

***APPLICATION FOR PERMIT**

To Appropriate the Public Waters of the State of Oregon

I, Portland General Electric Company
(Name of applicant)
of 621 S. W. Alder Street, Portland, Oregon 97205
(Mailing address)
State of Oregon, do hereby make application for a permit to appropriate the following described public waters of the State of Oregon, **SUBJECT TO EXISTING RIGHTS:**

If the applicant is a corporation, give date and place of incorporation July 25, 1930
in the State of Oregon

1. The source of the proposed appropriation is Columbia River
(Name of stream)
a tributary of

2. The amount of water which the applicant intends to apply to beneficial use is 135
121
Addendum
cubic feet per second.
(If water is to be used from more than one source, give quantity from each)

**3. The use to which the water is to be applied is Thermal power generation facility
(Irrigation, power, mining, manufacturing, domestic supplies, etc.)

4. The point of diversion is located 400 ft. S and 800 ft. W from the NE
(N. or S.) (E. or W.)
corner of Section 18, Township 4 North, Range 24 East, Willamette Meridian
(Section or subdivision)

See Addendum

(If preferable, give distance and bearing to section corner)

(If there is more than one point of diversion, each must be described. Use separate sheet if necessary)

being within the NE 1/4, NE 1/4 of Sec. 18, Tp. 4N
(Give smallest legal subdivision) (N. or S.)

R. 24E, W. M., in the county of MORROW
(E. or W.)

5. The Pipeline to be 10.7 miles
(Main ditch, canal or pipe line) (Miles or feet)
in length, terminating in the NW 1/4, SW 1/4 of Sec. 4, Tp. 2N
(Smallest legal subdivision) (N. or S.)

R. 24E, W. M., the proposed location being shown throughout on the accompanying map.
(E. or W.)

DESCRIPTION OF WORKS

Diversion Works—

6. (a) Height of dam _____ feet, length on top _____ feet, length at bottom _____ feet; material to be used and character of construction _____
(Loose rock, concrete, masonry,

rock and brush, timber crib, etc., wasteway over or around dam)

(b) Description of headgate Concrete structure with three openings 9' x 8'6" each.
(Timber, concrete, etc., number and size of openings)
Water passes through steel trash racks and travelling screens.

(c) If water is to be pumped give general description 4 - 14,000 GPM turbine pumps with
(Size and type of pump)
2500 H.P. electric motors. Lift 410 feet.
(Size and type of engine or motor to be used, total head water is to be lifted, etc.)

*A different form of application is provided where storage works are contemplated.

**Application for permits to appropriate water for the generation of electricity, with the exception of municipalities, must be made to the Hydroelectric Commission. Either of the above forms may be secured, without cost, together with instructions by addressing the State Engineer, Salem, Oregon.

Canal System or Pipe Line—

7. (a) Give dimensions at each point of canal where materially changed in size, stating miles from headgate. At headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(b) At miles from headgate: width on top (at water line) feet; width on bottom feet; depth of water feet; grade feet fall per one thousand feet.

(c) Length of pipe, ft.; size at intake, in.; size at ft. from intake in.; size at place of use in.; difference in elevation between intake and place of use ft. Is grade uniform? Estimated capacity, sec. ft.

8. Location of ~~XXXXXX~~ ~~XXXXXX~~ ~~XXXXXX~~ place of use

Township North or South	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated
2 North	24 East	4	NW of SW	Plant facilities and Landscaping
		5	NE of SE	
2 North	24 East	1	allex. SE of SE SW of SW	Reservoir
		2	allex. S/2 of SW/4	Reservoir
		3 & 4	All	Reservoir
		5	E/2 of SE/4	Reservoir
		8	N/2 of S/2, E/2 NE/4 and SW of NE	Reservoir
		9	NW of SW, W/2 of NW/4 NE of NW & NW of NE	Reservoir
		10	E/2 of NW/4 & W/2 NE/4	Reservoir
		12	NW of NE	Reservoir
2 North	25 East	4	NW of NE	Reservoir
		5	N/2 of NW & SW of NW	Reservoir (Contd)

Location (Contd.)

Township	Range	Section	Forty-acre Tract	Acres to be Irrigated
2 North	25 East	6	N/2 & N/2 of SW	Reservoir
3 North	24 East	25	S/2 of SE	Reservoir
		33	S/2 of S/2	Reservoir
		34	S/2 of SW & SE of SE	Reservoir <i>* Coal Plant</i>
		35	S/2 & SE of NE	Reservoir
		36	All	Reservoir
3 North	25 East	29	S/2 of S/2	Reservoir
		30	S/2	Reservoir
		31&32	All	Reservoir
		33	NW/4 & W/2 of SW	Reservoir

The location of the coal-fired plant and coal-handling facilities will occupy all of Section 34, Township 3 North, Range 24 East, Willamette Meridian.

The location of the future thermal plants will be the west one-quarter of Section 4 and the east one-half of Section 5, Township 2 North, Range 24 East, Willamette Meridian.

