological Resources (SHPO)
- h) Land Resources – geology and soils
- i) Land Use

**Exhibit F**      Project Drawings – Plans and Elevations

**Exhibit G**      Project Maps

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**Before you submit your application be sure you have:**

- Answered each question completely.
  - Attached a legible map which includes township, range, section and quarter-quarter section.
  - Attached an assessor's map showing tax lots within 300 feet of powerhouse.
  - Included a Land Use Information Form or receipt stub signed by a local official from a city or county planning office.
  - Included a check payable to the Water Resources Department for \$4000. (If a water right is approved, an additional \$1000 is required before the right can be issued.)
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