

11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

T62N R2E



P/D = Moyie Dam

P/U = Moyie Powerhouse

Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

Handwritten signature: Daniel Kerby 3-30-83
(Applicant)
Handwritten text: Pres. of City Council

RECEIVED

NOTICE OF APPLICATION FOR WATER RIGHT

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

98-7489

HALL, PAULA J. &/or STEPHEN A.
STAR RT. 1 BOX 198, BONNERS FERRY, ID 83805
Source: HALL CREEK trib. to KOOTENAI CREEK
Date Filed: 03/31/1983
Diversion Pt: SWSE Sec 25 T 65N R 01W
Use: IRRIGATION (0.50 CFS)
In: SESW SWSE SESE Sec 25 T 65N R 01W FOR 45 ACRES

98-7490

HALL, PAULA J. &/or STEPHEN A.
STAR RT. 1 BOX 198, BONNERS FERRY, ID 83805
Source: SPRING trib. to SINKS
Date Filed: 03/31/1983
Diversion Pt: NESE Sec 25 T 65N R 01W
Use: IRRIGATION (0.14 CFS)
STOCKWATER (0.04 CFS)
DOMESTIC (0.02 CFS)
In: SWSE SESE Sec 25 T 65N R 01W FOR 10 ACRES

98-7491

LINDSAY, SCOT
CHRISTENSEN, D.L.
P.O. BOX 295, BONNERS FERRY, ID 83805
Source: GROUNDWATER
Date Filed: 03/30/1983
Diversion Pt: NWSW Sec 33 T 62N R 02E
Use: IRRIGATION (0.04 CFS)
DOMESTIC (0.04 CFS)
In: NWSW Sec 33 T 62N R 02E FOR 2 ACRES

98-7492

CITY OF BONNERS FERRY
P.O. BOX 149, BONNERS FERRY, ID 83805
Source: MOYIE RIVER trib. to KOOTENAI RIVER
Date Filed: 04/01/1983
Diversion Pt: SWSW Sec 11 T 62N R 02E
Use: POWER (120.00 CFS)
In: NWNW Sec 14 T 62N R 02E

98-7493

BEECHER, RON &/or COOKIE
STAR RT. 1, NAPLES, ID 83847
Source: GROUNDWATER
Date Filed: 04/04/1983
Diversion Pt: SWNW Sec 05 T 61N R 01E
Use: IRRIGATION (0.12 CFS)
STOCKWATER (0.06 CFS)
DOMESTIC (0.02 CFS)
In: SWNW Sec 05 T 61N R 01E FOR 20 ACRES

98-7494

OAKES, LEROY
STAR RT. BOX 310, NAPLES, ID 83847
Source: GROUNDWATER
Date Filed: 03/22/1983
Diversion Pt: SENE Sec 21 T 61N R 01E
Use: IRRIGATION (0.16 CFS)
STOCKWATER (0.02 CFS)
DOMESTIC (0.02 CFS)
In: SENE Sec 21 T 61N R 01E FOR 10 ACRES

AFFIDAVIT OF PUBLICATION

APR 28 1983

IO }
ary } ss.

Department of Water Resources

for Pate Thompson Northern District Office being
upon his oath, deposes and says that he is the publisher (or foreman)
Publisher

Ferry Herald, a newspaper of general circulation, published weekly at
boundary County, State of Idaho; that the said Bonners Ferry Herald has
y and uninterruptedly published in said Boundary County during a period
78 weeks prior to the first publication of the hereto attached notice; that

it of Notice of Application for Water Right

7490 98-7491 98-7492 98-7493 98-7494

98-7495 98-7497 98-7498

ation, a printed copy of which is attached hereto was published in said
ot in a supplement thereof for 2 consecutive issues, com-
e issue dated April 14, 1983, and ending with the
April 21, 1983.

sworn to before me this 26th day of April, 1983.

Notary Public in and for the County of Boundary, State of Idaho,
residing at Bonners Ferry, Idaho.

98-7495

HEINEMANN, BERNARD &/or JUNE
STAR RT. 1 BOX 114, BONNERS FERRY, ID 83805
Source: TROW CREEK trib. to KOOTENAI RIVER
Date Filed: 04/06/1983
Diversion Pt: SWSE Sec 10 T 65N R 01W
Use: STOCKWATER (0.20 CFS)
In: SWSE Sec 10 T 65N R 01W

98-7496

HEINEMANN, BERNARD &/or JUNE
STAR RT. 1 BOX 114, BONNERS FERRY, ID 83805
Source: TROW CREEK trib. to KOOTENAI RIVER
Date Filed: 04/06/1983
Diversion Pt: NENW Sec 14 T 65N R 01W
Use: STOCKWATER (0.20 CFS)
In: NENW Sec 14 T 65N R 01W

98-7497

BENNETT, WILLIAM L. &/or BETTY L.
STAR RT. 1, MOYIE SPRINGS, ID 83845
Source: UNNAMED STREAM trib. to SAND CREEK
Date Filed: 03/16/1983
Diversion Pt: NWNE SWNE Sec 21 T 62N R 03E
Use: STOCKWATER (0.07 CFS)
In: NWNE SWNE Sec 21 T 62N R 03E

98-7498

SOUTH HILL WATER & SEWER DIST.
RT. 1, BONNERS FERRY, ID 83805
Source: SNOW CREEK trib. to DEEP CREEK
Date Filed: 03/29/1983
Diversion Pt: SWNW Sec 02 T 61N R 01W
Use: IRRIGATION (7.00 CFS)
STOCKWATER (0.02 CFS)
COMMERCIAL (7.00 CFS)
DOMESTIC (7.00 CFS)
In: SWNE SWNW SW 1/4 NWSE Sec 34 T 62N R 01E SENE
NESE SWSE SESE Sec 33 T 62N R 01E NENW NWNW
SENW Sec 03 T 61N R 01E NE 1/4 SENW NESW SESW SE 1/4
Sec 04 T 61N R 01E FOR 615 ACRES

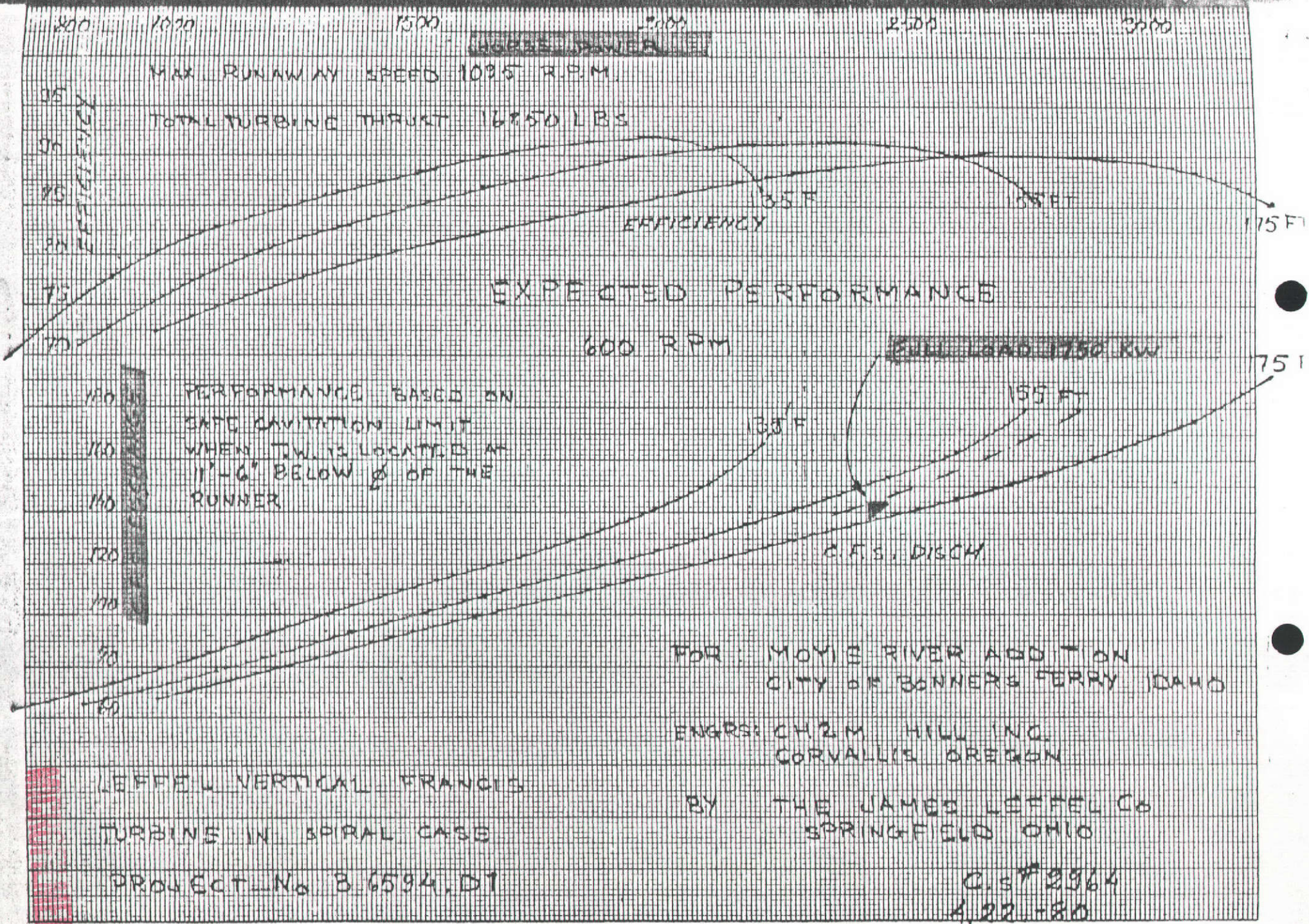
The permit(s) will be subject to all prior water rights.
Protests must be filed with the Director, Dept. of Water
Resources, 4055 Gov't. Way, Coeur d'Alene, Id. 83814 on or
before MAY 2, 1983.

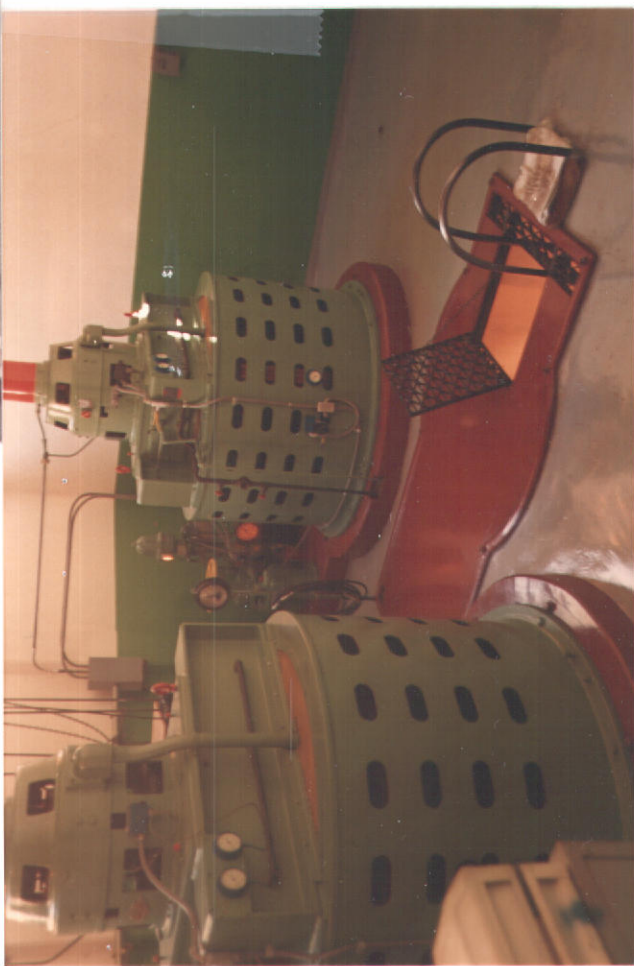
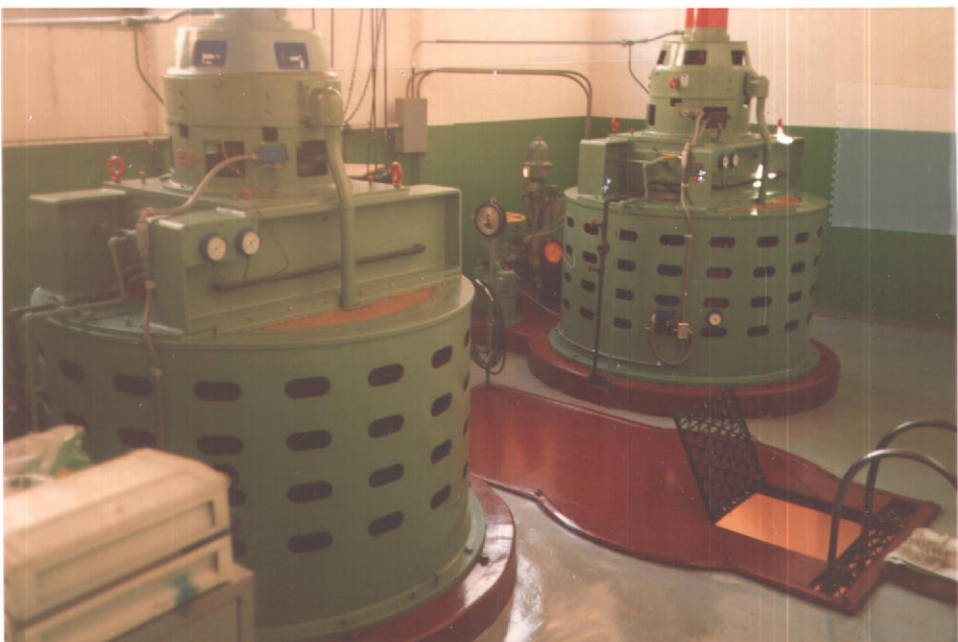
KEN DUNN, Dir.

