TK
1/79

Site No. 19050002·145

UNDEVELOPED HYDROELECTRIC SITE

State ALASKA County _____ Site RUTH

Location Sec. 8, , T32N, R3W Seward Meridian Stream CHULITNA River

Planned by (date) USGS ?

Reference PSC 406 Alaska Special Map 26 Date 1960

Quadrangle coverage TALKEETNA mtns (D-6) Alaska

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

ws alt = 1000' Dam: Height 100' Length 800 feet	Q_{50} = 7.6 MW Undeveloped capacity 30.264 mw theoretical
Normal pool altitude 1100'	Percent efficiency
Reservoir area	Annual generation
Storage capacity	Plant factor
Drainage area 1046 square miles 3.404 cfs/sq mi	Mean flow 3560.47 cfs = 2,577,780 ac ft/yr
Gross head	Period of record 14 yrs (1975) gage 15292400 area ratio

Remarks: Runoff by comparison with gage 15292400 is probably too high because of large glaciers in the basin - comparison with gage 15292700 shows about 2 cfs/sq mi. About 2.5 cfs/sq mi seems more appropriate. Large storage would be needed to regulate flow because large flows occur only in summer.

Mean flow = 2600 cfs

Q_{50} = 2600/2.9 = 900 cfs

Prepared by TK Date 12/78 7/78

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