

Form 9-1503

(Feb. 1962)

U.S. DEPARTMENT OF INTERIOR

GEOLOGICAL SURVEY

1902 0002

145

Basin Index 14-AKuzitrin River

WATERPOWER OF THE UNITED STATES

State AlaskaStream Imiruk BasinSite Tuksuk Gorge

2592

County _____				Owner _____			
Mer. _____ T. _____ R. _____ Sec. _____				Constructed _____			
Lat. <u>65</u> ° <u>13</u> ' " Long. <u>166</u> ° <u>01</u> ' "				Storage <u>2,500,000</u> of <u>308,372,500,000</u> m ³			
Miles above mouth _____				Installed capacity _____ mw			
Drainage Area <u>4,120</u> ^{H323 APA} sq. mi. <u>10,671</u> sq. km				Installable capacity _____ mw			

H3000E

KBR

4,946,000 of 2

3138 cfs

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m³/sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	85	2.4	200	61.0	0	0	200	61.0	1.45	
50	700	19.8							11.90	
mean	3138	88.9							53.35	373,450

Remarks:

Teller A-3

1,880,000 of (APA) = 2593 cfs

Gage on Kuzitrin River, Drain area 1720 sq miles, 11 years through 1973 = 1222 cfs
 4200 x .71 = 2984 cfs or .71/sq mile

1968 Alaska Power Administration No. 5

Prepared by

GCG

Date

2900 cfs = 2,62,500 of

over

Open file Report 76-513

Norfan Sound subarea mean annual
runoff 1 ft³/s per mi.². Major portion
of Takasah Channel are 2 ft³/s per mi.²

$$\begin{array}{r} DA \quad 4120 \\ \quad 4275 \\ \hline 2 \overline{) 8395} \\ \quad 4198 \end{array}$$

$$\approx 4200 \times 1.5 = 6300 \text{ ft}^3/\text{s}$$

$$\begin{array}{l} DA \quad 4100 = 6150 \\ DA \quad 4300 = 6450 \end{array}$$

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U.S. DEPARTMENT OF INTERIOR

GEOLOGICAL SURVEY

Basin Index

145 ✓ 223
14-17A

WATERPOWER OF THE UNITED STATES

State Alaska

Stream

Kuzitria River
Tuksuk Gorge

Site

Tuksuk Gorge

2592

County

Owner

Mer. 65 T. 13 R. 01 Sec. 1

Constructed

Lat. 65 ° 13 ' " Long. 166 ° 01 ' "Storage 2,500,000 of 308,372,500,000 m³

Miles above mouth

Installed capacity

mw

Drainage Area 4120 sq. mi. 10671 sq. km

Installable capacity

mw

10.25

FLOW			ELEVATIONS				HEAD		THEORETICAL POWER mw-100 % Eff.	ESTIMATED AVERAGE ANNUAL GENERATION mwh
Percent duration	cfs	m ³ /sec	Forebay		Tailrace		Gross			
			ft.	m	ft.	m	ft.	m		
95	85	2.4 ✓	200	61.0	0	0	200	61.0	1.45 867	
50	700	20.0 ^{19.8} ✓							11.90 7140	
mean	3138	88.9 ✓							53.35 32007	373 450

Remarks:

Prepared by _____ Date _____

Teller A. 3