



WATER-RIGHT DOCKET

Mount Rainier National Park

Docket No: 17

PARADISE HYDROELECTRIC SYSTEM

Preliminary Docket Information

00-00-0000: water right/source docket information

W A T E R D O C K E T I N F O R M A T I O N

A R E A MT. RAINIER N P

DOCKET NO. 17

APPLICATION NO. 5972

PERMIT NO. 15/3816

~~CERTIFICATE NO.~~ LICENSE 5-2081

TITLE OF DOCKET PARADISE HYDROELECTRIC SYSTEM

PRIORITY 1944

REMARKS: _____

CERTIFICATE RECORD No. 5, PAGE N 2081
 STATE OF WASHINGTON, COUNTY OF Lewis
 Cert. Record No. 5 Page No. 2081

Mt. Rainier
 Decd 19

CERTIFICATE OF WATER RIGHT

(In accordance with the provisions of Chapter 117, Laws of Washington for 1917, and the rules and regulations of the State Supervisor of Hydraulics thereunder.)

This is to certify, that United States of America, Department of the Interior, National Park Service, Mount Rainier National Park,
 of Longmire, State of Washington, has made
 proof to the satisfaction of the State Supervisor of Hydraulics of Washington, of a right to the use of
 the waters of Paradise River, a tributary of Nisqually River,
 for the purposes of Supplemental supply for electric power
 under Appropriation Permit No. 3816 issued by the State Supervisor of Hydraulics, and
 that said right to the use of said waters has been perfected in accordance with the laws of Washington,
 and is hereby confirmed by the State Supervisor of Hydraulics of Washington and entered of record in
 Volume 5, at Page 2081, on the 14th day of November, 1944; that
 the right hereby confirmed dates from February 28, 1944; that the amount of water to
 which such right is entitled and hereby confirmed, for the purposes aforesaid, is limited to an amount
 actually beneficially used for said purposes, and shall not exceed 9.6 cubic feet per second.

A description of the lands under such right to which the water hereby confirmed is appurtenant,
 and the place where such water is put to beneficial use, is as follows:

PLACE OF USE			LEGAL SUBDIVISION	FOR IRRIGATION	
Section	Township	Range		No. Acres Described in Permit	No. Acres Actually Irrigated

LOCATION OF POWER PLANT			LEGAL SUBDIVISION	FOR POWER	
Section	Township	Range		H. P. Described in Permit	H. P. Actually Developed
<u>22</u>	<u>35 N.</u>	<u>8 E.W.M.</u>	<u>The approximate E$\frac{1}{2}$ of SW$\frac{1}{4}$ (unsurveyed).</u>	<u>548</u>	<u>548</u>

Section	Township	Range	LEGAL SUBDIVISION	FOR OTHER USES

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place of
 use herein described, except as provided in Section 39, Chapter 117, Session Laws 1917.

WITNESS the seal and signature of the State Supervisor of Hydraulics affixed this 14th day
 of November, 1944


 Assistant State Supervisor of Hydraulics

395581

76

Permit No.—3816—

Certificate of Water Right
State Supervisor of Hydraulics

U. S. A. Dept. of Int.
Nat'l Park Ser. Mt. Rainier Park
Recorded in the office of State Supervisor

of Hydraulics, Olympia, Washington, in

Book No. — 5 — of Water Right
Certificates, on Page — 2081 —, on

the 4th day of November —

19 44 —

STATE OF WASHINGTON,

County of — Lewis — } ss.

I certify that the within was received
Request of John C. Ferguson,
and duly recorded by me in Volume 399

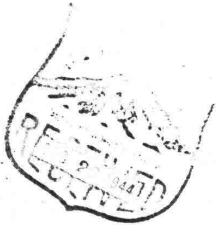
of Book of Water Right Certificates, Page
Dec. 15, 1944, 2:16 P. M.
on the 15th day of

NOVEMBER, 19

Barbara Quirk

State Supervisor of Hydraulics

Office of the State Supervisor
Mt. Rainier Nat'l Park
Longmire, Wash.



Mt. Rainier - Dec 19.

Note: A separate statement should be made for each claim or unit.

STATEMENT RELATIVE TO CLAIM OF WATER RIGHTS FOR
POWER PURPOSES AND ANNUAL LICENSE FEE IN CONNECTION THEREWITH.

To the State Department of Conservation and Development, Olympia, Wash.:

United States of America, Department of the Interior, National Park Service.
(Name of Claimant)

Mount Rainier National Park, Longmire, Washington.
(Address)

Remits herewith the sum of \$ --, the annual license fee required by the State of Washington, due on or before January 1, 1945 for the claim or right to use its waters for power purposes, for the year 1945, as provided in Chapter 105, Laws of 1929, said claim being based on the following particulars:

Note: Power projects of 50 theoretical horse power or less are exempt.

Name of stream from which water is diverted Paradise River, tributary of Nisqually River.

Land description of point of diversion of water:

SW¹/₄ SW¹/₄ (unsurveyed), Sec. 23, Twp. 15 N., Rge. 8 E.
(Smallest legal subdivision) (E or W)

Land description of point of return of water to the stream:

SE¹/₄ SW¹/₄ (unsurveyed), Sec. 22, Twp. 15 N., Rge. 8 E.
(Smallest legal subdivision) (E or W)

Basis of Water Right Claim:

Adjudicated water right --
(Title of Case)

Appropriation before Water Code (June 15, 1917) --
(Give date)

Appropriation under Water Code Application 5972, Permit 15/3816
(Application or Permit Number)

Other Basis for Claim of Rights also by transfer of appropriations initiated prior to 6/15/17 by certificates recorded in Book 1, pages 209 & 211.

Maximum quantity of water claimed 33.00
(cubic feet per second)

Head or average fall utilized 502 feet

Theoretical Horse Power Claimed (Head x c.f.s. ÷ 8.8) 1882.5
Light and power for Administrative Area of the Mount Rainier National Park and for Purpose hotels and campgrounds at Longmire and Paradise Areas of said Park.

Status of Power Project Unit Developed.
(Developed or undeveloped)

(If the unit is partially developed, give percentage of water claimed that is being used) %

December 15, 1944.
(Date)

(Sgd.) A. van V. Dunn.
(Signature of Claimant or Agent)
Chief, Water Rights Division,
National Park Service.

S. F. No. 380—1930. Approved as to Form by Dept. of Efficiency, 19618.

Proof of Appropriation of Water

- Application No. 5972 Permit No. 3816
- United States of America, Department of the Interior, National Park Service, by John C. Preston, Superintendent of Mt. Rainier National Park.**
- Name of applicant United States of America, Department of the Interior, National Park Service, by John C. Preston, Superintendent of Mt. Rainier National Park.
 - Postoffice address Longmire, Washington
 - Source of appropriation Paradise River tributary of Nisqually River
 - For what purpose or purposes is water used? hydroelectric power
 - Give date of beginning of construction summer of 1917
 - Give date of completion of construction work Sept. 12, 1925
 - When was all the water completely applied to proposed use? October 29, 1925
 - Fill in the following carefully, according to use. If for irrigation, fill in the number of acres described in permit and the number of acres actually irrigated (Water should be applied to the full number of acres to be irrigated before certificate can issue). If for power, give location of power plant and the theoretical horsepower described in permit. If for domestic supply, municipal, manufacturing or other uses, simply give the description of place of use.

PLACE OF USE			LEGAL SUBDIVISION	FOR IRRIGATION FILL IN FOLLOWING	
Section	Township	Range		No. Acres Described in Permit	No. Acres Actually Irrigated
22	15 N	8 E	E$\frac{1}{2}$ SW$\frac{1}{4}$ (unsurveyed)	1885	1072

LOCATION OF POWER PLANT			LEGAL SUBDIVISION	FOR POWER FILL IN FOLLOWING	
Section	Township	Range		H. P. Described in Permit	H. P. Actually Developed

FOR ALL OTHER USES

Section	Township	Range	LEGAL SUBDIVISION	

- During what months is water used? January 1 - December 31
- Does map filed with your permit show correctly the location of diverting work and area of land where water is used? Yes If not, state wherein such map is in error _____
- If the dimensions of your ditch or dam do not correspond to those described in your permit and the plans and specifications now on file in the office of the State Supervisor of Hydraulics, state what changes have been made, giving dimensions of ditch or other distributing works. (SEAL)

REMARKS: This development was completed with the installation of the second 400 KVA generator to bring the total capacity to 800 KVA or 1072 HP. To operate both units to full capacity requires a diversion of slightly more than 33 sec. ft., but the most efficient use of the water is obtained when the units are operating with 33 sec. ft. The full flow of 33 sec. ft., however, is only available at certain seasons of the year. The system is tied in to the system of the Public Utility Dist. No. 1, Lewis Co. and power demands in excess of the output of the Paradise hydroelectric plant are supplied by purchase from the Public Utility Dist. No. 1, Lewis Co. The demand 800 KVA, or more, has existed since 1925. Of the 33 sec. ft. used when available, 23.4 sec. ft. is covered by vested rights transferred under separate permits. This proof covers the 9.6 sec. ft. of additional water which has been used since the capacity of the generators was increased from 600 KVA to 800 KVA.

STATE OF WASHINGTON, }
County of Pierce } ss.

I, John C. Preston, being first duly sworn, depose and say that I have read the above and foregoing proof of appropriation of water; that I know the contents thereof; and that the facts therein stated are true.

IN WITNESS WHEREOF, I have hereunto set my hand this 10th day of June,
19 44

(SGD. JOHN C. PRESTON)

Subscribed and sworn to before me this 10th day of June, 19 44.

(SEAL)

(Sgd) Edw. S. Hall
United States Commissioner Notary Public.

S. F. No. 379—10-41—5C. 23439.

Notice of Complete Application of Water to a Beneficial Use

United States of America, Department of the Interior,
National Park Service, by John C. Preston,

I, Superintendent of Mt. Rainier National Park, holder of Permit No. 3816

issued by the State Supervisor of Hydraulics of Washington for the appropriation of 9.6 second-
feet of the waters of Paradise River, tributary of
Nisqually River, in accordance with the tenor of such
permit and the limitations endorsed thereon by the State Supervisor of Hydraulics, completely applied
the waters to a beneficial use on the 29th day of October, 1925, being within
the time limitation as fixed in said permit or extended by the State Supervisor of Hydraulics for the
complete application of water to a beneficial use.

(If all water granted in the permit has not been fully applied to beneficial use, give amount used in
percentage to the whole, so that subsequent appropriators may have notice. If permit is for irrigation
use, state per cent of lands not now watered.)

IN WITNESS WHEREOF, I have hereunto set my hand this 10th day of June, 1944.

(SGD. JOHN C. PRESTON

(Present address)

Mt. Rainier National Park, Longmire, Washington.

(Signature of applicant)

Notice of Completion of Construction

~~United States of America, Department of the Interior,~~
~~National Park Service, by John C. Preston,~~
I, Superintendent of Mt. Rainier National Park, the holder of Permit No. 3816

issued by the State Supervisor of Hydraulics of the State of Washington for the appropriation of
9.6 second-feet of the unappropriated waters of Paradise River, tributary of
Nisqually River, in
accordance with the tenor of such permits and the limitations endorsed therein by the State Supervisor
of Hydraulics, have completed the construction of the works described therein, on the 12th day of
September, 19 25

Remarks:

IN WITNESS WHEREOF, I have hereunto set my hand this 10th day of June, 19 44

~~(SCB) JOHN C. PRESTON~~

(Signature of Applicant)

Mt. Rainier National Park, Leavenworth, Washi

(Present Address)

Notice of Beginning of Construction

United States of America, Department of the Interior, National Park
I, Service, by John C. Preston, Superintendent of Mt. Rainier National Park,

the holder of Permit No. 3816 issued by the Supervisor of Hydraulics of the
State of Washington for the appropriation of 9.6 second-feet of the
unappropriated waters of Paradise River tributary of Nisqually River
in accordance with the tenor of such permit and the limitations endorsed thereon
by the Supervisor of Hydraulics, began the actual construction of the works
described therein/ea the 1st day of October, 1921.

The nature and the amount of construction work already done is as follows:

PER CENT COMPLETED:

Clearing 100%; Material in place 100%; Excavation 100%; Structure 100%.

Any additional information which may tend to show good faith in the prosecution of the work:

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of
JUN 5 1944, 19____.

(SGD. JOHN C. PRESTON
(Signature of applicant)

Mt. Rainier National Park, Longmire, Washington.
(Present address)

Mt Rainier Dec 19

Form 10: S. F. No. 376-7-26-40-334. 19676.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
Division of Hydraulics

Permit to Appropriate Public Waters of the State of Washington

Book No. 15 of Permits, on Page 3816 Under Application No. 5972

United States of America, Department of the Interior, National Park Service,
by John C. Preston, Superintendent of Mount Rainier National Park,
of Longmire, Washington

is hereby granted a permit to appropriate the following described public waters of the State of Washington, subject to existing rights and to the following limitations and provisions: Permittee shall construct and maintain at his own expense a weir, or other suitable device, for measuring any water granted herein for irrigation purposes and such appropriation shall be subject to a reasonable rotation system if ordered by the State Supervisor of Hydraulics; and it is further provided that Permittee, in the use of water under this permit, shall comply with all the laws of the Departments of Fisheries and Game in accordance with Chap. 127, Laws of 1939, and all regulations and laws hereafter enacted.

Priority date of this permit is February 28, 1944

Source of the proposed appropriation is Paradise River
tributary of Nisqually River

The quantity of water appropriated shall be limited to the amount which can be beneficially applied and not to exceed 2.6 cubic feet per second, or its equivalent in case of rotation, to be used as set out below:

The approximate point of diversion is located whence the Southwest corner of Sec. 28,
Twp. 15 N., Rge. 8 E. W. M. bears S. 62°46' W. 12,311 feet,

being within approximate SW 1/4 of SW 1/4 Sec. 23, Twp. 15 N., Rge. 8 E. W. M.,
(unsurveyed)
county of Lewis County

The use, or uses, to which water is to be applied:

FOR DOMESTIC SUPPLY AND MISCELLANEOUS USES: _____ cubic feet per second during entire
year for _____ to be used
within _____ Sec. _____, Twp. _____ N., Rge. _____ W. M.

FOR IRRIGATION: _____ cubic feet per second, from _____ to _____
each year, for irrigation of _____ acres, described as follows:

For Power: 9.6 cubic feet per second continuously each year. Total power to be developed 548 theoretical horse power. Total fall to be utilized 502 feet.

Nature of works by means of which power is to be developed 2- 400 KVA generators driven by impulse turbines of SW 1

Works to be located in approximate E 1/2 Sec. 22, Twp. 15 N., Rge. 8 E W. M. (unsurveyed)

Water to be returned to Paradise River approximate E 1/2 of SW 1

Point of return near center of Sec. 22, Twp. 15 N., Rge. 8 E W. M. (unsurveyed)

Use to which power is to be applied to supply light and power for lodges, hotels, residences, campgrounds and other recreational and administrative facilities

~~For Municipal Supply: XXXXXXXXXXXXXXX cubic feet per second during entire year to supply XXXXXXXX at the Paradise and Longmire areas of Mt. Rainier National Park.~~

DESCRIPTION OF DIVERSION WORKS

Height of dam 8 ft.; Length on top 96 ft.; Length on bottom 50 ft.

Material to be used and character of construction Concrete

Description of headgate One 24" steel and concrete intake with trash racks and control gate.

CANAL SYSTEM

At HEADGATE: Width on top (at water line) _____ ft.; Width on bottom _____ ft.;

Depth of water _____ ft.; Grade _____ ft. fall per one thousand feet.

At _____ MILES FROM HEADGATE: Width on top (at water line) _____ ft.; Width on bottom _____ ft.; Depth of water _____ ft.; Grade _____ feet per one thousand feet.

Progressing from diversion there are: 1198 ft. of 24" wood stave; 1315 ft. of 20" wood stave; and 1894 ft. of 18" wood stave. The gradient is variable with a control of 57.5 ft. per 1000 ft. in the 24" section.

(Please read carefully provisions below)

Construction work shall begin on or before Already started

and shall thereafter be prosecuted with reasonable diligence and completed on or before _____

Completed

and complete application of water to proposed uses shall be made on or before _____

October 1, 1945

Given under my hand and the seal of this office at Olympia, Washington, this 18th day of May, 1944.

Charles B. Bartlett
State Supervisor of Hydraulics.

INSTRUCTIONS

This permit is not a final water right but a license to proceed with construction and use the water, under the provisions of the permit, pending the time that the final certificate of water right is issued.

Actual construction work must be commenced, the project must be completed, and water put to beneficial use within the time fixed by the permit. The times for commencement and completion will be found on the second page of this permit.

Accompanying this permit is a blank for making report of beginning of construction and thereafter blanks, as listed on the back of the permit, will be furnished you and must be filled out and filed in this office as the work progresses. *Failure to file the required notices or to comply with the provisions for protection of fish life may result in cancellation of the permit.*

Should it be impossible for you to begin or to complete the work before the expiration of the time fixed in the permit, you should make application to the Supervisor of Hydraulics for an extension of time, stating reasons why such an extension is needed.

Any assignment of this permit must be in writing and must be recorded in this office in order to be valid. There is a statutory fee of \$2.00 for recording assignments.

