

Site No. 19050002-148 TK  
1/79

## UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County \_\_\_\_\_ Site TRoublesome  
 Location Sec 5, T28N, R5W, Seward Meridian Stream Chukitna  
 Planned by (date) USGS ?  
 Reference PSQ 406, Alaska Special Map 26 Date 1940  
 Quadrangle coverage TALKEETNA (C-1) ALASKA  
 Land: Public \_\_\_\_\_ Private \_\_\_\_\_ Use: P, I, FC, MI, R

<p><i>ws alt 480</i>          Dam: Height <u>220 feet</u> Length _____          Normal pool altitude <u>700 feet</u>          Reservoir area _____          Storage capacity _____          Drainage area <u>2523.5 square miles</u> <span style="float: right;"><i>3.404 cfs/mi<sup>2</sup></i></span>          Gross head _____</p>	<p><i>Q<sub>50</sub> = 55 MW</i>          Undeveloped capacity <u>160.628 MW theoretical</u>          Percent efficiency _____          Annual generation _____          Plant factor _____          Mean flow <u>8589.72 cfs - 6,218,957 ac ft/yr</u>          Period of record <u>14 yrs (1975) gage 15292400 area ratio</u></p>
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Remarks: *I don't think a reservoir to 700' would be good here - there would be excessive leakage in glacier moraine(?). Run-of-river may be OK*

$$Q_{50} = 8589 / 2.9 = 2960$$

Prepared by TK Date 12/78  
SR0 12/78