



Water Resources Program

CLAIM OF HYDROPOWER AND ANNUAL LICENSE FEE WORKSHEET INSTRUCTIONS

P.O. Box 47600, Olympia, WA 98504-7600 ♦ www.ecy.wa.gov/ecyhome.html

1. The maximum quantity of water or highest instantaneous rate of use (Q_i) is an element of your water right.
2. Head used is the average fall for your hydropower project. Provide the full head measure of your complete project, no matter what your project's current stage of development.
3. Calculate the theoretical horsepower by multiplying your maximum annual quantity (Step 1) by the head (Step 2), and then divide by 8.8.

Example: $(3,500 \text{ cfs} \times 45 \text{ feet}) \div 8.8 = 157,500 \div 8.8 = 18,000 \text{ hp}$

4. To qualify for the Irrigation Exemption:
 - The claimant must be an irrigation district or other municipal subdivision.
 - More than 50% of the hydropower claim must be for irrigation pumping.

If eligible, calculate your exemption by multiplying the percent of power used for irrigation pumping (Step 4.A) by the total horsepower claimed.

Example: $60 \% \times 18,000 \text{ hp} = 60 \div 100 \times 18,000 \text{ hp} = 10,800 \text{ hp}$

5. If you qualified for the Irrigation Exemption, subtract Step 4.B from your total horsepower claimed (Step 3). [Otherwise, enter the theoretical horsepower claimed in Step 3.]

Example: $18,000 \text{ hp} - 10,800 \text{ hp} = 7,200 \text{ hp}$

6. If you do not know the percent of completion of your project, you must repeat steps 1 through 5, considering only the developed portion of your project. In Step 4, take the full irrigation exemption you are entitled to (both developed and undeveloped).

To use the percent developed to calculate the horsepower currently in use, below are four examples, a-d:

- a. If you have developed your 18,000 hp project to 80 percent of full capacity and 60 percent of the full capacity qualifies for the Irrigation Exemption, your operational capacity is:

$18,000 \text{ hp} \times 80 \% - 10,800 \text{ hp (from Step 4.b)} = 3,600 \text{ hp}$

- b. If you have developed your 18,000 hp project to 80 percent of full capacity, and are ineligible for an Irrigation Exemption, your operational capacity is:

$18,000 \text{ hp} \times 80 \% = 14,400 \text{ hp}$

- c. If you have not yet developed your project, your operational capacity is zero.
- d. If your project is fully developed, your operational capacity is equal to Step 5.

7. Calculate your fee due.

- Example from 6.a. above for a non-FERC project:

A. The fee for the total (non-exempt) claim of 7,200 hp is
 $(9 \text{ cents} \times 1,000) + (1.8 \text{ cents} \times 6,200) = (\$90) + (\$111.60) = \201.60

B. The fee for the non-exempt portion in use of 3,600 hp is
 $(9 \text{ cents} \times 1,000) + (1.8 \text{ cents} \times 2,600) = (\$90) + (\$46.80) = \136.80

E. Add subtotals of columns A + B:
 $\$201.60 + \$136.80 = \$338.40$

F. This project is claimed by an irrigation district and supplies power to their irrigation conveyance system, so fee due is reduced by half:
 $\$338.40 \div 2 = \169.20

- Example from 6.b above, for a FERC project:

C. The fee for the total claim of 18,000 hp is
 $(25 \text{ cents} \times 1,000) + (5 \text{ cents} \times 9,000) + (2.5 \text{ cents} \times 8,000) =$
 $(\$250) \quad + \quad (\$450) \quad + \quad (\$200) \quad = \900

D. The fee for the current operational capacity of 14,400 hp is
 $(25 \text{ cents} \times 1,000) + (5 \text{ cents} \times 9,000) + (2.5 \text{ cents} \times 4,400) =$
 $(\$250) \quad + \quad (\$450) \quad + \quad (\$110) \quad = \810

E. Add subtotals of columns C + D:
 $\$900 + \$810 = \$1,710$

F. This project is not eligible for the irrigation conveyance reduction so final fee due is \$1,710.



Water Resources Program

Claim of Hydropower and Annual License Fee Worksheet

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Important: Please read instructions carefully before completing this form. Return form to Department of Ecology.

PART I. Claim Description

Claim Number: _____ Project Name: _____

Claimant: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

Contact: _____ Phone: _____

1. From what stream(s) do you divert water? _____

2. Where is the point of diversion?

_____ Section _____ Township _____ N, Range _____
(Tract or other legal subdivision) (E or W)

3. Where does the water reenter the stream?

_____ Section _____ Township _____ N, Range _____
(Tract or other legal subdivision) (E or W)

What water right is the basis of this claim?

Adjudicated water right: _____
(Title of case and Certificate number)

Appropriation before Water Code (June 15, 1917): _____
(Date of first use)

Appropriation under Water Code: _____
(Permit or Certificate number)

Other basis for claim: _____

4. If natural flow is enhanced by water from a reservoir, provide the following information for each reservoir:

Location: _____
(Section, Township, Range (E or W))

Capacity: _____ acre-feet

Water source: _____

Water right for storage purposes that is basis for claim (data similar to Item 3, above):

5. Type of hydropower facility: _____

6. Power uses: _____

Part II. Fee Worksheet

1. Maximum quantity of water claimed (highest rate of use): _____ cubic feet per second
2. Head used (average fall): _____ feet
3. Theoretical horsepower claimed (head x cfs ÷ 8.8): _____ hp
4. A. How much of this hydropower claim is for irrigation pumping? _____ %
 B. If the claimant is an irrigation district or other municipal subdivision, and 4.A is more than 50 %, that portion of the claim is exempt from fees.
 Irrigation exemption (multiply Step 3 x 4.A, if eligible): _____ hp
5. Non-exempt theoretical horse power (Step 3 minus any exemption in 4.B): _____ hp
6. What portion of hydropower claimed under Step 5 is in operation? _____ hp
7. Calculate fees: Use all columns in the table below that apply to your project.

Theoretical Horsepower	Non-FERC Projects				FERC Projects			
	A. Total Claim (From Step 5)		B. In Operation (From Step 6)		C. Total Claim (From Step 5)		D. In Operation (From Step 6)	
First 1,000 hp	9 cents/hp	\$	9 cents/hp	\$	25 cents/hp	\$	25 cents/hp	\$
Next 9,000 hp	1.8 cents/hp	\$	1.8 cents/hp	\$	5 cents/hp	\$	5 cents/hp	\$
Over 10,000 hp	0.9 cents/hp	\$	0.9 cents/hp	\$	2.5 cents/hp	\$	2.5 cents/hp	\$
SUBTOTALS		\$		\$		\$		\$

E. Total (Add subtotals A + B **or** C + D, as they apply): \$ _____

F. If this project is claimed by an irrigation district for their water conveyance system, subtract 50 % from fee due in E above: \$ _____

If you have changes, questions, or need more information, please contact:

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