This permit is issued subject to vested rights and all beneficial uses made of the water prior to the date of filing of the application for this permit, and it should be understood that the diversion must be so regulated that it will not injuriously affect such prior rights.

When all of the water has been put to the beneficial use or uses set out in the permit and all notices filed "Certificate of Water Right" will be issued. *Such certificate gives final title to the water granted.*

CHAS. J. BARTHOLET,
State Supervisor of Hydraulics.

Before your certificate of water right is issued it will be necessary to file with the State Supervisor of Hydraulics each of the following reports:

1. Notice of Beginning of Construction.
2. Notice of Completion of Construction.
3. Notice of Complete Application of Water to a Beneficial Use.
4. Proof of Appropriation of Water.

Upon a satisfactory showing that the appropriation has been perfected as provided by statute the State Supervisor of Hydraulics will issue a water right certificate.

(Blanks will be furnished by the office of the Supervisor of Hydraulics)

Application No. 1972
Permit No. 3816

PERMIT
To Appropriate Public Waters of the
State of Washington

County Lewis
Issued to U.S. of America, Dept. of Interior, National Park Service
of Longme, Wash.

This instrument was first received in the office of the State Supervisor of Hydraulics, Olympia, Wash., on the 23th day of February, 1944 at 2:30 o'clock A. M.

Approved May 18, 1944
Recorded in Book No. 15 of
Permits, on page 3816

CHAS. S. BENTON
State Supervisor of Hydraulics.

G. H. OLSEN, PUBLIC PRINTER

Affidavit of Publication

THE CHEHALIS ADVOCATE

STATE OF WASHINGTON, } ss.
COUNTY OF LEWIS

George B. Hayden, being first duly sworn on oath
deposes and says that he is Foreman

CHEHALIS ADVOCATE, a weekly newspaper, which has been established, published in the English language, and circulated continuously as a weekly newspaper in the City of Chehalis, and in said county and State, and of general circulation in said county for more than six (6) months prior to the date of the first publication of the Notice hereto attached, and that the said Chehalis Advocate was on the 1st day of July, 1941, approved as a legal newspaper by the Superior Court of said Lewis County, as provided in Chapter 213, Session Laws of 1941, and that the annexed is a

true copy of a *Notice of Publication*

as it was published in regular issues (and not in supplement form) of said newspaper once each week for a period of *2* consecutive weeks, commencing on the

22 day of *March*, 19*41*, and ending on the

6 day of *March*, 19*41*, both dates inclusive, and that such newspaper was regularly distributed to its subscribers during all of said period, that the full amount of the fee charged for the foregoing publication is the sum of \$ *6.54* at the rate of \$1.40 a hundred words for the first insertion, and 80 cents a hundred words for each subsequent insertion.

George B. Hayden
Publisher - Foreman

Subscribed and sworn to before me this

8 day of *April*, 19*41*

W. A. ...
Notary Public in and for the State of Washington, Residing in Chehalis.

NOTICE OF WATER RIGHT
APPLICATION NO. 5072
State of Washington, Office of Supervisor of Hydraulics, Olympia.
To Whom It May Concern: Notice is hereby given that the United States of America, Dept. of the Interior, National Park Service, by John G. Prosser, Supt. of Mount Rainier National Park, Longmire, Washington, under date of February 28, 1944, filed with the State Supervisor of Hydraulics, Olympia, Washington, an application for a permit to divert the public waters of Paradise River tributary of Nisqually River, in the amount of 9.6 second-feet, subject to existing rights, from January 1 to December 31, inclusive, of each year for the purpose of supplemental supply for electric power; that the point of diversion is located within the approximate SW 1/4 of SW 1/4 of Section 23, Township 15 N., Range 8 E., W. M., (unsurveyed) in Lewis county. A map showing the location and plan of said diversion and the place of proposed use is on file in the office of the State Supervisor of Hydraulics, Olympia, Washington, together with such other information as is required by law. Any person, firm or corporation who feels that his right will be injuriously affected by said application may file with the State Supervisor of Hydraulics, at Olympia, Washington, such objections or representations, in writing, as he may desire to make, within thirty (30) days after date of last publication, which date is April 6, 1944.
Witness my hand and official seal this 1st day of March, A. D. 1944.
CHAS. J. BARTHOLET,
State Supervisor of Hydraulics,
March 30, April 6.

State of Washington
OFFICE OF SUPERVISOR OF HYDRAULICS
OLYMPIA

NOTICE OF WATER RIGHT APPLICATION NO. 5972.....

TO WHOM IT MAY CONCERN: the United States of America, Dept. of the Interior

Notice is hereby given that ~~/National Park Service, by John C. Preston, Supt.~~
of ~~Mount Rainier National Park, Summit of Longmire, Washington~~
under date of ~~February 28, 1944~~, filed with the State Supervisor of Hydraulics, Olympia,
Washington, an application for a permit to divert the public waters of ~~Paradise River~~
tributary of ~~Nisqually River~~, in the amount of ~~9.6 second-feet~~,
subject to existing rights, from ~~January 1~~ to ~~December 31, inclusive~~,
of each year for the purpose of ~~supplemental supply for electric power;~~

that the approximate point of diversion is located within ~~the approximate SW1 of SW1~~

(unsurveyed)

of Section ~~23~~, Township ~~15~~ N., Range ~~8 E.~~ W. M. in ~~Lewis~~ County.
A map showing the location and plan of said diversion and the place of the proposed use is on file
in the office of the State Supervisor of Hydraulics, Olympia, Washington, together with such other
information as is required by law.

Any person, firm or corporation whose right will be injuriously affected by said application
may file with the State Supervisor of Hydraulics, at Olympia, Washington, such objections or
representations, in writing, as he may desire to make, within thirty (30) days after date of last
publication, which date is _____

Witness my hand and official seal this ~~1st~~ day of ~~March~~, A. D. 19~~44~~

~~CHAS. J. BARTHOLET~~
State Supervisor of Hydraulics.

Form 10. S. F. No. 370--1936. 8241.

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
Division of Hydraulics

APPLICATION FOR A PERMIT
To appropriate Public Waters of the State of Washington

Application No. 5972 Permit No. _____

I, United States of America, Department of the Interior, National Park Service,
by John G. Preston, Superintendent of Mount Rainier National Park,
(Name of applicant)

of Longview, County of Pierce
(Postoffice)

State of Washington, do hereby make application for a permit to appropriate
the following described public waters of the State of Washington subject to existing rights:
If the applicant is a corporation, give date and place of incorporation _____

1. The source of the proposed appropriation is Paradise River
(Name of stream)

tributary of Nisqually River.

2. The amount of water which the applicant intends to apply to beneficial use is 9.6
cubic feet per second.

3. The use to which the water is to be applied is supplemental supply for electric power.
(Irrigation, power, mining, manufacturing, domestic supplies, etc.)

4. Time during which water will be required each year January 1 to December 31 inclusive.

5. The approximate point of diversion is located whence SW corner of Section 28, T. 15 N.,
R. 8 E., W.M., bears S. 62°46' W. 12,611 feet,
(Give distance and bearing to section corner)

being within the SW 1/4 SW 1/4 (unsurveyed) of Sec. 23, T. 15 N., R. 8 E., W. M.
(Give smallest legal subdivision) (E. or W.)

in the county of Pierce, Lewis

6. The main pipe line to be 4407 ft. or miles in length, terminating
(Main ditch, canal, or pipe line)

in the E 1/2 SW 1/4 (unsurveyed) of Sec. 22, T. 15 N., R. 8 E. W. M.
(Smallest legal subdivision) (E. or W.)

the proposed location being shown on the accompanying map. (Nisqually River Water Claims, Mount
Rainier National Park - NP-SAL-6983).

7. The name of the ditch, canal or other works is Paradise Power Pipe Line.

8. Estimated cost of development necessary to utilize fully the appropriation herein asked for
\$ 40,000.00 (see remarks).

9. Does the stream from which you wish to appropriate water flow through the tract of land on
which the water is to be used? Yes

10. Do you own the required right-of-way for the proposed works? Yes.

DESCRIPTION OF WORKS

DIVERSION WORKS—

11. (a) Height of diversion dam 8 feet; length on top 96 feet;
length at bottom 50 feet; material to be used and character of construction
concrete.
(Loose rock, concrete, masonry, rock and brush, timber crib, etc., wasteway over or around dam)

(b) Description of headgate One 24" steel and concrete intake with trash racks and
control gate.
(Timber, concrete, etc.; number and size of openings)

When storage works are contemplated a storage permit must be filed in addition to the above. These forms can be secured, together
with instructions, by addressing the State Supervisor of Hydraulics, Olympia, Washington.

CANAL SYSTEM—

12. (a) Give approximate 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.

Progressing from diversion there are: 1198 ft. of 24" wood stave; 1315 ft. of 20" wood stave; and 1894 ft. of 18" wood stave. The gradient is variable with a control of 57.5 ft. per 1000 ft. in the 24" section.

SUPPLY THE FOLLOWING INFORMATION ACCORDING TO USE PROPOSED:

IRRIGATION—

13. The land to be irrigated has a total area of _____ acres, described as follows: _____

(Give legal subdivision by section, township and range)

(If more space is required, attach separate sheet)

14. Give the legal description of land when water is to be used for purposes other than irrigation, power and municipal supply _____ Sec. _____, Tp. _____ N., Rge. _____ W. M.,
(Legal subdivisions) (E. or W.)

(a) To what stream is water returned _____

(b) Locate the point of return _____ Sec. _____, Tp. _____ N., Rge. _____ W. M.,
(Smallest legal subdivision) (E. or W.)

POWER—

15. (a) Total amount of power to be developed **1885 (see remarks)** H. P.
(Theoretical horsepower)

(b) Total fall to be utilized **502** feet.
(Head)

(c) The nature of the works by means of which the power is to be developed _____

There are 2 - 400 KVA generators driven by impulse turbines. (See remarks.)

(d) Such works to be located in **unsurveyed E $\frac{1}{2}$ SW $\frac{1}{4}$** of Sec. **22**,
(Legal subdivision)
Tp. **15 N** N., Rge. **8 E.** W. M.
(E. or W.)

(e) To what stream is the water to be returned **Paradise River.**

(f) Locate point of return **near center of E $\frac{1}{2}$ SW $\frac{1}{4}$** Sec. **22**,
Tp. **15** N., Rge. **8 E.** W. M.
(E. or W.)

(g) The use to which power is to be applied is **to supply light and power for lodges, hotels, residences, campgrounds and other recreational and administrative facilities at the Paradise and Longmire areas of Mt. Rainier National Park. (See remarks.)**

MUNICIPAL SUPPLY—

16. To supply the city of _____

(Name)

County, having a present population of _____

and an estimated population of _____ in 19 _____

(a) Estimated present requirement _____

(b) Estimated future requirement _____

was begun

17. Construction work ~~will begin on or before~~ October 1, 1921.18. Construction work ~~will be completed on or before~~ is completed.

Duplicate maps of the proposed ditch or other works, prepared in accordance with the rules of the State Supervisor of Hydraulics accompany this application.

United States of America,

(Name of applicant)

Dept. of the Interior, National Park Service,

by /s/ John C. Preston

Superintendent, Mount Rainier National Park.

Signed in the presence of us as witnesses:

(1) /s/ O. W. Carlson, Mount Rainier National Park
(Name) (Address of witness)(2) /s/ Mary Boyd, Mount Rainier National Park
(Name) (Address of witness)

Remarks: See accompanying petitions to change points of diversion from Van Trump Creek (Christine Falls Power Plant) and Nisqually River (Longmire Power Plant) which systems were built in 1916 and 1911 respectively. During the summer of 1921 the Paradise power plant, herein described, was built to replace the two older systems. The initial installation at Paradise consisted of 600 KVA capacity, using the 200 KVA plant from Van Trump Creek as one unit. (It was not possible to use Longmire generator unit at Paradise because of extreme difference in head.) The Van Trump and Longmire diversions used in excess of 23.4 sec. ft. of water for which vested rights are claimed under aforesaid petitions for change in points of diversion. The present Paradise plant uses 33.0 sec. ft. when available, leaving 9.6 sec. ft. newly appropriated since June 15, 1917, for which application is hereby made. The total cost of the Paradise hydroelectric installation was approximately \$135,000, of which \$40,000 is chargeable to the supplemental diversion of 9.6 sec. ft.

STATE OF WASHINGTON,

COUNTY OF THURSTON.

} 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: _____

In order to retain its priority, this application must be returned to the State Supervisor of Hydraulics, with corrections, on or before _____, 19 _____

WITNESS my hand this _____ day of _____, 19 _____

State Supervisor of Hydraulics.

PERMIT

This is to certify that I have examined the foregoing application and do hereby grant the same, subject to the following limitations and conditions: This permit is issued subject to existing rights; if for irrigation, permittee shall construct and maintain at his own expense a weir or other suitable device for measuring the water granted herein and this appropriation shall be subject to such reasonable rotation system as may be ordered by the State Supervisor of Hydraulics.

The amount of water appropriated shall be limited to the amount which can be applied to beneficial use and not to exceed _____ cubic feet per second, or its equivalent in case of rotation.

The priority date of this permit is _____

Actual construction work shall begin on or before _____

and shall thereafter be prosecuted with reasonable diligence and be completed on or before _____

Complete application of the water to the proposed use shall be made on or before _____

Given under my hand and the seal of this office at Olympia, Washington, this _____ day of _____, 19 _____

State Supervisor of Hydraulics.

Application No. _____ Permit No. _____	PERMIT To Appropriate Public Waters of the State of Washington	Filed by _____ County of _____ This instrument was first received in the office of the State Supervisor of Hydraulics, Olympia, Washington, on the _____ day of _____, 19 _____, at _____ o'clock _____ M.	Approved _____ Recorded in Book No. _____ of _____ Permits, on Page _____ State Supervisor of Hydraulics. STATE PRINTING PLANT, OLYMPIA, WASH.
---	---	--	---

Before your certificate of water right is issued it will be necessary for you to file with the State Supervisor of Hydraulics a copy of each of the following reports:

- 1st. Progress reports (in case temporary permit is issued).
- 2nd. Affidavit of publication of notice of water right application.
- 3rd. Notice of beginning of construction.
- 4th. Notice of completion of construction.
- 5th. Notice of application of water to a beneficial use.
- 6th. Proof of appropriation of water.

Upon a satisfactory showing that the appropriation has been perfected as provided by statute the State Supervisor of Hydraulics will issue a water right certificate.

(Blanks will be furnished by the office of State Supervisor of Hydraulics)

Supporting Hydro Data

Method Used to Determine
Vested Water Rights
on
Van Trump Creek
and
Misqually River

By

A. van V. Dunn
Hydraulic Engineer

Van Trump Creek (Christine Falls Power Plant - Priority 1916)

Installed capacity, 200 KVA = 268 Horsepower.

Gross Head - 400 ft.

Pipe Line: 1151 ft. of 14 inch & 1188 ft. of 12 inch.

Horse Power at 80% Efficiency = $\frac{\text{Flow} \times \text{head}}{11}$

Flow = 7.37 sec. ft.

Head Loss in 14" Pipe	-	20.6 ft.
Head Loss in 12" Pipe	-	44.6 ft.
Total Head Loss	-	65.2 ft.
Gross Head	-	400.0 ft.
Net Power Head	-	334.8 ft.

Horse Power generated at 100% eff. $\frac{7.37 \times 334.8}{8.8} = 281 \text{ H.P.}$

Efficiency of generator unit = $268/281 = 96\%$ which is o.k.

In order not to claim too much, claim right to 7.35 sec. ft.

Misqually River (Longmire Power Plant - Priority 1908)

Installed Capacity unknown.

Gross Head - 40 ft.

Pipe Line: 1025 ft. of 24 inch.

Assume 60 Horsepower unit (about 45 KW)

60 Horsepower at 80% Efficiency = $\frac{\text{flow} \times 40}{11}$

Flow = 16.5 sec. ft.

See next page for
computation of 9.6 cfs →

Head Loss in 24" Pipe -	5.8 ft.
Gross Head -	<u>40.0 ft.</u>
Net Power Head -	34.2 ft.

Horsepower generated at 100% eff. = $\frac{16.5 \times 34.2}{8.8} = 64.2 \text{ H.P.}$

Efficiency of generator unit = $60/64.2 = 93.5\%$ which is o.k.

Accept claim of vested right to 16.5 sec. ft.

In 1917 when the water code was adopted the 200 KVA unit at Christine Falls served 600 guests at Paradise and the Longmire Plant served 350 guests.

Water Rights Procedure

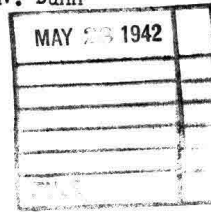
Van Trump right -	7.35 sec. ft.
Longmire right -	<u>16.50 sec. ft.</u>
Total right to transfer to Paradise Hydroelectric Plant -	23.85 sec. ft.

Per Dunn's report on Mt. Rainier Water Claims, Nisqually Drainage, dated Feb. 22, 1943, the best possible installation at Paradise would require - 23.40 sec. ft.
which is here claimed as vested right.

This shows that present need and vested rights are equal. In analysis of the Paradise installation in May 1942 Engineer L. L. Hohl determined that maximum efficiency of the actual penstock results with diversion of 33.0 sec. ft. The difference, or 9.6 sec. ft., constitutes new appropriation since June 15, 1917, for which an application for appropriation is being filed.