The location for the first phase reservoir is as follows:

<u>Township</u>	<u>Range</u>	<u>Section</u>	<u>Forty-Acre Tract</u>	<u>Acres to be Irrigated</u>
2 North	24 East	2	W/2 of NW/4, NW/4 of SW/4	Reservoir
		3&4	All	Reservoir
		8	N/2 of S/2, E/2 of NE/4 and SW of NE	Reservoir
		9	NW of SW; W/2 of NW/4, NE of NW, NW of NE	Reservoir
		10	E/2 of NW/4, W/2 of NE/4	Reservoir
3 North	24 East	33	S/2 of S/2	Reservoir
		34	S/2 of SW, SE of SE	Reservoir
		35	SW of SW	Reservoir

The sprinkling down of fly ash will require a maximum of 0.2 cfs with the location of ash disposal sites as follows:

<u>Township</u>	<u>Range</u>	<u>Section</u>	<u>Forty-Acre Tract</u>	<u>Acres to be Irrigated</u>
2 North	24 East	2	SW/4	Ash Disposal
		3	SE/4	Ash Disposal
		10	NE/4	Ash Disposal
		11	NW/4	Ash Disposal
3 North	24 East	26	All	Ash Disposal
		35	All	Ash Disposal

Addendum to
Portland General Electric Company's
Water Appropriation Permit No. 51521

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
WASHINGTON, D.C. 20506

This addendum to the subject permit presents the planned makeup water requirements to maintain pool elevation in the Carty Reservoir. As identified in Reservoir Permit No. R-51520, the Carty Reservoir will be constructed and operated in two stages. The first stage development will have the cooling capacity to operate two coal plants each in the 550-MW range. The reduced reservoir will be filled and maintained via a 60-inch pipeline to be constructed by the Boeing Agri-Industrial Company, as shown on the attached exhibit, Drawing No. SK-301. The maximum water usage is estimated to be 100 cfs during the fill process which is scheduled to occur during 1978. The water will come from the existing Boeing plants on Willow Creek. After the Boardman Plant is in commercial operation in (scheduled May 1) 1980, the maximum anticipated makeup water requirements are 30 cfs which should occur during the month of July. This makeup water requirement takes into account plant water use, ash disposal, and reservoir evaporation and seepage.

When all required approvals and authorizations are obtained, PGE will construct its own pumping plant and pipeline as shown on the attached exhibit. This pumping plant will be located on the Columbia River approximately 2075 feet north and 1575 feet east of the west one-quarter corner of Section 21, Township 4 North, Range 23 East, Willamette Meridian. The full reservoir, as shown on the drawing, and described in the application, will provide sufficient cooling capability to operate two thermal plants in the 1,260-MW range and the above coal plant. Maximum water requirement to operate the first thermal unit simultaneously with the coal plant is estimated to be 106 cfs. Maximum water requirement to operate two thermal units and the coal plant is estimated to be 135 cfs.

10. (a) To supply the city of

..... County, having a present population of

(Name of)

and an estimated population of in 19.....

(b) If for domestic use state number of families to be supplied

(Answer questions 11, 12, 13, and 14 in all cases)

11. Estimated cost of proposed works, \$ 11,500,000

12. Construction work will begin on or before 1976

13. Construction work will be completed on or before 1977

14. The water will be completely applied to the proposed use on or before 1977

R. W. Sharp
(Signature of applicant)

R. W. Sharp - Permit Section Supervisor

Remarks: Uses will include plant cooling with evaporation and seepage
Losses, sanitary facilities, fire protection and irrigation
of landscaping plantings.

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application, together with the accompanying maps and data, and return the same for

In order to retain its priority, this application must be returned to the State Engineer, with corrections on or before, 19.....

WITNESS my hand this day of, 19.....

STATE ENGINEER

By ASSISTANT

PERMIT

STATE OF OREGON, }
County of Marion, } ss.

This is to certify that I have examined the foregoing application and do hereby grant the same, SUBJECT TO EXISTING RIGHTS and the following limitations and conditions:

The right herein granted is limited to the amount of water which can be applied to beneficial use and shall not exceed 135.0 cubic feet per second measured at the point of diversion from the stream, or its equivalent in case of rotation with other water users, from Columbia River and Reservoir to be constructed under Application No. R-51520, Permit No. R- 6276

The use to which this water is to be applied is Thermal Power Generation Facility

If for irrigation, this appropriation shall be limited to of one cubic foot per second or its equivalent for each acre irrigated

and shall be subject to such reasonable rotation system as may be ordered by the proper state officer.

The priority date of this permit is December 4, 1973

Actual construction work shall begin on or before January 12, 1977 and shall thereafter be prosecuted with reasonable diligence and be completed on or before January 12, 1981.

Complete application of the water to the proposed use shall be made on or before January 12, 1981. Extended to Oct. 1, 1990, 10-1-95, Ext to 10-1-96

WITNESS my hand this 12th day of January 1976

James E. Olson
WATER RESOURCES DIRECTOR

Application No. 5-1524
Permit No. 39188

PERMIT

TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the 4 day of December, 1973, at 4:22 o'clock P. M.

Returned to applicant:

Approved:

Recorded in book No. 39188 of

STATE ENGINEER

Drainage Basin No. 7 page 22

Fees