

Irrigation Water Will Be Used for Power

Copco Project in Eagle Point Area Will Cost \$500,000

Irrigation water that formerly spilled uselessly hundreds of feet through ravines to get to laterals on the valley floor, will soon be used to provide power for a 2,813 kw generating plant in the Eagle Point area according to Frank Benesh, district manager of California Oregon Power company.

The \$500,000 project will use the water from a high-level ditch which crosses Nichols' gap about four miles north of Eagle Point, owned by the Eagle Point Irrigation company. The right to utilize the water was granted to Copco in exchange for maintenance of the ditch above the power plant site to the source of the water on Big Butte creek.

1,880-Foot Penstock
The water will be collected in a small forebay high on the hillside and will be carried through a 42-inch steel pipe, or penstock, to the generating plant below. The penstock is 1,880 feet long, with a total drop of 435 feet. It is plainly visible from the Camp White area.

The water turbine, rated at 3,900 horsepower, is a Francis horizontal-generator and will turn a 2,813 kw generator. Power will be generated at 2,400 volts and will be "stepped up" to 132,000 volts through a three-phase transformer to connect with a nearby transmission line, according to Benesh.

Automatic Unit
The unit will operate on a constant flow of water and will be unattended except for periodic inspection. Automatic features will shut it down in case of malfunction.

After the water is used to generate the power it will be fed back into the irrigation laterals. In order to get the water to an advantageous point for the downhill shoot, it was necessary for Copco to build seven miles of ditches in addition to the relocation of 1,800 feet of canal at the bottom.

Construction was begun last fall, Benesh said, and it will be completed about Oct. 1.

Drought Conditions Could Be Trouble For Soviet Leader

Washington — Drought and other unfavorable weather conditions may make deep cuts in Russia's farm crops this year, experts said today.

If rains don't come soon to wide areas of the Soviet Union, the farm situation could mean considerable trouble for Soviet Communist Party Leader Nikita Khrushchev. He has been bragging about rising Soviet farm output and predicted big things in Soviet agriculture for this year.

Experts have seen trouble signs for Soviet agriculture cropping up in the Soviet press in recent weeks. The Russians have been complaining about poor planning to provide combines and other farm machinery for duty in grain fields.

U. S. experts on Soviet agricultural problems are watching and studying a variety of reports that Soviet crops also are being hurt by drought and heat waves.

Shortage of Rainfall
There seems to be a shortage of rainfall in important farm areas of the northern Caucasus, southern Ukraine, Volga area and in Kazakhstan.

A poor year on Soviet collective farms could hurt Khrushchev politically. For years he has been overlord of Soviet agriculture. There were widespread reports that differences over agricultural policies was brought up prior to the recent Kremlin shakeup. An agriculture setback now would give Khrushchev's opponents powerful new arguments against him.

Fate of Hungarian Refugees Discussed

Belgrade — Rep. Francis Walter (D-Pa.) and U. S. immigration chief Gen. Joseph Swing met Wednesday with Dobrovoje Vidic, Yugoslav undersecretary for foreign affairs, to discuss the fate of Hungarian refugees still in Yugoslav camps.

U. S. Ambassador James Riddleberger also attended the talks.



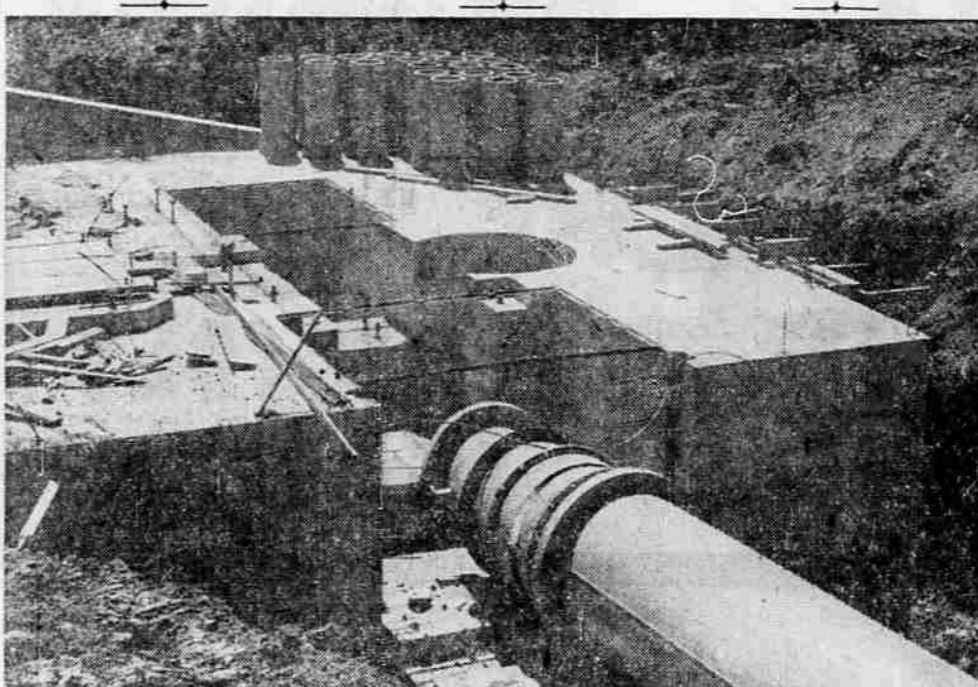
POWER PLANT EQUIPMENT—Copco employees George Bryant and Don House stand beside the 132,000 volt transformer that will soon be installed at the Eagle Point power plant now being built by Copco in the Nichols' gap area. Also pictured is the turbine that will be powered by the 435-foot head of water from an irrigation canal. The plant will operate under a constant flow of water and will provide part of the company's "base" power load.