Mr. F. W. Dunn

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA
601 Sheldon Building



May 12, 1942.

MEMORANDUM for the Regional Director.

TECHNICAL COMMENT

Mount Rainier N. P. - Water Demands for Power

Reference is made to Superintendent Preston's memorandum of May 9 verifying our data of the sizes of pipe used in the penstock of the Paradise hydro-electric plant operated by the Rainier National Park Company.

As shown in another memorandum the maximum power output for any penstock occurs when the frictional loss is equal to $1/3$ of the total static head available. Under these circumstances it was shown that 33 sec. ft. of water would be required, for the maximum power output of the penstock, which is the determining factor (bottle-neck) in this installation. We note further that unless the plant has an overall efficiency of 86% or more, which is improbable, the 800 installed KVA are impossible of realization. Finally loads at or near the physical limit are almost invariably above the economic limit for a given size penstock.

The conclusion therefore is:- We are not justified in diverting from Stevens Creek a flow which when added to the Paradise Creek flow will be in excess of 33 sec. ft., unless the penstock is enlarged.

Leonard L. Hohl
Associate Engineer.

cc: Superintendent, Mount Rainier N.P.
Mr. Dunn
Monthly Report (3)

TABULATION OF DATA FOR STUDY OF WATER RIGHTS								
1- General Name of Water System	2- Location (By Township, Range or Other)	3- Source of Supply (If a Spring, name Stream which is Trib)	4- Location of Point of Diversion	5- Places Where Water is Used	6- Nature of Use (Domestic, Sanitary, Fire, etc.)	7- Method of Diversion	8- Cond. of System	9- Place, Amount and Condition of Return. Is there Pollution?
1. Langmuir	Sec. 28, 29, 32, 33 T15N, R8E	Cold Creek	Sec. 33 T15N, R8E	Headquarters buildings, utility area, residences, camp ground	Domestic, sanitary, fire protection	Dam, pipe line	Good	1/4 mile - Under long term 90% - No pollution 2-20 Nisqually River
2. Langmuir Operator	Sec. 28, 29, 32, 33 T15N, R8E	Creek tributary to Nisqually River	Sec. 29 T15N, R8E	Inn cabins and operator's utilities	Domestic, sanitary, fire protection	Dam, pipe line	Fair	1/4 mile - Under long term 100% - No pollution 2-20 Nisqually River
3. Rock Crusher	Sec. 28 T15N, R8E	Nisqually River	Sec. 28 T15N, R8E	Rock crusher	Industrial	Pump and pipe line	Good	0.7 mile - Under long term 100% - No pollution
4. Paradise Valley	Paradise Valley	Edith Creek		Operator, Govt. Bldgs, camp ground	Domestic, sanitary, fire protection	Dam and pipe line	Fair	1/4 mile - Under long term 100% - No pollution
5. Yakima Park	Yakima Park	Lodi Creek & Frazee Lake	Berkeley Park	Operator, Govt. Bldgs, camp ground	Domestic, sanitary, fire protection	Dam, pump pipe line	Good	1/4 mile - Under long term 100% - No pollution
6. White River Entrance	White River	Klickitat Cr		Govt. buildings	Domestic, sanitary, fire protection	Dam, pipe line	Good	1/4 mile - Under long term 100% - No pollution
7. Tipsoo Lake (Proposed)	Tipsoo Lake	Springs trib. to Chinook Cr.		Picnic area, comfort stations, future ranger sta.	Domestic, sanitary	Collecting basin pipe line		1/4 mile - Under long term 100% - No pollution
8. Nisqually Entrance	Sec. 24 T15N, R7E	2 creeks trib. to Nisqually Riv.	Sec. 24 T15N, R7E	Government buildings	Domestic, sanitary	2 Dams, pipe lines	Good	1/4 mile - Under long term 100% - No pollution
9. Lake George	Lake George	Lake George		Ranger station	Domestic	Dipped		100% - No pollution
10. St. Andrews Cr.	west Boundary	St. Andrews Cr.	-1	Patrol cabin	Domestic	Dipped		100% - No pollution
11. Sunset Park	Sunset Park	Lake trib. to Mowich Riv.		Patrol cabin	Domestic	Dipped		100% - No pollution
12. Mowich Entrance (Proposed)	Sunset Park	Creek trib. to Mowich Riv.		Maint. Camp and Camp Ground	Domestic	Pump and pipe line		100% - No pollution
13. Mowich Lake	Sec. 27 T17N, R7E	Creek trib. to Mowich Riv.	Sec. 27 T17N, R7E	Maintenance camp, ranger sta. comfort sta.	Domestic, sanitary	Dam and pipe line		100% - No pollution
13a. Mowich Lake (Proposed)	Sec. 25 T17N, R7E	Mowich Lake	Sec. 25 T17N, R7E	Ranger Station	Domestic	Dipped		100% - No pollution
	Sec. 25 T17N, R7E	Creek Trib. to Mowich Riv.	Sec. 25 T17N, R7E	Ranger Station, Camp Ground	Domestic	Dam and pipe line		100% - No pollution

Note: In answering, please refer to Letter of the Director under Date of Feb. 7, 1935. When space in column is inadequate, write information on separate sheet and indicate in column by "Note A", "Note B", etc.

Refer to Docket No. MORA-0001 Laughingwater Pipeline for a complete inventory of all existing water uses/rights/systems in Mount Rainier National Park as of May 1935.

Other Supporting Information

MOUNT RAINIER WATER RIGHT DOCKETS					
Dockets now distributed to Region, Superintendent and WODC					
Docket No.	Permit No.	Water System	Drainage System	Drawing No.	Time for Next Action
1	3709	Laughing Water Pipeline	Chamapocosh	6978	10/1/60
2	3714	Tipsco Lake Pipeline	Chamapocosh	6985	10/1/60
3	3716	Shadow Lake Outlet Pipeline	White River	6984	10/1/60
4	3717	Klickitat Pipeline	White River	6984	10/1/60
12	3813	Misqually Entrance Water System	Misqually River	6983	10/1/60
Dockets now distributed to Region and Superintendent, and of which copies are being sent to WODC					
6	3710	Clinic Pipeline	Chamapocosh River	6978	10/1/61 Ext. of time to WODC dockets
3	3711	Spring 6 Pipeline	Chamapocosh River	6978	10/1/61
4	3713	Lodi Spring Pipeline	White River	6984	10/1/60
5	R-134	Frozen Lake Storage	White River	6984	(Report of 10/2/58 distributed 10/23/58)
7	3715	Frozen Lake Diversion	White River	6984	See Dunn's letter 10/1/58 to Superintendent
10	3768	Carbon River Entrance Pipeline	Carbon River	6986	10/1/61 (Ext. of time due)
11	3769	Isput Creek Pipeline	Carbon River	6986	10/1/61 (Initiated when due on 11/1/59)
13	3814	Fahona Vista	Misqually River	6983	10/1/61 Ext. of time to WODC dockets
14	Certificate No. 208	Longmire Water System	Misqually River	6983	None unless system altered
15	211	Paradise Hydroelectric System	Misqually River	6983	"
16	209	Paradise Hydroelectric System	Misqually River	6983	"
17	2081	Paradise Hydroelectric System	Misqually River	6983	"
18	210	Paradise Water System	Misqually River	6983	"
19	Permit No. 3815	Paradise Water System	Misqually River	6983	10/1/61 (Permit No. 3815)

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO 54, ILL.

File
January 8, 1945.



ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

MEMORANDUM for the Regional Director, Region Four.

Enclosed are two photostat copies of Certificate of Water Right No. 5-2081 under Water Right Application 5972, Permit 3816, which should be attached at the top of the assembly of Mt. Rainier Deed No. 19 as filed in your office and at the park. This completes the perfection of this water right, and since the remainder of the rights for the Paradise hydroelectric plant are transfers of vested rights from the Nisqually River and Van Trump Creek, which have also been completed, all rights are now adjusted for the operation of this plant to the extent of 33 second-feet.

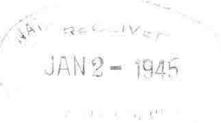
W. A. Swan
Chief, Water Rights Division.

Enclosure 453.
In duplicate.

Copy sent with permit 1/17/45 HRS

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

Mount Rainier National Park
Longmire, Washington



Name	Date
<i>[Signature]</i>	1/2

December 29, 1944.

MEMORANDUM for the Director

There is enclosed Certificate of Water Right No. 2081 issued under Permit No. 3816, which has just been returned by the Lewis County Auditor, after having been properly recorded in that office.

[Signature]
O. W. Carlson
Acting Superintendent

CC-Rainier 12/20 with encs
25 1944

ROUTING
RDW 12/20

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

December 15, 1944.

MEMORANDUM for the Regional Director, Region Four.

We enclose two copies of a statement relating to claim of water rights for power purposes and annual license fee in connection therewith pertaining to the Paradise Hydroelectric Plant at Mount Rainier National Park which is now covered by License No. 2081 (Deed No. 19). One copy of this form should be attached to your assembly of the deed and one to that at the Park. *Water Rights*

In order to expedite matters, I have signed them as agent and sent the original directly to the State Supervisor of Hydraulics as indicated in the attached copies of the letter of transmittal.

It will be noted that, although we have obtained the license, we really know very little about the actual amount of water diverted at any time, and the quantity shown is based on the analysis by Mr. Hohl of several years ago. The concessioner may actually run either more or less water through at various times. The assumption, however, is made that full quantity has been used at some time during the past year to satisfy the demands of this Service even though the hotels themselves were largely shut down. It will be desirable when convenient for an engineer to investigate the measuring facilities at the headgate and if possible arrange for some records of the quantity of water actually diverted from time to time throughout the year in order that we may have a better idea for future reports.

It should be of interest to this Service and to the concessioner to know that this statement involves no payment so long as the United States is the owner of the water right, but that if the right had been perfected in the name of the concessioner there would have been an annual license fee of approximately \$118.00.

A. van Dusen
Chief, Water Rights Division.

Enclosure 147.

In duplicate.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
CHICAGO, ILLINOIS

ADDRESS ONLY
THE DIRECTOR, NATIONAL PARK SERVICE

December 18, 1944.

State Supervisor of Hydraulics,
Olympia, Washington.

Dear Sir:

Your letter of December 4 to Superintendent Preston of Mount Rainier National Park, with regard to the statement relative to claim of water rights for power purposes and annual license fee in connection therewith, has been referred to us for action.

We return herewith the statement made out to cover all power generated by the Paradise Hydroelectric Plant at Mount Rainier National Park. We note at the top of the form that a separate statement should be made for each claim or unit. In this case we have considered the unit the power plant which is operated under Certificate 2081 for a new appropriation, and Certificates 209 and 211 for transfer of right appropriated prior to June 15, 1917. Please advise if this method is not satisfactory.

In summing up the power under the three certificates, there is a total beneficial water use of 33.45 second-feet, whereas, so far as we know, 33 second-feet is all that is nominally used, and this quantity only when the water is available.

To answer your last paragraph, this seems to be the only power development under the jurisdiction of the National Park Service with an output of more than 50 theoretical horse power now existing in the State of Washington. The only other national park or monument in the State now using water is the Olympic National Park, where we have a development with 11 theoretical horse power under Certificate 2-822.

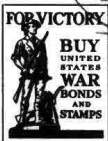
Yours very truly,

(SGD.) A. VAN V. DUNN

A. van V. Dunn,
Chief, Water Rights Division.

Enclosure 29.

cc: Regional Director, Region Four (2).



December 14, 1944.

The following, relating to power license fees at Mt. Rainier, are attached:

1. Memo of December 7 from Acting Supt. Carlson to Director.
2. Letter of December 4 from State Supervisor of Hydraulics to Supt. Preston.
3. Copy of Chapt. 105 of State water code.
4. A paneil draft of approximate statement to be filed (if 3 statements are needed, it will be necessary to claim 33.45 sec. ft., 1,905 HP, and pay a fee of \$118.10 instead of the indicated \$117.65.)
5. Mt. Rainier Deed 1 covering only conveyance of concessioner's property to date.

Questions:

*no fee required of US per
V. M. (C) 12/14/44*

1. Should the United States or Mt. Rainier National Park Service pay these annual fees which are now required?
2. If the United States is to pay, should it be water rights or administrative charge (Park may not have funds for this year)?
3. If the concessioner should pay, should its contract with United States be amended to cover such procedure?
4. Is it certain that the United States or concessioner must pay a fee for developments of more than 50 HP in a national park (what about State cession of jurisdiction)?

Historical Notes:

Mr. Longmire constructed a power plant on the Nisqually River in 1911. Mr. Reese constructed a power plant on Van Trump Creek in 1916. The Mt. Rainier National Parks Company built the Paradise River power plant in 1921 with greater power than the sum of the first two, and transferred part of the equipment and removed the rest of these earlier developments. In December 1938 the Longmire Mineral Springs Company conveyed all its property at Longmire, including water rights, to the United States, excepting only the National Park Inn. My belief is that the Longmire Mineral Springs Company and Mt. Rainier National Park Company are the same by change of name or subsidiary status of one. At all events, the National Park Inn and Paradise Lodge are one concession and the manager, Mr. Sceva, also has charge of the hydroelectric plant.

During 1943-1944 the National Park Service perfected water rights to cover all water developments by the concessioner as well as this Service. Therefore, the concessioner now seems to own the hydroelectric plant, while

this Service owns the land, water rights, and those power line laterals required to deliver power to the developments of this Service. Both this Service and the concessioner use power from the system. I have not investigated terms under which service is provided to the National Park Service.

A. V. and Sean

Chief, Water Rights Division.

Enclosures.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
DEC 11 1944
Mount Rainier National Park
Longmire, Washington

December 7, 1944

MEMORANDUM for the Director.

There are enclosed forms which have just been received from the State Supervisor of Hydraulics for statement of claim of water rights for power purposes in accordance with Chapter 105, Laws of 1929, a copy of which is also enclosed. Apparently the only water right involved is the one covered under Permit 3816 (Certificate 2081), which covers the Paradise River power plant of the Rainier National Park Company. This Certificate was forwarded to the Auditor, Lewis County for recording where it is apparently being held pending receipt of payment therefor. As soon as the Certificate is returned it will be forwarded to your office.


C. W. Carlson
Acting Superintendent

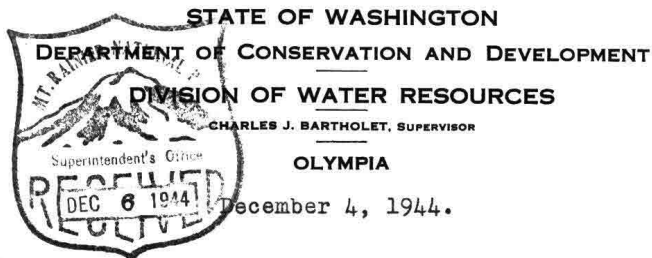
aa Regional Director

ARTHUR B. LANGLEIE
GOVERNOR

ED DAVIS
DIRECTOR



ED 12/14/44



December 4, 1944.

Mr. John C. Preston, Supt.
Mount Rainier National Park
Longmire, Washington

Dear Sir:

Re: Statement of Claim of
Water Rights for Power.

We are enclosing forms for statement of claim of water rights for power purposes in accordance with Chapter 105, Laws of 1929, a copy of which is also enclosed.

Your attention is called to the provision at the bottom of the first page, which states "That upon the filing of statement, as hereinafter required, by the United States or the state claiming the right to the use of water to any extent for the generation of power, or any other claimant to the use of water for the generation of 50 horse-power, or less, shall be exempted from the payment of all fees hereinafter required."

Therefore, although you are not required to pay any power license fee, it will be necessary to file claim for our records.

The water right for power to which we particularly call your attention is the one granted under Permit 3816 (Certificate 2081) for development of 548 theoretical horse power.

If there are other water rights for power claimed by the National Park Service in the State of Washington for development of over 50 theoretical horse-power, a statement of claim should be filed to cover them also.

Yours very truly

CHAS. J. BARTHOLET

Supervisor of Hydraulics.

CJB:GH

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

November 21, 1944.

MEMORANDUM for the Director.

There is enclosed voucher signed by the Auditor, Lewis County, Washington, covering the recording of Water Right Certificate No. 2081 which has just been issued by the State Supervisor of Hydraulics. The delay in issuing this certificate was presumably caused by the non-receipt of the filing and recording fees. We have suggested to the Lewis County Auditor that the Certificate not be recorded until payment therefor has been received.

Now that funds have been cleared for the current fiscal year it should be possible to clear up the remaining transactions which have been pending for the past several months.

(Sgd) John C. Preston

John C. Preston
Superintendent.



UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
Mount Rainier National Park
Longmire, Washington

June 30, 1944.

MEMORANDUM for Hydraulic Engineer, Water Rights Section, *See 6-30-44 file*
c/o Director, National Park Service.

There is enclosed copy of letter from the State Supervisor of Hydraulics, dated June 29, 1944, acknowledging the receipt of various notices in connection with Permit No. 3816.

We have prepared a voucher in the amount of \$1.40 and forwarded same for signature. As soon as it is returned it will be submitted to the Regional Director, Region Four for payment. The date of the statement is June 29 so it is assumed it can be covered in the current year's appropriation.