First publication April 14, 1983

Final publication April 21, 1983-dwr

RECEIVED



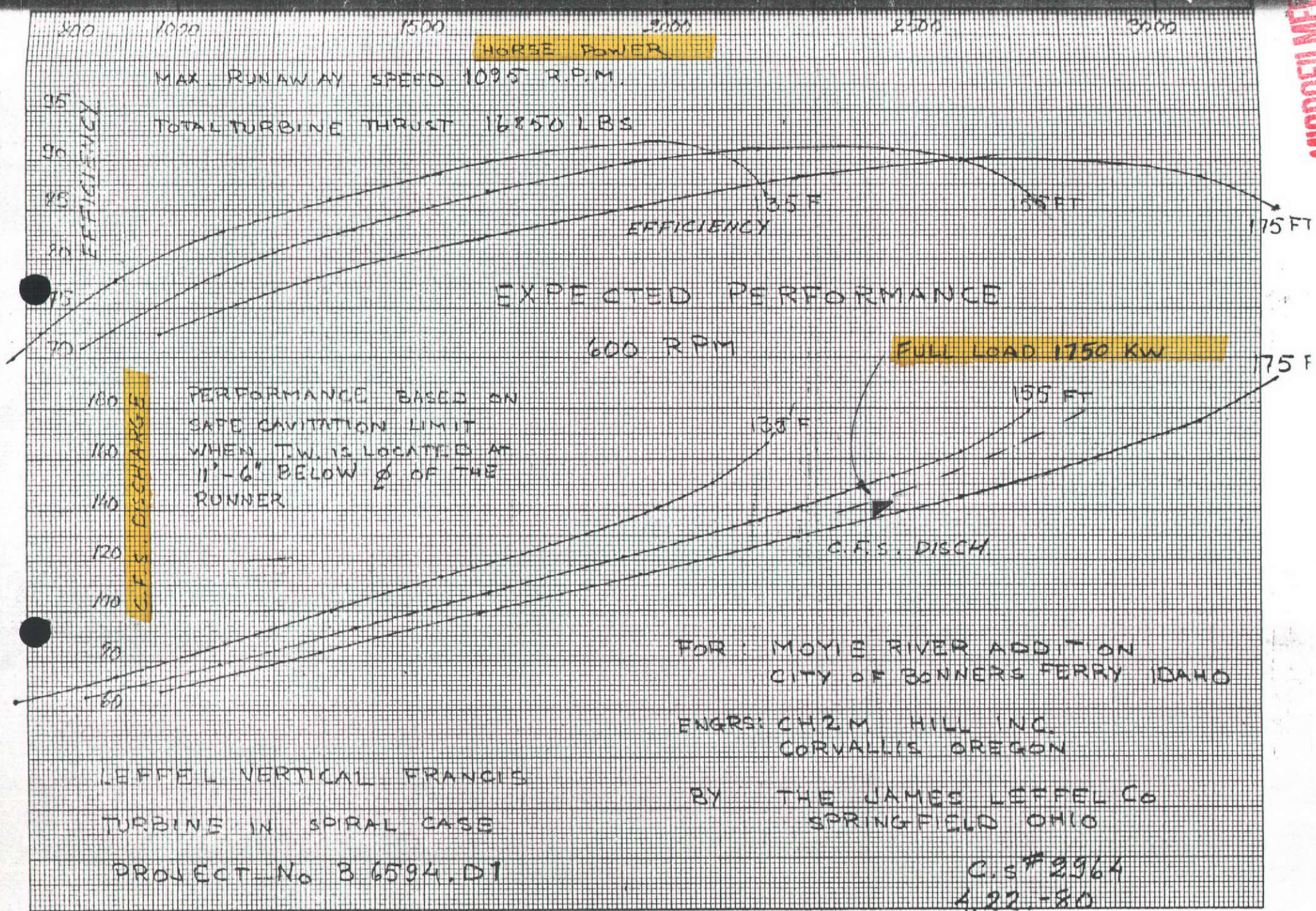


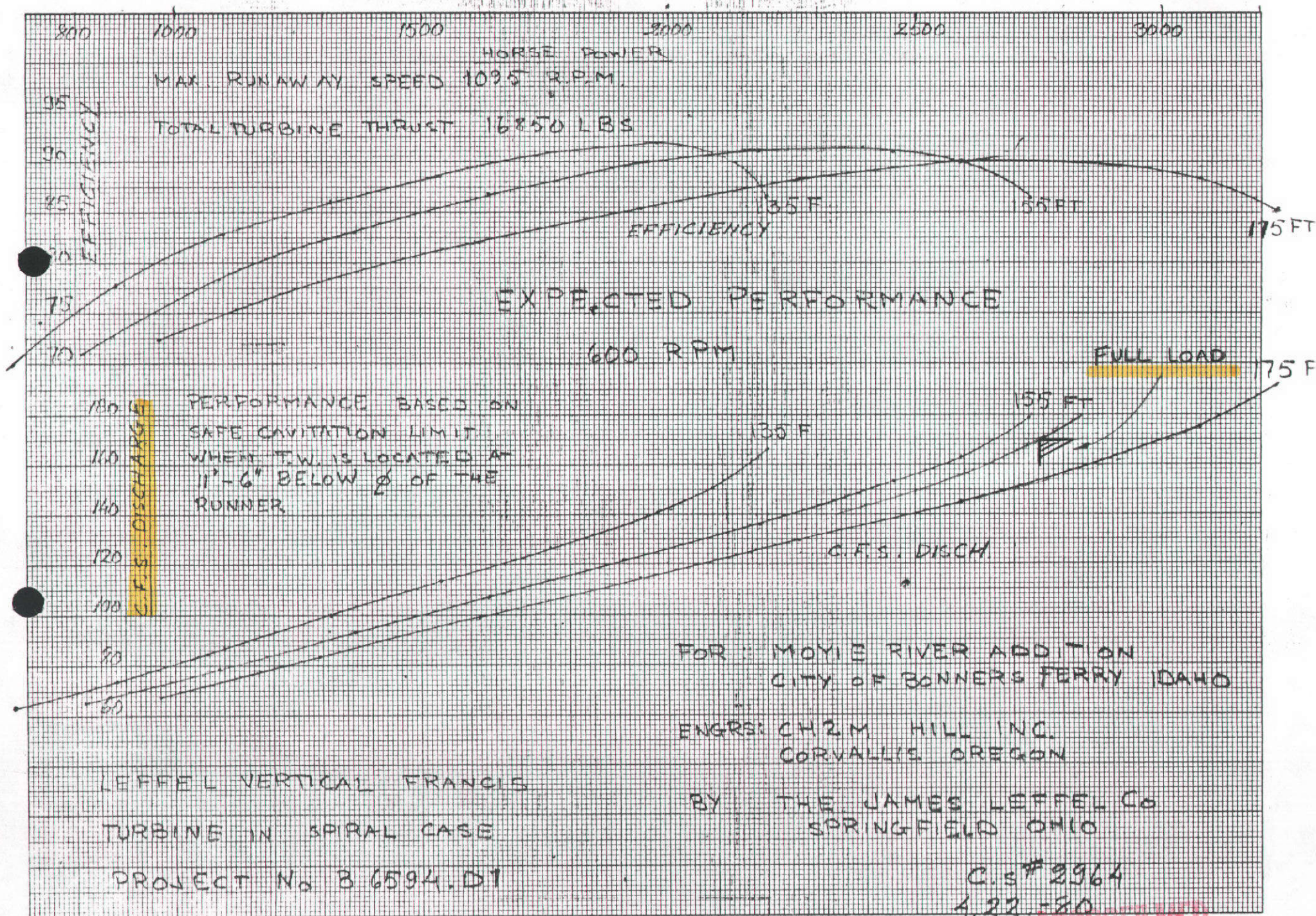
98-7492



MICROFILMED

REPRODUCED





State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 98-7492 Priority April 1, 1983 Amount 93.0 cfs

THIS IS TO CERTIFY, that City of Bonners Ferry
of Bonners Ferry, Idaho, has complied with the terms and conditions of Permit
No. 98-7492 issued pursuant to Application for Permit dated April 1, 1983,
and has submitted proof to the Department of Water Resources on March 26, 1984,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of 143.0 of water from Moyie River,
tributary to Kootenai River, and that the permit holder has applied to a beneficial use and
established a right to use water as follows:

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
Power	from <u>January 1</u> to <u>December 31</u>	at <u>93.0</u> cfs and	<u>N/A</u>
	from _____ to _____	at _____ cfs and	
	from _____ to _____	at _____ cfs and	

(both dates inclusive)

Subject, however, to the condition that no more than 93.0 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
N/A acre feet per year, said waters to be diverted within the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 11,
Twp 62N, Rge 2E in the County of Boundary

Description and location of place of use:

Twp.	Range	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Totals
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
62N	2E	14					X												

Total number of acres irrigated _____

NOT RECORDED

RECEIVED

CONDITIONS OF APPROVAL

a. Modifications to or variance from this license must be made within the limits of Section 42-222, **Idaho Code**, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

b. The right to the use of the water hereby confirmed is restricted and appurtenant to lands or place of use herein described, and is subject to all prior water rights, as provided by the laws of Idaho.

c. Any water right confirmed in this license for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this license and shall not give rise to any right or claim against any future rights to the use of water other than hydropower, within the State of Idaho initiated later in time than the priority of this license.

A measuring device of a type approved by this Department shall be maintained as a part of the diverting works.

The diversion and use of water under this license is subject to review by the Director 35 years from the date of issuance. Upon appropriate findings relative to the interest of the public, the Director may cancel all or any part of the use authorized herein and may revise, delete or add conditions under which the right may be exercised.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this 19TH day of MAY, 19 86.

Norman C. Young
Director

Jim

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

APPROVED

To appropriate the public waters of the State of Idaho

1. Name of applicant City of Bonners Ferry Phone 208-267-3105

Post office address P. O. Box 149 Bonners Ferry, Id. 83805

2. Source of water supply Moyie River which is a tributary of Kootenai River

3. Location of point of diversion is SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of Section 11 Township 62N

Range 2E B.M. Boundary County, additional points of diversion if any: _____

4. Water will be used for the following purposes:

Amount 120 for Power purposes from 1/1 to 12/31 ^{Annually} (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
(cfs or acre-feet per annum)

5. Total quantity to be appropriated:

a. 120 cubic feet per second and/or b. _____ acre-feet per annum.

6. Proposed diverting works:

a. Description of ditches, flumes, pumps, headgates, etc. Diverted from Moyie Dam to existing
generating facilities.

b. Height of storage dam 97 feet, active reservoir capacity 560 acre-feet; total reservoir
capacity 560 acre-feet, materials used in storage dam: Concrete

Period of year when water will be diverted to storage 1/1 to 12/31 inclusive.
(Month/Day) (Month/Day)

c. Proposed well diameter is _____ inches; proposed depth of well is _____ feet.

7. Time required for the completion of the works and application of the water to the proposed beneficial
use is 3 years (minimum 1 year — maximum 5 years).

8. Description of proposed uses:

a. If water is not for irrigation:

(1) Give the place of use of water: NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of Section 14 Township 62N
Range 2E B.M.

(2) Amount of power to be generated: 1923 horsepower under 165 feet of head.

(3) List number of each kind of livestock to be watered _____

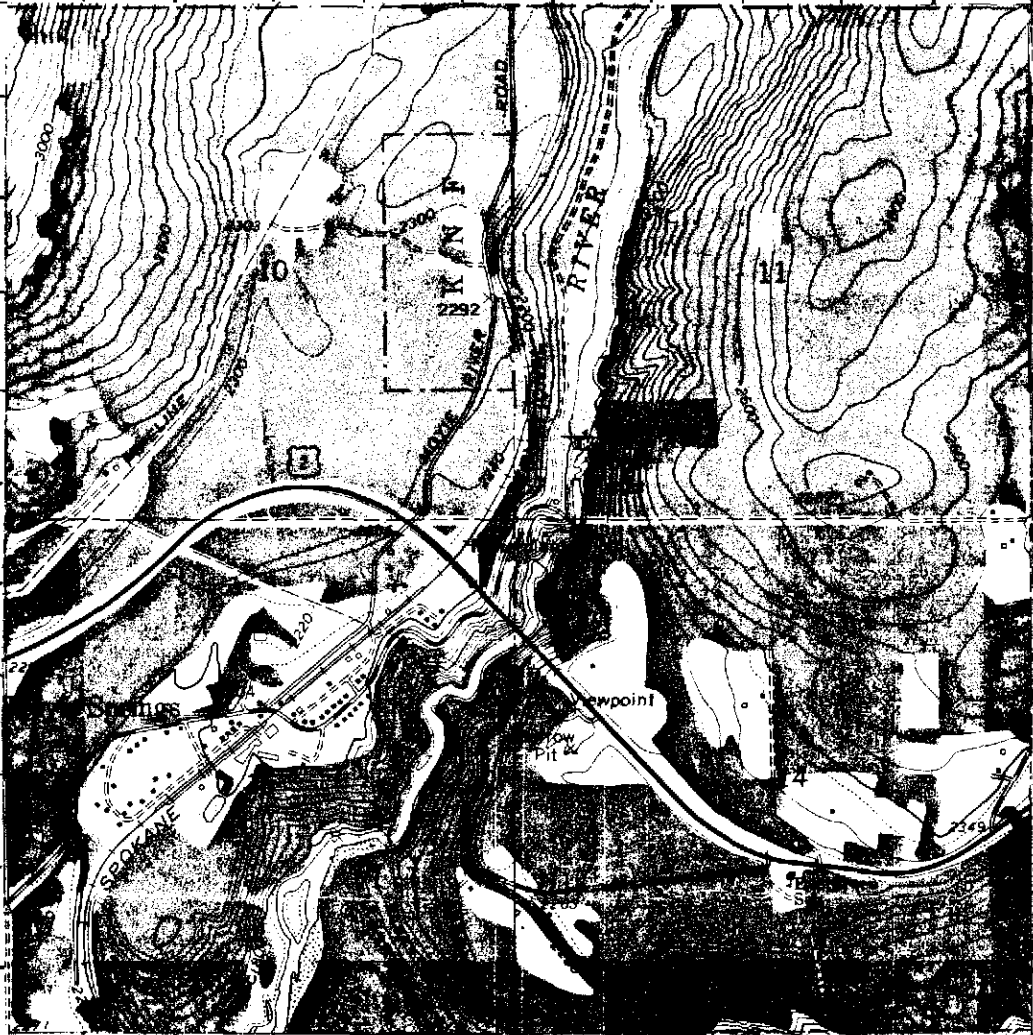
(4) Name of municipality to be served _____, or number of families to be
supplied with domestic water _____.

(5) If water is to be used for other purposes describe: _____

RECORDED

11. Map of proposed project: show clearly the proposed point of diversion, place of use, section number, township and range number.

T62N R2E



P/D = Moyie Dam
P/U = Moyie Powerhouse

NOT TO SCALE

Scale: 2 inches equal 1 mile.

BE IT KNOWN that the undersigned hereby makes application for permit to appropriate the public waters of the State of Idaho as herein set forth.

David Lerby 3-30-83
(Applicant)
Pres. of City Council

Proposed Priority 4/1/83

Received by RAA Date 4/1/83 Time 12:30 PM

Preliminary check by JO Fee \$ 1325.00

Receipted by RAA Date 4/1/83 (27475)

Publication prepared by Mr Date 4/7/83

Published in Bonnie Terry Hall

Publication dates 4/14 - 21/83

Publication approved Mr Date 5/3/83

Protests filed by: none

Copies of protests forwarded by _____

Hearing held by _____ Date _____

Recommended for approval denial by RAA RC

ACTION OF THE DIRECTOR, DEPARTMENT OF WATER RESOURCES

This is to certify that I have examined Application for Permit to appropriate the public waters of the State of Idaho No. 98-7492, and said application is hereby Approved.

1. Approval of said application is subject to the following limitations and conditions:

a. SUBJECT TO ALL PRIOR WATER RIGHTS.

b. Proof of construction of works and application of water to beneficial use shall be submitted on or before July 1, 19 86.

c. The rate of diversion, if water is to be used for irrigation under this permit, when combined with all other water rights for the same land shall not exceed 0.02 cubic feet per second for each acre of land.

d. Other:

1. A measuring device of a type approved by the Department shall be permanently installed and maintained as part of the diverting works.
2. This permit is subject to the provisions of Sections 42-205 through 42-210, Idaho Code, restricting the sale, transfer, assignment, or mortgage of this permit. Failure to comply with these provisions is cause for immediate cancellation of this permit.
3. Use of water under this permit is subordinated to future diversion of water either upstream or downstream for irrigation or other consumptive beneficial uses.
4. This permit does not constitute Idaho Public Utilities Commission or Federal Energy Regulatory Commission approval that may be required.

Witness my hand this 21st day of June, 1983.

A. Glen Saxton
Chief, Operations Bureau

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
AFFIDAVIT FOR WATER RIGHTS TO BE USED
FOR POWER PURPOSES

Ident. No. 75442

RECEIVED

APR 25 1983

A. Establishment of Residency: (Complete either 1, or 2).

Department of Water Resources
Northern District Office

1. Individual Applicant or Individual Members of a Partnership:

I, _____ of _____
(name) (city)

county of _____, State of Idaho, being duly sworn, do
hereby certify that I am a bona fide resident of the State of Idaho.

2. Corporation:

I, Harold Sims of Bonnors Ferry
(name) (city)

County of _____ Boundary _____, State of Idaho, being duly sworn, depose
and say: That I am the designated registered agent of the _____

City of Bonnors Ferry: that as such I am in charge of the registered
(name of corporation)

office of the said corporation as required by Section 30-1-12, Idaho Code, at

Bonnors Ferry Idaho, wherein are kept the corporate records required
(city)

by Section 30-1-52, Idaho Code: and that The City of Bonnors Ferry
(name of corporation)

is a corporation qualified to do business in the State of Idaho under the laws of
the State of Idaho.

B. Ownership of Facilities: (To be completed for hydropower projects only).

The hydropower facility to be developed pursuant to the attached Application for
Permit:

(check one)

- ☐ Will not utilize existing man-made irrigation facilities such as a dam or a canal.
- ☐ Will utilize existing man-made irrigation facilities such as a dam or a canal, and permission of the owner is documented in an affidavit attached hereto.
- ☒ Will utilize existing man-made ~~irrigation~~ facilities such as a dam or a canal and the owner of the facilities is the signee of this affidavit.

Harold Sims
Applicant

State of Idaho)
County of Boundary) ss.

On this 19th day of April, 1983, personally
appeared before me the signer(s) of the above instrument, who duly acknowledged
to me that he (she) (they) executed the same.

Esther Barker
Notary Public residing at
Bonnors Ferry

seal

My commission expires:

MICROFILMED

NOTICE OF APPLICATION FOR WATER RIGHT
The following application(s) have been filed to appropriate the public waters of the State of Idaho:

RECEIVED
AFFIDAVIT OF PUBLICATION
APR 28 1983

IO }
ary } ss.

Department of Water Resources
Northern District Office
kpr for Peter Thompson being
upon his oath, deposes and says that he is the publisher (or foreman)
Publisher

Ferry Herald, a newspaper of general circulation, published weekly at
boundary County, State of Idaho; that the said Bonners Ferry Herald has
y and uninterruptedly published in said Boundary County during a period
78 weeks prior to the first publication of the hereto attached notice; that

it of Notice of Application for Water Right

7490 98-7491 98-7492 98-7493 98-7494
98-7496 98-7497 98-7498

ation, a printed copy of which is attached hereto was published in said
ot in a supplement thereof for 2 consecutive issues, com-
e issue dated April 14, 1983, and ending with the
April 21, 1983

sworn to before me this 26th day of April, 1983.

Notary Public in and for the County of Boundary, State of Idaho,
residing at Bonners Ferry, Idaho.

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Date Filed: 03/31/1983
Diversion Pt: NESE Sec 25 T 65N R 01W
Use: IRRIGATION (0.14 CFS)
STOCKWATER (0.04 CFS)
DOMESTIC (0.02 CFS)
In: SWSE SESE Sec 25 T 65N R 01W FOR 10 ACRES

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CHRISTENSEN, D.L.
P.O. BOX 295, BONNERS FERRY, ID 83805
Source: GROUNDWATER
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Diversion Pt: NWSW Sec 33 T 62N R 02E
Use: IRRIGATION (0.04 CFS)
DOMESTIC (0.04 CFS)
In: NWSW Sec 33 T 62N R 02E FOR 2 ACRES

98-7492
CITY OF BONNERS FERRY
P.O. BOX 149, BONNERS FERRY, ID 83805
Source: MOYIE RIVER trib. to KOOTENAI RIVER
Date Filed: 04/01/1983
Diversion Pt: SWSW Sec 11 T 62N R 02E
Use: POWER (120.00 CFS)
In: NWNW Sec 14 T 62N R 02E

98-7493
BEECHER, RON &/or COOKIE
STAR RT. 1, NAPLES, ID 83847
Source: GROUNDWATER
Date Filed: 04/04/1983
Diversion Pt: SWNW Sec 05 T 61N R 01E
Use: IRRIGATION (0.12 CFS)
STOCKWATER (0.06 CFS)
DOMESTIC (0.02 CFS)
In: SWNW Sec 05 T 61N R 01E FOR 20 ACRES

98-7494
OAKES, LEROY
STAR RT. BOX 310, NAPLES, ID 83847
Source: GROUNDWATER
Date Filed: 03/22/1983
Diversion Pt: SENE Sec 21 T 61N R 01E
Use: IRRIGATION (0.16 CFS)
STOCKWATER (0.02 CFS)
DOMESTIC (0.02 CFS)
In: SENE Sec 21 T 61N R 01E FOR 10 ACRES

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Source: TROW CREEK trib. to KOOTENAI RIVER
Date Filed: 04/06/1983
Diversion Pt: SWSE Sec 10 T 65N R 01W
Use: STOCKWATER (0.20 CFS)
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STAR RT. 1, MOYIE SPRINGS, ID 83845
Source: UNNAMED STREAM trib. to SAND CREEK
Date Filed: 03/16/1983
Diversion Pt: NWNE SWNE Sec 21 T 62N R 03E
Use: STOCKWATER (0.07 CFS)
In: NWNE SWNE Sec 21 T 62N R 03E

98-7498
SOUTH HILL WATER & SEWER DIST.
RT. 1, BONNERS FERRY, ID 83805
Source: SNOW CREEK trib. to DEEP CREEK
Date Filed: 03/29/1983
Diversion Pt: SWNW Sec 02 T 61N R 01W
Use: IRRIGATION (7.00 CFS)
STOCKWATER (0.02 CFS)
COMMERCIAL (7.00 CFS)
DOMESTIC (7.00 CFS)
In: SWNE SWNW SW 1/4 NWSE Sec 34 T 62N R 01E SENE
NESE SWSE SESE Sec 33 T 62N R 01E NENW NWNW
SENE Sec 03 T 61N R 01E NE 1/4 SENW NESW SESW SE 1/4
Sec 04 T 61N R 01E FOR 615 ACRES

The permit(s) will be subject to all prior water rights.
Protests must be filed with the Director, Dept. of Water
Resources, 4055 Gov't. Way, Coeur d'Alene, Id. 83814 on or
before MAY 2, 1983.

