

TK
Y7
Site No. 19050002-122

UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County _____ Site FOG CreekLocation Sec. 19, T31N, R5E Seward meridian Stream FOG CreekPlanned by (date) USGS (1950)Reference TALKESTWA MHS (1:250,000) ALASKA ALB-1950 Date _____Quadrangle coverage TALKESTWA MHS (D-4) ALASICA

Land: Public _____ Private _____ Use: P, I, FC, MI, R

WS alt = 1900	Dam: Height <u>200 ft</u> Length <u>1000 feet</u>	Q_{50} Power = 3.9 MW with d.w.
Normal pool altitude <u>2100 feet</u>	Reservoir area _____	Undeveloped capacity <u>3.794 mw - 11.004 mw</u>
Storage capacity <u>42,000 ac-ft</u>	Drainage area <u>144 square miles</u> <u>1.55 cfs/mi²</u>	Percent efficiency _____
Gross head <u>2100-1520 = 580 ft</u> <u>diversion = 3.2 miles</u>		Annual generation _____
		Plant factor _____
		Mean flow <u>223.2 cfs = 161,597 ac ft / yr.</u>
		Period of record <u>26 yr (1975) gage 15292000 estimated</u> <u>11 yr (1975) gage 15291500</u>

Remarks: Q_{50} (Est) = $223/2.81 = 80$ cfs based on Sus.tna (Watana, Devils Canyon)Storage too small to regulate mean flow - use Q_{50} flow for power.

(over)

Prepared by TK Date 7/78SKO
12/78

Area Capacity

Contour	Area	Capacity
1900	0	0
2000	130	6,500
2100	540	42,000