John C. Preston
John C. Preston
Superintendent.

cc Region Four

S. F. No. 921-5-41-1M. 23013.

STATEMENT

**U. S. Dept. of the Interior
National Park Service
Mount Rainier National Park**

Olympia, Wash., **June 29**, 194**4**

Longmire, Washington

In Account With

**STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT**

**For Filing and Recording Certificate of Water Right
under Permit No. 3816:**

\$1.40



Mt Rainier - Deed 19

C O P Y

State of Washington
Department of Conservation and Development
Olympia

June 29, 1944.

Mr. John C. Preston, Supt.
Mount Rainier National Park
Longmire, Washington

Dear Sir:

Re: Permit No. 3816

We acknowledge receipt of the following notices in connection with the above numbered permit:

Notice of Beginning of Construction
Notice of Completion of Construction
Notice of Complete Application of Water
Proof of Appropriation

Of course, when certificate is issued under this permit it can only cover the 9.6 c.f.s. and 548 theoretical horse power covered by the permit, as we cannot cover old rights established by use before 1917 in the certificate. You are already entitled to water under the old right.

Final water right certificate will be issued upon payment of the fees set out in the attached statement.

Yours very truly

CHAS. J. BARTHOLET
Supervisor of Hydraulics

by /s/ G. Hallahan

Secretary.

G.H.

*For further details regarding "old rights" see
deeds 17 & 18*

(H) 7/8/44

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

June 11, 1944.

MEMORANDUM for Hydraulic Engineer, Water Rights Section,
c/o Regional Director, Region Four.

There are enclosed copies of Notices of Beginning of Construction under Water Right Permits 3813, 3814, 3815 and 3816, also copies of Notices of Completion of Construction, Complete Application of Water, and Proof of Appropriation under Permit 3816. The originals have been transmitted to the State Supervisor of Hydraulics, State of Washington, Olympia, Washington.

There was some delay in submitting these instruments to the State Supervisor of Hydraulics, but considerable checking of records was required in order to verify some of the dates.

John C. Preston
Superintendent

cc Region Four

P. S. This memorandum is being forwarded to Chicago and copies of instruments are being forwarded to the Region and retained in this office for our respective files.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

June 13th, 1944.

Mr. Chas. J. Bartholet,
State Supervisor of Hydraulics,
Olympia, Washington,

Dear Mr. Bartholet:

There are enclosed Notices of Beginning of Construction under Water Right Permits 3813, 3814, 3815 and 3816, properly executed, Notices of Completion of Construction, Complete Application of Water, and Proof of Appropriation under Permit 3816 are also enclosed.

Very truly yours,

John C. Preston
Superintendent.

cc Mr. Dunn
Region Four



ARTHUR B. LANGLEIE
GOVERNOR

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
ED DAVIS, DIRECTOR
TRANSPORTATION BUILDING
OLYMPIA

JUN 12 1944

DIVISIONS:
GEOLOGY
FORESTRY
RECLAMATION
FLOOD CONTROL
WATER RESOURCES
MINES AND MINING
COLUMBIA BASIN PROJECT

June 10, 1944.

Mr. A. van V. Dunn
Hydraulic Engineer
National Park Service
601 Sheldon Building
San Francisco, California

Dear Sir:

Enclosed is Certificate of Change of Point of Diversion and Place of Use of Waters of Nisqually River. This certificate should be recorded in both Pierce and Lewis counties and then returned to your office for your files. We are sending one original and four copies of the certificate.

Yours very truly

CHAS. J. BARTHOLET
Supervisor of Hydraulics

By *G. Hallahan*
Secretary.

G.H.

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

May 29, 1944.

State Supervisor of Hydraulics,
Olympia, Washington.

Dear Sir:

This will acknowledge receipt of Permits 3813, 3814, 3815, and 3816, together with forms for reporting beginning of construction completion of construction, and proof of appropriation of water.

We have prepared the notices of beginning of construction and submitted them to Superintendent Preston at Mt. Rainier for execution. We have also prepared and submitted all proofs to obtain final license under Application 5972, Permit 3816.

In making such proofs we wish to retain copies for the Director, Regional Director, Superintendent, and this Section. Therefore, to permit us to complete the other notices and proofs we should like to have five additional copies of the form used to report completion of construction under Permit 3815. We do not care to report completion under Permits 3813 and 3814 until after the war because we are not sure what changes in design may be required to meet the travel conditions of the future.

Since we will doubtless receive the permits on the four applications for amendment and transfer of vested rights shortly, it is requested that you send us enough of the forms needed for further notices to permit us to prepare five sets of each notice or proof as it becomes due. A franked label is enclosed for the mailing of these forms.

Yours very truly,

AvVD:sh

A. van V. Dunn,
Hydraulic Engineer.

S. F. No. 1912-12-43-25C. 5206.

STATE OF WASHINGTON

N^o 25409

Cash Receipt

Department of Conservation and Development

RECEIVED FROM National Park Service - Olympia, Wash., May 16, 1944
Fifty & no/100 DOLLARS 50⁰⁰
 To be placed to General Fund - Reclamation Revolving Fund
 the credit of: Trust Fund

Water Code
Filing & recording permit
application of 5969
5970 5971 + 5972
P. 3813-14-15-16

ED DAVIS, Director

ORIGINAL

By

M. Stool



ARTHUR B. LANGLEIE
GOVERNOR

STATE OF WASHINGTON

DEPARTMENT OF CONSERVATION AND DEVELOPMENT

ED DAVIS, DIRECTOR

TRANSPORTATION BUILDING

OLYMPIA

AP 5/20

DIVISIONS:

GEOLOGY
FORESTRY
RECLAMATION
FLOOD CONTROL
WATER RESOURCES
MINES AND MINING
COLUMBIA BASIN PROJECT

May 18, 1944.

Mr. A. van V. Dunn
Hydraulic Engineer
National Park Service
601 Sheldon Building
San Francisco, California

Dear Sir:

We are enclosing Permits Nos. 3813, 3814, 3815 and 3816 issued under your Applications Nos. 5969, 5970, 5971 and 5972, respectively.

As work on all of these projects has been started we are sending you forms for filing notices of beginning, completion of construction, complete application of water and proofs of appropriation, which should be filed as the work progresses.

Yours very truly

CHAS. J. BARTHOLET
Supervisor of Hydraulics

By *G. Hallahan*
Secretary.

G.H.

Receipt for \$50.00 filing and recording fees enclosed.

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

April 27, 1944.

Mr. Chas. J. Bartholet,
Supervisor of Hydraulics,
Olympia, Washington.

Dear Mr. Bartholet:

In accordance with your letter of April 25 with regard
to Applications 5969, 5970, 5971 and 5972, we enclose a voucher
for \$50 to cover the filing and recording of the permits. Please
sign as indicated and return for payment.

Yours very truly,

AVVD:sh

A. van V. Dunn,
Hydraulic Engineer.

Enc.



ARTHUR B. LANGLEIE
GOVERNOR

STATE OF WASHINGTON

DEPARTMENT OF CONSERVATION AND DEVELOPMENT

ED DAVIS, DIRECTOR
TRANSPORTATION BUILDING
OLYMPIA

APR 27 1944

DIVISIONS:

GEOLOGY
FORESTRY
RECLAMATION
FLOOD CONTROL
WATER RESOURCES
MINES AND MINING
COLUMBIA BASIN PROJECT

April 25, 1944.

Mr. A. van V. Dunn
National Park Service
601 Sheldon Building
San Francisco, 5, California

Dear Sir:

Re: Applications Nos. 5969, 5970,
5971 and 5972.

We note in your memorandum for the Superintendent of Mount Rainier National Park, dated April 13, a copy of which was sent to this office, that you are anxious to have the water rights under the above numbered applications perfected and permits issued as soon as possible.

These applications will be approved for permits as soon as the thirty day period after last date of publication expires, which will be May 8. We thought, however, that in the meantime you might wish to prepare a voucher for the fees for filing and recording permits and are therefore attaching a statement now.

We are now holding a check for \$20.00 to cover fees for certificates on the petitions for change of point of diversion, purpose and place of use filed at the same time as the above applications. As soon as the thirty day period has expired on these petitions we will issue the certificates on the three which were correctly advertised.

Yours very truly

CHAS. J. BARTHOLET
Supervisor of Hydraulics

By

G.H.

Secretary.

c.c.- John C. Preston, Supt.
Mount Rainier National Park.

S. F. No. 6721-8-41-1M. 23013.

STATEMENT

U. S. Department of the Interior
 National Park Service
 601 Sheldon Building
 San Francisco 5, California

Olympia, Wash., April 25, 1944

In Account With

STATE OF WASHINGTON
 DEPARTMENT OF CONSERVATION AND DEVELOPMENT

For Filing and Recording Permits under the following
 Applications to appropriate water:

No. 5969 for 0.1 c.f.s. from 2 unnamed tributaries
 of Misqually River

\$10.00

No. 5970 for 0.05 c.f.s. from unnamed tributary of
 Fish Creek

10.00

No. 5971 for 1.25 c.f.s. for domestic, recreational,
 and fire protection purposes and 0.25 c.f.s.
 for power, from 2 branches of Edith Creek

10.00

No. 5972 for 9.6 c.f.s. from Paradise River

20.00

(Filing and recording fees under these appli-
 cations are twice the examination fees, as
 provided for in Sec. 44 (b) of the Water Code-
 Sec. 7399 (b) Rem. Rev. Stat.)

\$50.00

C O P Y

State of Washington
Department of Conservation and Development
Olympia

April 10, 1944.

Mr. John C. Preston, Supt.
Mount Rainier National Park
Longmire, Washington

Dear Sir:

We acknowledge receipt of affidavits of publication set out in your letter of April 7.

We have also received today, direct from the Chehalis Advocate, two sets of affidavits of publication of notices of Applications Nos. 5971 and 5972 and of petitions for change of points of diversion, purpose and place of use of water on Rampart Creek, Van Trump Creek and Nisqually River.

We have checked over these notices and find them correctly published except the notice in the Chehalis Advocate in regard to petition for change of waters of Nisqually River, in which they have made an error in the Section, which is given as 33 instead of 23, as set out in the notice sent to them. We have marked this on the copy of notice, which we are forwarding to you. We doubt whether there will ever be any question regarding any of these changes as they are all within the park area, and therefore we will not require that the notice shall be republished. Of course, if you prefer to have it republished, the paper should do so, as it is their error, and we will leave the matter to your judgment.

We are forwarding the voucher from the paper for cost of publication and one copy of each notice, keeping the other set for our records. We hope this will be agreeable to you. If not, we will also send the other set to you upon request and have you return them to us later.

Yours very truly

CHAS. J. BARTHOLET
Supervisor of Hydraulics

By

Secretary.

G.H.

c.c.- A. van V. Dunn.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

April 7, 1944.

Mr. Chas. J. Bartholet,
State Supervisor of Hydraulics,
Olympia, Washington.

Dear Mr. Bartholet:

There are enclosed Affidavits of Publication received from
the Tacoma Daily Index covering the publication of the following
notices issued by your office:

- (1) Petition for change of points of diversion,
dated March 1, 1944
- (2) Water Right applications Nos. 5969, 5970 and 5971,
dated March 1, 1944
- (3) Petition for change of point of diversion,
dated March 11, 1944

Sincerely yours,

John C. Preston
Superintendent.

cc Region Four
Water Rights Section ✓

Attached are voucher from Tacoma Daily Index for payment (\$28.16);
also Affidavits of Publication for your files.

JCP

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

March 23, 1944.

Tacoma Daily Index,
726 Pacific Avenue,
Tacoma, Washington.

Gentlemen:

There are enclosed the following instruments issued by the State Supervisor of Hydraulics, which we request be published for two consecutive weekly issues of your newspaper:

Notice of Petitions for Change of Points of Diversion,
dated March 1, 1944
Notice of Water Right Applications Nos. 5969, 5970 and
5971, dated March 1, 1944
Notice of Petition for Change of Point of Diversion,
dated March 14, 1944

After publication has been completed kindly submit two copies of Affidavit of Publication to this office, both to be originals.

Charges should be billed on the enclosed voucher, which should be signed where indicated, and returned to this office for payment after publication has been completed.

Very truly yours,

John C. Preston
Superintendent.

cc Mr. Dunn ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

3/27

March 23, 1944.

The Chehalis Advocate,
Chehalis, Washington.

Gentlemen:

There are enclosed the following instruments issued by the State Supervisor of Hydraulics, which we request be published for two consecutive weekly issues of your newspaper:

Notice of Water Right Application No. 5972, dated March 1
Notice of Petitions for Change of Point of Diversion,
dated March 1, 1944
Notice of Water Right Application No. 5971, dated March 15

After publication has been completed kindly submit two copies of Affidavit of Publication to this office, both being originals.

Charges should be billed on the enclosed voucher, which should be signed where indicated, and returned to this office for payment, after publication has been completed.

Very truly yours,

John C. Preston
Superintendent,

cc Mr. Dunn ✓



ARTHUR B. LANGLEIE
GOVERNOR

STATE OF WASHINGTON

DEPARTMENT OF CONSERVATION AND DEVELOPMENT

ED DAVIS, DIRECTOR
TRANSPORTATION BUILDING
OLYMPIA

MAR 23 1944

DIVISIONS:
GEOLOGY
FORESTRY
RECLAMATION
FLOOD CONTROL
WATER RESOURCES
MINES AND MINING
COLUMBIA BASIN PROJECT

March 21, 1944.

[Handwritten signature] 3/22

Mr. A. van V. Dunn
Hydraulic Engineer
National Park Service
601 Sheldon Building
San Francisco 5, California

Dear Sir:

We acknowledge receipt of check for \$20.00 to cover fees for certificates of change under the four petitions for such change which were filed on February 28, 1944.

However, we will have to hold the check until the thirty day period after last date of publication of the notices has expired so that we can approve the petitions for certificates. We believe, though, that there will be no question but that the applications will be approved.

Yours very truly

CHAS. J. BARTHOLET
Supervisor of Hydraulics

By *[Handwritten signature]*
Secretary.

G.H.



ARTHUR B. LANGEIE
GOVERNOR

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
ED DAVIS, DIRECTOR
TRANSPORTATION BUILDING
OLYMPIA

March 15, 1944.

MAR 17 1944

DIVISIONS:
GEOLOGY
FORESTRY
RECLAMATION
FLOOD CONTROL
WATER RESOURCES
MINES AND MINING
COLUMBIA BASIN PROJECT

23/17

Mr. A. van V. Dunn
Hydraulic Engineer
National Park Service
601 Sheldon Building
San Francisco 5, California

Dear Sir:

Replying to your letter of March 10, regarding the publication of notices of water right applications Nos. 5969, 5970, 5971 and 5972 and four petitions for change of points of diversion, purpose and place of use:

Sec. 30 of our State Water Code states that such notices shall be published in one newspaper of general circulation published at the county seat of the county or counties in which the storage, diversion and use are to be made. We are enclosing a copy of the Water Code, which may be useful to you in future transactions with this office.

Concerning your comments:

1. Our letter requested that Applications 5969, 5970 and 5971 be advertised in Pierce County only. However, after checking over these applications again and your letter of March 4, the last paragraph on page 2, we have decided that Application #5971 should also be advertised in Lewis County and are accordingly sending a separate notice of that application to be advertised in that county.

2. Regarding publication of notice of Application #5972, the point of diversion on Paradise River is located in the SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Sec. 23, and the power house, or place of use, is described as within the E $\frac{1}{2}$ of SW $\frac{1}{4}$ of Sec. 22, Twp. 15 N., Rge. 8 E.W.M., both being located in Lewis County, and should be advertised in that county only.

3. Regarding publication of notice of changes from Rampart Creek, we believe that this will not need to be readvertised and the quantities will be set out correctly in the certificate of change when issued.

4. The quantity of water to which this change applies is all that is mentioned in our notice and the quantity of water, which is still to be used at the old location is not mentioned in such notices nor is it jeopardized by the omission.

5. After further study of the question, we agree with you that the notice of petition for change from the Nisqually River

to Paradise River should be advertised in Pierce as well as Lewis County and we are sending a notice for that purpose.

We believe that the best way to handle the publications is not to make any changes in the notices first sent to you and advertise them as instructed, but in addition to publish the two notices just mentioned, which we are enclosing, with instructions for publication. We are sending the originals of these notices to Mr. Preston and copies to you and hope that this will be agreeable to you.

Yours very truly

CHAS. J. BARTHOLET
Supervisor of Hydraulics

By *J. Stallen*
Secretary.

G.H.

c.c.- John C. Preston.

Standard Form No. 1034a—Rev.
Form approved by
Comptroller General, U. S.
May 26, 1933
(Gen. Reg. No. 51, Supp. No. 7)

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

12 227532

D. O. You. No. _____
Bu. You. No. 34-757

GENERAL ACCOUNTING
OFFICE PREAUDIT

Certified for payment in the
sum of \$ _____

Comptroller General of the
United States

By _____

U. S. Dept. of the Interior, National Park Service

(Department, bureau, or establishment)

Voucher prepared at San Francisco, Calif., Oct. 12, 1943.