KEN DUNN, Dir.
First publication April 14, 1983
Final publication April 21, 1983-dwr

DEPARTMENT OF WATER RESOURCES



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:
Statehouse
Boise, Idaho 83720
(208) 334-4440

May 22, 1986

RE: Permit No. 98-7492

City of Bonners Ferry
Box 149
Bonners Ferry, ID 83805

Gentlemen:

Enclosed herewith is a copy of the Water Right License issued on the above referenced Permit.

Sincerely,

JIM JOHNSON
Water Distribution Supervisor

JJ:sc

Enclosure

RECEIVED

MEMORANDUM

TO: File 98-7492

FROM: Jim Johnson *Jim*

DATE: May 8, 1986

RE: Response to Pre-license Correspondence

On 4/21/86 I sent the City of Bonners Ferry a copy of the license proposed to be issued.

On 5/5/86 the Department received a response whereby the amount of water to be licensed had been requested to be changed from 90.0 cfs to 93.0 cfs. The permit holder submitted supporting information which showed total plant useage at 143.0 cfs.

The calculations made on this right used the capacity shown on a previously issued license, 98-7320, of 140.0 cfs. License 98-7320 had been issued for 50 cfs. Therefore, this right had deducted the 50 cfs from the previously stated capacity of 140 cfs.

After reviewing the supporting information provided by the permit holder, it was decided to use the information and accept the 143 cfs as plant capacity. Therefore, the license amount is increased to 93 cfs.

RECEIVED
MAY 12 1986
FBI - BONNERS FERRY

State of Idaho Department of Water Resources **PROPOSED** WATER RIGHT LICENSE

License of Water Right No. 98-7492 Priority April 1, 1983 Amount 90.0 cfs

THIS IS TO CERTIFY, that City of Bonners Ferry
of Bonners Ferry, Idaho, has complied with the terms and conditions of Permit
No. 98-7492 issued pursuant to Application for Permit dated April 1, 1983,
and has submitted proof to the Department of Water Resources on March 26, 1984,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of 140.0 cfs of water from Moyie River,
tributary to Kootenai River, and that the permit holder has applied to a beneficial use and
established a right to use water as follows:

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
Power	from <u>January 1</u> to <u>December 31</u>	at <u>90.0</u> cfs and	<u>N/A</u>
	from _____ to _____	at _____ cfs and	
	from _____ to _____	at _____ cfs and	

(both dates inclusive)

Subject, however, to the condition that no more than 90.0 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
N/A acre feet per year, said waters to be diverted within the SW1SW4, Section 11,
Twp 62N, Rge 2E in the County of Boundary

Description and location of place of use:

Twp.	Range	Sec.	NE¼				NW¼				SW¼				SE¼				Totals
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	
62N	2E	14					X												

Total number of acres irrigated _____

MICROFILMED

CONDITIONS OF APPROVAL

a. Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

b. The right to the use of the water hereby confirmed is restricted and appurtenant to lands or place of use herein described, and is subject to all prior water rights, as provided by the laws of Idaho.

c. Any water right confirmed in this license for hydropower purposes shall be junior and subordinate to all rights to the use of water, other than hydropower, within the State of Idaho that are initiated later in time than the priority of this license and shall not give rise to any right or claim against any future rights to the use of water other than hydropower, within the State of Idaho initiated later in time than the priority of this license.

A measuring device of a type approved by this Department shall be maintained as a part of the diverting works.

The diversion and use of water under this license is subject to review by the Director 35 years from the date of issuance. Upon appropriate findings relative to the interest of the public, the Director may cancel all or any part of the use authorized herein and may revise, delete or add conditions under which the right may be exercised.

Witness the seal and signature of the Director, affixed at Boise, Idaho, this _____ day of _____, 19 86 .

PROPOSED

Director

City of
BONNERS FERRY



Moyie Dam Constructed 1948

TELEPHONE (208) 267-3105
102 MAIN STREET
POST OFFICE BOX 149
BONNERS FERRY, IDAHO 83805

April 28, 1986

RECEIVED
MAY 5 1986

Mr. Jim Johnson
Water Rights Supervisor
Department of Water Resources
State Office
450 W. State Street
Boise, Idaho 83720

Department of Water Resources

Dear Mr. Johnson:

I am in receipt of your correspondence dated April 21, 1986, regarding Water Permit #98-7492. In same letter you requested comments to the proposed water license. In that regard, please refer to my correspondence of September 10, 1985, to your Department's Mr. Bob Haynes in Coeur d' Alene (copy attached for reference.) In same I requested the water quantity be 93 CFS based on latest supporting data. Please revise the proposed accordingly.

If there are any questions, don't hesitate to call me at 267-3105.

Very truly yours,

Mike Woodward
Mike Woodward
City Administrator

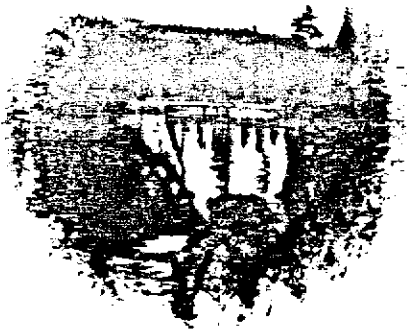
MJW/lis

Att.

cc: File (2)

MICROFILM

City of BONNERS FERRY



Moyie Dam Constructed 1948

TELEPHONE (208) 267-3105
102 MAIN STREET
POST OFFICE BOX 149
BONNERS FERRY, IDAHO 83805

September 10, 1985

State of Idaho
Department of Water Resources
4055 Government Way
Coeur d' Alene, Idaho 83814

Attention: Mr. Bob Haynes

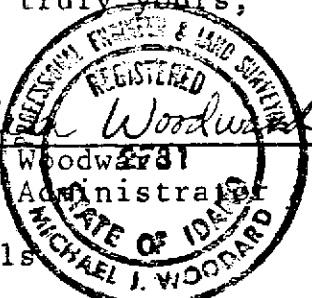
RE: Idaho Water Permit 98-7492

Dear Mr. Haynes:

Please refer to Idaho Water Permit 98-7492 with the City of Bonners Ferry for hydropower use at Moyie Springs, Idaho.

Attached is additional supporting information submitted for the purpose of demonstrating beneficial use. The information shows 143 cubic feet per second (c.f.s.) water use. This corresponds to the total of our Water License 98-7320 issued February 9, 1983, for 50 c.f.s. and Subject Permit if licensed for 93 c.f.s. Please process or call if questions arise.

Very truly yours,


Mike Woodward
City Administrator
MJW/lb

Att.

cc: File (2)

MICROFILMED

IDEAL ELECTRIC COMPANY
MANSFIELD OHIO

TEST REPORT SUMMARY

ON SYNCHRONOUS GENERATOR

PURCHASER - LEIFEL & CO.

DATE OF TEST - 6/26/61

ORDER NO. - 43246-F014-F053

IDEAL S.D. NO. - 314846

CITY OF BONNERS FERRY UNIT 4

NAMEPLATE RATING

OUTPUT KW	OUTPUT KVA	RPM	HERTZ	VOLT	FULL LOAD AMPERES	TYPE	FRAME
1488.0	1750.0	600.	60.	2500.	404.1	SAFE	V-6-20.5

TEMPERATURE RISE

STATOR					ROTOR			
CORE	COIL				COIL			
THERM	RES	DET 1	DET 2	DET 3	DET 4	DET 5	DET 6	RES
34.0	46.4	49.1	49.4	46.8	48.9	48.0	50.1	30.7

RATED STATOR TEMPERATURE RISE BY DETECTOR = 65.0

RATED ROTOR TEMPERATURE RISE BY RESISTANCE = 50.0

EFFICIENCIES

POWER FACTOR	110 PERCENT LOAD	100 PERCENT LOAD	75 PERCENT LOAD	50 PERCENT LOAD
0.85	96.4	96.4	96.3	95.5
1.00	97.1	97.1	96.8	95.9

OVER-SPEED TEST

1200 RPM

RESISTANCE (T-T AT 25. DEGREES C)	OHMS	0.05320	1.2277
HIGH POTENTIAL TEST (60 HZ. AC)	VOLTS	6000.00	7500.00

APPROVED BY *TF Harmon*

DATE 9-22-61

MICROFILMED

City of Bonners Ferry
Moyie Hydroelectric Plant
FERC License No. 1991
Plant Unit No. 4
Idaho Water Rights - Beneficial Use

The current full load water use of the City of Bonners Ferry's Unit No. Four (4) is determined by use of the turbine manufacturer's equipment performance curve attached and knowledge of the generator's efficiency. Generator full load measured and shown on plant switchboard meters is 1750 kilowatts. Log sheets were submitted previously demonstrating actual operations. With this known information the turbine driver water consumption can be determined as follows:

A. Turbine horsepower output -

$$\begin{aligned} \text{H.P.} &= (\text{Gen. Output}) \left(\frac{1}{\text{Gen. Efficiency}} \right) (\text{Conversion Constant}) \\ &= (1750 \text{ Kw}) \left(\frac{1}{.971} \right) \left(\frac{1 \text{ h.p.}}{.746 \text{ Kw}} \right) \\ &= 2416 \text{ H.p.} \end{aligned}$$

(See generator efficiencies on attached data sheet)

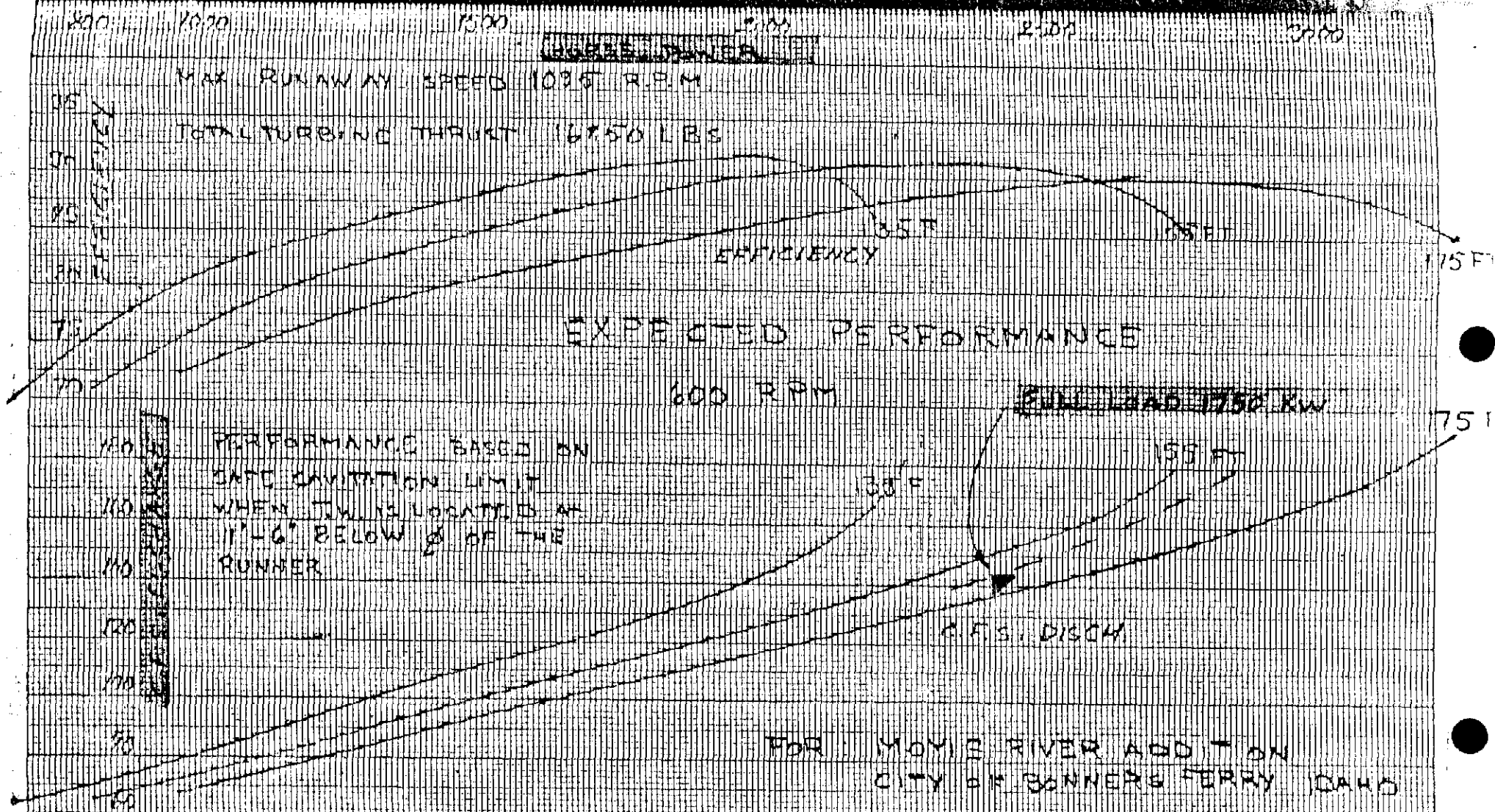
B. Water Use From Performance Curve -

At 2416 horsepower turbine output the James Leffel Company Performance Curve C.S. #2964 indicates 143 cubic feet per second water usage.



Michael J. Leonard
9.16.85

RECEIVED



EXPECTED PERFORMANCE

600 R.P.M.

FULL LOAD 1750 KW

PERFORMANCE BASED ON
SATD. CAVITATION LIMIT
WHEN T.W. IS LOCATED AT
11'-6" BELOW ϕ OF THE
RUNNER

C.F.S. DISCH.

FOR MOORE RIVER ADDITION
CITY OF BONNERS FERRY, IOWA

ENGRS: CHAS. M. HILL, INC.
CORVALLIS, OREGON

LEFFEL VERTICAL FRANCIS
TURBINE IN SPIRAL CASE

BY THE JAMES LEFFEL CO.
SPRINGFIELD, OHIO

PROJECT No. 3 6594.D1

C.S.F. 2364
4.22.80



State of Idaho

DEPARTMENT OF WATER RESOURCES

STATE OFFICE, 450 W. State Street, Boise, Idaho

JOHN V. EVANS

Governor

A. KENNETH DUNN

Director

Mailing address:

Statehouse

Boise, Idaho 83720

(208) 334-4440

April 21, 1986

RE: Permit No. 98-7492

City of Bonners Ferry
Box 149
Bonners Ferry, ID 83805

Dear Permit Holder(s):

Enclosed is a draft copy of the license proposed to be issued on the above referenced water right.

If you do not concur with the information shown on the draft license, please advise the Department within ten (10) days. If you have any questions, please let us know; otherwise, the license will be issued as identified on the draft copy.

Sincerely,

JIM JOHNSON
Water Rights Supervisor

JJ:sc

Enclosure

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
LICENSING REPORT

RECEIVED
SEP 16 1985

98-7492
Permit No.

Department of Water Resources

1. Measurement Calculations

- a) Field Measurement Calculations (Include theoretical capacities and system capacity)

SEE 98-7320

Applied For 120 cfs

$$Q = \frac{P(11.8)}{H_e} = \frac{1750(11.8)}{163 \times .91} = \frac{20650}{148.33} = 139.22 \text{ cfs}$$

1750 kw - per corres. of 9/10/85

Capacity

shown on Lic. 98-7320 = 140.0 cfs

- 50.0 - Licensed 98-7320
90.0 cfs available.

- b) Volume Calculations for Irrigation:

$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____

$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

- c) Volume Calculations for Other Uses:

$V = \text{NON-CONSUMPTIVE USE... N/A}$

SEE 98-7320

2. Overlap Review

- a) Other water rights with same place of use: _____

98-2036, 98-2060, 98-7320

- b) Other water rights with same point of diversion: _____

SEE VAX - 98-2036, 98-7320 & 98-2060

- c) Analysis: Rts. 98-2036 & 98-2060 have not been in use for years; therefore no further review conducted. See correspondence of 1/12/83 attached - & 1/4/83

MICROFILMED

RECOMMENDED AMOUNTS

10 day per Lic.
98-7320
140.0 cfs

Amount	App. Date	Date Proof Submitted	System Capacity
90.0 cfs	4-1-1983	3-26-1984	140.0 cfs

Permit No.	Priority	Amount	App. Date	Date Proof Submitted	System Capacity
98-7492	4-1-1983	90.0 ~~100.0~~	4-1-1983	3-26-1984	~~100.0~~

4. Permit Holder: CITY OF BONNERS FERRY ✓

Address: POB 149 ✓ Bonners Ferry, ID 83805 ✓

5. Source: Mayie River tributary to Kootenai River

[illegible]

POWER ✓ 1-1 ✓ 12-31 ✓ ~~1-1~~ 90.0 cfs N/A

Allowable Maximums: ~~100~~ 90.0 cfs N/A

7. Point(s) of Diversion: ✓

[illegible]

8. Place(s) of Use ☒

Twp.	Rge.	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
62N	2E	14						X											
Total Acres _____																			

9. Recommended Conditions/Remarks: no govt lots at this location

R01 R20

10. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

11. Examiner's Signature Sal Kuy

Date 8/30/85.

Checked in Regional Office by [Signature]

Date 4/12/85

Approved in State Office by R. Walker

Date 4/9/86



STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

NORTHERN REGION

John V. Evans
Governor

A. Kenneth Dunn
~~Executive Director~~
Director

Suite No. 1
4055 Government Way
Coeur d'Alene, Idaho 83814
(208) 667-6484

January 12, 1983

Mr. Mike Woodward, P.E.
City Engineer
City of Bonners Ferry
P. O. Box 149
Bonners Ferry, Id. 83805

Dear Mike:

As per your request, I am writing to explain why the portions of the City's early water rights that were not being used cannot be applied to the City's new generating facility.

The explanation may be found in Section 42-222 of the Idaho Code which defines forfeiture of a water right. Forfeiture is failure to apply water to the beneficial use for which it was appropriated for a term of five years. All forfeited rights revert back to the State.

As no major changes have taken place in the generating facilities since 1958, any appropriated water in excess of that being utilized after 1958 would have been lost to forfeiture sometime in 1963.

Consequently, in order to obtain a valid water right for the water utilized in the new turbine, an additional filing for 90 cfs will be necessary.

If you have any questions, please contact me at this office.

