

APPLICATION FOR A PERMIT

To Appropriate the Ground Waters of the State of Oregon

I, PACIFIC POWER & LIGHT COMPANY

(Name of applicant)

of Public Service Bldg., Portland 4, Oregon, county of Multnomah

(Postoffice Address)

state of Oregon, do hereby make application for a permit to appropriate the following described ground waters of the state of Oregon, SUBJECT TO EXISTING RIGHTS:

If the applicant is a corporation, give date and place of incorporation.

Applicant was incorporated under laws of State of Maine on June 16, 1910

1. Give name of nearest stream to which the well, tunnel or other source of water development is situated North Slough, a tributary of Coos Bay; and Tenmile Creek

(Name of stream)

tributary of the Pacific Ocean

2. The amount of water which the applicant intends to apply to beneficial use is approx. 46 cubic feet per second or 20,800 gallons per minute.

3. The use to which the water is to be applied is industrial uses including the manufacture of pulp and paper

4. The well or other source is located - ft. - and - ft. - from the - corner of Refer to Attachment No. 1 hereto and General Plan Map attached hereto

(N. or S.)

(E. or W.)

(Section or subdivision)

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

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

being within the - of Sec. - , Twp. - , R. - W. M., in the county of Coos

5. The pipelines to be 16 or more miles in length, terminating within the area outlined on the General Area Map attached hereto and more fully described in reply of Sec. 16 of Sec. 12 below.

(Canal or pipe line)

(Smallest legal subdivision)

R. 12, W. M., the proposed location being shown throughout on the accompanying map.

6. The name of the well or other works is Coos Bay Sand Dunes Water Supply

DESCRIPTION OF WORKS

7. If the flow to be utilized is artesian, the works to be used for the control and conservation of the supply when not in use must be described.

Flow is not artesian

8. The development will consist of 64 wells having a diameter of 10 inches and an estimated depth of 130 feet. It is estimated that 130 feet of the well will require and steel casing. Depth to water table is estimated to be less than 10 feet at the well locations.

(Give number of wells, tunnels, etc.)

commercial well screen

(Kind)

(Feet)

CANAL SYSTEM OR PIPE LINE—

9. (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) Not Applicable 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) Not Applicable feet; width on bottom _____ feet; depth of water _____ feet; grade _____ feet fall per one thousand feet.

(c) Length of pipe, approx. 83,000 ft.; size at ~~14/16~~ ^{wells} 6 in.; in size at See ~~14/16~~ ^{ft.} ft. accompanying General Plan Map ~~14/16~~ ^{in.} in.; size at place of use 30 and 24 in.; difference in elevation between intake and place of use, approx. 25 ft. Is grade uniform? No Estimated capacity, approx. 50 sec. ft.

10. If pumps are to be used, give size and type 64 vertical turbine pumps; 3, 4, 5, 6 and 7 stage units to be used; 18-8" units and 46-10" units.

Give horsepower and type of motor or engine to be used Three-phase electric motors; 7 @ 10 hp, 16 @ 15 hp, 20 @ 20 hp, 11 @ 25 hp, and 10 @ 30 hp.

11. If the location of the well, tunnel, or other development work is less than one-fourth mile from a natural stream or stream channel, give the distance to the nearest point on each of such channels and the difference in elevation between the stream bed and the ground surface at the source of development

Wells are more than one-fourth mile from Tenmile Creek and North Slough

12. Location of area to be irrigated, or place of use as outlined on attached General Area Map

Township N. or S.	Range E. or W. of Willamette Meridian	Section	40 / Acres / Tract	Number Acres To Be Irrigated
Water will be used at as yet undetermined locations within the following described sections:				
T 23 S	R 12 W	18, 19, 30, 31		Water not to be used
T 23 S	R 13 W	13, 14, 15, 22, 23, 24, 25, 26, 27, 33, 34, 35, 36		for irrigation
T 24 S	R 12 W	6, 7, 18, 19, 30, 31		
T 24 S	R 13 W	1, 2, 3, 4, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 36		
T 25 S	R 12 W	6, 7, 18, 19, 30, 31		
T 25 S	R 13 W	All of Township		
T 26 S	R 12 W	6		
T 26 S	R 13 W	1, 2, 3, 4, 5, 6		
T 25 S	R 14 W	12, 13, 23, 24, 25, 26		
T 26 S	R 14 W	1, 2, 3, 4		

