

Form 9-1503

(Feb. 1962)

U.S. DEPARTMENT OF INTERIOR

GEOLOGICAL SURVEY

19060000

Basin Index 33 13 B c

Baranof Island

## WATERPOWER OF THE UNITED STATES

State Alaska Stream Hidden Falls Lake Site Lower Hidden Falls LakeCounty First Judicial Division

Owner \_\_\_\_\_

Mer. \_\_\_\_\_ T. \_\_\_\_\_ R. \_\_\_\_\_ Sec. \_\_\_\_\_

Constructed \_\_\_\_\_

Lat. 57 ° 13.1 ' N " Long. 134 ° 52 ' W. "Storage 19,000 af 23,436,310 m<sup>3</sup>

Miles above mouth \_\_\_\_\_

Installed capacity \_\_\_\_\_ mw

Drainage Area 5.8 sq.mi. 15.02 sq. km

Installable capacity \_\_\_\_\_ mw

| FLOW                |     |        | ELEVATIONS |    |          |   | HEAD  |    | THEORETICAL<br>POWER<br>mw-100 % Eff. | ESTIMATED AVERAGE<br>ANNUAL GENERATION<br>mwh |
|---------------------|-----|--------|------------|----|----------|---|-------|----|---------------------------------------|-----------------------------------------------|
| Percent<br>duration | cfs | m³/sec | Forebay    |    | Tailrace |   | Gross |    |                                       |                                               |
|                     |     |        | ft.        | m  | ft.      | m | ft.   | m  |                                       |                                               |
| 95                  | 7   | 0.2    | 210        | 64 |          |   | 210   | 64 | 0.13                                  |                                               |
| 50                  | 68  | 1.9    |            |    |          |   |       |    | 1.21                                  |                                               |
| mean                | 80  | 2.3    |            |    |          |   |       |    | 1.43                                  | 10,010                                        |

Remarks:

Sitka A-3

Prepared by GCG Date \_\_\_\_\_

WPS A 1947

Lake elev.

Lower 165

Upper 1080

Low dam at both sites

2 Power houses

FDP 833 & 1502

Lower Lake developed  
and abandoned

PSC 221 lands below 200' adj. to lake

Should with upper reservoir  
if project feasible

Quad Sitka A-3

Lake elev.

Upper 1115

Lower 210

project looks  
marginal for  
retention of withdrawal  
If dept. should  
determine elev. of  
Lake and location of  
potential reservoir  
surface.

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Basin Index 30-33

WATERPOWER OF THE UNITED STATES

State Alaska Stream Hidden Falls Lake Site Lower Hidden Falls Lake

County First Judicial Division

Mer. T. R.  Sec.

Lat. 57 ° 13.1 ' N " Long. 134 ° 52 ' W. "

Miles above mouth

Drainage Area 5.8 sq. mi. 15.02 sq. km

Owner

Constructed

Storage 19,000 af 23,436,310 m<sup>3</sup>

Installed capacity  mw

Installable capacity  mw

| FLOW                |     |        | ELEVATIONS |     |          |   | HEAD  |     | THEORETICAL<br>POWER<br>mw-100 % Eff. | ESTIMATED AVERAGE<br>ANNUAL GENERATION<br>mwh |
|---------------------|-----|--------|------------|-----|----------|---|-------|-----|---------------------------------------|-----------------------------------------------|
| Percent<br>duration | cfs | m³/sec | Forebay    |     | Tailrace |   | Gross |     |                                       |                                               |
|                     |     |        | ft.        | m   | ft.      | m | ft.   | m   |                                       |                                               |
| 95                  | 7   | .2     | 210        | 64. |          |   | 210   | 64. | .125 <sup>13</sup>                    |                                               |
| 50                  | 68  | 1.9    |            |     |          |   |       |     | 1214                                  |                                               |
| mean                | 80  | 2.3    |            |     |          |   |       |     | 1428.43                               | 10,010                                        |

Remarks:

Prepared by  Date

W.P.S.A 1947

Lake elev

upper 1080

lower 165

low dam at both sites

2 power houses.

FPP 833 + 1502

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Quad Sitka 17-3

Lake elev.

upper 1115

lower 210

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of withdrawal  
If dept. should  
determin elev. of lake  
and location of  
potential reservoir surface

E.H. 1000