Sincerely,

151
LAWRENCE D. BEARD
E.I.T.

LDB/pms

cc: IDWR - State Office - File 98-7320 ~ 98-2036 ~ 18713

98-2060

RECEIVED

MICROFILMED

City of
BONNERS FERRY



Moyie Dam Constructed 1948

TELEPHONE (208) 267-3105
102 MAIN STREET
POST OFFICE BOX 149
BONNERS FERRY, IDAHO 83805

January 4, 1983

State of Idaho
Department of Water Resources
Suite No. 1
4055 Government Way
Coeur d' Alene, Idaho 83814

Attn: Lawrence D. Beard, E.I.T.

Re: Bonners Ferry Hydroelectric Plant Water Rights

RECEIVED

JAN 6 1983

Department of Water Resources
Northern District Office

Dear Larry;

Please refer to your letter to me of November 22, 1982 concerning the above subject.

I have done some checking of records here and have some new information that indicates our two earlier water rights were actually used. The factor that influences this is the use of an earlier low head dam where more water was consumed in producing power.

To be more specific consider first the City's Water License No. 17098 (98-2036). This water was used in the first plant turbine. The turbine operated off the original low dam and consumed a relatively large amount of water for the power produced, thus a water license for 150 cfs.

Next consider the City's Water Permit No. 18713, in the amount of 160 cfs. This water is used by our two 1000 KW units.

On the basis of the previous water rights totaling 310 cfs, it was realized at the time of filing for additional water rights in 1979, that less than the anticipated consumption of the new unit was needed to bring the aggregate of our water rights to the proper total. Water Right application No. 98-7320 was filed accordingly.

MICROFILMED

Since the City's earlier water rights were put to beneficial use
I trust they are valid and this matter is in order.

Very truly yours,

Mike Woodward
Mike Woodward, P.E.
City Engineer

MJW/ld
cc: file (2)

MICROFILMED

State of Idaho
Department of Water Resources

WATER RIGHT LICENSE

License of Water Right No. 98-7320 Priority December 3, 1979 Amount 50.0 cfs

THIS IS TO CERTIFY, that City of Bonners Ferry
of Bonners Ferry, Idaho, has complied with the terms and conditions of Permit
No. 98-7320 issued pursuant to Application for Permit dated December 3, 1979,
and has submitted proof to the Department of Water Resources on January 10, 1983,
that he has applied water to a beneficial use; an examination by the Department indicates that the works have a
capacity for the diversion of 140.0 cfs of water from Moyie River,
tributary to Kootenai River, and that the permit holder has applied to a beneficial use and
established a right to use water as follows:

Beneficial Use	Period of Use	Rate of Diversion	Annual Volume
Power	from <u>January 1</u> to <u>December 31</u>	at <u>50.0</u> cfs and <u>n/a</u>	
	from _____ to _____	at _____ cfs and _____	
	from _____ to _____	at _____ cfs and _____	

(both dates inclusive)

Subject, however, to the condition that no more than 50.0 cfs of water be diverted at any one time, and
that the amount of water so diverted and to which such right is entitled and confirmed is for the purpose
aforementioned and is limited to the amount which can actually be beneficially used and shall not exceed
n/a acre feet per year, said waters to be diverted within the SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 11 Twp.
62N, Rge. 2E in the County of Boundary

Description and location of place of use:

Twp.	Range	Sec.	NE $\frac{1}{4}$				NW $\frac{1}{4}$				SW $\frac{1}{4}$				SE $\frac{1}{4}$				Totals
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	
62N	2E	14					X												

Total number of acres irrigated _____

RECEIVED

FEB 16 1983

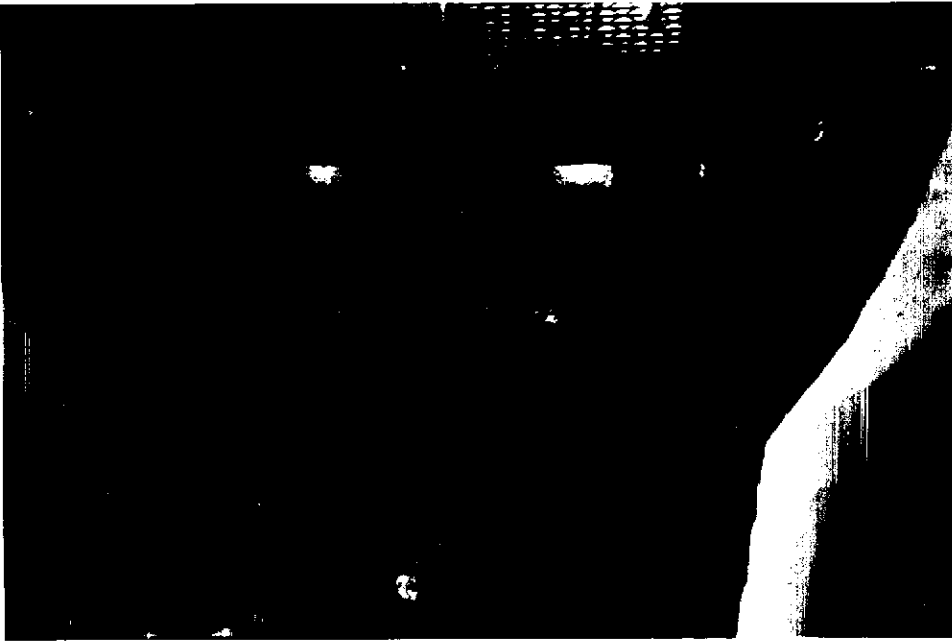
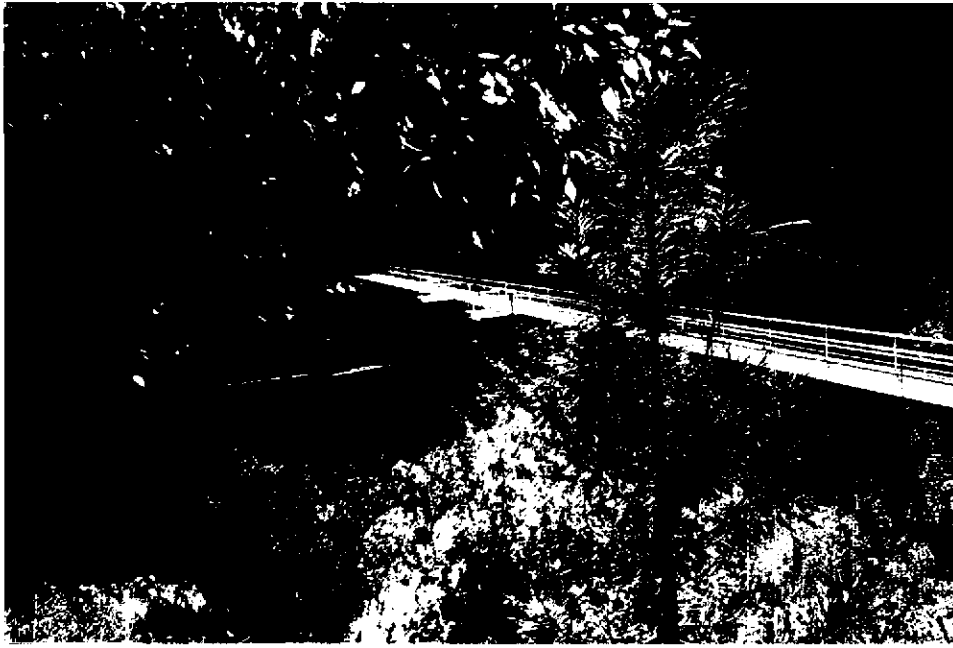
MICROFILMED

NOTE: Modifications to or variance from this license must be made within the limits of Section 42-222, Idaho Code, or the applicable Idaho Law. This right may be forfeited by five years of non-use.

The right to the use of the water hereby confirmed is restricted and appurtenant to the lands or place of use herein described, and is subject to all prior water rights, as provided by the laws of Idaho.

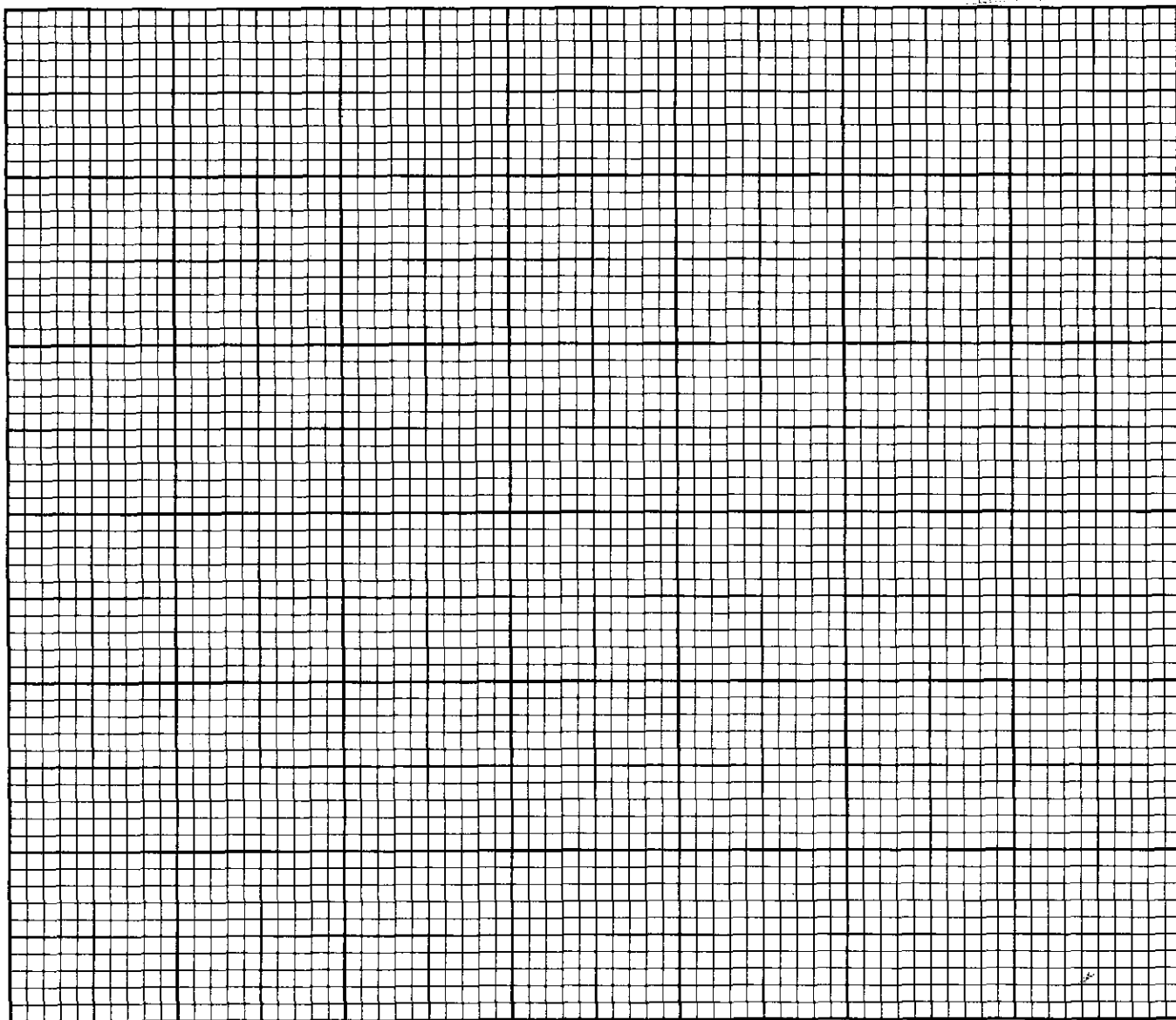
Witness the seal and signature of the Director, affixed at Boise, Idaho, this 9TH day of FEBRUARY, 19 83.

Acting for the Director Norm C. Young



10. Other water rights on these lands 98-2036/2060/7320
11. Other water right diverted from same p.d. u u u

12. **Diversion and Delivery System Diagram:** Indicate all major components and distances between components. Indicate ditch size/pipe i.d. as applicable. Indicate on systems with measurement port the distance between the port and the nearest component/pipe bend/restriction both upstream and downstream, and the inside pipe diameter at the measurement port. On multiple diversion systems indicate how diversion systems are connected.



13. ☒ Photo of Diversion & System Attached ☒ Aerial Photo of Place of Use Attached or Map of Irrigated Acreage Attached

14. Remarks _____

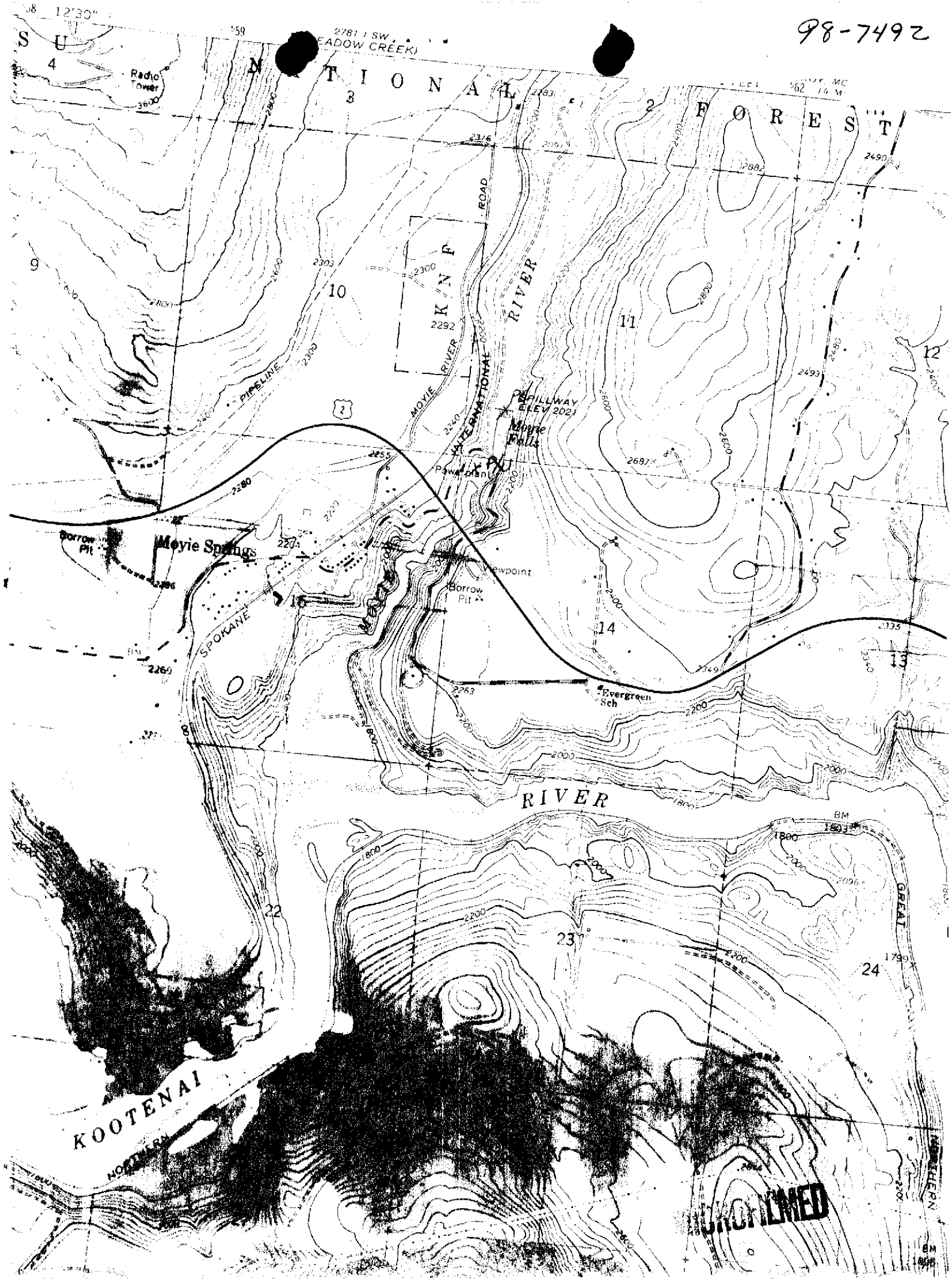
15. Recommended Amendments
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

16. Examiner's/Consultant's Signature JAO Ry Date 8/6/85
Consultant's License Number _____
IDWR Director's Authorization to Conduct
Beneficial Use Examination _____

Date

CONSULTANT SEAL

98-7492





STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

NORTHERN REGION

A. Kenneth Dunn
Director

Suite No. 9
4055 Government Way
Coeur d'Alene, Idaho 83814
(208) 765-4639

January 6, 1986

Mr. Mike Woodward
City Administrator
City of Bonners Ferry
P. O. Box 149
Bonners Ferry, Id. 83805

Dear Mr. Woodward:

The examination of the above-referenced permit was conducted in the summer of 1985.

Prior to the issuance of a license based on that examination, the Central Office in Boise will contact you to inform you of the findings and request any further input you may have concerning the permit. No action is required of you until that time.

Sincerely,

15/
Tom D. King
Senior Water Resource Agent

TDK/pms

✓ cc: IDWR - State Office w/enc.

98-7492

RECEIVED
JAN 13 1986

Department of Water Resources

MICROFILMED

City of
BONNERS FERRY



Moyie Dam Constructed 1948

TELEPHONE (208) 267-3105
102 MAIN STREET
POST OFFICE BOX 149
BONNERS FERRY, IDAHO 83805

December 31, 1985

State of Idaho
Department of Water Resources
4055 Government Way
Coeur d' Alene, Idaho 83814

RECEIVED
JAN 3 1986
Department of Water Resources
Northern District Office

Attention: Mr. Bob Haynes

RE: Idaho Water Permit 98-7492

Dear Mr. Haynes:

Please refer to my correspondence to you of September 10, 1985, concerning the above subject. I notice that in the next few months the time for demonstration of beneficial use may expire. I believe we have submitted all the information needed to finalize this matter. Please advise if there is reason for any concern in finalizing this water right on any particular date.

Very truly yours,

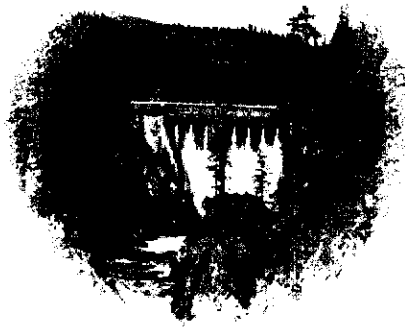
Mike Woodward
Mike Woodward
City Administrator

MJW/lis

cc: File (2)

MICROFILMED

City of
BONNERS FERRY



Moyie Dam Constructed 1948

TELEPHONE (208) 267-3105
102 MAIN STREET
POST OFFICE BOX 149
BONNERS FERRY, IDAHO 83805

September 10, 1985

RECEIVED
SEP 25 1985

State of Idaho
Department of Water Resources
4055 Government Way
Coeur d' Alene, Idaho 83814

Department of Water Resources

Attention: Mr. Bob Haynes

RE: Idaho Water Permit 98-7492

Dear Mr. Haynes:

Please refer to Idaho Water Permit 98-7492 with the City of Bonners Ferry for hydropower use at Moyie Springs, Idaho.