(If more space required, attach separate sheet)

Character of soil Water is not to be used for irrigation

Kind of crops raised " " " " " " " "

MUNICIPAL SUPPLY—

13. To supply the city of Not Applicable

in _____ county, having a present population of _____

and an estimated population of _____ in 19_____

ANSWER QUESTIONS 14, 15, 16, 17 AND 18 IN ALL CASES

14. Estimated cost of proposed works, \$ Approx. \$2,500,000 (Including approx. \$800,000 already expended on exploratory work)

15. Construction work will begin on or before Started

16. Construction work will be completed on or before See Remarks Below

17. The water will be completely applied to the proposed use on or before See Remarks Below

18. If the ground water supply is supplemental to an existing water supply, identify any application for permit, permit, certificate or adjudicated right to appropriate water, made or held by the applicant. Not Applicable

By: [Signature] PACIFIC POWER & LIGHT COMPANY
(Signature of applicant) President

Remarks: The project for which a permit is requested will provide suitable fresh water for industrial purposes in the Coos Bay area where fresh water is not now economically available in large quantity. This project is the result of exploratory work to find a source of such water carried out by the applicant since 1954 following the determination in conference with leaders of the Coos Bay communities that the development of an industrial water supply was a critical need of the area. More than \$800,000 has been expended in this exploratory work, including the construction of five pilot wells and an experimental gallery which are producing more than 2 million gallons per day. It is expected that one of the primary uses of this water will be a large expansion of pulp and paper manufacturing using the large raw material resources of the forest industries and the timber reserves of the Coos Bay area.

The facilities described in this application are those needed to develop fully the water supply of the sand dune area between Coos Bay and Termile Creek. It is essential to the effective development of this water potential, and for control of salt water intrusion, that the works be built and operated in an orderly manner in accordance with a carefully designed and integrated program as described in this application.

The applicant contemplates that the water extraction facilities will be installed progressively as industry locates in the area and calls for water. The timing of construction will thus depend on the rapidity of industrial growth and may extend over a number of years. The applicant has been actively working for more than five years to bring industries to the area and will continue to do so. As stated above the applicant has already begun construction of the proposed project and will complete construction of the project as rapidly as the demands of industry may require so as ultimately to attain the full development and utilization of this water resource.

The investigatory work completed by applicant and a description of the water supply and features necessary to its development are summarized in the attached memorandum.

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

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

PERMIT

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 46.0 cubic feet per second measured at the point of diversion from the well or source of appropriation, or its equivalent in case of rotation with other water users, from 64 wells.

The use to which this water is to be applied is industrial uses including the manufacture of pulp and paper.

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 further limited to a diversion of not to exceed --- acre feet per acre for each acre irrigated during the irrigation season of each year;

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

The well shall be cased as necessary in accordance with good practice and if the flow is artesian the works shall include proper capping and control valve to prevent the waste of ground water.

The works constructed shall include an air line and pressure gauge or an access port for measuring line, adequate to determine water level elevation in the well at all times.

The permittee shall install and maintain a weir, meter, or other suitable measuring device, and shall keep a complete record of the amount of ground water withdrawn.

The priority date of this permit is January 3, 1956

Actual construction work shall begin on or before August 10, 1960 and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1960

Complete application of the water to the proposed use shall be made on or before October 1, 1961

WITNESS my hand this 10th day of August, 1959

Lewis A. Stanley
STATE ENGINEER

Application No. G-200

Permit No. G-1389

PERMIT

TO APPROPRIATE THE GROUND WATERS OF THE STATE OF OREGON

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the 3rd day of January, 1956, at 8:00 o'clock A. M.