(Give place and date)

THE UNITED STATES, Dr.,

To Division of Water Resources, State of Washington

(Payee)

Address Olympia, Washington

Payee's Account No. _____

PAID BY

(For use of Paying Office)

No. and Date of Order	Date of Delivery or Service	Articles or Services (Enter description, item number of contract or general supply schedule, and other information deemed necessary) Terms _____ % Discount Cash _____ days	Quantity	UNIT PRICE		AMOUNT	
				Cost	Per	Dollars	Cts.
10/15/43		Brought forward from continuation sheet(s)					
		Fee for examination of water right applications to appropriate water for following areas of Mt. Rainier National Park:					
		Misqually Entrance, Appl. #5969	1			5	00
		Tahoma Vista Parking Area, #5970	1			5	00
		Supplemental Supply for Paradise Power, #5972	1			5	00
		Supplemental Supply for Paradise Water System, #5971	1			5	00
		(Continued)					
Shipped from _____ to _____		Weight _____	Government B/L No. _____	Total		20	00

I certify that the above bill is correct and just; that payment therefor has not been received; and that except as otherwise noted all of the articles, materials, and supplies furnished under purchase order No. _____ if unmanufactured articles, materials, and supplies, have been mined or produced in the United States, and if manufactured articles, materials, and supplies, they have been manufactured in the United States substantially all from articles, materials, or supplies mined, produced, or manufactured, as the case may be, in the United States; and that State or local sales taxes are not included in the amounts billed.

*Payee Division of Water Resources, State of Washington (Memorandum—Do not sign)

Per G. HallahanTitle Secretary

(Payee must NOT use this space)

Differences _____

Account verified; correct for _____

(Signature or initials)

Contract No. _____ Date _____ Req. No. _____ Date _____ Invoice Rec'd _____

Pursuant to authority vested in me, I certify that the above articles were received in good condition, after due inspection, acceptance, and delivery prior to payment as required by law, or the services were performed as stated; that they were procured under the contract numbered above or the unnumbered contract attached hereto, or that they were procured without written contract, in open market, and with or without advertising, under the circumstances stated in No. _____ of "Method of or Absence of Advertising" shown on reverse hereof, and were necessary for the public service; and that the prices charged are just and reasonable and in accordance with the agreement.

†Approved for \$ 25.00

(Memorandum—Do not sign)

Title _____

ACCOUNTING CLASSIFICATION (for completion by Administrative Office)

FOLLOWING CLASSIFICATION (for completion by Administrative Office)						
Appropriation, limitation, or project symbol	Appropriation title				Limit'n or Proj't Amount	Appropriation Amount
Allotment symbol	Amount	Encumbrance liquidated	COST ACCOUNT		OBJECT OF EXPENDITURE	
			Symbol	Amount	Symbol	Amount

Paid by { Check No. _____ dated _____, 19____, for \$ _____ } on Treasurer of the United States in favor of payee named above.
{ Cash, \$ _____, on _____, 19____ } * Payee _____

(Sign original only)

* When a number is placed or mentioned in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the person in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary", or "Treasurer", as the case may be.
† If the ability to certify and authorize to approve are combined in one person, one signature only is necessary; otherwise the approving officer will sign in the blank space below "Approved for \$ _____", and over his official title.

U. S. GOVERNMENT PRINTING OFFICE 10-1751a

Per _____

Title _____

Standard Form No. 1635 a—Revised
Form approved by
Comptroller General, U. S.
June 8, 1937
(Gen. Reg. No. 51, Sup. No. 7)

Public Voucher for Purchases, and Services other than Personal

MEMORANDUM

CONTINUATION SHEET

U. S. Dept. of the Interior, National Park Service

Sheet No. 2

of Bureau Voucher No. 34-757

(Department, Bureau, or Establishment)

No. and Date of Order	Date of Delivery or Service	ARTICLES OR SERVICES (Enter description, Item Number of Contract or General Supply Schedule, and other information deemed necessary) Terms% Discount Cash days	QUAN- TITY	UNIT PRICE		AMOUNT	
				Cost	Per	Dollars	Cts.
		Total brought forward.....				\$20	00
		Examination fee under Application #5972 for appropriation of 9.6 c.f.s. of waters of Paradise River for power purposes - (in addition to initial examination fee)- 9.6 c.f.s. @ \$1.00 per cubic foot per second				5	00
TOTAL						\$25	00

NOTE.—This form to be used as a "Continuation Sheet" where more than one sheet is required, carrying forward the total or totals to, or summarizing them upon, Form No. 1034.

U. S. GOVERNMENT PRINTING OFFICE 10-2282

S. F. No. 1912-10-41-25C. 23528.

Cash Receipt

STATE OF WASHINGTON

Department of Conservation and Development

No. 25168

RECEIVED FROM National Park Service, San Francisco Ca Olympia, Wash., Mar 11, 1945
Twenty five - 25.00 DOLLARS 25.00
 To be placed to General Fund Reclamation Revolving Fund
 the credit of: Trust Fund

Water Code
Examination fee
App. 5969, 5970, 5971
+ 5472 - 20.00
Additional exam fee
App. 5972 - 5.00
25.00

ED DAVIS, Director

By M. Stue

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

March 10, 1944.

State Supervisor of Hydraulics,
Transportation Building,
Olympia, Washington.

Dear Sir:

Reference is made to your letter of March 8 with regard to Water Right Applications 5969, 5970, 5971, and 5972 and related petitions to change points of diversion under certain vested claims or rights.

My letter of March 4 was written after receiving your letter to me but not the copy of instructions to Superintendent Preston on the same subject. The latter letter clarified some of my questions.

We prefer to have you specify which notices shall be advertised in each of the two counties. This Water Rights Section has acquired a fairly general familiarity with the water codes of the semi-arid states, but the mere fact that we are dealing with a dozen states makes it impossible to give proper study to all the details. However, we are interested in the elimination of all possible grounds for future protest of our rights. Leaving the final decision to you, I amend my comments as follows:

1. Notice Covering Applications 5969, 5970, and 5971. This seems to be of interest only to Pierce County, as you indicate.
2. Notice Covering Application 5972. This seems to be of interest to both Pierce and Lewis Counties.
3. Notice of Changes from Rappart Creek to Rappart Coal Creek, Van Trump Creek to Paradise River, and from Misqually River to Paradise River. This is evidently the one to be advertised in Lewis County since the transfer from Deadhorse to Edith Creek is not included. This seems to be satisfactory except that the notice seems to imply a greater future diversion from Coal Creek than is intended. If there is no protest, and there probably will not be, there is no need for change now although the permit instrument which will be recorded should have the quantity reduced.

4. Notice of Changes from Rampart Creek to Coal Creek, Van Trump Creek to Paradise River, and Deadhorse Creek to Edith Creek. You have designated this as the notice to advertise in Pierce County. Since the original filing on Rampart Creek by David Longmire claimed the excessive diversion of 10 sec. ft., the failure to mention that we still propose to divert 0.21 sec. ft. from Rampart Creek seems unimportant as long as that right is covered in the instrument to be recorded later.

The one thing I do not yet fully understand is why the change from the Misqually River to the Paradise River does not have to appear in both items 3 and 4 if the change from Van Trump Creek to the Paradise River is required in both. Without further study of the matter I should have omitted both from the Notice for Pierce County as the only interest to that county is that 7.35 sec. ft. of water from Van Trump Creek and 16.5 sec. ft. of water from the Misqually River are now available for further appropriation. As all the water is returned to the stream before the combined flow reaches the Park boundary the only important matter seems to be to see that the owners of the Eagle Peak Mining Company know that the diversion of both quantities, together with the 9.6 sec. ft. under Application 5972, are being legalized, used and returned above their headgate with various priorities as compared with their own. If that Company is alarmed at all it will probably become so from the notice of 16.95 sec. ft. covered in two parts in both counties, and will then discover the other 16.5 sec. ft. advertised in only one county on inquiry either at your office or the Park.

From these considerations the need for further advertising seems to be entirely a matter of law. If you think the law is covered, we concur. Should you prefer to advertise another notice we should be able to prepare one to cover the omissions without cancelling any advertisements which have already started.

The voucher to cover filing and recording the certificates of change is being sent through for payment. The earlier one for fees relating to the applications should have been paid by now. Please advise if it is not received a week ahead of the required date.

Yours very truly,

AvVD:sh

A. van V. Dunn,
Hydraulic Engineer.

cc: Region Four.
Supt., Ft. Rainier.



ARTHUR B. LANGLEIE
GOVERNOR

STATE OF WASHINGTON

DEPARTMENT OF CONSERVATION AND RECLAMATION

ED DAVIS, DIRECTOR

TRANSPORTATION BUILDING

OLYMPIA

MAR 13 1944

DIVISIONS:

GEOLOGY
FORESTRY
RECLAMATION
FLOOD CONTROL
WATER RESOURCES
MINES AND MINING
COLUMBIA BASIN PROJECT

March 8, 1944.

Mr. A. van W. Dunn
Hydraulic Engineer
National Park Service
601 Sheldon Building
San Francisco 5, California

Dear Mr. Dunn:

Replying to your letter of March 4:

We note that you have made the change in voucher to cover the initial and additional examination fees under applications 5069, 5070, 5071 and 5072, and we are signing and returning herewith the voucher in the amount of \$20.00 to cover fees for filing and recording Certificates of Change for four petitions.

As to the notices for publication: If you wish to have all of these notices published in both Lewis and Pierce counties we will make out new forms of notice to include all of the petitions for change.

Concerning the 5th Paragraph on the first page of your letter, we will issue the certificate in accordance with the fifth paragraph of the rider. In making out the notice, the fact that the change of the entire quantity of 0.76 c.f.s. was not all to be made to Coal Creek was overlooked, as it did not show on the face of the application. We do not believe that this will make any material difference, but if you wish, the notice can be changed along with the other changes mentioned.

Regarding the last paragraph of your letter in connection with the petition for change from the Deadhorse drainage to Elith Creek, this petition is for change of point of diversion of water only and as there is no change of place of use mentioned, there is no necessity to have the notice published in the county in which the use is made.

Under these circumstances, if you wish to have corrected notices, please advise us at once so that they can be made out accordingly.

Yours very truly

CHAS. E. DARTMOUTH
Supervisor of Hydraulics

C.H.
C.E. John C. Preston.

By *B. Hallahan*
Secretary.

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

March 4, 1944.

State Supervisor of Hydraulics,
Transportation Building,
Olympia, Washington.

Dear Sir:

Reference is made to your letter of March 2 with regard to water right applications 5969, 5970, 5971 and 5972 and petitions to change points of diversion and place of use in the Misqually drainage of Mt. Rainier National Park.

The voucher was amended to cover \$25 for the examination of the four applications and sent to the disbursing officer at once. You should receive the payment within a very few days. Since the fees for filling and recording the changes in points of diversion cannot be paid until the steps are taken, we have entered them on a voucher which we enclose herewith. Please sign and return it for payment when you are ready to file and record the changes.

We wish to thank you for correcting the name of the county on application No. 5972.

After reviewing the notices to be advertised it is assumed that two notices relating to the changes in point of diversion are for publication in each of the two counties affected. I cannot see why the transfer of 16.5 sec. ft. from a point at Longmire on the Misqually River to a point on the Paradise River should not have been included in both since the original diversion was at a point where the river is the county boundary. Of course the new diversion is entirely in Lewis County. As it stands, this is evidently the notice being advertised in Lewis County.

The notice regarding the change point from Rampart Creek to Coal Creek, appearing in both notices seems to imply that we propose to transfer the whole 0.76 sec. ft. to Coal Creek although by the fifth item in the rider attached to the petition we only wish to transfer 0.55 sec. ft. to Coal Creek and move the point of diversion of 0.21 sec. ft. to a somewhat higher point on Rampart Creek, Canyon or Ravine. The fact that the change is listed in both notices indicates some diversion will be in each county in the future but can you issue the license or other instrument in accordance with the fifth paragraph of rider, from the notice being advertised?

1500

The change of 7.35 sec. ft. from Van Trump Creek to the Paradise River is in both notices, although there will be no diversion from Pierce in the future. The appearance of this notice in the copies for both copies suggests that Pierce County is interested in 7.35 sec. ft. that is being released for further appropriation.

The transfer of 0.035 sec. ft. from the Deadhorse drainage to Edith Creek appears in only one notice, and not the one including the transfer of 16.5 sec. ft. from the Misqually to the Paradise River. This, then, is the notice being advertised in Pierce County. Both diversions are in Pierce County, but the transfer is to the water system covered by application 5971 which indicates under item 14 that use will be in Sections 13 and 24, the first in Pierce and Lewis Counties, and the second in Lewis County. As a matter of fact, the claim for use in Section 24 is to cover a lateral serving comfort stations at Narada Falls, in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of said Section 24. If Pierce County is interested in abandonment of the Van Trump diversion, Lewis County should be equally interested in the possible consumptive use from the Edith Creek diversion.

Yours very truly,

AvVD:sh

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 373.

cc: Director.
Region Four.
Supt., Mt. Rainier.

C O P Y

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
OLYMPIA

March 2, 1944.

Mr. John C. Preston, Supt.
Mount Rainier National Park
Longmire, Washington

Dear Sir:

Re: Application No. 5972

Enclosed is a notice of the above numbered application for appropriation of waters of Paradise River, which you should have published for two consecutive weekly issues of any newspaper of general circulation published at Chehalis, the county seat of the county in which the proposed diversion and use is to be made, after which kindly send the affidavit of publication to this office.

Although the point of diversion was given in the application as within Pierce County. Our maps show it as in Lewis County. We have therefore made this change in the notice.

Yours very truly

CHAS. J. BARTHOLET
Supervisor of Hydraulics

By

G.H.

Secretary.

c.c.- Mr. A. van V. Dunn, San Francisco, Calif.

S. F. No. 6721-8-41-1M. 23013.

STATEMENT

Olympia, Wash., March 2, 1944

U.S. Dept. of the Interior, National Park Service

San Francisco, California

In Account With

STATE OF WASHINGTON

DEPARTMENT OF CONSERVATION AND DEVELOPMENT

Examination Fee under Application #5972 for
appropriation of 9.6 c.f.s. of waters of
Paradise River for power purposes

9.6 c.f.s. @ \$1.00 per cubic foot per second

\$10.00

In addition to initial examination fee

Initial examination fee (Voucher signed)

5.00

Due within thirty days from date of filing
application (February 28, 1944)

\$ 5.00

(Sec. 7399 Rem. Rev. Statutes)



ARTHUR B. LANGLEIE
GOVERNOR

STATE OF WASHINGTON

DEPARTMENT OF CONSERVATION AND DEVELOPMENT

ED DAVIS, DIRECTOR
TRANSPORTATION BUILDING
OLYMPIA

DIVISIONS:
GEOLOGY
FORESTRY
RECLAMATION
FLOOD CONTROL
WATER RESOURCES
MINES AND MINING
COLUMBIA BASIN PROJECT

REGISTERED

March 2, 1944.

MAR 1 1944

MAR 2 1944

@ 3/4/44

Mr. A. van V. Dunn
Hydraulic Engineer
National Park Service
601 Sheldon Building
San Francisco 5, California

Dear Mr. Dunn:

Re: Applications Nos. 5969, 5970, 5971
and 5972, and Petitions for Change of
Points of Diversion and Place of Use.

We acknowledge receipt of four applications for appropriation of water, which have been given the above numbers for our records.

The notices of these applications are being sent to Mr. Preston, Superintendent of Mt. Rainier National Park at Longmire, as requested in your letter of Feb. 24, and we are enclosing copies of the notices sent to him so that you may have a record of the numbers.

We have signed the voucher to cover fees and are enclosing it, herewith. However, there are changes. There is no filing fee for petitions for change. When certificates are issued the fee for filing and recording in this office will be \$5.00 each (This is set out by statute).

There is also an additional examination fee due under Appropriation Application No. 5972, for which statement is attached hereto. The Water Code (Sec. 7399 Rem. Rev. Stat.) provides that such additional fee must be paid within thirty days from filing application in this office and that unless so paid the application shall be rejected.

Notices of the four petitions for change of points of diversion and place of use are also being sent to Mr. Preston for publication. However, you will notice that we have changed "Pierce" to "Lewis" county, as shown on our maps, in Application 5972 for power purposes on Paradise River, and petition for change on the Nisqually River, also for power purposes.

Yours very truly

CHAS. J. BARTHOLET
Supervisor of Hydraulics
By *G. Hallahan* Secretary.

G.H.

S. F. No. 6721-8-41-1M. 23013.

STATEMENT

Olympia, Wash., March 2, 1944.

U. S. Dept. of the Interior, National Park Service

San Francisco, California

In Account With

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT

Fees for filing and recording Certificates of Change
of Points of Diversion and Places of Use

4 Certificates @ \$5.00 each

\$20.00

(These fees do not need to be paid until petitions
are approved for certificates, after publications
have been made.)

WATER RIGHTS SECTION
601 Sheldon Building
San Francisco 5, California

February 24, 1944.

State Supervisor of Hydraulics,
Olympia, Washington.

Dear Sir:

We enclose applications relating to water rights at Mt. Rainier National Park as follows, all in the Misqually River Drainage:

1. Application to appropriate a supplemental supply for the Misqually Entrance with a declaration of vested interests at time of adoption of your water code.
2. Application to appropriate water for the Tahoma Vista area from a nameless tributary of Fish Creek.
3. Application to change point of diversion and enlarge area of use under a water claim filed in the county by David Longmire in 1906.
4. Application to change point of diversion and place of use from the old Longmire hydroelectric plant on the Misqually River, with claimed priority of 1911, to the Paradise Hydroelectric plant of this Service.
5. Similar application to change point of diversion and place of use from Van Trump Creek power plant with claimed priority of 1916 to said Paradise hydroelectric plant.
6. Application for supplemental supply to cover remainder of diversion capacity of the Paradise hydroelectric plant.
7. Application to change point of diversion of original Reese's Camp system at the Paradise area, with priority of 1906, to the present water system of the National Park Service in that area.
8. Application to appropriate a supplemental supply from Edith Creek to cover capacity of the Paradise water system in excess of the vested interests established for Reese's Camp.