Attached is additional supporting information submitted for the purpose of demonstrating beneficial use. The information shows 143 cubic feet per second (c.f.s.) water use. This corresponds to the total of our Water License 98-7320 issued February 9, 1983, for 50 c.f.s. and Subject Permit if licensed for 93 c.f.s. Please process or call if questions arise.

Very truly yours,


Mike Woodward
City Administrator
STATE OF IDAHO
MICHAEL J. WOODWARD

MJW/lr

Att.

cc: File (2)

MICROFILMED

RECEIVED

SEP 18 1985

Department of Water Resources
Northern District Office

IDEAL ELECTRIC COMPANY
MANSFIELD OHIO

TEST REPORT SUMMARY

ON SYNCHRONOUS GENERATOR

PURCHASER - LEFFEL & CO.

DATE OF TEST - 6/26/61

ORDER NO. - 93246-8014-0053

IDEAL S.O. NO. - 314846

CITY OF BONNERS FERRY UNIT 4

NAMEPLATE RATING

OUTPUT KW	OUTPUT KVA	RPM	HERTZ	VOLT	'FULL LOAD' AMPERES	TYPE	FRAME
1488.0	1750.0	600.	60.	2500.	404.1	SAVE	V-6-20.5

TEMPERATURE RISE

STATOR					ROTOR			
CORE	COIL				COIL			
THERM	RES	DET 1	DET 2	DET 3	DET 4	DET 5	DET 6	RES
34.0	46.4	49.1	49.4	46.8	48.9	48.0	50.1	30.7

RATED STATOR TEMPERATURE RISE BY DETECTOR = 65.0

RATED ROTOR TEMPERATURE RISE BY RESISTANCE = 50.0

EFFICIENCIES

POWER FACTOR	110 PERCENT LOAD	100 PERCENT LOAD	75 PERCENT LOAD	50 PERCENT LOAD
0.85	96.4	96.4	96.3	95.5
1.00	97.1	97.1	96.8	95.9

OVER-SPEED TEST

1200 RPM

RESISTANCE (T-T AT 25. DEGREES C)	OHMS	0.05320	1.2277
HIGH POTENTIAL TEST (60 HZ. AC)	VOLTS	6000.00	1500.00

APPROVED BY *TF Hamner* DATE 9-22-61

RECEIVED
MANSFIELD OHIO
JUL 10 1961

City of Bonners Ferry
Moyie Hydroelectric Plant
FERC License No. 1991
Plant Unit No. 4
Idaho Water Rights - Beneficial Use

The current full load water use of the City of Bonners Ferry's Unit No. Four (4) is determined by use of the turbine manufacturer's equipment performance curve attached and knowledge of the generator's efficiency. Generator full load measured and shown on plant switchboard meters is 1750 kilowatts. Log sheets were submitted previously demonstrating actual operations. With this known information the turbine driver water consumption can be determined as follows:

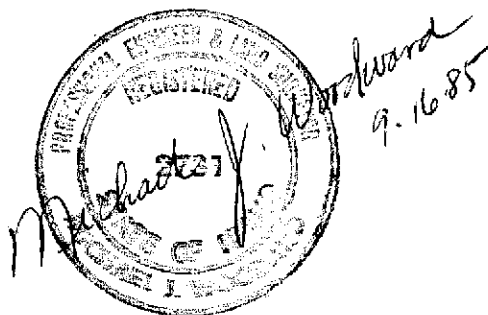
A. Turbine horsepower output -

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(See generator efficiencies on attached data sheet)

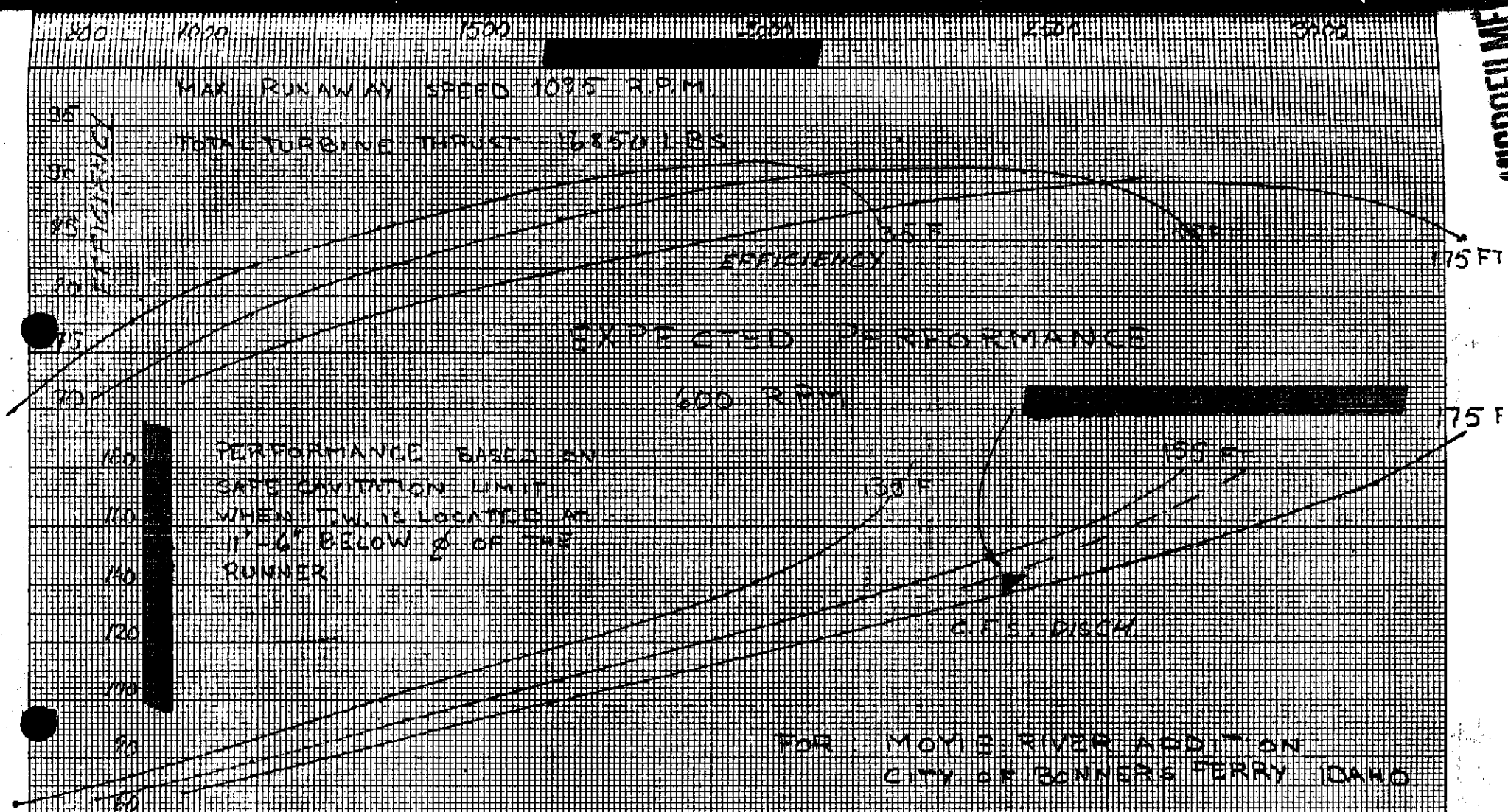
B. Water Use From Performance Curve -

At 2416 horsepower turbine output the James Leffel Company Performance Curve C.S. #2964 indicates 143 cubic feet per second water usage.



MICROFILMED

MICROFILMED



LEFFEL VERTICAL FRANCIS
TURBINE IN SPIRAL CASE

PROJECT No. 3 (594, D1)

FOR MOYE RIVER ADDITION
CITY OF BONNERS FERRY IDAHO

ENGRS. CH2M HILL INC.
CORVALLIS OREGON

BY THE JAMES LEFFEL CO.
SPRINGFIELD OHIO

Q. 2364
4.22.80

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Northern Region

JOHN V. EVANS
Governor
A. KENNETH DUNN
Director

4055 Government Way
Coeur d'Alene, ID 83814
(208) 667-6484

APRIL 24, 1984

CITY OF BONNERS FERRY
P.O. BOX 149
BONNERS FERRY ID 83805

RE: Permit No. 98-7492

Dear Permit Holder:

We acknowledge receipt of your statement submitted as proof of beneficial use for the above referenced permit.

Before a Water Right License can be issued, a field examination must be made by a representative of this department.

A field examiner will contact you to arrange to examine your system.

If you have any questions regarding the field examination, please contact this office by phone at 667-6484 or in person at our office.

Sincerely,

/S/
TOM D. KING
Senior Water Resource Agent

cc: IDWR - State Office

MICROFILMED

DEPARTMENT OF WATER RESOURCES

The Idaho Department of Water Resources will consider this card a statement that the permit holder(s) has completed development to the extent shown below Permit No. 98-7492

Name(s) of Permit Holder: City of Bonners Ferry

Post Office Address: P. O. Box 149

Bonners Ferry, Idaho 83805

Tel. No. (208) 267-3105

Source of Water: Moyie River

Extent of Use: ☐ Domestic (number of households)
☐ Stockwater (number and type of stock)
☐ Irrigation (acres)
☒ Other Hydroelectric Power Production

Measuring Device: Required? ☐ Yes ☐ No Installed? ☐ Yes ☐ No

Access Port: Required? ☐ Yes ☐ No Installed? ☐ Yes ☐ No

The above information is a true statement of the extent to which the above numbered permit has been developed.

March 23, 1984

Date

Michael J. Woodward
 Signature of Permit Holder

PM
City of Bonners Ferry

P. O. Box 149

Bonnors Ferry, Idaho 83806

PLACE
13 CENT
STAMP
HERE

RECEIVED

MAR 26 1984



Department of Water Resources

IDAHO DEPARTMENT OF WATER RESOURCES
STATEHOUSE
BOISE, IDAHO 83720

MICROFILMED

Attention: Rita I. Fleck

March 20, 1984

Mike Woodward, P.E.
Director of Pbblic Works
City of Bonners Ferry
P. O. Box 149
Bonners Ferry, ID 83805

Dear Mr. Woodward:

Re: Permit No. 98-7492

This office acknowledges receipt of your letter and the flow measurement information sent to this office on March 5, 1984.

To fulfill the requirement of beneficial use for this permit, please complete and return the enclosed statement of beneficial use postcard. Upon receipt of the postcard, the Department will accept the information and graphs and change the measuring device requirement by order.

If you have any questions concerning this matter, please feel free to contact me.

Sincerely,

RITA I. FEECK
Secretary/Records Manager

Enclosure

City of
BONNERS FERRY



Moyie Dam Constructed 1948

TELEPHONE (208) 267-3105
102 MAIN STREET
POST OFFICE BOX 149
BONNERS FERRY, IDAHO 83805

March 5, 1984

State of Idaho
Department of Water Resources
Statehouse
Boise, Idaho 83720

RECEIVED
MAR 19 1984

Attention: David R. Tuthill, Jr., P. E.
Supervisor, Water Allocation Section

Department of Water Resources

RE: Water Permit 98-7492

Dear Mr. Tuthill:

The City of Bonners Ferry through its Electric Utility filed and had approved the above subject water right application for 120 c.f.s. additional non-consumptive water use at its hydroelectric facility. At this time I would like to demonstrate beneficial use of the amount applied for.

As a means of showing use, I request you allow submittal of the Equipment Manufacturer's Water Consumption Graph. Direct flow measuring devices are not available nor easily installed. A performance graph provided by the James Leffel Company, turbine supplier, is attached for reference.

Note that I have marked our condition on the graph, the full load level at which we commonly operate. Attached also are copies of representative log sheets from 1984 verifying frequent operations at same full load level, 1750 kilowatts.

2345 hp

The graph indicated 170 c.f.s. water use which corresponds with the total of our Water License 98-7320 (50 c.f.s.), issued February 9, 1983, and Subject Permit 98-7492 (120 c.f.s.) Accordingly, we request finalization of the permit process and issuance of subject Water License. If I can be of assistance or answer questions, please advise.

Very truly yours,

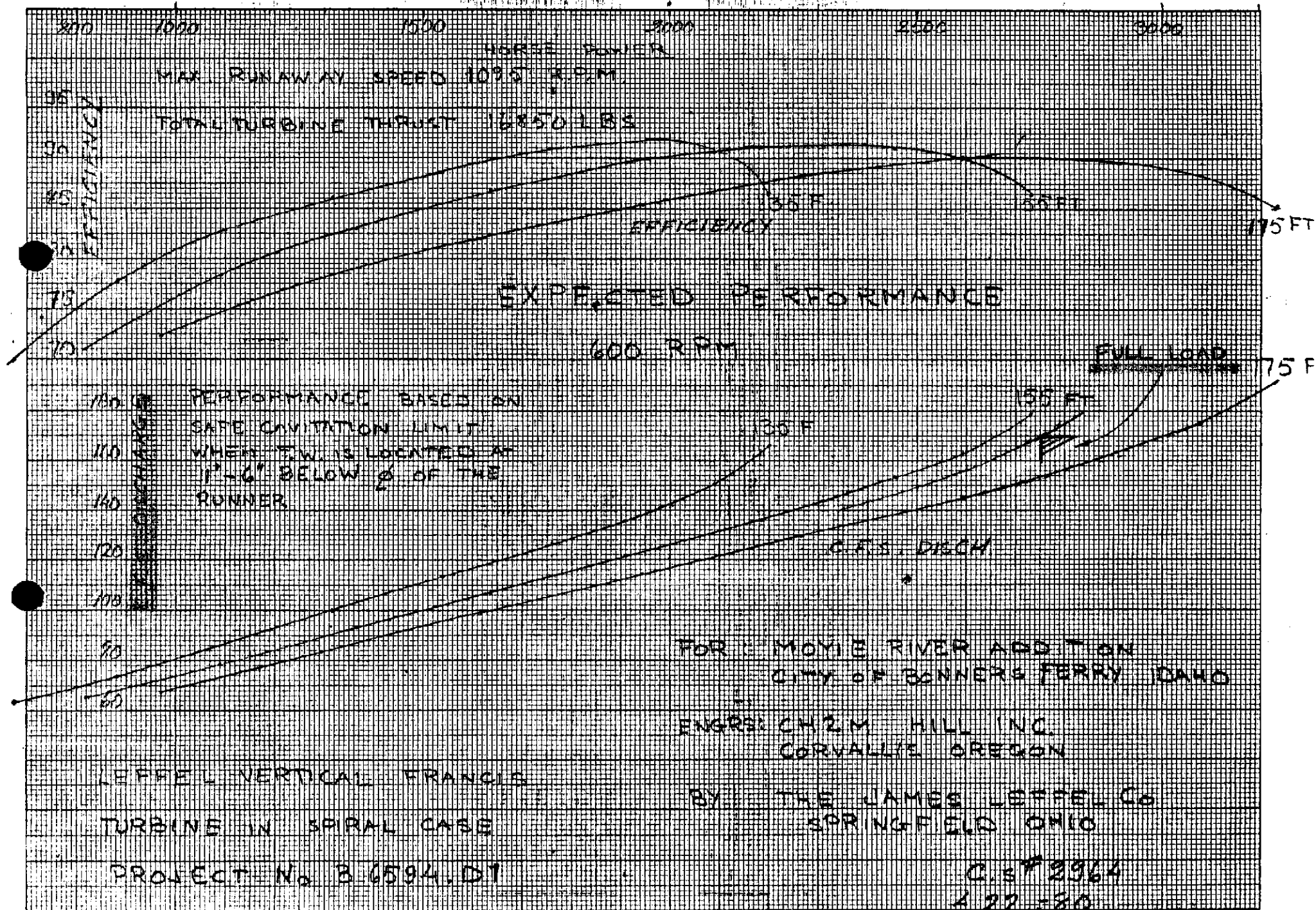
Mike Woodward
Mike Woodward, P. E.
Director of Public Works

MJW/lis

Enc.

cc: File (2)

RECEIVED



MOYIE POWER PLANT REPORT

DATE Jun 30 19 83

GENERATOR NO. 4							REMARKS													
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT														
1 A.M.	1750	1.0	420	2425	7.1	8.8														
2	1750	1.0	420	2425	7.1	8.8														
3	1750	1.0	420	2425	7.1	8.8														
4	1750	1.0	415	2425	7.1	8.8														
5	1750	1.0	415	2425	7.1	8.8														
6	1750	1.0	420	2425	7.1	8.8														
7	1750	1.0	420	2425	7.1	8.8														
8	1750	1.0	420	2425	7.1	8.8														
9	1750	1.0	420	2425	7.1	8.8														
10	1750	1.0	420	2425	7.1	8.8														
11	1750	1.0	420	2425	7.1	8.8														
12 NOON	1750	1.0	420	2440	7.1	8.8														
1 P.M.	1750	1.0	420	2440	7.1	8.8														
2	1750	1.0	420	2440	7.1	8.8														
3	1750	1.0	420	2440	7.1	8.8														
4	1750	1.0	420	2440	7.1	8.8														
5	1750	1.0	420	2440	7.1	8.8														
6	1750	1.0	420	2440	7.1	8.8														
7	1750	1.0	420	2440	7.1	8.8														
8	1750	1.0	420	2425	7.1	8.8														
9	1750	1.0	420	2425	7.1	8.8														
10	1750	1.0	420	2425	7.1	8.8														
11	1750	1.0	420	2425	7.1	8.8														
12 M.N.	1750	1.0	420	2425	7.1	8.8														
TRANSFORMER TEMPS.							12 M.N.	8 A.M.	4 P.M.	PRESSURES			12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER
1	46	WINDING TEMP. NO. 1	75	76	75	PACKING BOX TEMP. (F°)	44	44	44	DRAFT TUBE VACUUM	-10	-10	-10	THRUST	82	82	82	0088		
2	64	WINDING TEMP. NO. 2	76	76	75	TURBINE BRS. TEMP. (F°)	120	120	120	SCROLL CASE (PSI)	0	0	0	L.G.	83	84	84	PEAK LOAD		
3	44					OIL COOLING FLOW (GPM)	3/4	3/4	1/2	PACKING GLAND (PSI)	0	0	0	U.G.	85	85	85	178		

Earnest Win OPR.