UPPER END OF PENSTOCK—At this point, more than 400 feet higher than the new Eagle Point power plant, water will be collected in a small forebay for its 1,880-foot shoot to the turbine at the bottom. Workmen, above, who are completing forms at the opening of the penstock, had to board up the hole to keep back the gale of hot air that escaped from the pipe during the day. The penstock disappears from sight in the picture where it starts down the hill at a steeper angle.



LOWER END OF PENSTOCK—Like a giant snake lying on the steep hillside, the 42-inch steel penstock will carry water to the new generating plant in the Nichols gap area north of Eagle Point. The water will come from an irrigation canal owned by the Eagle Point Irrigation company. Energy from the water had formerly gone to waste as it cascaded down a series of drops to reach distribution laterals at a lower level. Permission to use the water was granted to Copco in exchange for maintenance of the ditch above the site. The water comes from Big Butte creek.



POWER PLANT BASE—This concrete foundation block, at the foot of the 1,880 foot penstock, will support the new power plant being built by Copco in the Nichols gap area north of Eagle Point. A horizontal type turbine will be mounted directly to the penstock and discharge water will be carried to a bay, or small storage reservoir, before going into irrigation ditches for distribution. Electrical power will be generated at 2,400 volts and will be transformed to 132,000 volts to connect with a nearby Copco transmission line.

Below Normal Temperatures in August Predicted

Washington — The Weather Bureau forecasts below normal temperatures and normal or above rainfall for most of the nation during August.

The 30-day outlook calls for temperatures to average below seasonal normals from the Ohio and lower Mississippi valleys eastward to the Atlantic seaboard.

Below normal is also predicted for central and northern areas west of the Continental Divide.

Hotter Than Usual
But it will be hotter than usual in the central third of the nation with the greatest departures over the northern plains. Near normal is indicated elsewhere.

Over most areas east of the Appalachians normal or above

normal precipitation is forecast. This should bring relief from the drought in this area, the bureau said.

More than usual rainfall also is anticipated over the southern plateau and coastal areas of the Pacific Northwest. Subnormal rainfall is indicated for the central and southern plains. Elsewhere rain will be about normal.

Weather Conditions Cause Delay of Test

Las Vegas, Nev. — Detonation of a "below normal" nuclear device from a 500-foot tower has been delayed another 24 hours because of weather conditions.

The Atomic Energy Commission Wednesday for the third time re-scheduled the shot — 11th in the summer test series — for 4:45 a. m. p. d. t. Friday. Scientists said predicted winds today would have carried fallout over the populated areas of Pioche and Alamo, Nev.

With an area of about 386,000 square miles, Egypt is more than three times the size of the British Isles.

Dietitian Appointed At Camp White

Camp White—Gladys J. McCracken has been appointed dietitian of the VA Domiciliary at Camp White to succeed Mrs. Helen L. Pearson, who has been transferred to the VA hospital at Murfreesboro, Tenn.

Miss McCracken comes to Camp White from the VA hospital at Perry Point, Md., and will assume her new duties Aug. 11. She plans to live in Medford.

Mrs. Pearson has been in charge of the dietetic service for the past two and a half years, following the resignation of Mrs. Franklin Girard.

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Loggers' Championships Slated at Plumas Fair
Quincy, Calif. — Prizes totaling \$3,000 will be awarded winners of the Pacific Coast Logger's championships to be staged at the Plumas county fair the evening of Aug. 10 at Quincy. Martin Hedrick, who has held the all-round woodman's championship for the past two years,

is expected to defend his title. Competition will be in one-man saw bucking, hand chopping, limbing, axe throw, and other classes. Information is available by writing O. B. Brown, Plumas County Fair office, Quincy. Deadline for entries is 9 a.m. Aug. 7, he said.

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