There is also enclosed a summary of the method used in determining the vested power rights appurtenant to the Nisqually and Van Trump hydroelectric plants.

From your letter to Superintendent Preston at Mt. Rainier, dated October 19, 1943, and relating to Applications 5916 and 5917, we gather that you will only need 3 prints of the map NP-RAI-6983 to accompany this group of applications, and enclose them accordingly. More prints are available if our interpretation is wrong.

We enclose a voucher for \$24 which seems to cover the initial fees for filing. Should the applications for change in points of diversion cost more, we can merely substitute a new continuation sheet. Hence, please sign the first sheet and return with a statement of any alterations you may wish.

Please address this office if you have any questions regarding the applications, but send the notice of appropriation for publication to the Superintendent, Mount Rainier National Park, Longmire, Washington.

Yours very truly,

AvVD:sh

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 363.

cc: Director.
Region Four.
Supt., Mt. Rainier.

2/19

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

January 31, 1944.

MEMORANDUM for Hydraulic Engineer, Water Rights Section,
c/o Regional Director, Region Four.

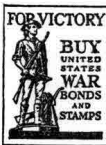
As suggested by you we have enumerated below the changes which it is felt should be made in the various applications and petitions prepared by you covering the appropriation of water in the Nisqually drainage in this park. We have only shown these changes in pencil on the carbon copies of the prepared forms as it was thought desirable that the corrections be made on all copies in one office, in order to eliminate the possibility of any differences occurring. We trust that this action on our part is satisfactory to you.

1. The only change suggested for the Nisqually Entrance System is in paragraph 1 to show the two nameless streams as being tributary to the Nisqually River direct rather than Tahoma Creek. It is recognized that this does not change the rights in any way.

2. In the application to appropriate water for the Tahoma Vista parking area, it is recommended that you show the source as being an unnamed tributary of Fish Creek which in turn would be a tributary of Tahoma Creek. This is a minor change and does not in any way affect the rights involved. It appears in paragraph 1.

3. As far as the Petition for change of point of diversion to cover transfer of vested right to 16.5 sec. ft. of Nisqually River water, the date on the petition should probably be changed from 1908 to 1911, as mentioned in our memorandum of December 22, in view of the fact that the latter date has now been established. We agree with you that it would not be justifiable to rewrite the Petition merely to provide for the small additional domestic use established in 1906.

Regarding the rider attached to this petition the right of the Eagle Peak Copper Mining Company to occupy and work its claims has been definitely established and I am sure there was no attempt to authorize any such operations by the permit in question. However, as you state, if the Park Service would have no authority to authorize the diversion of water about the only right involved would be the right-of-way for the flume. Just what should be done is not entirely clear, but it is obvious from your memorandum that the permit should



be eventually rewritten to more accurately describe the authorization intended. However, there is for consideration the fact that the original permit was executed prior to June 15, 1917, the date the State Code became effective. This possibly might have some bearing on the matter but it seems rather doubtful.

It now appears quite definite that no water right was ever issued to the Eagle Peak Copper Mining Company or any of its organizers or officers, but we intend to investigate this matter further in connection with a search of the records that must be made in connection with another matter. The County Auditor of Lewis County was contacted in regard to Mr. Wheelock's claim that he had made water right filings in 1905 and 1908 and he advised that there was no record of any action taken by Lewis County in connection therewith. However, mention was made of water rights in the mining claim filing for Paradise No. 1, which is one of the claims of the Eagle Peak Copper Mining Company. Quoting from the mining claim record this particular claim reads as follows: "--together with all mineral deposits contained therein, and all timber growing within the limits of said claim, and all water or water privileges thereon or appurtenant thereto, situated in --- Mining District, Lewis County, State of Washington". The County Auditor advises that this is the only reference to water rights in the claim. In the meantime this will not affect the petition you have prepared unless you desire to modify the rider slightly as has been outlined herein.

4. With reference to the Petition to change point of diversion from Van Trump Creek, the same rider referred to in the preceding paragraph is attached and any change in wording made should appear in both petitions.

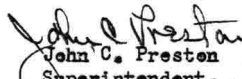
5. In the application to appropriate 9.6 sec. ft. of water from the Paradise River, the only change to be made is the reference to the date of the construction of the Longmire power plant which is shown as 1908 under the Remarks paragraph. The date of the construction of this plant was originally estimated to be 1908, but has subsequently been established as 1911.

6. In regard to the Petition for change of point of diversion in Paradise Valley, it is unfortunate that making the Reese Camp spring tributary to the Nisqually River via Deadhorse Creek weakens your petition, but it is believed that the addition to the rider suggested in your memorandum of December 28 will adequately protect the Government's interest. The first line in the last paragraph of the rider should be eliminated.

7. In application to appropriate 1.25 sec. ft. for domestic purposes and 0.25 sec. ft. for power purposes in Paradise Valley, as previously explained the Edith Creek system was initially constructed in 1916 with some improvement and reconstruction in 1923, in the event you deem it desirable to mention this. In our memorandum of December 22, 1943 we erroneously showed the latter date as 1920. This information appears under paragraph 17.

8. Where changes are involved in Drawing 6983 they have been indicated on the copy which is attached to this memorandum. The tracing and the balance of the copies of the drawing are being returned under separate cover.

Also enclosed are originals and duplicates of all applications and petitions. The originals have been signed.


John C. Preston
Superintendent.

cc Region Four.

Water Rights Section
601 Sheldon Building
San Francisco 5, California

December 28, 1943.

MEMORANDUM for the Superintendent,
Mount Rainier National Park.

Reference is made to your memorandum of December 22, 1943, with regard to corrections to be made in the applications to appropriate water in the Misqually drainage of Mt. Rainier.

It is extremely desirable to have the information correct, both as statements to be signed by you, and as records for future adjudication. For several reasons I suggest that you make the corrections you desire on the typed applications, indicate the desired changes on the map, sign the applications and return all to this office for transmittal to the State Supervisor of Hydraulics.

As indicated by the accompanying letter to the State Supervisor of Hydraulics, there is some question of requirements which should be settled before we send more. It is also desirable to make a revised negative if the tracing is to be retained by the state, as I previously contemplated. Further, it is extremely essential to have our other copies of the applications agree exactly.

There are several comments to offer with regard to the suggested changes:

1. The change in drainage from the springs serving the west entrance makes no change in rights.
2. The change in name of source for Tahoma Vista supply does not change rights.
4. The loss in power priority on the old Longmire power plant, from 1908 to 1911 is not serious. I would not attempt to assign the date, June 22, 1906, to power, but we could probably use it for a little more vested domestic use if we desired to do so. This would introduce a further right initiated by the railway which could be transferred to the Coal Creek system and thus reduce the amount to be transferred from Rampart Creek under the petition I listed as No. 3 in my memo of October 18, 1943. However, unless you wish to do it, I do not feel that I can show enough gain to justify rewriting one petition and drafting another.

FILE COPY

After reading the permit for the Eagle Peak Copper Mining Company in Chicago, I agree that the statement in the rider to the petition is not exactly right, but the permit itself cannot grant exactly what it states, either. Only the state can grant the right to divert water, and certain maps of the mining claims have been made part of the original permit and probably apply to the renewal. In your files you will find a blue print about 18" x 24" on scale of "half inch equal 100 ft.", showing the mill site, Paradise Claim No. 1, Aldula Claim, and the flume location, all with a seal in lower right corner. I have copy but forgot to note instrument to which it was attached. There was also a cruder sketch of about the same size on scale 200' = 1 inch, showing these claims but not the flume, and including Ira Henry Nos. 1 and 2 claims as well; and this sketch was sent to the park with permit Jan. 1-Dec. 31, 1918, with a letter of transmittal dated February 27, 1918. There was also more detailed location of mill site, an aerial tram, and certain ties, submitted with Superintendent Reaburn's letter of July 26, 1918.

I did not try to obtain a legal definition from the Chief Counsel, but I interpret the permit to recognize the unpatented mining claims and mill site, and grant the right of way for the flume, provided water rights perfected by claimant (from county or state) shall not result in generation of more than 100 horse power. If I am correct there is not much wrong with the rider in the National Park Service water right claims except that it strengthens the permit which we may want to cancel and amend at any time.

Perhaps we should ask for more thorough legal consideration of the history of the permit before we do more. If we do, we should first have copies of the county water right filings by the company. I am interested in dates and quantities of water on record.

5 & 7. Explained above.

8 & 9. We weaken the petition (No. 8) by both priority and by making original Reese Camp spring tributary to the Nisqually through Deadhorse Creek. Hence, I think we should add the following to the rider:

"The change in point of diversion, covered by this petition, from Deadhorse to Edith Creek, was made at the close of the tourist season in 1916. The new point of diversion was thus vested as of June 15, 1917, but the last full use of 0.035 sec. ft. of water at old diversion was during 1916 and its full use at the new point did not take place until July 1917."

It is then most essential to correct the priority to that established by construction in 1916 for the supplemental appropriation (No. 9).

AvVD:SH

A. van V. Dunn,
Hydraulic Engineer.

cc: Region Four.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

[illegible]

December 22, 1943.

MEMORANDUM for Hydraulic Engineer, Water Rights Section,
c/o Regional Director, Region Four.

With reference to the several water right applications for Nisqually River claims prepared by you, we have withheld filing them with the State Supervisor of Hydraulics until after your return from Chicago as there were several small errors which it was desired to bring to your attention. In most instances they are more or less inconsequential but there probably are some changes which you would want to make. For convenience these comments are made on the various applications in the order in which they are listed in your memorandum of October 18:

1. The source of the Nisqually Entrance water system is two nameless tributaries of the Nisqually River proper not Tahoma Creek. As far as can be determined the only change required is in paragraph 1, and can be made here if agreeable to you. *ok*
2. It is felt that the source of the water supply for the Tahoma Vista parking area would be better described as an unnamed tributary of Fish Creek rather than Fish Creek itself. Fish Creek is the outlet from Lake George. The only change required would be in paragraph 1 of application and can be made here. *ok*
4. With reference to the petition to transfer vested right to 16.5 sec. ft. of Nisqually River water from the old Longmire power plant to the existing Paradise River plant subsequent data obtained indicates that the Longmire plant was not built until 1911. Between 1906 and 1911 power was generated by steam with coal as fuel. All that will be required is to change the date from December 31, 1908 to December 31, 1911, in the first paragraph. However, we did locate a letter from the Department dated June 22, 1906 authorizing the Tacoma Eastern Railroad to carry water to the hotel at Longmire by means of a 2 inch pipe, extending about 950 ft. beyond the limits of the leased land. While this establishes an earlier use of water it does not appear to be of any special significance. *ok*

5. In the rider attached to the petition to transfer vested right to 7.35 sec. ft. of Van Trump Creek to Paradise power plant the same change referred to in paragraph four should be made.

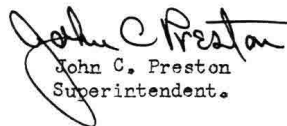
7. Date of construction of Longmire system under Remarks column to be changed from 1908 to 1911.

8. In connection with petition to change point of diversion of vested right initiated for Reese's Camp, Paradise Valley, the spring indicated in paragraph 1 should be tributary to Deadhorse Creek and the Nisqually River direct. Also from later data uncovered in our files it appears quite definite that this spring was not developed until 1908. The first sentence on the rider to this petition should also be deleted. These changes are all minor and can be made here if you prefer.

9. In regard to new application to appropriate 1.25 sec. ft. for domestic purposes and 0.25 sec. ft. for power purposes by the Paradise water system as supplemented supply to that under the vested Reese Camp right, our information indicates that the first installation on Edith Creek was in 1916 although there would be no appreciable use thereof until after July 1, 1917 when Paradise Inn was first opened for public use. Prior to the summer of 1917 all accommodations as far as the public was concerned were in the old Reese Camp location, although doubtless there was some usage by construction crews and other employees in the fall of 1916 and the early summer of 1917 prior to June 15. This is mentioned in the event you thought it worth while to make claim therefor. Otherwise all that will be necessary will be to change paragraph 17 to show the initial construction in 1916 with some improvement and reconstruction in 1920. Please advise further in regard to this.

A few changes in Drawing 6983 will also be necessary to correspond to the changes already mentioned in regard to the various applications, petitions, etc. We will be glad to draw in the corrected locations for the various streams at the Nisqually Entrance, and Paradise if you desire, both on the prints and the tracing.

We will withhold making any of the changes outlined above until further advice is received from you as to just how you desire to have this matter handled.


John C. Preston
Superintendent.

cc Region Four

Mr. Dunn.

601 Sheldon Building

October 18, 1943.

MEMORANDUM for the Superintendent,
Mt. Rainier National Park.

The following water right applications for Misqually River claims in Mt. Rainier National Park are enclosed for your signature and filing with the State Supervisor of Hydraulics:

1. Application to appropriate 0.100 sec. ft. from nameless tributaries of Tahoma Creek for the Misqually Entrance. This application also records an additional claim to 0.004 sec. ft. (2585 gpd) as vested right established by use prior to the adoption of the water code on June 15, 1917. All year use is claimed.
2. Application to appropriate 0.05 sec. ft. from Fish Creek for the Tahoma Vista Parking Area from May 1 to October 31 inclusive of each year. (You may prefer to claim all year use.)
3. Petition to change points of diversion and place of use under the water right filing, with priority of May 25, 1906, of the Longmire Mineral Springs Company for Rampart Creek and Canyon, as that claim was recorded at page 33, book 2 of Water Rights in Pierce County. The recorded claim for 10.0 sec. ft. was preposterous. By the terms of the petition, we reduce the right to 0.76 sec. ft. and assign 0.21 sec. ft. to the Rampart Creek Pipe Line and 0.55 sec. ft. to the Coal Creek Pipe Line, both of which serve the Longmire Area. Since 0.75 sec. ft. is about all the available supply in Rampart Creek, and we are transferring 0.55 sec. ft. to Coal Creek, there will now be an unappropriated 0.55 sec. ft. of flow in Rampart Creek, which we can cover by new appropriation when we wish. The present petition will allow the park to use:

135,727 gpd from Rampart Creek
355,475 gpd from Coal Creek

491,202 gpd, total Longmire right and probable need.

4. Petition to transfer vested right to 16.5 Sec. ft. of Misqually River water from the old Longmire Power Plant to the existing Paradise Power Plant, with priority of December 31, 1908.

5. Petition to transfer vested right to 7.35 sec. ft. of Van Trump Creek water from old Christine Falls Power Plant to Paradise Power Plant with priority of October 1, 1916.
6. "Method Used to Determine Vested Water Rights on Van Trump and Nisqually River", being a justification for claim to vested power rights, to accompany two preceding petitions.
7. Application to appropriate 9.6 sec. ft. of water from Paradise River as supplemental supply from January 1 to December 31 for power purposes.
8. Petition to change point of diversion of vested right initiated for Reese's Camp at Paradise with priority of 1906 for 0.035 sec. ft., to existing Paradise Water System.
9. Application to appropriate 1.25 sec. ft. for domestic purposes and 0.25 sec. ft. for power purposes by the Paradise Water System as supplemental supply to that under the vested Reese Camp right.

We also enclose the tracing and 17 prints of drawing NP-RAI-6983, Nisqually River Water Claims, Mt. Rainier National Park. The tracing and 15 prints should go to the Supervisor of Hydraulics to provide a map in duplicate to accompany each application and petition. The remaining prints are for your use and we have a negative from which to make more copies if desired.

A duplicate of each application and petition is forwarded herewith for your temporary record. If you are able, and are requested to make minor changes in the originals, please keep this copy up to date.

The attached voucher for \$24.00 to cover initial filing fees should be sent to the Supervisor of Hydraulics together with the applications, petitions and maps.

I am starting for Chicago within a week for a stay of about six weeks. I have prepared the nine instruments on the basis of your memorandum of September 20 in order to complete them while my mind is on the subject. Although we might acquire vested rights to somewhat different quantities of water if we had more historical detail, I believe that my present estimates are fair to all. However, you should be particularly critical of my treatment of the Eagle Mining Company claims and the recorded right of the Longmire Mineral Springs Company. Do not submit any of the instruments unless you agree.

It may be that we shall have to prove title to the vested rights initiated by others than the United States. If any such questions, or misunderstandings on your part, arise during November please refer them to me in care of the Director.

There will be advertising in connection with the petitions just as with the applications. I think we have already found that this can be handled best from your office, but the bills may be sent here for direct payment. It is requested, however, that you indicate approval on the voucher if they are sent before my return.

Some of the applications are on an obsolete form. In transmitting them to the Supervisor of Hydraulics please refer to his letter to me of August 31, 1943, authorizing their use for wartime economy.

AvVD:SH

A. van V. Dunn,
Hydraulic Engineer.

Enclosure 334.

cc: Director.
Regional Director, Region Four.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

SEP 22 1943	
ROUTING	Date
	10/15
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FILE	

September 20, 1943.

