

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-21771
Exam Date: 09/18/2023

1. Current Owner:
N STANLEY STANDAL JR 609 RIVER RD BLISS ID 83314-5071
2. Accompanied by: N. Stanley Standal
Phone No: 208-539-4970
Address: 609 River Rd, Bliss ID 83314-5071
Relationship to permit Holder: Permit Holder

3. **SOURCE:**
UNNAMED STREAM

Tributary
SNAKE RIVER

Method of Determination: On-site Inspection

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
37-7749	Unnamed Stream	Power	Decreed

Comments: _____

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
37-7749	Unnamed Stream	Power	Decreed

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED STREAM L3 (SE¼ SW¼), Sec. 17, Twp 06S, Rge 13E, B.M. GOODING County

Method of Determination: On-site Inspection

PLACE OF USE: POWER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06S	13E	17												X L3					

Method of Determination: On-site Inspection

3.

☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

☒ Aerial Photo Attached (required for irrigation of 10+ acres).

☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
A0013508	A.A. Electric	25 Kw	D0734517008 D0734517009	Cornell 5TR2 Turbine	1200 RPM

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Ultrasonic meter	GE	Panametrics	PT878	04031		4/2023

2. Measurements: Flow through system measured at 3109.1 gpm = 6.93 cfs using Panametrics PT878 meter (see Figure 1);
Flow rate for decreed power water right 37-7749 is 5.21 cfs
6.93 cfs – 5.21cfs = **1.72 cfs**

E. FLOW CALCULATIONS N/A

_____ Additional Computation Sheets Attached

Measured Method:

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: Power

Power is generated for credit under net metering agreements with Idaho Power (Service Agreement Nos: 0030010305 & 0030242872) for a variable durations of 24 hours a day up to 183 days per year.

$$1.72 \text{ cfs} \times 1.9835 = 3.41162 \text{ af per day}$$

$$3.41162 \text{ af/day} \times 183 \text{ days} = 624.32646 \text{ af} \approx \mathbf{624.3 \text{ af}}$$

G. NARRATIVE/REMARKS/COMMENTS

We originally met with Mr. Standal on 10/25/2022. He showed us (Jim Bitzenburg, Corey King & I) the system. We started at the upper end where the water is diverted from his fish propagation raceways down a ditch and then into the penstock/pipeline that runs approximately 500' downhill to two 25 Kw Cornell 5TR2 turbines inside a power house adjacent to the Snake River. Water is discharged into the Snake River after passing through the turbines. The upper ditch and wing walls at the head of the penstock were overgrown with aquatic vegetation. When we discussed measuring the flow Mr. Standal indicated he would like to clean out the vegetation prior to our measurement. It was also noted that there was no measuring device present as required by the permit (conditions 01J & 01N). We agreed to reschedule the exam for a future date.

We returned on 9/18/2023 to measure flow through the system. Corey King attached a Panametric PT878 ultrasonic meter to the 14" iron pipe just above the turbines and then Mr. Standal powered up the turbines. Flow through the system was measured at a rate of 3109.1 gallons per minute which is equivalent to 6.93 cfs (see Figure 1). The decreed power water right for this system, 37-7749, authorizes a flow rate of 5.21 cfs, so this permit will be recommended for licensing at 1.72 cfs. He also indicated that the system run time is variable based on his net metering agreement with Idaho Power, which gives him credit towards his power use at the properties he owns. He told me that he often runs the system, which always runs at full capacity, up to 183 days a year, 24 hours a day.

Mr. Standal currently has a FERC license for this project, project name Stevenson No. 1, docket number P-8865, and the license will expire on June 30, 2024 (FERC license can be viewed at 37-07749 Water Rights Back File). Mr. Standal indicated that he will be applying for a FERC exemption before the license expires.

Mr. Standal did not install a measuring device and when we discussed satisfying that condition on the permit (01J), he stated that he felt that was inconsistent with the decreed power right 37-7749, which did not require a measuring device. Since Corey King was there and is the Watermaster for Water District 130, Corey indicated he would read the measurement order for the water district and would consider waiving the requirement for a measuring device. In the end, Corey agreed to waive the requirement provided a condition was placed on the license that stated a measuring device and controllable locking works may be required upon specific notification by the Department. I have placed a condition on the license that states: *"Upon specific notification by the Department, the right holder shall install and maintain a measuring device and lockable controlling works of a type approved by the Department in a manner that will provide the watermaster suitable control of the diversion."*

Additionally, per Application Processing Memo No. 75, Term Limits for Hydropower use, Condition 913 has also been added to the license.

Recommend licensing permit for 1.72 cfs and a volume of 624.3 af.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

Beneficial Use	Period of Use	Rate of Diversion	
POWER	01/01 to 12/31	1.72 CFS	624.3 AF

Totals: 1.72 CFS 624.3 AF

2. Recommended Amendments

____ Change P.D. as reflected above ____ Add P.D. as reflected above X None

____ Change P.U. as reflected above ____ Add P.U. as reflected above X None

I. AUTHENTICATION

Bill Mills -

Field Examiner's Name

Date

Reviewer

Date



Figure 1: Flow Meter Display



Figure 2: Top of penstock

State of Idaho
Department of Water Resources

RECOMMENDATION OF WATERMASTER

Water Right Permit No: 37-21771

Applicant Name: STANLEY STANDAL JR

Watermaster's Recommendation:

- a) ☒ I do not oppose approval of this application
- b) ☐ I do not oppose approval of this application under the following terms:
- c) ☐ I oppose approval of this application(s) for the following reasons:
- d) ☒ Additional comment:

The original application for permit included a condition that would require measurement and lockable controlling works. At this time, Water District 130 is willing to waive the requirement for installation of a measuring device and lockable controlling works. However, a condition should remain on the water right allowing for the requirement of an installed measuring device and lockable controlling works upon specific notification.