Pete R. Wilson OPR.

I certify this is a duplicate copy of original Moyie Plant log sheets.

Mike Woodward

JMB OPR.

MOYIE POWER PLANT REPORT

DATE Feb 28, 1983

GENERATOR NO. 4							REMARKS											
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT												
1 A.M.	1700	1.0	415	2400	7.1	9.0												
2	1700	1.0	415	2400	7.1	9.0												
3	1700	1.0	420	2400	7.1	9.0												
4	1700	1.0	420	2400	7.1	9.0												
5	1700	1.0	420	2400	7.1	9.0												
6	1700	1.0	420	2400	7.1	9.0												
7	1700	1.0	430	2350	7.1	9.0												
8	1700	1.0	430	2350	7.1	9.0	Earnest <i>Earnest</i> OPR.											
9	1700	1.0	430	2350	7.1	9.0												
10	1700	1.0	430	2350	7.1	9.0												
11	1700	1.0	430	2350	7.1	9.0												
12 NOON	1700	1.0	430	2350	7.1	9.0												
1 P.M.	1700	1.0	430	2350	7.1	9.0												
2	1700	1.0	420	2300	7.1	9.0												
3	1700	1.0	420	2400	7.1	9.0												
4	1700	1.0	420	2380	7.1	9.0												
5	1700	1.0	420	2380	7.1	9.0	I certify this is a duplicate copy of original Moyie Plant log sheets. <i>Nike Woodward</i>											
6	1700	1.0	420	2380	7.1	9.0												
7	1700	1.0	420	2380	7.1	9.0												
8	1700	1.0	425	2370	7.1	9.0												
9	1700	1.0	425	2380	7.1	9.0												
10	1700	1.0	425	2380	7.1	9.0												
11	1700	1.0	425	2350	7.1	9.0												
12 M.N.	1700	1.0	425	2350	7.1	9.0												
TRANSFORMER TEMPS.			12 M.N.	8 A.M.	4 P.M.		12 M.N.	8 A.M.	4 P.M.	PRESSURES	12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER
1	72	WINDING TEMP. NO. 1	71	72	71	PACKING BOX TEMP. (F°)	49	48	49	DRAFT TUBE VACUUM	-9	-9	-8	THRUST	81	81	81	1190
2	70	WINDING TEMP. NO. 2	71	73	72	TURBINE BRS. TEMP. (F°)	126	120	120	SCROLL CASE (PSI)	61	62	62	L.G.	82	82	82	PEAK LOAD
3	68		19°	66°	19°	OIL COOLING FLOW (GPM)	1/4	1/2	1/2	PACKING GLAND (PSI)	0	0	0	U.G.	85	85	85	1.75

MICROFILMED

Pete W. Wilson OPR.

MOYIE POWER PLANT REPORT

DATE 3-30, 19 53

GENERATOR NO. 4							REMARKS												
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT													
1 A.M.	1725	1.0	420	2450	7.2	9.0													
2	1725	1.0	420	2450	7.2	9.0													
3	1725	1.0	420	2450	7.2	9.0													
4	1725	1.0	420	2450	7.2	9.0													
5	1725	1.0	420	2450	7.2	9.0													
6	1725	1.0	420	2425	7.2	9.0													
7	1725	1.0	420	2425	7.2	9.0													
8	1725	1.0	420	2425	7.2	9.0	TMBB OPR.												
9	1725	1.0	420	2425	7.2	9.0													
10	1725	1.0	420	2425	7.2	9.0													
11	1725	1.0	420	2425	7.2	9.0													
12 NOON	1725	1.0	420	2425	7.2	9.0													
1 P.M.	1725	1.0	420	2425	7.2	9.0													
2	1725	1.0	420	2425	7.2	9.0													
3	1725	1.0	410	2475	7.2	9.0													
4	1725	1.0	415	2500	7.2	9.0	I certify this is a duplicate copy of original Moyie Plant log sheets. Mike Woodward												
5	1725	1.0	415	2500	7.2	9.0													
6	1725	1.0	420	2425	7.2	9.0													
7	1725	1.0	420	2450	7.2	9.0													
8	1725	1.0	420	2450	7.2	9.0													
9	1725	1.0	420	2450	7.2	9.0													
10	1725	1.0	420	2450	7.2	9.0													
11	1725	1.0	420	2400	7.2	9.0													
12 M.N.	1725	1.0	420	2425	7.2	9.0	MICROFILMED												
TRANSFORMER TEMPS.				12 M.N.	8 A.M.	4 P.M.		12 M.N.	8 A.M.	4 P.M.	PRESSURES	12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER
1	70	WINDING TEMP. NO. 1		70	69	71	PACKING BOX TEMP. (F°)	50	51	50	DRAFT TUBE VACUUM	-8	-8	-8	THRUST	79	79	81	2446
2	69	WINDING TEMP. NO. 2		70	71	72	TURBINE BRS. TEMP. (F°)	119	121	118	SCROLL CASE (PSI)	62	62	62	L.G.	80	81	83	PEAK LOAD
3	65	Ambient		18	17°	18°	OIL COOLING FLOW (GPM)	3/4	1/2	3/4	PACKING GLAND (PSI)	8	8	7	U.G.	85	83	87	1.78

MOYIE POWER PLANT REPORT

DATE Sept. April 30, 19 80

GENERATOR NO. 4							REMARKS											
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT												
1 A.M.	1725	1.0	425	2450	7.2	9.2												
2	1725	1.0	425	2450	7.2	9.2												
3	1725	1.0	420	2450	7.2	9.2												
4	1725	1.0	420	2500	7.2	9.2												
5	1725	1.0	420	2500	7.2	9.2												
6	1725	1.0	415	2500	7.2	9.2												
7	1725	1.0	415	2500	7.2	9.2												
8	1710	1.0	410	2500	7.2	9.2	<i>M. Newland</i> OPR.											
9	1725	1.0	410	2500	7.2	9.2												
10	1725	1.0	410	2500	7.2	9.2												
11	1725	1.0	410	2500	7.2	9.2												
12 NOON	1725	1.0	410	2500	7.2	9.2												
1 P.M.	1725	1.0	410	2500	7.2	9.2												
2	1725	1.0	410	2500	7.2	9.2												
3	1725	1.0	410	2500	7.2	9.2												
4	1725	1.0	405	2500	7.2	9.2	I certify this is a duplicate copy of original Moyie Plant log sheets. <i>Mike Woodward</i>											
5	1725	1.0	405	2500	7.2	9.2												
6	1725	1.0	405	2500	7.2	9.2												
7	1725	1.0	405	2500	7.2	9.2												
8	1725	1.0	405	2500	7.2	9.2												
9	1725	1.0	405	2500	7.2	9.2												
10	1725	1.0	410	2500	7.2	9.2												
11	1725	1.0	410	2500	7.2	9.2												
12 M.N.	1725	1.0	410	2500	7.2	9.2	<i>Tom B</i> OPR.											
TRANSFORMER TEMPS.			12 M.N.	8 A.M.	4 P.M.		12 M.N.	8 A.M.	4 P.M.	PRESSURES	12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER
1	75	WINDING TEMP. NO. 1	70	67	71	PACKING BOX TEMP. (F°)	54°	53	53	DRAFT TUBE VACUUM	-5	-5	-5	THRUST	80	79	80	3742
2	74	WINDING TEMP. NO. 2	71	68	72	TURBINE BRG. TEMP. (F°)	119°	117	118	SCROLL CASE (PSI)	64	63	65	L.G.	82	81	84	PEAK LOAD
3	72	AMB.	17°	19°	22°	OIL COOLING FLOW (GPM)	2	2	2	PACKING GLAND (PSI)	10	9	9	U.G.	84	83	83	1.78

MOYIE POWER PLANT REPORT

DATE Mon May 30, 19 83

GENERATOR NO. 4							REMARKS												
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT													
1 A.M.	1710	1.0	400	2500	7.3	9.0													
2	1710	1.0	400	2500	7.3	9.0													
3	1710	1.0	400	2500	7.3	9.0													
4	1710	1.0	400	2500	7.3	9.0													
5	1710	1.0	400	2500	7.3	9.0													
6	1710	1.0	400	2500	7.3	9.0													
7	1710	1.0	400	2500	7.3	9.0													
8	1710	1.0	400	2500	7.3	9.0	Emanuel Wins OPR.												
9	1710	1.0	405	2500	7.3	9.0													
10	1710	1.0	405	2500	7.3	9.0													
11	1710	1.0	405	2500	7.3	9.0													
12 NOON	1710	1.0	405	2500	7.3	9.0													
1 P.M.	1710	1.0	400	2500	7.3	9.0													
2	1710	1.0	400	2500	7.3	9.0													
3	1710	1.0	400	2500	7.3	9.0													
4	1710	1.0	400	2500	7.3	9.0	Steve D. Galt OPR.												
5	1710	1.0	400	2500	7.3	9.0	I certify this is a duplicate copy of original Moyie Plant log sheets. Mike Woodward MICROFILMED												
6	1710	1.0	400	2500	7.3	9.0													
7	1710	1.0	400	2500	7.3	9.0													
8	1710	1.0	400	2500	7.3	9.0													
9	1710	1.0	400	2500	7.3	9.0													
10	1710	1.0	400	2500	7.3	9.0													
11	1710	1.0	400	2500	7.3	9.0													
12 M.N.	1710	1.0	400	2500	7.3	9.0	Tom B. OPR.												
TRANSFORMER TEMPS.				12 M.N.	8 A.M.	4 P.M.		12 M.N.	8 A.M.	4 P.M.	PRESSURES	12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER
1	75°	WINDING TEMP. NO. 1	74	73	76	PACKING BOX TEMP. (F°)	61	58	59	DRAFT TUBE VACUUM	-1	-1	-2	THRUST	79	79	81	5000	
2	73°	WINDING TEMP. NO. 2	75	74	77	TURBINE BRS. TEMP. (F°)	125	121	117	SCROLL CASE (PSI)	65	65	65	L.G.	85	84	86	PEAK LOAD	
3	73°	Ambient	19°	19°	24°	OIL COOLING FLOW (GPM)	1/4	1/2	1 1/2	PACKING GLAND (PSI)	10	10	10	U.G.	83	83	84	1.75	

MOYIE POWER PLANT REPORT

DATE 6-30, 19 83

GENERATOR NO. 4							REMARKS												
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT													
1 A.M.	1725	1.0	415	2500	7.2	8.2													
2	1725	1.0	415	2500	7.2	8.2													
3	1725	1.0	415	2500	7.2	8.2													
4	1725	1.0	415	2500	7.2	8.2													
5	1725	1.0	415	2500	7.2	8.2													
6	1725	1.0	415	2500	7.2	8.2													
*7	1725	1.0	415	2500	7.2	8.2													
8	1725	1.0	415	2500	7.2	8.2	T.M.B. OPR.												
~~9~~	~~1725~~	~~1.0~~	~~415~~	~~2500~~	~~7.2~~	~~8.2~~													
10	1725	1.0	415	2500	7.2	8.2													
11	1725	1.0	415	2500	7.2	8.2	Sewered 2 & 4 units												
12 NOON	1725	1.0	415	2500	7.2	8.2													
1 P.M.	1725	1.0	415	2500	7.2	8.2													
2	1725	1.0	415	2500	7.2	8.2													
3	1725	1.0	415	2500	7.2	8.2													
4	1725	1.0	415	2500	7.2	8.2	Steve D. [Signature] OPR.												
5	1740	1.0	410	2500	7.2	8.2	I certify this is a duplicate copy of original Moyie Plant log sheets. Mike Woodward												
6	1740	1.0	410	2500	7.2	8.2													
7	1740	1.0	410	2500	7.2	8.2													
8	1740	1.0	410	2500	7.2	8.2													
9	1740	1.0	410	2500	7.2	8.2													
10	1740	1.0	410	2500	7.2	8.2													
11	1740	1.0	410	2500	7.2	8.2													
12 M.N.	1740	1.0	410	2500	7.2	8.2	Pet. Wilson OPR.												
TRANSFORMER TEMPS.				12 M.N.	8 A.M.	4 P.M.		12 M.N.	8 A.M.	4 P.M.	PRESSURES	12 M.N.	8 A.M.	4 P.M.	BEARING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER
1	76°	WINDING TEMP. NO. 1	75	73	78	PACKING BOX TEMP. (F°)	66	65	66	DRAFT TUBE VACUUM	-7	-7	-7	THRUST	80	78	82		
2	74°	WINDING TEMP. NO. 2	76	74	79	TURBINE BRS. TEMP. (F°)	122	125	123	SCROLL CASE (PSI)	63	63	63	L.G.	85	85	87	PEAK LOAD	
3	73°	Ambient	23	22°	26	OIL COOLING FLOW (GPM)	1	1/2	1 3/4	PACKING GLAND (PSI)	9	9	9	U.G.	84	83	86		

MOYIE POWER PLANT REPORT

DATE July 30 19 83

GENERATOR NO. 4							REMARKS												
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT													
1 A.M.	1750	1.0	415	2500	7.3	9.1													
2	1750	1.0	415	2500	7.3	9.1													
3	1750	1.0	415	2500	7.3	9.1													
4	1750	1.0	415	2500	7.3	9.1													
5	1750	1.0	415	2500	7.3	9.1													
6	1750	1.0	415	2500	7.3	9.1													
7	1750	1.0	415	2500	7.3	9.1													
8	1750	1.0	415	2500	7.3	9.1													
9	1750	1.0	410	2500	7.3	9.1													
10	1750	1.0	410	2525	7.3	9.1													
11	1750	1.0	410	2525	7.3	9.1													
12 NOON	1750	1.0	410	2525	7.3	9.1													
1 P.M.	1750	1.0	410	2525	7.3	9.1													
2	1750	1.0	410	2525	7.3	9.1													
3	1750	1.0	410	2525	7.3	9.1													
4	1750	1.0	410	2525	7.3	9.1													
5	1750	1.0	410	2525	7.3	9.1													
6	1750	1.0	410	2525	7.3	9.1													
7	1750	1.0	410	2525	7.3	9.1													
8	1750	1.0	410	2525	7.3	9.1													
9	1750	1.0	410	2525	7.3	9.1													
10	1750	1.0	410	2500	7.3	9.1													
11	1750	1.0	410	2500	7.3	9.1													
12 M.N.	1750	1.0	410	2500	7.3	9.1													

Pete Wilson OPR.

Earnest Wein OPR.

I certify this is a duplicate copy of
original Moyie Plant log sheets.

Mike Woodward

Mark Newberry OPR.

TRANSFORMER																			
TEMP.		12 M.N.	8 A.M.	4 P.M.		12 M.N.	8 A.M.	4 P.M.	PRESSURES	12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER		
1	89	WINDING TEMP. NO. 1	76	74	83	PACKING BOX TEMP. (F°)	68	67	65	DRAFT TUBE VACUUM	-8	-9	-8	THRUST	81	81	87		
2	87	WINDING TEMP. NO. 2	76	74	83	TURBINE BRS. TEMP. (F°)	125	125	125	SCROLL CASE (PSI)	63	63	64	L.G.	86	85	89		
3	87	Ambient	23	22	33	OIL COOLING FLOW (GPM)	1	1	1	PACKING GLAND (PSI)	10	10	10	U.G.	84	84	89		

Pend Oreille Printers 3420

MOYIE POWER PLANT REPORT

DATE Tues. Aug. 30, 19 83

GENERATOR NO. 4							REMARKS																								
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT																									
1 A.M.	1200	600	285	2450	5.0	9.2																									
2	1200	1.0	285	2450	5.0	9.2																									
3	1200	1.0	285	2450	5.0	9.2																									
4	1200	1.0	285	2450	5.0	9.2																									
5	1200	1.0	285	2450	5.0	9.2																									
6	1200	1.0	285	2450	5.0	9.2																									
7	1200	1.0	285	2450	5.0	9.2																									
8	1450	1.0	350	2750	5.8	9.2	<i>Mark Newbank</i> OPR.																								
9	1525	1.0	365	2450	5.9	9.2																									
10	1525	1.0	365	2450	6.0	9.2																									
11	1500	1.0	350	2475	5.9	9.2																									
12 NOON	1500	1.0	355	2460	5.9	9.2																									
1 P.M.	1400	1.0	330	2450	5.7	9.2																									
2	1400	1.0	330	2450	5.7	9.2																									
3	1400	1.0	330	2460	5.7	9.2																									
4	1300	1.0	305	2450	5.5	9.2	<i>Pete Wilson</i> OPR.																								
5	1300	1.0	305	2450	5.5	9.2																									
6	1350	1.0	320	2450	5.6	9.2																									
7	1400	1.0	330	2450	5.7	9.2	I certify this is a duplicate copy of original Moyie Plant log sheets. <i>Mike Woodward</i>																								
8	1400	1.0	330	2450	5.7	9.2																									
9	1400	1.0	330	2450	5.7	9.2																									
10	1400	1.0	330	2450	5.7	9.2																									
11	1400	1.0	330	2450	5.7	9.0																									
12 M.N.	1400	1.0	330	2450	5.7	9.0	<i>Earnest Wian</i> OPR.																								
TRANSFORMER TEMPS.			12 M.N.	8 A.M.	4 P.M.															12 M.N.	8 A.M.	4 P.M.	PRESSURES	12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER
1	72	WINDING TEMP. NO. 1	64	65	72	PACKING BOX TEMP. (F°)														70	70	68	DRAFT TUBE VACUUM	-5	-7	-5	THRUST	87	81	88	3164
2	71	WINDING TEMP. NO. 2	66	65	72	TURBINE BRS. TEMP. (F°)	120	119	119	SCROLL CASE (PSI)	68	67	68	L.G.	87	85	90	PEAK LOAD													
3	70	Avg. °C	25	22	31°C	OIL COOLING FLOW (GPM)	4	4	3 1/2	PACKING GLAND (PSI)	8	9	9	U.G.	87	84	90	1.80													

MOYIE POWER PLANT REPORT

DATE Sunday Oct 30, 19 83

GENERATOR NO. 4							REMARKS															
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT																
1 A.M.							#4 Tested till 3am Then shut down. Auto Sync doesn't work but we can run it in manual, local auto + remote auto.															
2																						
3																						
4																						
5																						
6																						
7																						
8							<i>Earnest Wain</i> OPR.															
9																						
10																						
11																						
12 NOON																						
1 P.M.																						
2																						
3																						
4																						
5							I certify this is a duplicate copy of original Moyie Plant log sheets. <i>Mike Woodward</i>															
6																						
7																						
8																						
9																						
10																						
11																						
12 M.N.																						
TRANSFORMER TEMPS.				12 M.N.	8 A.M.	4 P.M.			12 M.N.	8 A.M.	4 P.M.	PRESSURES		12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER	
1		WINDING TEMP. NO. 1					PACKING BOX TEMP. (F°)					DRAFT TUBE VACUUM					THRUST					
2		WINDING TEMP. NO. 2					TURBINE BRS. TEMP. (F°)					SCROLL CASE (PSI)					L.G.					PEAK LOAD
3							OIL COOLING FLOW (GPM)					PACKING GLAND (PSI)					U.G.					

