

WATERPOWER OF THE UNITED STATES

State Alaska Stream Porcupine Creek Site Porcupine Creek 1592

| | | | | | |
|---------------------------------------|----------|-----------------------------|------------|---|--|
| County <u>First Judicial Division</u> | | | | Owner _____ | |
| Mer. _____ | T. _____ | R. _____ | Sec. _____ | Constructed _____ | |
| Lat. <u>57 °49.9 ' "</u> | | Long. <u>136 ° 21.0 ' "</u> | | Storage <u>20,000</u> of <u>24,669,800</u> m ³ | |
| Miles above mouth _____ | | | | Installed capacity _____ mw | |
| Drainage Area <u>9.2</u> sq. mi. | | <u>23.83</u> sq. km | | Installable capacity _____ mw | |

| FLOW | | | ELEVATIONS | | | | HEAD | | THEORETICAL POWER mw-100% Eff. | ESTIMATED AVERAGE ANNUAL GENERATION mwh |
|---------------------|-----|---------------------|------------|-------|----------|---|-------|-------|--------------------------------------|---|
| Percent duration | cfs | m ³ /sec | Forebay | | Tailrace | | Gross | | | |
| | | | ft. | m | ft. | m | ft. | m | | |
| 95 | 13 | 0.4 | 655 | 199.6 | 0 | | 655 | 199.6 | 0.72 | |
| 50 | 115 | 3.3 | | | | | | | 6.40 | |
| mean | 128 | 3.6 | | | | | | | 7.13 | 49,910 |

Remarks: **Chichagof Island - Sitka D-8**
2 units - one located on Elfendahl Lake diverts Lake Morris
2nd at mouth of Porcupine Creek

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State Alaska Stream Porcupine Creek Site Porcupine Creek 2592

| | | | | | |
|---|--|--|--|--|--|
| County <u>First Judicial Division</u> | | | | Owner _____ | |
| Mer. _____ T. _____ R. _____ Sec. _____ | Constructed <u>24,669,800</u> | | | Storage <u>20,000</u> of <u>4,669.8</u> m ³ | |
| Lat. <u>57° 49.9'</u> " Long. <u>136° 21.0'</u> " | Installed capacity _____ mw | | | Installable capacity _____ mw | |
| Miles above mouth _____ | Drainage Area <u>9.2</u> sq. mi. <u>23.83</u> sq. km | | | | |

| FLOW | | | ELEVATIONS | | | | HEAD | | THEORETICAL POWER mw-100% Eff. | ESTIMATED AVERAGE ANNUAL GENERATION mwh |
|------------------|-----|---------------------|------------|-------|-----------------------------|---|-------|-------|-----------------------------------|--|
| Percent duration | cfs | m ³ /sec | Forebay | | Tailrace | | Gross | | | |
| | | | ft. | m | ft. | m | ft. | m | | |
| 95 | 13 | .4 | 655 | 199.6 | 0 260 | | 655 | 199.6 | .724 | |
| 50 | 115 | 3.3 | | | | | | | 6403 | |
| mean | 128 | 3.6 | | | | | | | 7.13 7,126 | 49,910 |

Remarks: *2 units - one located on Elfridahl John devents Lake near
2nd at mouth of Porcupine Creek*

Subs P-8

RD

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OFFICE OF THE DIRECTOR