

Form 9-1503
(Feb. 1962)

U.S. DEPARTMENT OF INTERIOR
GEOLOGICAL SURVEY

19030004

Basin Index 165 **14 CF**

WATERPOWER OF THE UNITED STATES

State **Alaska - Nenana** Stream **Teklanika River** Site **Teklanika** 2592

County _____	Owner _____
Mer. _____ T. _____ R. _____ Sec. _____	Constructed _____
Lat. 63 ° 59 ' " Long. 149 ° 33 ' "	Storage 160,000 of 197,358,400 m ³
Miles above mouth _____	Installed capacity _____ mw
Drainage Area 508 sq.mi. 1316 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	48	1.4	1720	524.3	1295	394.7	425	129.5	1.73	
50	310	8.8	<small>280 1470</small>						11.20	
mean	690	19.5							24.93	174,510

Remarks:

**Total storage 275,000 acre-feet
Plan includes about 4 miles of tunnel**

Healy D-6 quadrangle

Prepared by **GCG** Date _____

14-CE

WATERPOWER OF THE UNITED STATES

State Alaska Stream Teklanika River Site Teklanika 2592

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Mer. _____ T. _____ R. _____ Sec. _____	Constructed _____
Lat. <u>63° 59'</u> " Long. <u>149° 33'</u> "	Storage <u>160,000</u> of <u>197,358,400</u> m ³ ✓
Miles above mouth _____	Installed capacity _____ mw
Drainage Area <u>508</u> sq. mi. <u>1316</u> ✓ sq. km	Installable capacity _____ mw

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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	48	<u>1.4</u> ✓	<u>1720</u>	<u>524.3</u>	<u>1295</u>	<u>394.7</u>	<u>425</u>	<u>129.5</u>	<u>1,734</u> ✓	
50	310	<u>8.8</u> ✓							<u>11,199</u> ✓	
mean	690	<u>19.5</u> ✓							<u>24,926</u> ✓	<u>174,510</u> ✓

Remarks:

*Total storage 275,000 ac ft.
Plan includes about 4 miles tunnel*

Healy D-6