

Site No. 19050002-159 TK  
1/79

## UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County \_\_\_\_\_ Site Sentinal Rock  
 Location Section 10, T27N R1W Seward Meridian Stream TALKEETNA  
 Planned by (date) USGS (?)  
 Reference PSC 406 ALASKA Special Map No. 26 Date 1940  
 Quadrangle coverage TALKEETNA Mtns (B-5) ALASKA  
 Land: Public \_\_\_\_\_ Private \_\_\_\_\_ Use: P, I, FC, MI, R

<p><i>usalt = 825</i></p> <p>Dam: Height <u>175'</u> Length <u>525 feet</u></p> <p>Normal pool altitude <u>1000 feet</u></p> <p>Reservoir area <u>215.88 acres</u></p> <p>Storage capacity <u>14,392 acre feet</u></p> <p>Drainage area <u>857.9 square miles</u> <span style="float: right;"><i>2.037 cfs/mi<sup>2</sup></i></span></p> <p>Gross head _____</p>	<p><i>Q<sub>50</sub> = 7.4 mwd</i></p> <p>Undeveloped capacity <u>25.993 mwd theoretical</u></p> <p>Percent efficiency _____</p> <p>Annual generation _____</p> <p>Plant factor _____</p> <p>Mean flow <u>1747.45 cfs = 1,265,152 ac ft/yr</u></p> <p>Period of record <u>11 yrs (1975) gage 15292700, area rated</u></p>
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Remarks: *Without upstream storage this would have to be run-of-river and Q<sub>50</sub> should be used.*

*Q<sub>50</sub> = 1747 / 3.5 = 500 cfs*

Prepared by TK Date 12/78  
SRO 12/78