

Site No. 19050002-157 TK
4/79

UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County _____ Site TALKEETNA #2
 Location Section 1, T27N, R1W Seward Meridian Stream TALKEETNA River trib Susitna
 Planned by (date) _____
 Reference "Alaska, a reconnaissance Report... USBR pg Date 1949
 Quadrangle coverage TALKEETNA Mountains (B-5), ALASKA
 Land: Public _____ Private _____ Use: P, I, FC, MI, R

<p><i>ws alt = 970'</i></p> <p>Dam: Height <u>330 feet</u> Length _____</p> <p>Normal pool altitude <u>1300 feet</u></p> <p>Reservoir area <u>1120.52 acres</u></p> <p>Storage capacity <u>131,019 ac-ft</u></p> <p>Drainage area <u>849.3 square miles</u> <i>0.037 cfs/mi²</i></p> <p>Gross head _____</p>	<p style="text-align: center;"><i>Q₅₀ = 13.9 MW</i></p> <p>Undeveloped capacity <u>48.525 MW Theoretical</u></p> <p>Percent efficiency _____</p> <p>Annual generation _____</p> <p>Plant factor _____</p> <p>Mean flow <u>1729.73 cfs = 1,252,469 ac-ft/yr</u></p> <p>Period of record <u>11 yrs (1975) gage 15292700, area ratio</u></p>
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Remarks: *Unless there is sufficient upstream storage, a 131,000 ac-ft reservoir would not regulate river. If so, Q₅₀ should be used.*

$$Q_{50} = 1730 / 3.5 = 494$$

Prepared by TJK Date 12/78
5/20 12/78