

Site No. 19050003-32 TK
1/79

UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County _____ Site Tonsina LakeLocation Sections 13 & 18, T4S, R61 & 2 W, Copper River Meridian R.M. 30 Stream TONSINA River trib. Copper River

Planned by (date) _____

Reference "Interim Report No. 3, Copper River and Gulf Coast" USCE pg 107 Date 10/30/50Quadrangle coverage VALDEZ (1°X3°); Valdez (C-4)Land: Public _____ Private _____ Use: P, I, FC, MI, R

WS alt = 1930 report = 1887 QUAD	
Dam: Height <u>30 feet</u> Length _____	Undeveloped capacity <u>1458 MW - 49.106 MW theoretical</u>
Normal pool altitude <u>1887 + 30 = 1917 feet</u>	Percent efficiency _____
Reservoir area _____	Annual generation _____
Storage capacity <u>125,000 acft (110,000 usable)</u>	Plant factor _____
Drainage area <u>260 square miles</u>	Mean flow <u>576 (see card attached) 410,000 acft = 566 cfs, reg min flow = 356 cfs</u>
Gross head <u>1960 - 950 = 1010', 16.7 mile diversion (RM)</u>	Period of record _____

Remarks: If power house were located on TIEKEL River, head = 1960 - 1250 = 710 feet, 10 mile diversion, T. power = 34.52 MW theoretical
 "Mineral & Water Resources of Alaska" USGS & State of Alaska, 1964, pg 172
 "Water Resources Development By the Corps of Engineers" USACE, 1965, pg 34-35.

Prepared by TK Date 10/78