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STATE ENGINEER
OREGON

Reservoir Permit No. _____

Application for a Permit to Construct a Reservoir and to Store for Beneficial Use the Unappropriated Waters of the State of Oregon

I, City of Dallas
(Name of Applicant)

of City Hall, Dallas
(Mailing Address)

State of Oregon, do hereby make application for a permit to construct the following described reservoir and to store the unappropriated waters of the State of Oregon, subject to existing rights.

If the applicant is a corporation, give date and place of incorporation February 4, 1901,
Dallas, Oregon

1. The name of the proposed reservoir is Dallas Reservoir

2. The name of the stream from which the reservoir is to be filled and the appropriation made is Rickreall Creek

tributary of Willamette River

3. The amount of water to be stored is ~~5,000 (ultimate)~~ 1,200 acre feet.
Municipal

4. The use to be made of the impounded water is domestic supply and irrigation
(Irrigation, power, domestic supply, etc.)

5. The location of the proposed reservoir will be in Sec. 6, T 8S, R 6W, and Sec. 1
(Give sections or townships to be submerged)
Tp. 8S, R. 7W, W. M., in the county of Polk

(a) State whether situated in channel of running stream and give character of material at outlet situated in channel of Rickreall Creek. Material consists of volcanic breccia rock.

(b) If not in channel of running stream, state how it is to be filled. If through a feed canal, give name and dimensions

6. The dam will be located in NE 1/4 SW 1/4 and NW 1/4 SE 1/4, Sec. 6,
(Smallest legal subdivision) 70
Tp. 8S, R. 6W, W. M. The maximum height will be ~~100~~ 100 feet above stream bed or ground surface on center line of dam. The length on top will be ~~600~~ 400 feet; length on bottom 100 feet; width on top ~~30~~ 17 feet; slope of front or water side 3 to 1; slope on back 2 to 1; height of dam above water line when full ~~10~~ 11 feet.
(Feet horizontal to 1 vertical) (Feet horizontal to 1 vertical)

* A different form of application should be used for the appropriation of stored water to beneficial use. Such forms can be secured without charge, together with instructions, by addressing the State Engineer, Salem, Oregon.

2282

7. The construction of dam, the material of which it is to be built, and method of protection from waves are as follows: The earth fill dam is to be constructed of compacted sandy clay with earth-moving equipment. Placement of the fill will be such that the more pervious material will be placed on the downstream side and rocks encountered in the fill will be placed on the upstream face. Principal wave protection will be from riprap banks.

8. The location of wasteway with dimensions are as follows: A side channel spillway (State whether over or around the dam) 60 feet wide at crest and excavated in solid rock with concrete overflow crest. The spillway crest to be approximately 15 feet below the top of dam. The spillway to be located on a natural ridge south of the dam abutment and will discharge into a natural creek channel which has exposed bedrock in the channel bottom.

9. The location of outlet from the proposed reservoir, with character of construction and dimensions, are as follows: A 30-inch dia. reinforced concrete pipe approximately 300 feet long (State whether through or around the proposed dam) (ultimate) will pass under the dam near the deep section. It will be placed in a trench in original ground. There will be a 24-inch slide gate on the upstream end controlled from the top of the dam.

10. The area submerged by the proposed reservoir, when full, will be ~~100~~ 60 acres, (ultimate) with a maximum depth of water of ~~90~~ 55 feet; and approximate mean depth of water ~~50~~ 20 feet.

11. The estimated cost of the proposed work is \$ ~~750,000.00~~ 300,000 maximum

12. Construction work will begin on or before June, 1959 (Initial Stage)

13. Construction work will be completed on or before June, 1960 (Initial Stage)

RECEIVED CITY OF DALLAS
MAY 29 1959
STATE ENGINEER Dallas, Oregon
SALEM, OREGON
Lydia Martens
date *May 28, 1959*

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 correction or completion as follows: correction to agree with plans & specifications

In order to retain its priority, this application must be returned to the State Engineer, with corrections, on or before June 26, 1959.

WITNESS my hand this 26th day of May, 1959.

LEWIS A. STANLEY
STATE ENGINEER

By *Fred D. Gustafson*
Fred D. Gustafson
Engineer
by A.M. Pelota



Remarks: This application is preliminary in nature. It is submitted for the purpose of establishing a priority. Additional information will be submitted upon completion of the design in accordance with the Rules and Regulations of the State Engineer pertaining to procedures in filing water applications.

In addition to the information presented in the formal application the following supplementary data is provided to complete the description of the project:

1. The dam will be constructed on bed rock or impervious earth material. The bed rock will be grouted. The bed rock is exposed in the stream bed and at a few places on the banks.

2. The drainage area above the damsite is 17 square miles. The soils are sandy clay, gravel and rock overlain by about one foot of humus material. The topography is steep, the hills and ridges being rounded. The cover consists of some timber and considerable brush. Much of the area has been logged over. No logging has been done for about four years. There are no farms on the area. A program of re-forestation is being carried out by the property owners.

3. There are no available stream flow records on Rickreall Creek. It is estimated that the maximum flood flow (momentary) at Damsite No. 2 is 2500 cubic feet per second and that the maximum daily flood flow is 2000 cubic feet per second. A gauging station was installed by the USGS in Sept., 1957 and continuous flow measurements are being recorded.

4. Availability of construction materials: Suitable clay material is available in the vicinity of the damsite. Concrete aggregates are available from recognized aggregate producing plants in the vicinity of Dallas. Rock suitable for use in the rock blanket on the slopes of the dam is available from basalt out crops in the vicinity of the dam.

6. The area along Rickreall Creek for approximately five miles downstream from the damsite runs through property owned by logging companies and is not farmed. The creek is well confined between hills. In the event of a failure of the dam there would be little flooding in this area. A dam failure however, could flood a considerable area over the next two miles to Dallas and also considerable area below Dallas. The dam and spillway are designed with a factor of safety to guard against possible failure.

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 the following limitations and conditions: The right herein granted is limited to the construction of Dallas Reservoir and the storage of water from Rickreall Creek to be appropriated under application No. 32086, permit No. 26397 for municipal use, and the dam shall be constructed under the supervision of a registered professional engineer.

The right hereunder shall be limited to the storage of 1200 acre feet.

The priority date of this permit is January 28, 1958

Actual construction work shall begin on or before December 21, 1960

and shall thereafter be prosecuted with reasonable diligence and be completed on or before October 1, 1961

WITNESS my hand this 21st day of December, 1959

Lewis A. Stanley

STATE ENGINEER

OK
F.B.S.

Application No. *R-22885*
Reservoir Permit No. *R-22883*

PERMIT

To construct a reservoir and store for beneficial use the unappropriated waters of the State of Oregon.

This instrument was first received in the office of the State Engineer at Salem, Oregon, on the *28th* day of *January*, 19*58*, at *8:00* o'clock *A*.M.

Approved:

December 21, 1959

Recorded in Book No. *8* of
Reservoirs, on Page *2283*.

LEWIS A. STANLEY

STATE ENGINEER

Drainage Basin No. *2* page *76A/8*

Fees Paid *25.00*

State Printing Dept. 47156

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