Returned to applicant:

Approved:

August 10, 1959 of 6 of Ground Water Permits on page 1389

LEWIS A. STANLEY
STATE ENGINEER

Drainage Basin No. 17 page 23

State Printing
11022

Application for a Permit
To Appropriate the Ground Waters of the State of Oregon
Section 4 - Location of Wells

<u>Well No.</u>	<u>Distance Ft.</u>	<u>Bearing</u>	<u>Bearing From</u>	<u>Well Location</u> (1)
1	3180	S 70 E	NW Cor. Sec. 23	NW NE 1/4 Sec. 23
2	2620	S 60 E	NW Cor. Sec. 23	SE NW 1/4 Sec. 23
3	2420	S 43 E	NW Cor. Sec. 23	SE NW 1/4 Sec. 23
4	2870	S 30 E	NW Cor. Sec. 23	SE NW 1/4 Sec. 23
5	2570	N 35 W	S 1/4 Cor. Sec. 23	NW SW 1/4 Sec. 23
6	2390	N 52 W	S 1/4 Cor. Sec. 23	NW SW 1/4 Sec. 23
7	2320	N 71 W	S 1/4 Cor. Sec. 23	SW SW 1/4 Sec. 23
8	120	N 72 E	SW Cor. Sec. 23	SW SW 1/4 Sec. 23
9	690	S 3 W	SW Cor. Sec. 23	NE NE 1/4 Sec. 27
10	1250	N 14 W	E 1/4 Cor. Sec. 27	SE NE 1/4 Sec. 27
11	820	N 48 W	E 1/4 Cor. Sec. 27	SE NE 1/4 Sec. 27
12	880	S 78 W	E 1/4 Cor. Sec. 27	NE SE 1/4 Sec. 27
13	2040	N 32 W	SE Cor. Sec. 27	NE SE 1/4 Sec. 27
14	1650	N 50 W	SE Cor. Sec. 27	SE SE 1/4 Sec. 27
15	1480	N 78 W	SE Cor. Sec. 27	SW SE 1/4 Sec. 27
16	1660	S 75 W	SE Cor. Sec. 27	NW NE 1/4 Sec. 34
17	2100	S 56 W	SE Cor. Sec. 27	NW NE 1/4 Sec. 34
18	1930	N 68 W	E 1/4 Cor. Sec. 34	SW NE 1/4 Sec. 34
19	2050	N 89 W	E 1/4 Cor. Sec. 34	SW NE 1/4 Sec. 34
20	2400	S 74 W	E 1/4 Cor. Sec. 34	NW SE 1/4 Sec. 34
21	2930	S 61 W	E 1/4 Cor. Sec. 34	SW SE 1/4 Sec. 34
22	550	N 26 W	N 1/4 Cor. Sec. 3	SE SW 1/4 Sec. 34
23	530	S 63 W	N 1/4 Cor. Sec. 3	NE NW 1/4 Sec. 3
24	1200	S 37 W	N 1/4 Cor. Sec. 3	NE NW 1/4 Sec. 3
25	2380	S 45 E	NW Cor. Sec. 3	SE NW 1/4 Sec. 3
26	2970	S 35 E	NW Cor. Sec. 3	SE NW 1/4 Sec. 3
27	2140	N 34 E	SW Cor. Sec. 3	NE SW 1/4 Sec. 3
28	1510	N 50 E	SW Cor. Sec. 3	SW SW 1/4 Sec. 3
29	1060	N 78 E	SW Cor. Sec. 3	SW SW 1/4 Sec. 3
30	1000	S 61 E	SW Cor. Sec. 3	NW NW 1/4 Sec. 10
31	1390	S 29 E	SW Cor. Sec. 3	NW NW 1/4 Sec. 10
32	790	N 26 E	W 1/4 Cor. Sec. 10	SW NW 1/4 Sec. 10
33	160	N 85 E	W 1/4 Cor. Sec. 10	SW NW 1/4 Sec. 10
34	720	S 5 E	W 1/4 Cor. Sec. 10	NW SW 1/4 Sec. 10
35	650	N 29 W	SE Cor. Sec. 9	SE SE 1/4 Sec. 9
36	1310	N 22 W	E 1/4 Cor. Sec. 16	SE NE 1/4 Sec. 16
37	970	S 37 W	E 1/4 Cor. Sec. 16	NE SE 1/4 Sec. 16
38	1590	S 89 W	NE Cor. Sec. 21	NW NE 1/4 Sec. 21
39	2830	N 71 E	W 1/4 Cor. Sec. 21	SW NE 1/4 Sec. 21
40	2420	S 65 E	W 1/4 Cor. Sec. 21	NE SW 1/4 Sec. 21
41	1690	S 78 E	NW Cor. Sec. 28	NE NW 1/4 Sec. 28
42	580	N 42 E	W 1/4 Cor. Sec. 28	SW NW 1/4 Sec. 28
43	1200	N 26 W	NE Cor. Sec. 32	SE SE 1/4 Sec. 29
44	1600	S 68 W	NE Cor. Sec. 32	NW NE 1/4 Sec. 32
45	2380	N 84 W	E 1/4 Cor. Sec. 32	SW NE 1/4 Sec. 32
46	2920	S 56 W	E 1/4 Cor. Sec. 32	SW SE 1/4 Sec. 32
47	2590	N 89 W	E 1/4 Cor. Sec. 33	SW NE 1/4 Sec. 33

