

WATERPOWER OF THE UNITED STATES

State Alaska Stream Chatanika River Site Shovel Creek 2592

County _____ Mer. _____ T. _____ R. _____ Sec. _____ Lat. <u>65</u> ° <u>02</u> ' " Long. <u>148</u> ° <u>27</u> ' " Miles above mouth _____ Drainage Area <u>726</u> sq. mi. <u>1880.3</u> sq. km	Owner _____ Constructed _____ Storage <u>170,000</u> af <u>209,693,300</u> m ³ Installed capacity _____ mw Installable capacity _____ mw
--	---

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	52	1.5	545	166.1	405	123.4	140	42.7	0.62	
50	300	8.5							3.57	
mean	680	19.3							8.09	56,630

Remarks: **Total storage 973,600 acre-feet**

Livengood A-3 quadrangle

Form 9-1503
(Feb. 1962)

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY

Basin Index _____

WATERPOWER OF THE UNITED STATES

166 223
14-CF

State Alaska Stream Chatanika River Site Shovel Creek 2592

County _____ Owner _____
Mer. _____ T. _____ R. _____ Sec. _____ Constructed _____
Lat. 65° 02' " Long. 148° 27' " Storage 170,000 af 209,693,300 ✓ m³
Miles above mouth _____ 1880.3 Installed capacity _____ mw
Drainage Area 726 sq.mi. 2141.7 sq.km Installable capacity _____ mw

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	52	1.5	545	166.1	405	153.9	140	42.7	0.619	.62
50	300	8.5				123.4			3.570	
mean	680	19.3							8.092	56.630

Remarks:

Total storage 973,600 ac-ft

Prepared by _____ Date _____

Jervord A-3