MOYIE POWER PLANT REPORT

DATE November 30, 1993

GENERATOR NO. 4												REMARKS									
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT	Simpson	S.A.Gr.	Charger Amps	Temp.											
1 A.M.	1750	100	430	2400	7.0	9.2	130	1215	4.30	65											
2	1750	100	425	2425	7.0	9.2	130		4.30												
3	1750	100	425	2425	7.0	9.2	130		4.30												
4	1750	100	425	2425	7.0	9.2	130		4.30												
5	1750	100	425	2425	7.0	9.2	130	1220	4.30	63											
6	1750	100	435	2400	7.0	9.2	130		4.3												
7	1750	100	435	2400	7.0	9.2	130		4.3												
8	1750	100	435	2400	7.0	9.2	130		4.3												
9	1750	100	435	2400	7.0	9.2	130	1215	4.3	63											
10	1750	100	435	2400	7.0	9.2	150		4.3												
11	1750	100	435	2400	7.0	9.2	130		4.3												
12 NOON	1750	100	435	2400	7.0	7.2	130	1210	4.3	65											
1 P.M.	1750	100	435	2400	7.0	7.2	130	1	4.3												
2	1750	100	435	2400	7.0	7.2	130		4.3												
3	1750	100	439	2400	7.0	7.2	130		4.3												
4	1750	100	430	2425	7.0	9.2	131	1215	4.35	64											
5	1750	100	430	2425	7.0	9.2	131		4.35												
6	1750	100	430	2425	7.0	9.2	131		4.35												
7	1750	100	430	2425	7.0	9.2	131		4.35												
8	1750	100	430	2425	7.0	9.2	131	1215	4.35	64											
9	1750	100	430	2425	7.0	9.2	131		4.35												
10	1750	100	430	2425	7.0	9.2	131		4.35												
11	1750	100	430	2425	7.0	9.2	131		4.35												
12 M.N.	1750	100	430	2425	7.0	9.2	131		4.35												
TRANSFORMER TEMPS.				12 M.N.	8 A.M.	4 P.M.			12 M.N.	8 A.M.	4 P.M.	PRESSURES		12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER
1	70	WINDING TEMP. NO. 1	62	61	61	PACKING BOX TEMP. (F°)	43	43	42	DRAFT TUBE VACUUM	-8	-9	-9	THRUST	72	72	72	3953			
2	68	WINDING TEMP. NO. 2	62	61	61	TURBINE BRS. TEMP. (F°)	113	120	123	SCROLL CASE (PSI)	63	63	63	L.G.	74	74	74	PEAK LOAD			
3	66	Ambient	18	17	16	OIL COOLING FLOW (GPM)	3/4	1/2	1/2	PACKING GLAND (PSI)	8	8	8	U.G.	75	75	75				

Pete Wilson OPR.

Tom Brant

I certify this is a duplicate copy of original Moyie Plant log sheets.

Mike Woodward

MICROFILMED

Earnest Weir OPR.

MOYIE POWER PLANT REPORT

DATE Frid. Dec 30, 19 83

GENERATOR NO. 4							REMARKS	
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT		
1 A.M.	1750	100	435	2375	6.3	8.7	1236 sp cm	65° 132 VDC 4.1 ADC
2	1750	100	435	2375	6.3	8.7		
3	1750	100	435	2375	6.3	8.7		
4	1750	100	435	2400	6.3	8.7		
5	1750	100	430	2400	6.3	8.7	132 V.D.C.	4.15 A.D.C.
6	1500	100	370	2400	5.7	8.7		
7	1500	100	365	2400	5.7	8.7		
8	1500	100	365	2400	5.7	8.7	132 V.D.C.	4.15 A.D.C. 1220 sp G.M. 66°
9	1500	100	375	2400	5.6	8.7		
10	1500	100	375	2400	5.6	8.7		
11	1500	100	365	2400	5.6	8.7	#4 off line 11:29 am to drill test holes for brakes	
12 NOON	1500	100	365	2400	5.6	8.7	#4 on line 2:13 pm	
1 P.M.								
2								
3	1400	100	340	2400	5.2	8.8		
4	1400	100	340	2400	5.2	8.8	130 V.D.C.	3.85 1215 sp G.M. 71°
5	1400	100	350	2400	5.2	8.8	I certify this is a duplicate copy of original Moyie Plant log sheets.	
6	1400	100	350	2400	5.2	8.8		
7	1400	100	350	2400	5.2	8.8		
8	1500	100	365	2400	5.5	8.8	127 V.D.C.	3.8 1215 sp cm Mike Woodward
9	1500	100	365	2400	5.5	8.8		
10	1500	100	365	2400	5.5	8.8		
11	1500	100	365	2400	5.5	8.8		
12 M.N.	1500	100	365	2400	5.5	8.8		

TRANSFORMER TEMPS.			WATT HOUR METER		
			12 M.N.	8 A.M.	4 P.M.
1	44	WINDING TEMP. NO. 1	66	55	33
2	43	WINDING TEMP. NO. 2	66	55	53
3	40	AMB° C	18	18	18

PRESSURES			BEARING			WATT HOUR METER		
12 M.N.	8 A.M.	4 P.M.	12 M.N.	8 A.M.	4 P.M.	12 M.N.	8 A.M.	4 P.M.
41	41	41	-9	-6	-5	73	73	73
116	117	120	69	70	70	75	75	75
3/4	3/4	3/4	8	7	7	77	76	76

MOYIE POWER PLANT REPORT

DATE SAT JAN 28 19 94

GENERATOR NO. 4							REMARKS															
TIME	K.W.	POWER FACTOR	AMPS	VOL-TAGE	GOV.	GATE LIMIT																
1 A.M.																						
2																						
3																						
4							I certify this is a duplicate copy of original Moyie Plant log sheets. <i>Mike Woodward</i>															
5																						
6																						
7																						
8							OPR.															
9							ON LINE 9:15 A.M. 900 K.W.															
10	1650	1.0	400	2475	6.0	9.4																
11	1650	1.0	400	2475	6.0	9.4	More water goes out of Packing than Drain															
12 NOON	1700	1.0	400	2475	6.0	9.4	can handle so there is some water out															
1 P.M.	1550	1.0	370	2475	6.0	9.4	Flood															
2	1650	1.0	370	2475	6.0	9.4																
3	1300	1.0	310	2500	5.0	9.4	titled Packing down															
4	1100	1.0	255	2500	4.9	9.4																
5	1100	1.0	255	2500	4.9	9.4																
6	1100	1.0	255	2500	4.9	9.4																
7	800	1.0	200	2500	4.8	9.4																
8	650	1.0	140	2475	3.6	9.4	No 4 off line at 8:25 P.M. water level at dam was dropping Brook 3 links. need to get more links 3 left.															
9																						
10																						
11																						
12 M.N.																						
TRANSFORMER TEMPS.				12 M.N.	8 A.M.	4 P.M.			12 M.N.	8 A.M.	4 P.M.	PRESSURES		12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER	
1	30	WINDING TEMP. NO. 1				34	PACKING BOX TEMP. (F°)				40	DRAFT TUBE VACUUM				-1	THRUST			74		
2	50	WINDING TEMP. NO. 2				56	TURBINE BRS. TEMP. (F°)				118	SCROLL CASE (PSI)				80	L.G.			76	PEAK LOAD	
3	49	A.M. 1.0				22	OIL COOLING FLOW (GPM)				-10	PACKING GLAND (PSI)				10	U.G.			77		

MOYIE POWER PLANT REPORT

DATE Feb. 28, 1984

GENERATOR NO. 4							REMARKS													
TIME	K.W.	POWER FACTOR	AMPS	VOL. TAGE	GOV.	GATE LIMIT														
1 A.M.	1125	1.0	260	2500	4.5	9.4														
2	1125	1.0	260	2500	4.5	9.4														
3	1125	1.0	260	2500	4.5	9.4														
4	1125	1.0	260	2500	4.5	9.4														
5	1125	1.0	260	2500	4.5	9.4														
6	1125	1.0	260	2500	4.5	9.4														
7	1125	1.0	260	2500	4.3	9.4														
8	1125	1.0	260	2500	4.3	9.4														
9	1125	1.0	260	2475	4.3	9.4														
10	1125	1.0	260	2450	4.3	9.4														
11	1125	1.0	260	2450	4.3	9.4														
12 NOON	1125	1.0	260	2450	4.3	9.4														
1 P.M.	1125	1.0	260	2450	4.3	9.4														
2	1125	1.0	260	2450	4.3	9.4														
3	1125	1.0	260	2450	4.3	9.4														
4	1125	1.0	260	2450	4.3	9.4														
5	1125	1.0	260	2450	4.3	9.4														
6	1125	1.0	265	2450	4.3	9.4														
7	1125	1.0	265	2450	4.3	9.4														
8	1125	1.0	265	2450	4.3	9.4														
9	1125	1.0	265	2450	4.3	9.4														
10	1125	1.0	265	2450	4.3	9.4														
11	1125	1.0	265	2450	4.3	9.4														
12 M.N.	1125	1.0	265	2430	4.3	9.4														
TRANSFORMER TEMPS.							12 M.N.	8 A.M.	4 P.M.	PRESSURES			12 M.N.	8 A.M.	4 P.M.	BEAR-ING	12 M.N.	8 A.M.	4 P.M.	WATTHOUR METER
1	43	WINDING TEMP. NO. 1	44	44	47	PACKING BOX TEMP. (F°)	44	43	43	DRAFT TUBE VACUUM			-2	-1	-1	THRUST	70	70	72	
2	41	WINDING TEMP. NO. 2	44	44	47	TURBINE BRS. TEMP. °C	39.4	37.0	36.9	SCROLL CASE (PSI)			70	69	69	L.G.	72	72	73	PEAK LOAD
3	40	WINDING TEMP. NO. 3	17	16	18°C	OIL COOLING FLOW (GPM)	1 1/2	1 1/2	1 1/2	PACKING GLAND (PSI)			11	11	11	U.G.	73	73	75	

I certify this is a duplicate copy of original Moyie Plant log sheets.

Mike Woodward

Tom B

OPR.

Ernest Winn

OPR.

MICROFILMED

Ernest Winn

OPR.

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

STATEHOUSE
BOISE, IDAHO 83720
(208) 334-4440

CITY OF BONNERS FERRY
P.O. BOX 149
BONNERS FERRY, ID 83805

JULY 06, 1983

RE: PERMIT NO. 98-7492

DEAR PERMIT HOLDER:

ENCLOSED IS A COPY OF YOUR APPROVED APPLICATION FOR PERMIT. WE DIRECT YOUR ATTENTION TO THE CONDITIONS OF APPROVAL ON THE FOURTH PAGE.

BE SURE TO NOTE THE SPECIAL CONDITION REQUIRING YOU TO INSTALL AND MAINTAIN A MEASURING DEVICE AT YOUR POINT OF DIVERSION. WE HAVE ENCLOSED A DESCRIPTION OF THE DIFFERENT TYPES OF MEASURING DEVICES ACCEPTED BY THIS OFFICE.

SINCERELY,

DAVID R. TUTHILL, JR., P.E.
SUPERVISOR, WATER ALLOCATION SECTION

ENCLOSURE

ENCLOSURE

POWER CALCULATIONS FOR APPLICATION NO. 98-7492

P = Kilowatts .74 X hp (1923)

Q = cfs

H = feet

e = efficiency

proposed
1423.02
120 cfs
165 ft
?

$$e = \frac{P(11.8)}{QH} = \frac{1423.02(11.8)}{120 \times 165} = \frac{16,791.636}{19800} = .85$$

Based on the above calculations the proposed project must have an 85 % efficiency.

OVERLAP REVIEW

P/D SWSW Sec 11 T62N R2E

98-2036 Power

98-7320 Power

98-2060 Power

All City of Bonners Ferry

P/U NWNW Sec 14 T62N R2E

98-2036 } same as
98-7320 } above

BYPASSED AREA none

RC 6/16/83

Dave T. M. → 

RECEIVED

JUN 13 1983

Department of Water Resources

City of
BONNERS FERRY



Moyie Dam Constructed 1948

TELEPHONE (208) 267-3105
102 MAIN STREET
POST OFFICE BOX 149
BONNERS FERRY, IDAHO 83805

June 10, 1983

State of Idaho
Department of Water Resources
State Office
450 W. State Street
Boise, Idaho 83720

Attn: L. Glen Saxton
Chief, Operations Bureau

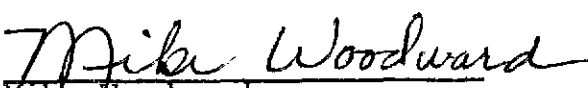
Re: Application for Permit No. 98-7492

Dear Mr. Saxton,

Please find enclosed a copy of our FERC Order Amending License No. 1991. I hope this will help speed up our application from your office.

If I can be further help please feel free to contact my office at any time at 208-267-3105.

Very truly yours,


Mike Woodward
City Engineer

ENCLOSURE

MJW/ld
Enclosures
cc: file (2)

UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

City of Bonners Ferry)

Project No. 1991

RECEIVED

JUN 13 1983

Division of Water Resources

ORDER AMENDING LICENSE

(Issued May 20, 1980)

On November 6, 1979, the City of Bonners Ferry (Licensee) of Idaho, filed an application under the Federal Power Act, 16 U.S.C. §791(a) - 825(r), for amendment of license for the Moyie River Project, FERC No. 1991, located on the Moyie River in Boundary County, Idaho. 1/ The project occupies lands of the United States under the administration of the U.S. Forest Service.

The license for the Moyie River Project was issued on April 1, 1948, for a period of 50 years. The Commission issued on August 23, 1960, an order approving the rehabilitation of an old powerhouse containing a turbine-generator rated at 450 kW. The project, as it presently exists, consists of: (1) a concrete diversion dam and small reservoir; (2) a 60-inch-diameter penstock which bifurcates into a 60-inch-diameter penstock and a 36-inch-diameter penstock to feed; (3) two powerhouses with a total rated capacity of 2450 kW; (4) a substation; (5) a transmission line; and (6) appurtenant facilities.

PROPOSED PROJECT CONSTRUCTION

The Licensee proposes to construct: (1) a 60-foot long penstock which would connect to the existing 60-inch-diameter penstock and parallel a 36-inch-diameter penstock, and (2) a new concrete powerhouse, containing one turbine-generator unit with a rated capacity of 1500 kW, to be attached to Licensee's existing Powerhouse No. 1. The proposed penstock and powerhouse would be located entirely within the existing project boundary. The installed capacity of the entire project would total 3950 kW.

1/ Authority to act on this matter is delegated to the Director, Office of Electric Power Regulation, under Section 375.308 of the Commission's regulations, 45 Fed. Reg. 21216 (1980), amending 44 Fed. Reg. 46449 (1979) and 18 C.F.R. 3.5(g) (1979).

PUBLIC NOTICE AND AGENCY COMMENTS

Public notice of the application was given on January 21, 1980, with March 8, 1980, as the last date for filing protests or petitions to intervene. None were filed. The U.S. Department of the Interior, the Idaho Department of Parks and Recreation, the Idaho Department of Lands, and U.S. Corps of Engineers commented on the application.

SAFETY, ADEQUACY, AND COMPREHENSIVE DEVELOPMENT

Except for the construction adjacent to the existing powerhouse and modifications to the existing 60-inch-diameter penstock, none of the other existing project works would be affected by the proposed construction.

The proposed installation of the new generating unit would increase the total hydraulic capacity of the project from 220 cfs to 360 cfs during periods of maximum power generation. The project's output would therefore increase to 5,300 MWh. The proposed modifications to the Moyie River project have been reviewed and are considered safe and adequate. Installation of the additional unit would increase project generation and more fully utilize available river flow.

$\Delta = 140$
v.s.
1202

ECONOMIC FEASIBILITY

The estimated cost of the proposed construction is \$1,645,700. The new generating unit would produce an estimated average 5,300,000 kWh per year. 2/ The annual cost of this power is estimated to be 45 mills per kWh which compares favorably with alternatives available in the region.

2/ The new power plant output of 5.3 million kWh of energy annually is equivalent to the energy that would be produced by 8,150 barrels of oil or 2,295 tons of coal.

FISHERY RESOURCES AND WATER QUALITY

The Moyie River is considered a high priority fishery resource. Fishery potential within the project area, however, is limited because of the steep gradient and absence of spawning habitat.

The U.S. Fish and Wildlife Service and the Idaho Department of Fish and Game did not comment on the application. They did, however, indicate directly to the Licensee that the project would have no significant adverse impacts on fish and wildlife resources of the area (Idaho Department of Fish and Game, letter of October 12, 1979; U.S. Fish and Wildlife Service, letter of October 19, 1979). Licensee has water rights in the Moyie River for 310 cfs, 90 cfs more than the present project capacity, but 50 cfs less than that required for operation with the proposed fourth unit. Water quality of the Moyie River is excellent; it is designated a Class A water source by the Idaho Department of Health and Welfare. Licensee has received a water quality certificate, subject to certain conditions concerning construction practices and disposal of waste construction material from the Idaho Department of Health and Welfare. Licensee has applied to the Idaho Department of Water Resources for the necessary water rights and to the U.S. Army Corps of Engineers for a Section 404 permit.

RECREATION

Licensee states that no recreational facilities are provided in the project area; the 45-acre project reservoir, however, is open to and used by the public for fishing and swimming. Access to the reservoir is by a gravel road owned by Boundary County.

Heritage Conservation and Recreation Service (HCRS) indicated that it understood that the road leading to the reservoir is in need of repair, and that there is a need for recreation facilities at the project. The Idaho Department of Parks and Recreation (DPR) recommended that consideration should be given to development of rest-rooms and picnic facilities and perhaps a boat ramp at the project.