1389

-2-

<u>Well No.</u>	<u>Distance Ft.</u>	<u>Bearing</u>	<u>Bearing From</u>	<u>Well Location</u>
48	2130	S 71 W	E 1/4 Cor. Sec. 33	NW/SE 1/4 Sec. 33
49	1600	N 84 W	E 1/4 Cor. Sec. 33	SW/NE 1/4 Sec. 33
50	1670	N 41 W	E 1/4 Cor. Sec. 33	SE/NE 1/4 Sec. 33
51	780	S 72 W	NE Cor. Sec. 33	NE/NE 1/4 Sec. 33
52	1070	N 29 W	NE Cor. Sec. 33	SE/SE 1/4 Sec. 28
53	400	S 23 W	E 1/4 Cor. Sec. 28	NE/SE 1/4 Sec. 28
54	810	N 35 E	E 1/4 Cor. Sec. 28	SW/NW 1/4 Sec. 27
55	4490	S 82 W	NE Cor. Sec. 27	NW/NW 1/4 Sec. 27
56	4240	N 83 W	NE Cor. Sec. 27	SW/SW 1/4 Sec. 22
57	3700	S 76 W	E 1/4 Cor. Sec. 22	NE/SW 1/4 Sec. 22
58	3600	N 84 W	E 1/4 Cor. Sec. 22	SE/NW 1/4 Sec. 22
59	2330	S 65 E	NW Cor. Sec. 22	NE/NW 1/4 Sec. 22
60	2230	N 86 E	NW Cor. Sec. 22	SE/SW 1/4 Sec. 15
61	2820	S 62 E	W 1/4 Cor. Sec. 15	SE/SW 1/4 Sec. 15
62	2420	S 85 W	E 1/4 Cor. Sec. 15	NE/SE 1/4 Sec. 15
63	2170	N 65 W	E 1/4 Cor. Sec. 15	SW/NE 1/4 Sec. 15
64	1700	S 70 W	NE Corner Sec. 15	NW/NE 1/4 Sec. 15

(1) Wells 1-22 incl. located in T23S, R13W, W.M.

Wells 23-64 incl. located in T24S, R13W, W.M.

All wells in Coos County, Oregon