Air Mail

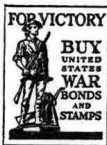
MEMORANDUM for Mr. A. van V. Dunn, Hydraulic Engineer,
Water Rights Section.

In reply to your memorandum of September 6 regarding the use of water systems in the Nisqually drainage of this park, we are furnishing such additional data as are available at this time. We have attempted to obtain as much information as possible from available records and various "old timers", although in many respects it is not complete.

As far as the old Longmire power system is concerned the Rainier National Park Company does not have any worthwhile information but we have been able to determine from an old print and the remains of the power plant that the wood pipe line was roughly 1025 feet in length and 24 inches in diameter. The head is estimated to be 40 feet, but we will arrange to verify this shortly. So far we have not been able to obtain anything definite on the type and capacity of the wheels and generator but we have a few additional leads to run down which may be productive of results, one being a lease issued to the Tacoma Eastern Railroad under date of November 13, 1912 by the Secretary of the Interior covering operation of the original National Park Inn. We are requesting a copy of this lease from the Director's office.

In regard to the Christine Falls power plant on Van Trump Creek General Manager Sceva of the Rainier National Park Company advises that the total length of the penstock was 2339½ feet, 1151 feet being 14 inch and 1188½ feet being 12 inches in diameter. He further estimates the head to have been from 350 to 400 feet. The capacity of the plant was 200 KVA, being built in 1916. We are attempting to verify these figures from the original operator of the plant who also assisted with the installation.

Regarding the Paradise River plant of the Rainier National Park Co. you are correct in your assumption that the output of this plant has been increased to 800KVA.



As far as the old Reese "Camp of the Clouds" is concerned it appears quite definite that water was obtained from a spring near the present ranger cabin which is approximately 500 feet from the original camp location. We know that water was piped in but nothing very concrete is available as to the size of the pipe, etcetera. We have a few more contacts to make and you will be informed of the results obtained. It seems probable, however, that only a small line was used due to transportation difficulties which prevailed at that time.

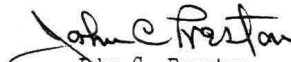
The rated guest capacity at Longmire by June 14, 1917 is estimated to have been 350; and at Paradise 600. There is every reason to assume that the full capacity was used at both locations.

Regarding the available flow of Rampart Creek, it seems improbable that the operator used the 10 sec. ft. claimed in the Longmire filing at any time prior to June 15, 1917.

No pipe line has ever been installed in the Tahoma Creek campground.

Your attention is called to a further use of water from the Paradise River by the Eagle Peak Copper Mining Company. A permit which has been renewed yearly since 1915 authorizes that concern to divert sufficient water to generate 100 h.p. Water is conveyed in an open flume a distance of approximately 1000 feet. The size of the present generator is only 15 KW, but Mr. R. H. Wheelock, one of the officers of the company states that the old power plant which burned down had a 40 KW capacity generator. The amount of water diverted amounts to probably as much as 5 to 6 sec. ft. Mr. Wheelock also states that he filed a water right in the Lewis County courthouse in Chehalis in 1905 and also in 1906 for mining purposes. He does not have any record to support this claim, but we are writing Lewis County in regard to the matter.

As soon as any additional data is available we will communicate with you further.


John C. Preston
Superintendent.

cc Region Four

HUR B. LANGLE
GOVERNOR

ED DAVIS
DIRECTOR



SEP 2 1943

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
DIVISION OF WATER RESOURCES
CHARLES J. BARTHOLET, SUPERVISOR
OLYMPIA

August 31, 1943.

Mr. A. van V. Dunn
Hydraulic Engineer
National Park Service
601 Sheldon Building
San Francisco, California

Dear Mr. Dunn:

We will accept applications for permits to appropriate water and to change the points of diversion of water as outlined in your letter of August 27.

However, the transfer of water rights from the Misqually River in Sec. 33, Twp. 15 N., Rge. 8 E. and from Van Trump Creek in Sec. 15, Twp. 15 N., Rge. 8 E. to Paradise Creek should include change of place of use as well as point of diversion. We are enclosing forms in duplicate for your use. Only one copy is required for this office.

Yours very truly

A handwritten signature in cursive script, reading "Chas J Bartholet".

CHAS. J. BARTHOLET
Supervisor of Hydraulics.

CJB:CM

Copy mailed Supt. Mt. Rainier 9/6/43.

Mr. Dunn.

601 Sheldon Building

August 27, 1943.

MEMORANDUM for the Superintendent,
Mount Rainier National Park.

The attached copies of letters from the State Supervisor of Hydraulics and my reply are self-explanatory. If you do not have copies of the earlier letters from Mr. Bartholst to which I refer please advise, as they may all become quite important again at some future date such as that when the Nisqually is adjudicated.

If we cannot establish the precedent of changing points of diversion from one tributary to another and the glacial sources continue to recede, it is quite probable that the park will frequently lose all its old water right priorities and have to establish new inferior ones or buy or condemn to preserve its initial position. In the second place, we should be very careful not to change from one source of supply to another except as a last resort.

It seems probable that I shall be able to complete applications for appropriation and, I hope, some changes in points of diversion on receipt of Mr. Bartholst's reply. Before doing so, however, I should like to know more about the old operator's systems. I believe Mr. Sceva may be able to help.

1. Has the operator any plans of the old Longmire and Van Trump power developments? If not, can Mr. Sceva tell me the length and diameter of the pipe at each site, the quantity of water normally diverted, the gross head, and the type and capacity of the wheels and generators? (I already have the Puget Sound Bridge & Dredging Company drawing No. 2 under Contract 805 relating to the Paradise power development, which shows transfer of 200 KVA unit from Van Trump to Paradise development.)
2. What are the present generator units at the Paradise development? From Mr. Brysdale's report I gather that the output has been increased from 600 to 800 KVA since 1921.
3. Where did the Heese Camp obtain its water in 1917 and was there a pipe line?
4. What was the rated guest capacity at Longmire and at Paradise by June 14, 1917, and had the full capacity ever been used?

5. What is available flow of Raspert Creek? The report of 1935 gives 100, but does not give unit of measure. Did operator use 10 sec. ft. claimed in Longaire filing at any time before June 15, 1917, including both domestic use from stream and therapeutic use of springs?

There is also a feeling in this office that a pipe line has been installed at Tahoma Creek Campground since 1935. If so, have you a map of the campground and plan of the pipe line?

Any maps sent by you or Mr. Seeva will be returned within one month if so requested.

AvVD:SH

Attachments.

OGD & A. van V. Dunn,
Hydraulic Engineer.

cc: Director, with attachments.
Region Four, with attachments.

601 Sheldon Building

August 27, 1943.

Mr. Chas. J. Bartholet,
State Supervisor of Hydraulics,
Olympia, Washington.

Dear Mr. Bartholet:

From your letters of February 24, March 5, and August 27, 1943, and your water code manual, our proper procedure for Nisqually drainage water claims seems to be somewhat complicated if we are to preserve old priorities as we should. It also seems to me that now that we have provided you with an advance print of drawing NP-RAI-6983, Nisqually River Water Claims, Mt. Rainier, we should ask for a reconsideration of some of the earlier discussion. The following plan of procedure is given for that purpose.

1. We have the Tacoma Vista Pipe Line in Sections 10 and 11, T. 15 N., R. 7 E., which was built during the summer of 1931, has been used continuously since then with annually increasing diversions until the war reduced public attendance, and which will not be used to full capacity until the road from the Nisqually Entrance is completed to the northwest corner of the park to provide a complete section in the loop through the park from Tacoma and Seattle. A standard form of application for appropriation of water should be filed.
2. We have the Nisqually Entrance Pipe Line and Sunshine Pipe Line in Section 34, T. 15 N., R. 7 E. Water use was started shortly after the park was created on March 2, 1899, but the quantity of water used has increased, particularly to the extent of the use from the Sunshine Pipe Line and upper diversion of the Nisqually Entrance Pipe Line which were built subsequent to the adoption of the water code on June 15, 1917. A single application for appropriation of water as a supplemental supply should be filed for all water in excess of that actually beneficially used before June 15, 1917. Under "Remarks" on the application we can define the vested right established by use prior to June 15, 1917, so that it may be considered for earlier priority if, or when, the Nisqually River is adjudicated.
3. We have a pipe line diverting from Rampart Creek in Section 29, T. 15 N., R. 8 E., which is covered by a county filing of May 31, 1906,

by David Longmire. The deed from the Longmire Mineral Springs Company, successors to David Longmire, to the United States, dated December 30, 1938, and recorded at Page 385, Volume 615 of the Pierce County Records, covers the Longmire lands and "any and all water rights whether obtained through the State of Washington or riparian or otherwise." We can do nothing further to cover this water system but use it and be sure that it is introduced at any adjudication of the Nisqually River which may be called in the future.

4. We have the pipe line diverting from Coal Creek in Section 33, T. 15 N., R. 8 E., which was built in 1932. Under normal conditions we should file an application to appropriate the waters of Coal Creek, but when the Park Service acquired the Longmire tract it raised much of the old lodge development and certain water systems diverting from mineral springs in Rampart Canyon under the aforesaid county water right filing by David Longmire. By letter of March 5, 1943, you suggested that a change in point of diversion cannot be made from one tributary of a stream to another, but Section 39 of your water code manual merely says: "The point of diversion of water for beneficial use or the purpose of use may be changed, if such change can be made without detriment or injury to existing rights."

The United States owns and the Park Service has exclusive jurisdiction over all of Sections 28, 29, 32 and 33, T. 15 N., R. 8 E., shown on drawing NP-RAI-6983 and there are no diversions below the Hotel diversion on Rampart Creek, none on the Nisqually between Rampart and Coal Creeks, and none on Coal Creek below the designated NPS diversions. With this more complete picture we think you may agree that we might file one application for change in point of diversion under the county filing for any quantity which we may otherwise have to abandon because of reduced lodge development. Such a procedure will help us preserve the more valuable priority of 1906, and it also offers the one method for recording the county filing in your office.

5. The old Longmire Power Pipe Line shown on the Nisqually River in Section 33, T. 15 N., R. 8 E., was built in 1908 and operated until 1921. There was also a power pipe line on Van Trump Creek in Section 15, T. 15 N., R. 8 E., which was built in 1916, Van Trump Creek being the one that enters the Nisqually River along the center line of Section 22 on the aforesaid drawing. The Paradise Power Pipe Line in Sections 22 and 23 was built in 1921 to replace both of the others. A 200 KVA generator unit was in fact moved from the Van Trump to the Paradise development, and I do not doubt but that we can trace some equipment from the Longmire plant to the Paradise installation.

Apparently the Paradise development operates with between two and three times the combined water use at the Longmire and Van Trump plants, and it serves both Longmire and Paradise for which the individual plans were first provided. The priority of a non-consumptive power water right is not

particularly important, but we think we should transfer such vested rights as we can prove, from the two older diversions to that on the Paradise River by an application for change in point of diversion and then file another application to appropriate a supplemental supply for the rest of the developed capacity.

6. Reese's Camp was started at Paradise about 1906, using water from the Edith Creek drainage. There have been several diversions, moving upstream as more head was needed for fire protection. The upper and lower dams shown on map were built in 1920, and the present diversions were built shortly before the war. A vested right exists for the quantity beneficially used prior to June 15, 1917. An application for a supplemental appropriation to cover increasing use since that date can be filed.

As a matter of fact, however, it was only possible to raze part of the old accommodations at Longmire as alternate ones were provided at Paradise. All land between Longmire and Paradise is federally owned, and the only intervening water claim is that of the United States for the Paradise Power Diversion. We see no reason why we should be denied the right to apply and obtain a permit from you to transfer part of the old Longmire county filing if we so desired.

We are particularly interested in obtaining a favorable reaction toward changing points of diversion from one tributary to another because of the unusual behavior of the streams in Mount Rainier National Park. Their sources are glaciers just a few miles above most of our diversions. As the glaciers recede the relative flow in adjacent tributaries varies greatly. As one current example, the Paradise and Stevens Glaciers have receded until they are nominally one. In the last few years the flow toward Stevens Creek, in the Cowlitz River basin, has increased while that toward the Paradise River has decreased. If the same trend continues we shall either have to divert water from Stevens Creek to the Paradise, or move our power plant again. These glaciers have moved back at an average of 100 feet per year over the last thirty years. We do not have as much data on the behavior of Rampart Creek, but it seems quite probable that our need for the Coal Creek diversion is due in part to the behavior of the Kautz and Van Trump Glaciers since 1906.

Yours very truly,

(SGD) A. van V.

AVVD:SH

A. van V. Dunn,
Hydraulic Engineer.

cc: Director.
Region Four.
Supt., Mt. Rainier N. P.

C O P Y

STATE OF WASHINGTON
DEPARTMENT OF CONSERVATION AND DEVELOPMENT
Ed Davis, Director
Transportation Building
OLYMPIA

August 17, 1943.

Mr. A. van V. Dunn
Hydraulic Engineer
National Park Service
601 Sheldon Building
San Francisco, California

Dear Sir:

Referring to your letter of August 14, concerning water right filings in Rainier National Park:

To comply with the statutes and rules and regulations promulgated by this office we cannot accept a single application to cover the several points of diversion located on different tributaries of the Misqually River, except that single applications may cover the different diversions in Section 12, and also Sec. 33, Twp. 15 N., Rge. 8 E. and in Sec. 34, Twp. 15 N., Rge. 7 E.

Any waters that were diverted and used before June 15, 1917, the date our Water Code became effective, whether or not water right notices were posted and filed, are vested rights under laws and court decisions in the State. Therefore, no filings on such old rights are necessary, but I assume that all of the diversions in the park have been increased since 1917, thereby making it advisable to file applications for the increased quantities or the whole amount of the diversion.

Yours very truly,

/s/ Chas. J. Bartholet

CHAS. J. BARTHOLET
Supervisor of Hydraulics.

CJB:GH

Mr. Dunn.

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WATER RIGHTS SECTION
SAN FRANCISCO, CALIF.

April 7, 1943.

MEMORANDUM for the Regional Director, Region Four.

Reference is made to Mr. Preston's memorandum of March 18, 1943, with regard to water rights in the Misqually Drainage at Mt. Rainier. The following answers follow the order of the paragraphs to which they apply.

We have estimated the water demand on the same basis that was used at Rocky Mountain.

The original Longmire claim covers any present use from the same source, for the same purposes in the same area, but the claim was for much more water than can be developed from the source or used in the area. The reason for amendment would be to transfer unused portions of the priority to other systems in other areas of the Misqually drainage to prevent loss of rights to the full quantity of water covered by that priority. Since writing my report in February, however, the State Engineer has defined limits for such transfers. A little more study is needed before I suggest changes in my original plan.

In the same connection, I understand that Iron Mike and the hot springs at Longmire are no longer used nor to be used. Is this correct or not?

The dates pertaining to the Longmire power plant are ample for our needs.

We should certainly show the Van Trump power plant as a possible means of obtaining earlier priority and to complete the history of the power development, but there seems to be no map in the Regional file. Has Mr. Preston one for temporary loan?

It was my idea that the Sunshine Point CCC water supply came from the Misqually Entrance Pipe Line. The Misqually diversions, but not the pipe, are shown on the map in my report. Mr. Waterhouse advises, too, that the sources of supply for the Entrance line are the only water available. I should like to know whether both areas are served by one pipe. If not, if two pipes divert at the same headworks on either of the streams serving the Misqually Entrance? If not, how far apart are the diversions?

It will be perfectly proper to claim a right to this CCC pipe line whether it is fully used now or not.

We will try to project the Tahoma Vista water system on the map from Mr. Preston's description, and then refer it to him for further comment.

A. van V. Dunn,
Hydraulic Engineer.

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UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
MOUNT RAINIER NATIONAL PARK
LONGMIRE, WASHINGTON

March 18, 1943.

MEMORANDUM for the Regional Director, Region Four.

Reference is had to Mr. Dunn's report of February 22 to the Regional Director pertaining to water rights in the Nisqually Drainage.

The increase in demand for water at the Longmire headquarters will be quite substantial if and when development plans now proposed materialize. However, if the same rule was applied for increased consumption that was used for Rocky Mountain it should be sufficient.

On page three of the report Mr. Dunn mentions that the original claim by the Longmire Mineral Springs Company included hot and cold, natural and mineralized water in Rampart Canyon, whereas he mentions the omission of any claim to "Iron Mike" or any of the mineral springs on page four of the report. In this connection would not the original claim adequately protect the Government's interest?

The hydro plant at Longmire was built in 1908. We cannot locate any definite date, but the records indicate that the original National Park Inn at Longmire was completed in 1908 and it would seem quite probable that the power plant was put into operation not later than that date. This plant supplied electricity for Longmire until 1921.

It might also be desirable to mention the Christine Falls power plant on Van Trump Creek which was built by the Rainier National Park Company in 1916 to supply electricity for Paradise Inn. This plant developed 250 h.p. and was in operation until the Paradise River plant superseded it in 1921. The Christine Falls plant never furnished any power for Longmire.