Licensee replied that a clear need for recreational facilities at the project has not been established because of the lack of available demand and usage data. Licensee also indicated that the road providing access to the reservoir is the responsibility of Boundary County. In a letter dated January 4, 1974, to the Commission, Licensee stated, among other things, that maintenance of the road leading to the reservoir had been abandoned by Boundary County because of limited use and high maintenance costs.

The Commission's policy on recreation, Section 2.7 of the regulations, states, in part: "The Commission expects the Licensee to assume the following responsibility:

- (b) To develop suitable public recreational facilities upon project lands and waters and to make provisions for adequate public access to such project facilities and waters"

It is concluded that while the County has responsibility for maintenance of the road under its jurisdiction, the Licensee has the responsibility for providing public recreational facilities, including access to such facilities, if there is a demonstrated need at the project. Therefore, Article 30 requires Licensee to consult with DPR and Boundary County in determining the need, if any, for development of public recreational facilities and access at the project. Article 32 provides for reasonable recreational facilities as may be needed in the future.

In addition, Staff believes it is necessary to provide for public safety measures at the project and authorization for Licensee to grant permission for certain types of use and occupancy of project lands. Article 33 authorizes Licensee to grant permission for certain types of use and occupancy of project lands, including use of project lands for recreation purposes. Article 31 requires Licensee to install safety devices to protect the general public in its use of project lands.

CULTURAL RESOURCES

The State Historic Preservation Officer (SHPO) has determined that no archeological or historical sites would be affected by the proposed action.

THREATENED OR ENDANGERED PLANTS AND ANIMALS

No threatened or endangered species are known to occur in the project area. Peregrine falcons and gray wolves, both on the Federal list of endangered species, have been reported in Boundary County, but neither species has been sighted near the project area. Therefore, construction of the powerhouse and penstock and project operation would not affect any threatened or endangered species.

ENVIRONMENTAL IMPACTS

Construction of the proposed project would cause some increase in levels of suspended solids in the Moyie River in the project area and downstream. During project operation, about 1,300 feet of the river downstream of the dam would be dewatered more often than at present. This river reach, however, currently has low fishery

potential. There would be some loss of trees and wildlife habitat associated with project construction and operation. Approving the proposed action, however, would have only a minimal effect on the natural resources in the vicinity of the project. For the above reasons, it is concluded that approval of the application would not constitute a major Federal action significantly affecting the quality of the human environment.

It is ordered that:

The license for Project No. 1991 is amended, effective the first day of the month in which this order is issued, as follows:

(A) The application for amendment of license to install a fourth generating unit and to construct a powerhouse and associated facilities at the Moyie River Project No. 1991 is approved.

(B) Paragraph B of Article 2 of the license, (as amended August 23, 1960,) is further amended to read as follows:

B. All project works consisting of a concrete gravity dam about 300 feet long and about 90 feet high; a tunnel and a powerhouse containing two 1,500 horsepower turbines connected to two 1,250 kva generators; a rehabilitated powerhouse now known as the upper powerhouse containing a 600 horsepower turbine connected to a 475 kva generator, the water for which is furnished by a 36" diameter steel penstock 50 feet long connected to the penstock of the lower powerhouse; a powerhouse known as the third powerhouse, adjacent to the upper powerhouse containing one 2,200 horsepower turbine connected to a 1,500 kW generator, the water for which is furnished by a 48-inch diameter steel penstock, 60 feet long, connected to the penstock of the lower powerhouse; a step-up substation; a transmission line 9 miles long from the powerhouse to but not including a substation in the Village of Bonners Ferry; and appurtenant facilities; the location, nature and character of which are more specifically shown and described by the exhibits hereinbefore cited and by certain other exhibits which also formed part of the application for license and amendment thereof and which are designated and described as follows:

(C) The following maps and drawings conform to the Commission's Rules and Regulations and are approved as part of the license:

<u>Exhibit L</u>	<u>FERC No.</u>	<u>Showing</u>
Sheet 1	1991-5	Project Plan and Profile
Sheet 2	1991-6	Powerhouse Addition Plan and Section

(D) The Exhibit M submitted with the application for amendment of license and consisting of two pages entitled "General Description of Mechanical, Electrical, and Transmission Equipment" is approved as part of the license.

(E) Subparagraph A of Article 20 is further amended to read as follows:

(A) For the purpose of reimbursing the United States for the costs of administration of Part I of the Act, a reasonable annual charge as determined by the Commission in accordance with the provisions of its regulations, in effect from time to time. The authorized installed capacity for such purposes is 5,600 horsepower;

(F) The following articles are added to the license:

Article 29. The Licensee shall within 90 days of completion of construction file, in accordance with the Commission's Rules and Regulations, revised Exhibit K and Exhibit L drawings and Exhibit M, showing the project as-built.

Article 30. Licensee shall, in consultation with the Idaho Department of Parks and Recreation (DPR) and Boundary County (County) determine the need, if any, for development or improvement of recreational facilities and public access at the project. Licensee shall, within one year from the date of issuance of this order, file a report on its consultation with DPR and County, including any plans for development or improvement of recreational facilities and public access at the project,

Article 31. Licensee shall, to the satisfaction of the Commission's authorized representative, install and operate any signs, lights, sirens, barriers or other safety devices that may reasonably be needed to warn the public of fluctuations in flow from the project and protect the public in its recreational use of project lands and waters.

Article 32. The Licensee shall construct, maintain, and operate, or shall arrange for the construction, maintenance, and operation of such reasonable recreational facilities, including modifications thereto, such as access roads, wharves, launching ramps, beaches, picnic and camping areas, sanitary facilities, and utilities, giving consideration to the needs of the physically handicapped, and shall comply with such reasonable modifications of the project, as may be prescribed hereafter by the Commission during the term of this license upon its own motion or upon the recommendation of the Secretary of the Interior or other interested Federal or State agencies, after notice and opportunity for hearing.

Article 33. (a) In accordance with the provisions of this article, the Licensee shall have the authority to grant permission for certain types of use and occupancy of project lands and waters and to convey certain interests in project lands and waters for certain other types of use and occupancy, without prior Commission approval. The Licensee may exercise the authority only if the proposed use and occupancy is consistent with the purposes of protecting and enhancing the scenic, recreational, and other environmental values of the project. For those purposes, the Licensee shall also have continuing responsibility to supervise and control the uses and occupancies for which it grants permission, and to monitor the use of, and ensure compliance with the covenants of the instrument of conveyance for, any interests that it has conveyed, under this article. If a permitted use and occupancy violates any condition of this article or any other condition imposed by the Licensee for protection and enhancement of the project's scenic, recreational, or other environmental values, or if a covenant of a conveyance made under the authority of this article is violated, the Licensee shall take any lawful action necessary to correct the violation. For a permitted use or occupancy, that action includes, if necessary, cancelling the permission to use and occupy the project lands and waters and requiring the removal of any non-complying structures and facilities.

(b) The types of use and occupancy of project lands and waters for which the Licensee may grant permission without prior Commission approval are: (1) landscape plantings; (2) non-commercial piers, landings, boat docks, or similar structures and facilities; and (3) embankments, bulkheads, retaining walls, or similar structures for erosion control to protect the existing shoreline. To the extent feasible and desirable to protect and enhance the project's scenic, recreational, and other environmental values, the Licensee shall require multiple use and occupancy of facilities for access to project lands or waters. The Licensee shall also ensure, to the satisfaction of the Commission's authorized representative, that the uses and occupancies for which it grants permission are maintained in good repair and comply with applicable State and local health and safety requirements. Before granting permission for construction of bulkheads or retaining walls, the Licensee shall: (1) inspect the site of the proposed construction, (2) consider whether the planting of vegetation or the use of riprap would be adequate to control erosion at the site, and (3) determine that the proposed construction is needed and would not change the basic contour of the reservoir shoreline. To implement this paragraph (b), the Licensee may, among other things, establish a program for issuing permits for the specified types of use and occupancy of project lands and waters, which may be subject to the payment of a reasonable fee to cover the Licensee's costs of administering the permit program. The Commission reserves the right to require the Licensee to file a description of its standards, guidelines, and procedures for

implementing this paragraph (b) and to require modifications of those standards, guidelines, or procedures.

(c) The Licensee may convey easements or rights-of-way across, or leases of, project lands for: (1) replacement, expansion, realignment, or maintenance of bridges and roads for which all necessary State and Federal approvals have been obtained; (2) storm drains and water mains; (3) sewers that do not discharge into project waters; (4) minor access roads; (5) telephone, gas, and electric utility distribution lines; (6) non-project overhead electric transmission lines that do not require erection of support structures within the project boundary; (7) submarine, overhead, or underground major telephone distribution cables or major electric distribution lines (69-kV or less); and (8) water intake or pumping facilities that do not extract more than one million gallons per day from a project reservoir. No later than January 31 of each year, the Licensee shall file three copies of a report briefly describing for each conveyance made under this paragraph (c) during the prior calendar year, the type of interest conveyed, the location of the lands subject to the conveyance, and the nature of the use for which the interest was conveyed.

(d) The Licensee may convey fee title to, easements or rights-of-way across, or leases of project lands for: (1) construction of new bridges or roads for which all necessary State and Federal approvals have been obtained; (2) sewer or effluent lines that discharge into project waters, for which all necessary Federal and State water quality certificates or permits have been obtained; (3) other pipelines that cross project lands or waters but do not discharge into project waters; (4) non-project overhead electric transmission lines that require erection of support structures within the project boundary, for which all necessary Federal and State approvals have been obtained; (5) private or public marinas that can accommodate no more than 10 watercraft at a time and are located at least one-half mile from any other private or public marina; (6) recreational development consistent with an approved Exhibit R or approved report on recreational resources of an Exhibit E; and (7) other uses, if: (i) the amount of land conveyed for a particular use is five acres or less; (ii) all of the land conveyed is located at least 75 feet, measured horizontally, from the edge of the project reservoir at normal maximum surface elevation; and (iii) no more than 50 total acres of project lands for each project development are conveyed under this clause (d)(7) in any calendar year. At least 45 days before conveying any interest in project lands under this paragraph (d), the Licensee must file a letter to the Director, Office of Electric Power Regulation, stating its intent to convey the interest and briefly describing the type of interest and location of the lands to be conveyed (a marked Exhibit G or K map may be used), the nature of the proposed use, the identity of any Federal or

State agency official consulted, and any Federal or State approvals required for the proposed use. Unless the Director, within 45 days from the filing date, requires the Licensee to file an application for prior approval, the Licensee may convey the intended interest at the end of that period.

(e) The following additional conditions apply to any intended conveyance under paragraphs (c) or (d) of this article:

(1) Before conveying the interest, the Licensee shall consult with Federal and State fish and wildlife or recreation agencies, as appropriate, and the State Historic Preservation Officer.

(2) Before conveying the interest, the Licensee shall determine that the proposed use of the lands to be conveyed is not inconsistent with any approved Exhibit R or approved report on recreational resources of an Exhibit E; or, if the project does not have an approved Exhibit R or approved report on recreational resources, that the lands to be conveyed do not have recreational value.

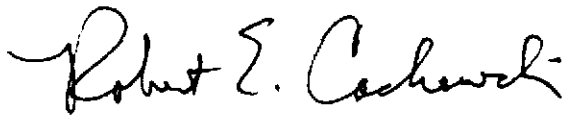
(3) The instrument of conveyance must include covenants running with the land adequate to ensure that: (i) the use of the lands conveyed shall not endanger health, create a nuisance, or otherwise be incompatible with overall project recreational use; and (ii) the grantee shall take all reasonable precautions to ensure that the construction, operation, and maintenance of structures or facilities on the conveyed lands will occur in a manner that will protect the scenic, recreational, and environmental values of the project.

(4) The Commission reserves the right to require the Licensee to take reasonable remedial action to correct any violation of the terms and conditions of this article, for the protection and enhancement of the project's scenic, recreational, and other environmental values.

(f) The conveyance of an interest in project lands under this article does not in itself change the project boundaries. The project boundaries may be changed to exclude land conveyed under this article only upon approval of revised Exhibit G or K drawings (project boundary maps) reflecting exclusion of that land. Lands conveyed under this article will be excluded from the project only upon a determination that the lands are not necessary for project purposes, such as operation and maintenance, flowage, recreation, public access, protection of environmental resources, and shoreline control, including shoreline aesthetic values. Absent extraordinary circumstances, proposals to exclude lands conveyed under this article from the project shall be consolidated for consideration when revised Exhibit G or K drawings would be filed for approval for other purposes.

This order is final unless a petition appealing it to the Commission is filed within 30 days from the date of its issuance, as provided in Section 1.7(d) of the Commission's regulations, 18 C.F.R. 1.7(d) (1979), as amended, 44 Fed. Reg. 46449 (1979). The filing of a petition appealing this order to the Commission or an application for rehearing as provided in Section 313(a) of the Act does not operate as a stay of the effective date of this amendment of license or of any other date specified in this order, except as specifically ordered by the Commission. The Licensee's failure to file a petition appealing this order to the Commission shall constitute acceptance of this amendment of license. In acknowledgment of acceptance of this amendment of license and its terms and conditions, it shall be signed for the Licensee and returned to the Commission within 60 days from the date this order is issued.

(S E A L)


for William W. Lindsay
Director, Office of Electric
Power Regulation

RECORDED

Project No. 1991

IN TESTIMONY of its acknowledgment of acceptance of all of
the terms and conditions of this Order, City of Bonners Ferry
this _____ day of _____, 1980, has caused its
corporate name to be signed hereto by Harold Sims
Mayor

its ~~President~~, and its corporate seal to be affixed hereto and
attested by Dorothy Funkhouser, its Clerk
~~Secretary~~ City Council

~~Secretary~~, pursuant to a resolution of its ~~Board of Directors~~

duly adopted on the 24th day of June, 1980,
a certified copy of the record of which is attached hereto.

By

Harold Sims
~~President~~ Mayor

Attest:

Dorothy Funkhouser
Clerk ~~Secretary~~

(Executed in quadruplicate)

June 2, 1983

City of Bonners Ferry
P.O. Box 149
Bonners Ferry, ID 83805

RE: Application for Permit No. 98-7492

Gentlemen:

We have completed a preliminary review of the above referenced application. This review has included advertising by the regional office and a verification that all required preliminary information has been provided.

For power projects that are under the jurisdiction of the Federal Energy Regulatory Commission (FERC), we withhold final action on the application pending FERC approval of (1) a preliminary permit, or (2) an exemption. If you have not yet contacted FERC, the address below is a good starting point:

Regional Engineer
San Francisco Regional Office
Federal Energy Regulatory Commission
333 Market Street, Sixth Floor
San Francisco, CA 94105-2195
Telephone No. (415) 974-7177

The continued validity of this application is contingent on your proceeding with due diligence toward obtaining an approval or an exemption from FERC. Please keep this office informed of progress in this regard.

Sincerely,

L. GLEN SAXTON
Chief, Operations Bureau

LGS:jvv

State of Idaho
Department of Water Resources

APPLICATION FOR PERMIT ANALYSIS SHEET

INITIAL REVIEW BY: LB

APPLICATION NUMBER: 98-7492

CHECK:

- ☒ Source.
☒ Point of diversion.
☒ County.
☒ Quantity of water and period of use.
☒ Description of diverting works.
☒ Time required for beneficial use of water.
☒ Place of use or acres irrigated.
☒ Map.
☒ Signature.
☒ Fee.
☒ Yes ☒ No Field check required.
☒ Yes ☒ No Critical groundwater area.
☒ Yes ☒ No Request dam safety information. Sent by: _____ Date: _____
☒ Yes ☒ No* In form to receipt.

Field check by: _____

Date: _____

Comments: _____

*REQUEST THE FOLLOWING ADDITIONAL INFORMATION FROM THE APPLICANT:

Affidavit of Residency
4/28/83

SEND COPIES TO:

- ☐ Idaho State Health Department. Copies sent by: _____ Date: _____
☐ Idaho Fish and Game Department. _____
☐ Idaho Department of Lands. _____
☐ U.S. Bureau of Land Management. _____
☐ U.S. Forest Service. _____
☐ Other _____

PROCESSING:

- ☐ Yes ☐ No Platted by: _____ Map No. _____
☐ Yes ☐ No Other rights on same place of use. _____
☒ Yes ☐ No* In form for advertising.
☐ Yes ☒ No Final date for protests: 5/2/83 ✓
☐ Yes ☒ No Protests received. If yes, record information on 4th page of application.

FINAL REGIONAL PROCESSING REVIEW:

- ☒ Affidavit of publication received. Date: 4/28/83 ✓
☒ Application published correctly. If not, record action taken: _____
☒ Fee amount, receipt date & number, recorded on application.
☒ Publication dates and paper, recorded on application.
☒ Protests, dates, withdrawal, etc., recorded on application.
☒ Recommendation & initial, recorded on application.
☒ Yes ☐ No Measuring device required.
☐ Yes ☒ No Access port required.
☐ Yes ☒ No Will water be delivered by watermaster? If yes, what district? _____
☒ 4/11/83 Date of priority recommended.
Special conditions of approval or cover letter. _____

MICROFILMED

By: RLH

Date: 5/4/83

STATE OFFICE REVIEW:

SLW/LOZ 01,08A,17B 25
return receipt

- ☐ See attached sheet for more information.

By: Kelvin

Date: 6/16/83

RECEIVED

MAY 10 1983

Department of Water Resources

98-7492-

CITY OF BONNERS FERRY

P.O. BOX 149, BONNERS FERRY, ID 83805

Source: MOYIE RIVER trib. to KOOTENAI RIVER

Date Filed: 04/01/1983

Diversion Pt: SWSW Sec 11 T 62N R 02E

Use: POWER (120.00 CFS)

In: NWNW Sec 14 T 62N R 02E

MICROFILMED



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
NORTHERN REGION

John V. Evans
Governor

C. Stephen Allred
Director April 14, 1983

Suite No. 1
4055 Government Way
Coeur d'Alene, Idaho 83814
(208) 667-6484

City of Bonners Ferry
P. O. Box 149
Bonners Ferry, Id. 83805

Re: 98-7492

Gentlemen:

Pursuant to Idaho Code, applicants who file an Application for Permit for power purposes must be bona fide residents of the State of Idaho.

A review of your above-referenced power application reveals that you have not completed an Affidavit of Residency for this application.

We are, therefore, enclosing an affidavit form. Please fill out, sign before a notary public and return to our office at your earliest convenience so that we may continue processing your application.

If you have any questions, please contact this office.

Sincerely,

ROBERT G. HAYNES, P.E.
Regional Supervisor

pms

Enc. - Affidavit

RECEIVED
APR 14 1983