UNITED STATES OF AMERICA
FEDERAL POWER COMMISSION

Before Commissioners: Joseph C. Swidler, Chairman; L. J. O'Connor, Jr.,
Harold C. Woodward, and David S. Elack

Placer County Water Agency ) Project No. 2079

ORDER APPROVING REVISED PROJECT EXHIBITS

(Issued April 17, 1964)

On January 22, 1964, Placer County Water Agency, licensee for Proj-
ext No. 2079, filed for Commission approval revised Exhibits J and L
drawings for the French Meadows development of the project. The filings,
which were made pursuant to Articles 2 and 3 of the license, provide for
the elimination of the surge shaft near the downstream portal of the
French Meadows-Hell Hole Tunnel.

Through studies made by Pacific Gas and Electric Company, contractor
for the purchase of the project power output, PG&E developed definite
criteria for the operation of French Meadows development. On the basis
of such criteria, the Licensee concluded that the surge shaft is not
necessary for the operation of the French Meadows plant and related
facilities; that its elimination will not impair the safe operation of
the unit or diminish that plant's or the project’s capacity to produce
electric energy; and that such elimination will result in an estimated
reduction of $240,000 in the project’s capital cost.

Commission staff have reviewed the submitted designs and surge
calculations and conclude that the elimination of the surge shaft
from the proposed French Meadows-Hell Hole Tunnel is not detrimental
to project operation and in view of the use of a relief valve at the
turbines, will not result in excessive positive or negative pressures
under normal load acceptance and normal or emergency load rejection
operating conditions. The licensee's reduction of $240,000 in the esti-
mated capital cost of the project is reasonable.

The Commission finds:

(1) The following revised exhibits conform to the Commission's
rules and regulations and should be approved as part of the license for
the project:

Exhibit J Sheet 1 revised January 13, 1964 (FFC
No. 2079-184) entitled "General Project Map."
Exhibit L Sheet 3, revised January 13, 1964 (FPC No. 2079-165) entitled "French Meadows - Hell Hole Tunnel - Plan and Profile."

Exhibit L Sheet 9, revised January 13, 1964 (FPC No. 2079-166) entitled "French Meadows Power Plant and Penstock."

(2) The following described exhibits, now part of the license and which have been superseded are hereby eliminated from the license for the project:

Exhibit J Sheet 1, revised August 1, 1962 (FPC No. 2079-111) entitled "General Project Map."

Exhibit L Sheet 8, revised August 1, 1962 (FPC No. 2079-138) entitled "French Meadows - Hell Hole Tunnel - Plan and Profile."

Exhibit L Sheet 9, revised August 1, 1962 (FPC No. 2079-139) entitled "French Meadows Power Plant - Penstock and Surge Shaft."

The Commission orders:

The revised exhibits described in finding (1) above are hereby approved as part of the license for Project No. 2079, and the exhibits described in finding (2) above as being superseded are hereby eliminated from the license.

By the Commission.

Joseph H. Gutride,
Secretary.
ORDER APPROVING REVISED PROJECT EXHIBITS

(Issued January 13, 1964)


The licensee has made additional studies since the issuance of the license and has made modifications in the design of the project. The changes which are reflected in the exhibits would:

(1) Relocate Palston Afterbay Dam about 1,200 feet downstream on the Middle Fork of the American River and change the dam from a composite and earth-fill dam about 80 feet high with a crest length of 625 feet at elevation 1190 feet to a concrete gravity dam about 75 feet high with a crest 550 feet long at elevation 1100 feet; revise the length and diameter of the Oxbow tunnel from a 15-foot horse-shoe tunnel 1320 feet long connecting to an 11-foot in diameter steel penstock extending about 100 feet to the Oxbow Powerhouse, to a 13-1/8-foot tunnel 903 feet long terminating at the penstock of 60-foot length; and make minor revisions in the Oxbow Powerhouse turbine setting and capacity; and

(2) two other changes in the project boundaries primarily due to minor relocations of diversion dams on the North and South Forks of Long Canyon and realignment and minor relocations of tunnels and access roads.

The licensee has advised the Commission that further geologic studies and explorations revealed subsurface conditions that made desirable the proposed relocations, and that the proposed minor changes in the Oxbow Powerhouse turbine setting reflect the additional information furnished the licensee by turbine manufacturers.
The Department of Agriculture, in commenting on the application, advised that no special conditions for the adequate protection and utilization of National Forest land are deemed necessary, other than those already included in the license for the project.

The proposed changes result generally in improvements in the design of the project. No changes in the installed horsepower capacity of the project are herein involved. The Commission has reserved the right in the license to determine at a later date the amount of annual charges to recompense the United States for the use, occupancy, and enjoyment of its lands.

The Commission finds:

(1) Exhibit J, Sheets 1, 2, and 3 (FPC Nos. 2079-171, 172 and 173), Exhibit K, Sheets 17, 21, 24, 27, 28, 39, 40 and 41 (FPC Nos. 2079-174 through 182), and Exhibit L, Sheet 31A (FPC No. 2079-183) — all revised June 14, 1963 — conform to the Commission's rules and regulations and should be approved as part of the license for the project.

(2) Exhibit J, Sheets 1, 2, and 3 (FPC Nos. 2079-111, 112, and 113), Exhibit K, Sheets 17, 21, 24, 27, 28, 39, 40, and 41 (FPC Nos. 2079-114, 121, 128 through 134), and Exhibit L, Sheet 31A (FPC No. 2079-156), which are now part of the license and which have been superseded, should be eliminated from the license for the project.

The Commission orders:

(A) The revised exhibits described in finding (1) above are hereby approved as part of the license for Project No. 2079.

(B) The superseded exhibits described in finding (2) above are hereby eliminated from the license for the project.

By the Commission.

Joseph H. Curbide, Secretary.