There is also a small water system at Sunshine Point, roughly one-third mile above the Nisqually Entrance and immediately adjacent to the Nisqually Road. This system was constructed in 1938 in connection with the operation of a CCC camp in that locality and is still in operation. The source of the system is an unnamed stream which heads on the lower flank of Mount Now, which crosses the Nisqually Road near its junction with the West Side Highway. There is a small log crib dam faced with lumber and filled with dirt, with

approximately 3400 feet of 2 inch G.I. pipe between the dam and camp location. The line roughly parallels the highway. While the only use made of this system at the present time is a small residence occupied by two Aircraft Warning observers it is entirely possible that the old CCC camp site will again be occupied.

Regarding the Tahoma Vista water system this consists of approximately $1\frac{1}{2}$ miles of $1\frac{1}{2}$ inch G.I. pipe extending approximately 1 mile along the ditch of the highway. It then crosses the road and heads just below Round Pass in what appears to be a small tributary of Fish Creek. There is a small log intake. This system operates a 10 fixture comfort station and an outside fountain at Tahoma Vista. It was constructed in 1931 and is $5\frac{1}{2}$ miles from the Nisqually Road.

The location of both the Tahoma Vista and Sunshine Point water systems has been indicated roughly on an old base map of the park - BAI-4959, which is attached.

John C. Preston
Superintendent.

C O P Y

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
REGION FOUR
SAN FRANCISCO, CALIFORNIA
601 Sheldon Building

February 26, 1943.

MEMORANDUM for Regional Director, Region Four.

Reference is made to the report entitled "Mount Rainier Water Claims - Nisqually Drainage", by A. van W. Dunn, dated February 22, 1943.

This is a well written report and reflects conditions as they exist in this drainage area, and it is believed also estimates future requirements sufficiently large.

A few comments follow:

At Reflection Lake a water system will be constructed sometime in the future as this Lake is on a highway and will receive many visitors. However, no plans are prepared at the present time.

In the penultimate paragraph on page 3 it should be noted that the Rampart Creek diversion has been in use since about 1920.

In regard to the Paradise Hydroelectric plant and the proposal to divert water from the Cowlitz watershed to the Nisqually, there would seem to be more arguments against trying to increase the output than for it.

Trouble has always been experienced in the winter by slush ice stopping the flow into the penstock by plugging the grizzlies at the intake. Also in winter there is less water flowing because of the freezing at the higher elevations. Our water intake in Edith Creek freezes at times to the point where no water flows. At the higher elevation at the snout of the Paradise and Cowlitz glaciers this freezing would be for a longer period and would prevent additional power being generated when most needed for heating in the winter time.

Maintenance at this high elevation would be almost impossible under snow conditions encountered there, and very costly for any that is done.

With outside power now available and on account of the old age and short service life remaining of the power plant and penstock, it is strongly recommended that this diversion proposal be dropped.

There are several points in the report on which Mr. Dunn wishes additional information. It is believed that the data is in the files at Mount Rainier.

cc: to Preston - H.M.

R. D. Waterhouse
Regional Engineer.

February 22, 1943.

Mount Rainier Water Claims
Misqually Drainage

By

A. van V. Dunn
Hydraulic Engineer

Explanation

This analysis is to define Park Service water claims in the drainage of the Misqually River, preparatory to making such filings as are needed to perfect water rights. We are concerned with location ties, park development plans, and relative jurisdiction of the State Supervisor of Hydraulics and the County Recorder.

Dipped Water Use

The files show the following developments to have no constructed water systems:

Lake George Ranger Station
Reflection Lakes Campground
Indian Henry Patrol Cabin

Since no water right can be perfected without a physical water system, and since the intermittent use at these areas is so negligible, it is proposed to ignore them until construction plans are formulated and will be prosecuted with diligence.

Existing Water Rights

The Park Service has acquired the following water claim from the Longmire Mineral Springs Company:

Notice of Appropriation dated May 25, 1906, recorded at page 33 of Book 2 of Water Claims, filed in the office of the Recorder of Pierce County on May 31, 1906, for the diversion of 10 sec. ft. of the waters of the canyon, ravine, or creek known as Rampart Creek, in NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 29, T. 15 N., R. 8 E., W. M., for domestic, stock watering and irrigation on the lands of the company in Sections 28, 29, 32 and 33 of said township and range.

The Longmire Inn Water System is covered by this right, but there are not 10 sec. ft. of flow in the creek which Mr. Longmire designated as Ram-part Creek. Further, all domestic, stock watering and irrigation use by the Park Service and its operator in the Nisqually drainage is less than the specified 10 sec. ft.

It is possible to show that the Park Service and operator have made all water developments at Longmire and Paradise under the expanding application of that claim, and that when the particular source ceased to be adequate changes in point of diversion were made.

The first problem in perfecting Park Service water rights is to amend the Longmire Water Claim to cover the changes in point of diversion and place of use. Since county filings are not under the jurisdiction of the State Supervisor of Hydraulics it is necessary to make such an amendment by a supplemental filing with the County Recorder.

Drawing NP-RAI-6982

Accompanying drawing NP-RAI-6982, Nisqually Water Systems Locations, is plotted to the Lambert Projection of plane coordinates for Southern Washington with the latitudes and longitudes of U. S. G. S. benchmarks scaled from the Mt. Rainier quadrangle as the control. The various Park Service topographic maps of smaller areas are equated at these benchmarks and tied to the corner common to Sections 28, 29, 32 and 33, T. 15 N., R. 8 E., W. M. Park boundary monuments are also located by scaled latitudes and longitudes and the section corners were then projected by equating the closing course between boundary posts Nos. 21 and 34 which are also section corners.

Errors of closure for the whole map are well within the limit for water right purposes. A few examples are cited:

1. The benchmark near the Nisqually Entrance is plotted from scaled latitude and longitude and also from the values given in U.S.G.S. Bulletin No. 709-K. There is an apparent error of about 150 feet, but we do not know whether this is an error in scaling or a Coast and Geodetic adjustment in latitudes and longitudes between the time Bulletin No. 709-K was published and the date the Mt. Rainier quadrangle was printed.
2. There is a relative difference of about 60 feet between the benchmark and section corner at Longmire by different sources. We have accepted the Park Service surveys.
3. Relative positions between the benchmark at Paradise and the hotel differ by about 500 feet from different sources. We believe that buildings on the Mt. Rainier quadrangle are spotted by the crudest surveys of the Geological Survey. We also know

that the U. S. G. S. symbol for a building is not the true size or shape of the building and may be at the center or a corner of the true structure to give quite a variation in the case of a building as large as the Paradise Inn. We have accepted the Park Service locations from the area topography.

Old Longmire Water Use

Reference is now made to the Plat of Longmire Springs, Mt. Rainier, on a scale of 1 inch to 100 feet and surveyed by J. G. Morgan on November 11, 1916, which is on file in the various interested Park Service Offices. This shows the James Longmire Placer Claim; Tacoma Eastern Railroad land; and old and new diversion on Rampart Creek, although the name of the creek is not given; a group of springs with various soda, sulphur and iron compounds in solution; and the lower portion of a hydroelectric installation with the Nisqually River reported to be its source of supply.

Since the claimant under the county record was the Longmire Mineral Springs Company, it seems reasonable to assume that the claim was for hot and cold, natural and mineralized water in Rampart Canyon, of which the creek flow was only a part. Domestic use includes baths so that mineral baths from the springs can be construed as coming under the water claim. The pipe diversions from Rampart Creek also come under the claim, for sanitary, culinary, stock watering and irrigation purposes. Thus, all water diverted in Rampart Creek valley seems to be under the recorded claim.

The power diversion from the Nisqually River does not comply with the claim either as to use or source of supply. Rights perfected under application to the State Supervisor of Hydraulics can be amended by change in point of diversion and purpose of use, but we do not know that this is possible for those recorded with the county. However, New Mexico permits changes in both types. Hence, the matter will be investigated further, and the result will determine the extent to which we can use the full claim for present Park uses.

Present Longmire Water Use

The Park Service now has two water systems at Longmire, that for the Hotel supply from Rampart Creek, and that for the administrative area and campground from a tributary on the south side of the Nisqually, which is called Cold Creek in Park reports of 1935. Various points of diversion have been used for each system. Proposed claims will be for the newest or highest point in each case and the other points will merely serve to establish earlier priority. Iron Mike Spring seems to have preceded the Rampart Creek diversion for the Hotel until about 1930.

The Hotel line has a capacity of 0.7 sec. ft. Use was reported as 0.14 sec. ft. in 1935. The available reliable flow seems to be about 0.5 sec. ft. It is suggested that the latter be recognized as the full extent of claim under

the Longmire filing for this system. This leaves 9.5 sec. ft. to transfer or abandon, depending on whether rights under county filings can be transferred or not.

The Park Service pipe line has a capacity of 0.55 sec. ft. The flow is reported to vary from 0.56 sec. ft. to 11.0 sec. ft. Use in 1935 was 0.15 sec. ft. In the studies of demand at Rocky Mountain it was estimated that ultimate water demand in the park would be about three times that of 1936. On this basis, ultimate demand from the Park system at Longmire will be about equal to the pipe capacity. It is suggested that a claim be filed for 0.55 sec. ft., as a transfer of the Longmire right if possible, and otherwise as part of a new filing with the State Supervisor of Hydraulics.

These two diversions will provide 1.05 sec. ft. of water for the Longmire area, which should be ample. They omit any present claim to Iron Mike Spring or any of the mineral springs. Does this conform to the master plan or not?

Paradise Water Use

There are two old and two new diversions for the Paradise water system. The old ones seem to have been abandoned and superseded by the new ones. The new ones divert by independent pipe lines to a common distribution reservoir whence the commingled waters serve the Paradise Area and Marada Falls.

The pipe capacity is reported to be about 1.7 sec. ft., and the use in 1935 was about 0.42 sec. ft. including use at a CCC camp. There seem to be no records of flow. Unless the supply is appreciably less, a claim for 1.25 sec. ft. is suggested.

Nisqually Entrance Water Use

The map of the Nisqually Entrance Pipe Line is little more than a sketch. To obtain ties to a section corner we have accepted the statement of Mr. Waterhouse that the upper diversion is between 150 and 200 feet higher than the road, and a statement on the sketch that the upper and lower diversions are 1300 feet apart. Due to the courses of the two streams supplying the system, the conditions can be met in very limited areas. The points shown on drawing NP-RAI-6982 should be satisfactory for water right claims.

The road between the entrance and stream crossing is about level and the pipe line is approximately 4200 feet long. This suggests a capacity of about 0.07 sec. ft. Use in 1935 was reported to be about 0.05 sec. ft. It is suggested that the claim be made for 0.07 sec. ft.

Tahoma Vista Water Use

The Regional Office has no maps of the Tahoma Vista Water System or of the west side road from the entrance to the parking area by which to locate it. The system is not listed in the tabulations of 1935. Any available data in the Park is requested.

Paradise Hydroelectric System

The Paradise hydroelectric system is located on drawing NP-RAI-6982 by equating the maintenance camp as shown on the Mt. Rainier quadrangle and on the plan prepared by the Puget Sound Bridge and Dredging Company in 1920. The location seems to be in perfect harmony with the topography.

In the Drysdale reports of 1935 it was reported that 800 KVA were generated with 3 sec. ft. and it was desired to increase the diversion to 5 sec. ft. The plan and profile show a static head of 504 ft. A flow of 23.4 sec. ft. is needed to generate 800 KVA with a 504 ft. head at 80% efficiency and well designed penstock. Apparently Mr. Drysdale dropped his decimal point and should have said 30 and 50 sec. ft. respectively.

Mr. Hohl made a thorough study of the installation in May 1942 and determined that the maximum efficiency of the system resulted with a diversion of 33 sec. ft. About the same time consideration was being given to divert 50 sec. ft. from Stevens Creek to increase the supply. This implies that 33 sec. ft. are not always available.

By memorandum of February 10, 1943, the writer gave arguments against the Stevens Creek diversion plan, and requested that an all time decision be made with regard to the scheme which is now temporarily shelved. It is again suggested here that the Stevens Creek diversion plan be abandoned on the ground that it will be expensive, hard to maintain and subject to constant change because of the rapid recession of the glacier. Note on drawing NP-RAI-6982 that the Paradise Glacier is receding at a rate of 100 feet per year.

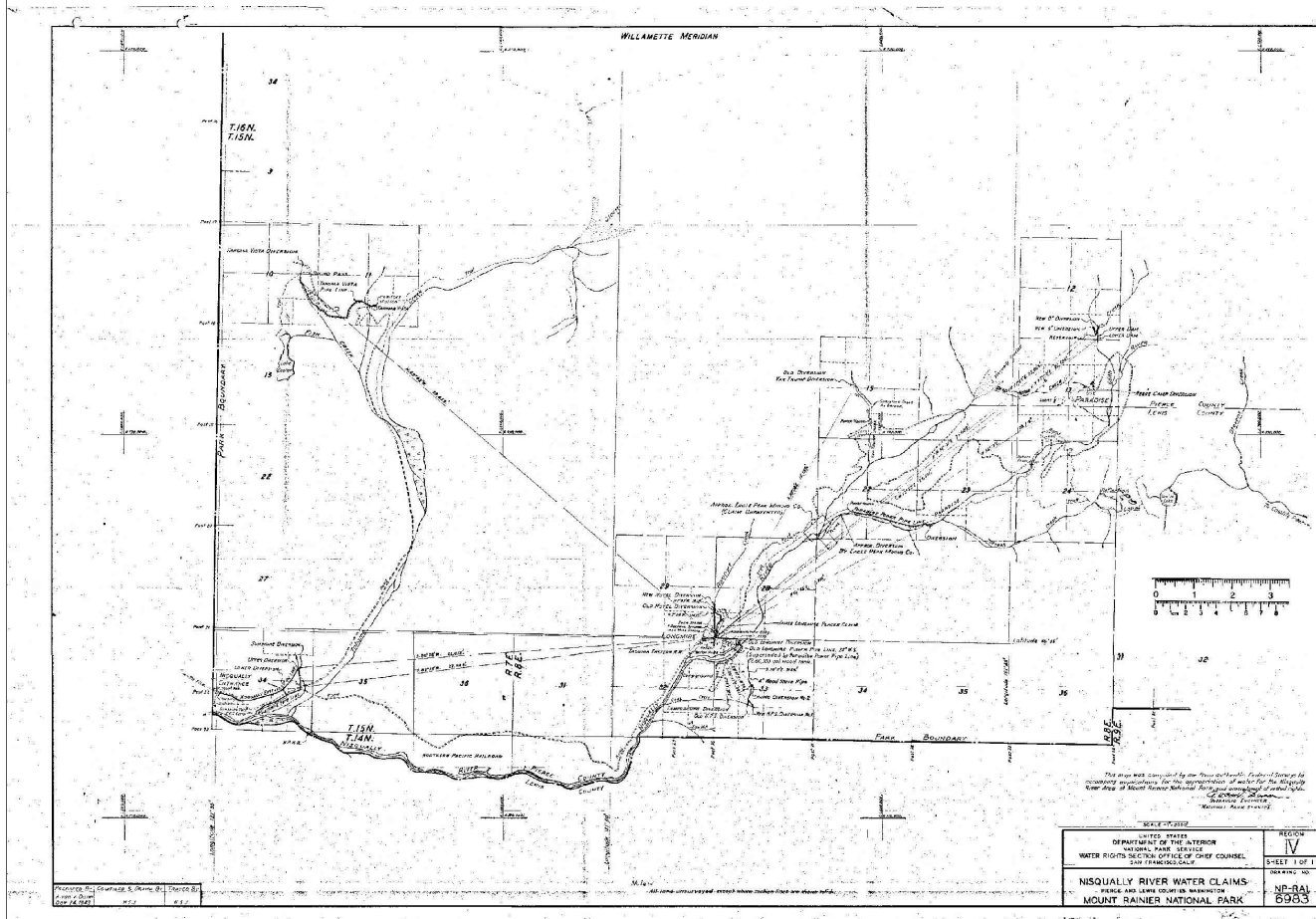
On this basis, it is suggested that a water claim be filed for 33.0 sec. ft., with no claim to waters from Stevens Creek.

As previously stated, there are records of an early hydroelectric plant at Longmire. Since the power use is not covered by the county filing, is greater than the claimed quantity, and is non-consumptive, an independent filing is essential. The Paradise system seems to have been built about 1920 and that at Longmire was much older. It will be desirable to claim that the installation was moved upstream to a more central location for both Longmire and Paradise, and claim priority for the Longmire installation. The date of that installation is wanted.

Summary

The Drysdale report of 1935 gave the water use in the Nisqually drainage as 1.34 sec. ft. as of that date and 3.87 ultimately. It is here suggested that claims be made for the following, for which concurrence is requested:

<u>System</u>	<u>Under County Filing</u>	<u>Under County or New Filing</u>	<u>Under New Filing</u>
Misqually Entrance		0.07 s.f.	
Tahoma Vista		0.02 $\frac{1}{2}$ s.f.	
Longmire Hotel	0.50 s.f.		
Longmire N.P.S.		0.55 s.f.	
Paradise		1.25 s.f.	
<u>Paradise Power</u>			<u>33.0 s.f.</u>
Total	0.50 s.f.	1.89 s.f.	33.0 s.f.
Total consumptive		2.39 s.f.	
Power		<u>33.00 s.f.</u>	
Grand Total		35.39 s.f.	



Docket Information

Number of Documents in Docket 97

Documents Dated from 5/12/1942 to 12/6/1957

Docket Compiled: 5/27/2011