

Site No. 19050002-144 TK
1/79

UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County _____ Site ELDRIDGE
 Location Sec 36 E1, T3 32 N 33 N R 3 W Seward Meridian Stream CHULITNA
 Planned by (date) USGS?
 Reference PSC 406 Alaska Special Map 26 Date 1940
 Quadrangle coverage TALKEETNA Mountains (D-6) ALASKA
 Land: Public _____ Private _____ Use: P, I, FC, MI, R

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|---|--|
| 65 alt = 1075 ✓ | |
| Dam: Height <u>125 feet</u> Length <u>2200 feet</u> | Undeveloped capacity <u>36.112 mw theoretical</u> |
| Normal pool altitude <u>1200 feet</u> | Percent efficiency _____ |
| Reservoir area _____ | Annual generation _____ |
| Storage capacity _____ | Plant factor _____ |
| Drainage area <u>998.5 square miles</u> | Mean flow <u>3398,79 cfs = 2,460,720 ac ft/yr</u> |
| Gross head _____ | Period of record <u>14 yrs (1975) gage 15292400 area ratio</u> |

Remarks: Runoff by comparison with gage 15292400 is probably too high because of large glaciers in the basin - comparison with gage 15292700 shows about 2 cfs/sg mi. About 2.5 cfs/sg mi seems more appropriate. Would need large storage to regulate river because glacier melt near zero in winter and high during summer.

Mean flow = 2500 cfs.

$Q_{50} = 2500 / 2.9 = 860$

Prepared by TK Date 12/78SR07/7812/78