Dated: September 19, 2023

Water District 130



Corey King, Watermaster



Figure 3: 14" penstock/pipeline to turbines

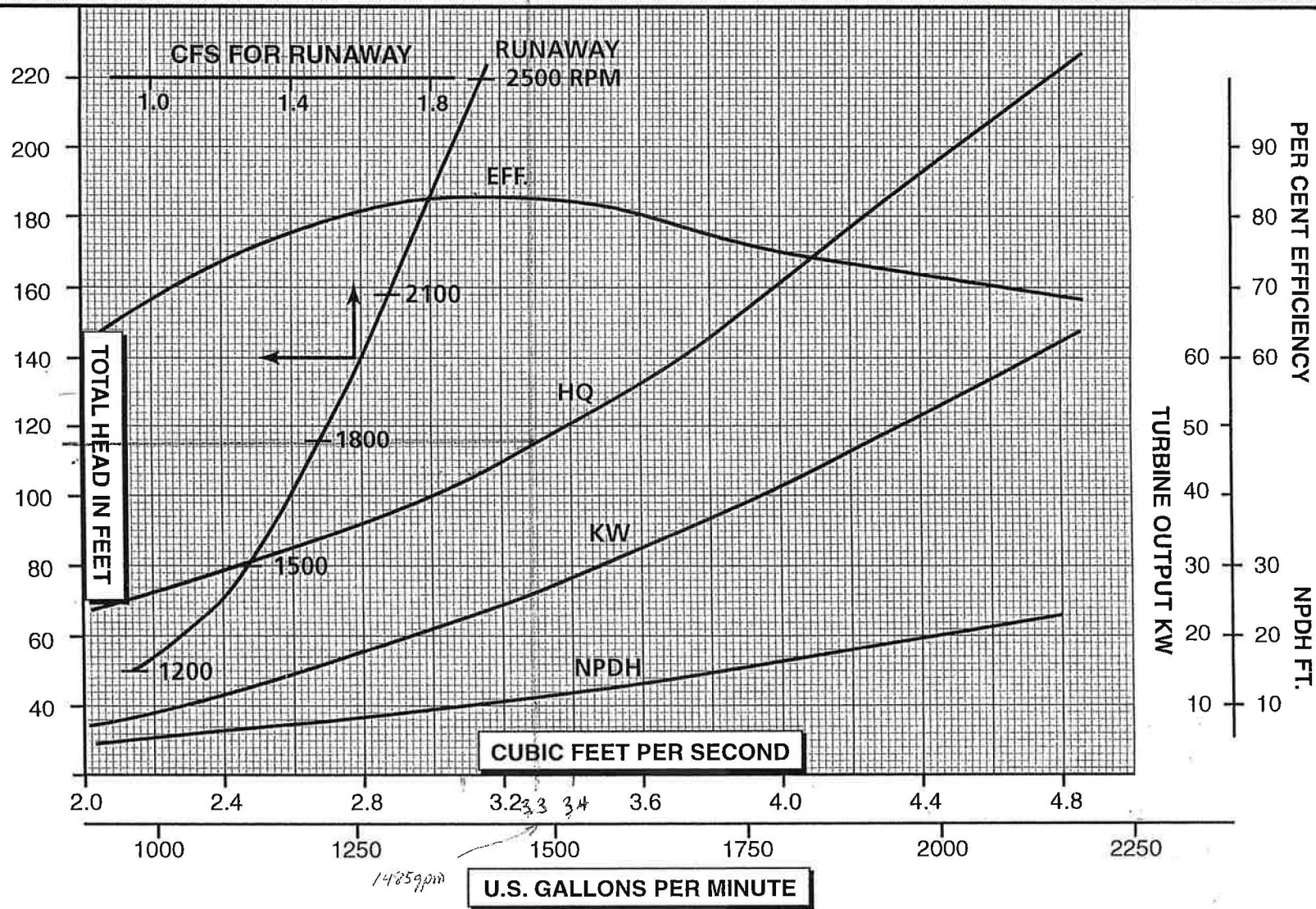


Figure 4: Turbines

System Diagram



INLET = 5.0 IN.	$N_s = 1390$	SPEED = 1220 RPM	TURBINE MODEL - 5 TR2
EXHAUST = 8.0 IN.			



Field Exam
37-21771

SRB

5 TR2	CORNELL PUMP COMPANY • PORTLAND, OREGON	CORNELL
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WMIS

Water Management Information System

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WMIS Number



WMIS Number

400235

Search

[Point Of Diversion](#) [PCC](#) [Flow Meter](#) [Time Clock](#) [Alternate](#) [Contacts](#) [Data Summary](#) [Other](#) [Logout](#)**Point Of Diversion**

You are viewing 400235; A0013506

WMIS Number 400235 Network Well No
Reporting District Water District 130 Access Port Yes
Measurement Option Waived (5) Water District 130
Metal Tag Number A0013506 Tag Location NORTH EAST CORNER OF PUMP ROOM
Followup Date Comments flows measured at Pond 6, pod 1000005.
Diversion Name BEDROCK HYDRO

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Water Right Number	Owner Type	Owner Name	Address	Phone	City/State/Zip	Email
37-7749	Current Owner	STANDAL JR, N STANLEY	609 RIVER RD	2085394970	BLISS, ID 83314-5071	
37-7749	Current Owner	STANDAL, LORETTA M	609 RIVER RD	2088374970	BLISS, ID 83314-5071	
37-21771	Current Owner	STANDAL JR, N STANLEY	609 RIVER RD	2085394970	BLISS, ID 83314-5071	