

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION

EKLUTNA PROJECT - ALASKA
ANNUAL PROJECT HISTORY

Calendar Year 1957

VOLUME VII

NARRATIVE STATEMENT

The Eklutna Powerplant generated 154,340,000 KWH during the year 1957 of which 709,500 KWH were used for station service. A balance of 153,630,500 KWH were available for transmission. 5,817,763 KWH transmission losses resulted in a delivery of 147,812,737 KWH to customers.

The maximum load on the plant during the year was 33,000 KW which is a utilization factor of 110%.

217,083.94 AF of water was used through the turbines during the year and 80,484.48 AF were spilled during the months of July, August and September.

Unit No. 1 was started 174 times during the year and operated 6,986.6 hours. Unit No. 2 was started 189 times and operated 7,016.3 hours.

The annual inspection and overhaul of Unit No. 1 was completed on May 27, and that of Unit No. 2 on October 15. It was necessary to replace the turbine packing in Unit No. 1 on October 17. No other major repairs were necessary.

A high rate of flow in the Matanuska River, which had changed its channel in the late summer of 1956, washed out structure 2/7 on June 3. A three-man repair crew in an attempt to raise the conductor to temporary supports capsized the boat in which they were working, and had to be rescued by helicopter by the Tenth Air Rescue stationed at Elmendorf Air Force Base. Service was furnished the Palmer Area after a slight delay while Matanuska Electric Association crews completed minor items from the Reed Substation at Old Eklutna.

The annual Lake George breakup started unusually early (July 12) and again threatened the Eklutna-Palmer 115 kv line. Fortunately it withstood the flood but considerable washing around the structures further indicated a need to expedite relocating the section of the line between the Knik and Matanuska Rivers.

The 5,000 kva Reed Substation at the Old Eklutna Plant was finished in May. Matanuska Electric Association uses the 12,470V circuit from this substation to feed the Chugiak-Eagle River Area and the 34.5 circuit as an emergency standby source of power for the Palmer-Matanuska Valley Area.

A contract was let for the erection of an additional bay at Anchorage Substation to serve the Chugach Electric Association on two circuits. It will be financed on an amortization plan by Chugach

WATER SUPPLY REPORT

To Commissioner, Washington D.C. Attention: 400 (Orig.) **Air Mail** Region Alaska District
 Commissioner's Office - Denver, Colo. Attention 758 (Copy) **Air Mail** Project Eklutna
 District Manager, Juneau, Alaska (Copy) **Air Mail** Water Supply Prospects At End Of June 1957

A. RESERVOIR DATA

Reservoir	Reservoir Elevation		Active Storage 1,000 A.F.	Monthly Total		Outlook	Precipitation	
	Feet	Date and time		Outflow 1,000 AF	Inflow 1,000 AF		Inches	Percent of Normal
Eklutna Lake	850.86	6/28/57 10:00 A.M.	107.900 (1)	18.23627 (2)	59.23627	Excellent	1.02	74

Remarks: (1) Total storage 130,000 A.F. less 22,100 A.F. inactive storage.
 (2) All turbine use. No spill.

B. IRRIGATION DATA

Division or Unit	Prospects for Irrigation Water To Mature Crops		Remarks
	This Year	Future Years	

Submitted By

NAME
James B. Hamlin

Project Superintendent

TITLE

July 1, 1957

DATE

WATER SUPPLY REPORT

To Commissioner, Washington D.C. Attention: 400 (Orig.) **Air Mail** Region Alaska District
 Commissioner's Office - Denver, Colo. Attention 758 (Copy) **Air Mail** Project Eklutna
 District Manager, Juneau, Alaska (Copy) **Air Mail** Water Supply Prospects At End Of December 1957

A. RESERVOIR DATA

Reservoir	Reservoir Elevation		Active Storage 1,000 A.F.	Monthly Total		Outlook	Precipitation	
	Feet	Date and time		Outflow 1,000 A.F.	Inflow 1,000 A.F.		Inches	Percent of Normal
Eklutna Lake	860.38	10:00 A.M. 12-30-57	137.1 (1)	19,49776 (2)	4.698	Excellent	1.10	157

Remarks: (1) Total storage of 159,200 A.F. less 22,100 A.F. inactive storage.
 (2) All turbine use. No spill.

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B. IRRIGATION DATA

Division or Unit	Prospects for Irrigation Water To Mature Crops		Remarks
	This Year	Future Years	

Submitted By

Project Superintendent

January 2, 1958

NAME
James B. Hamlin

TITLE

DATE

UNITED STATES
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 BUREAU OF RECLAMATION - ALASKA DISTRICT
 EKLUTNA POWERPLANT
 STORAGE AND WEEKLY POWER RELEASE
 - 1957 -

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