

WATERPOWER OF THE UNITED STATES

Elev. Do not agree with
USGS records.
USCE 1950

State Alaska Stream Susitna River Site Watana 2592

| | | | | | | | |
|--|--|--|--|--|--|-----------------------------|--|
| County _____ | | | | Owner _____ | | | |
| Mer. <u>Fairbanks T. 32 N</u> | | R. <u>6 E</u> | | Sec. <u>28-29</u> <u>32-33</u> | | Constructed _____ | |
| Lat. <u>62 ° 50</u> " | | Long. <u>148 ° 20</u> " | | Storage <u>400,000</u> ^{USCE 1950} of <u>493,396,000</u> m ³ | | Installed capacity _____ mw | |
| Miles above mouth <u>178.8</u> ^{49 -} <u>USCE 1950</u> <u>31 34</u> | | Drainage Area <u>5010</u> ^{USCE 1950} sq. mi. <u>12975.9</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 | 460 | 13.0 | 1990 | 606.6 | 1650 | 502.9 | 340 | 103.6 | 13.29 | |
| 50 | 2840 | 80.4 | | | | | | | 82.08 | |
| mean | 7990 | 226.2 | | | | | | | 230.91 | 1,616,370 |

Remarks: Talkeetna Mtns. D-3 2.7 miles downstream from Watana Cr. USCE 1950

Storage 1,254,000 of Total (USCE source) 400,000 of usable (1950)

1977 USCE = Watana / 810' Earthfill

Form 9-1503
(Feb. 1962)

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY

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14-JB

WATERPOWER OF THE UNITED STATES

State Alaska Stream Susitna Site Watana

County _____ Owner _____

Mer. _____ T. _____ R. _____ Sec. _____ Constructed _____

Lat. 62° 50' " Long. 148° 20' " Storage 400,000 of 493,396,000 m³

Miles above mouth _____ Installed capacity _____ mw

Drainage Area 5010 sq.mi. 12,999 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 | <u>460</u> | <u>13.0</u> | <u>1990</u> | <u>606.6</u> | <u>1650</u> | <u>502.9</u> | <u>340</u> | <u>103.6</u> | <u>13.29</u> | |
| 50 | <u>2840</u> | <u>80.4</u> | | | | | | | <u>82.08</u> | |
| mean | <u>7990</u> | <u>226.2</u> | | | | | | | <u>230.91</u> | <u>1,616,370</u> |

Remarks:

Prepared by _____ Date _____

Talhatra Intns D-3