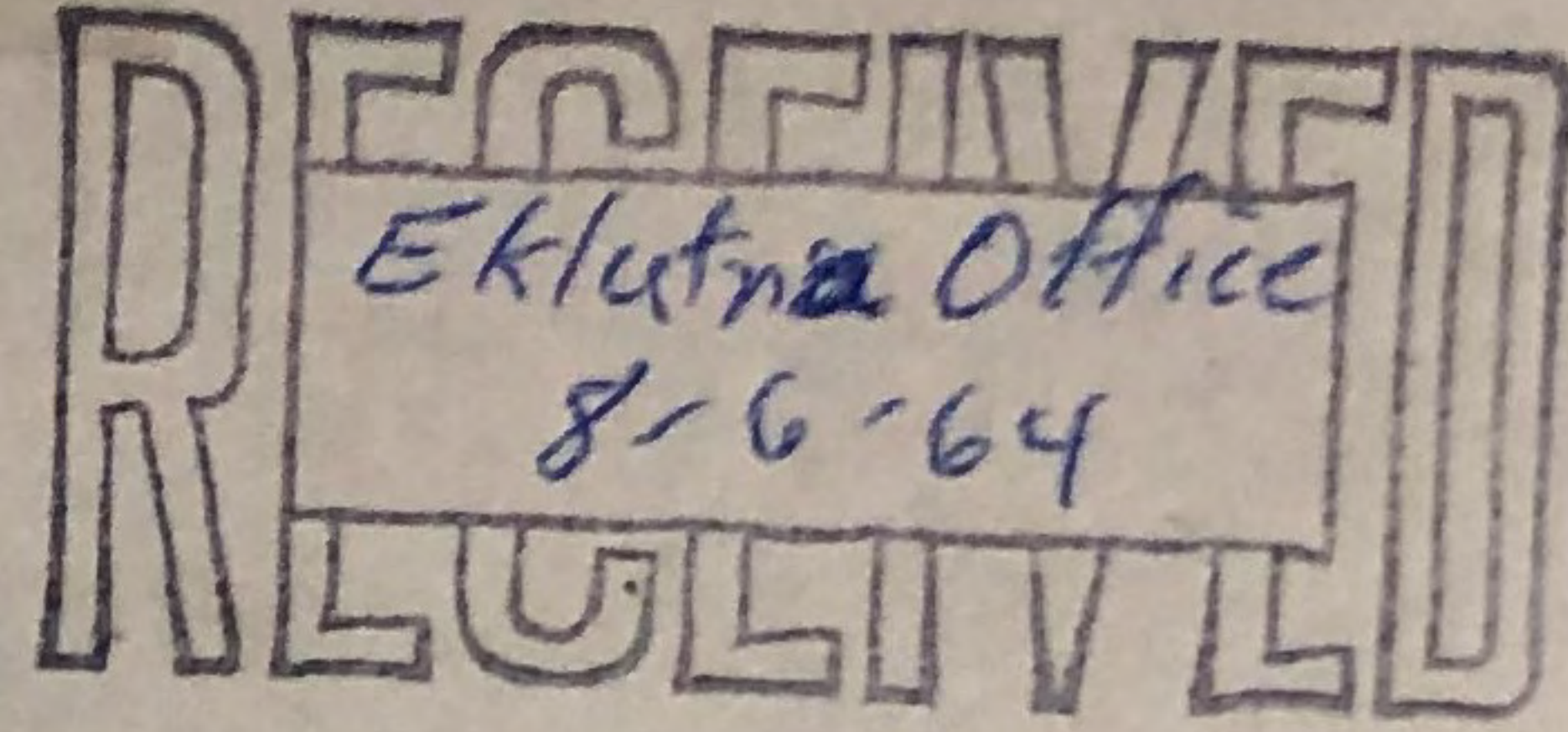


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UNITED STATES
DEPARTMENT OF THE INTERIOR
Bureau of Reclamation

Eklutna Project
Annual Project History

Calendar Year 1963

Volume XIII

NARRATIVE STATEMENT

POWER PLANT

The Eklutna Power Plant generation and distribution figures for calendar year 1963 are as follows:

Gross generation	156,541,000 kwh
Station Service Use	649,000 kwh
Net Generation	155,892,000 kwh
Transmission Losses	4,541,791 kwh
Sales to Customers	129,615,946 kwh
Non Firm Power	21,734,263 kwh

The maximum load on the plant was 35,000 which is a utilization of 117%.

217,442 acre-feet of water were used through the turbines during the year and none was spilled. This gives a water factor of 100%.

Unit No. 1 was started 125 times during the year and operated 7,439.9 hours, generating 87,914,000 kwh. Availability factor was 99.9%.

Unit No. 2 was started 128 times during the year and operated 6,029.8 hours, generating 68,627,000 kwh. Availability factor for the year was 82.6%.

Unit No. 2 was given a major overhaul. The attached overhaul report gives the details of the overhaul.

Unit No. 1 was not overhauled due to the lack of time. It is planned to overhaul this unit at approximately the same time in 1964. It is believed that the condition will be found quite similar to Unit No. 2.

Most of the radio equipment has been received. Only the mobile radios have been installed. The base stations will be installed early in 1964. The Mirror Lake relay building was completed during the summer.

Some minor changes have been made in the power plant. Some of which are as follows:

DRAINAGE AND LAKE

Lake elevation at the end of the water year on October 1, 1963 was 865.4 and the highest elevation was 866.8 on September 13, 1963. The elevation was low at the beginning of the year so that KWH allocations were held down and with one unit down the elevation increased.

The ditch, which was made two years ago to divert a small stream below the dam, was extended a short distance to pick up another small intermittent stream.

A number of minor maintenance and repair jobs were completed in the cabin and dam area. Also seven plastic-filled drums were anchored around the tunnel intake as a safety warning for boats.

The snow markers were repaired and two new ones set up. Readings were made regularly through the winter. The operation of the heated precipitation gage was unsatisfactory due to burner failure.

The Bureau of Land Management started to build four camp grounds around the lake but they were not finished at the end of the summer. They also applied for a large withdrawal of land in the drainage area for recreation and cabin sites.

The State Highway Department graded the road and installed several culverts during the summer. The road was in fairly good condition all summer and winter.



P783-908-2198 - Eklutna Project, Alaska
View of Eklutna Dam showing leakage flow
below dam.
9/63 - USBR Photo by Tauno Lappi



P783-908-2204 - Eklutna Project, Alaska
Eklutna Dam gate structure showing lake
level.

9/63 USBR - Photo by Tauno Lappi