STATE OF CALIFORNIA
THE RESOURCES AGENCY
STATE WATER RESOURCES CONTROL BOARD

DIVISION OF WATER RIGHTS

ORDER

APPLICATION 20072 PERMIT 13773 LICENSE

ORDER APPROVING A NEW DEVELOPMENT SCHEDULE
AND AMENDING PERMIT

WHEREAS:

1. A petition for extension of time within which to develop the project and apply the water to the proposed use has been filed with the State Water Resources Control Board.

2. It appears that the permittee has proceeded with diligence and that good cause has been shown for extension of time.

NOW, THEREFORE, IT IS ORDERED THAT:

1. A new development schedule is approved as follows:

CONSTRUCTION WORK SHALL BE COMPLETED ON OR BEFORE	DECEMBER 1, 1981
APPLICATION OF THE WATER TO THE PROPOSED USE SHALL BE COMPLETED ON OR BEFORE	DECEMBER 1, 1985

2. Paragraph 9 of the permit be amended to read as follows:

Pursuant to California Water Code Sections 100 and 275, all rights and privileges under this permit and under any license issued pursuant thereto, including method of diversion, method of use, and quantity of water diverted, are subject to the continuing authority of the State Water Resources Control Board in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water.

The continuing authority of the Board may be exercised by imposing specific requirements over and above those contained in this permit with a view to minimizing waste of water and to meeting the reasonable water requirements of permittee without unreasonable draft on the source. Permittee may be required to implement such programs as (1) reusing or reclaiming the water allocated; (2) using water

16283-997 11-67 2M OSP

reclaimed by another entity instead of all or part of the water allocated; (3) restricting diversions so as to eliminate agricultural tailwater or to reduce return flow; (4) suppressing evaporation losses from water surfaces; (5) controlling phreatophytic growth; and (6) installing, maintaining, and operating efficient water measuring devices to assure compliance with the quantity limitations of this permit and to determine accurately water use as against reasonable water requirements for the authorized project. No action will be taken pursuant to this paragraph unless the Board determines, after notice to affected parties and opportunity for hearing, that such specific requirements are physically and financially feasible and are appropriate to the particular situation. (0000012)

3. Paragraph 16 be added to the permit as follows:

The quantity of water diverted under this permit and under any license issued pursuant thereto is subject to modification by the State Water Resources Control Board, if, after notice to the permittee and an opportunity for hearing, the Board finds that such modification is necessary to meet water quality objectives in Water Quality Control plans which have been or hereafter may be established or modified pursuant to this paragraph unless the Board finds that (1) adequate waste dicharge requirements have been prescribed and are in effect with respect to all waste dischargers which have any substantial effect upon water quality in the area involved, and (2) the water quality objectives cannot be achieved solely through the control of waste discharges. (0000013)

Dated: MAY 30 1979

Walter G Pettit
for Michael A. Campos, Chief
Division of Water Rights

FILE IN DUPLICATE

[For full information concerning the filling out of this form refer to Article 4 of Rules and Regulations Pertaining to Appropriation of Water]

STATE OF CALIFORNIA—STATE WATER RIGHTS BOARD

Application No. 20072 Filed April 6, 1961 at 3:34 P.M.
(Applicant must not fill in the above blanks)

APPLICATION TO APPROPRIATE UNAPPROPRIATED WATER

AMENDED APPLICATION RECEIVED 7-17-61

I, Nevada Irrigation District
Name of applicant

of 144 South Auburn Street, Grass Valley, County of Nevada
Address

State of California, do hereby make application for a permit to appropriate the following described unappropriated waters of the State of California, *SUBJECT TO VESTED RIGHTS:*

Source, Amount, Use and Location of Diversion Works

1. The source of the proposed appropriation is Middle Yuba River
Give name of stream, lake, etc., if named; if unnamed state nature of source and that it is unnamed

located in Nevada County, tributary to Yuba River thence Feather River thence Sacramento River

2. The amount of water which applicant desires to appropriate under this application is as follows:

(a) For diversion to be directly applied to beneficial use _____ cubic feet per second, to be diverted from _____ to _____ of each year.
1 cubic foot per second equals 40 statute miner's inches or 646,317 gallons per day
Beginning date — Closing date

(b) For diversion to be stored and later applied to beneficial use 50,000 acre-feet per annum, to be collected between ~~January 1~~ October 1 of each year and ~~December 31~~ June 30 of succeeding year ~~of each season.~~ See D 1095
1 acre-foot equals 325,851 gallons
Beginning date — Closing date

NOTE.—Answer (a) or (b) or both (a) and (b) as may be necessary. If amount under (a) is less than .025 cubic foot per second, state in gallons per day. Neither the amount nor the season may be increased after application is filed. If underground storage is proposed a special supplemental form will be supplied by the State Water Rights Board upon request.

3. The use to which the water is to be applied is Power
Domestic, irrigation, power, municipal, mining, industrial, recreational
_____ purposes.

SEE INSERT

4. The point of diversion is to be located N 70° 45' W, 1940 feet from SE corner of Section 18,
State bearing and distance or coordinate distances from section or quarter section corner

T19N, R13E, MDB&M,

being within the SW¼ of SE¼
State 40-acre subdivision of public land survey or projection thereof

of Section 18, T. 19N, R. 13E, M.D.B. & M., in the County of Nevada

5. The main conduit terminates in NW¼ of NE¼ of Sec. 6, T. 15N, R. 10E, M. D. B. & M.
State 40-acre subdivision of U. S. Government survey or projection thereof

Description of Diversion Works

NOTE.—An application cannot be approved for an amount grossly in excess of the estimated capacity of the diversion works.

6. Intake or Headworks (fill only those blanks which apply)

(a) Diversion will be made by pumping from _____
Sump, offset well, unobstructed channel, etc.

(b) Diversion will be by gravity, the diverting dam being 190 feet in height (stream bed to level of overflow); 1330 feet long on top; and constructed of earth core, rock fill
Concrete, earth, brush, etc.
See Insert

(c) The storage dam will be 190 feet in height (stream bed to overflow level); 1330 feet long on top; have a freeboard of 8 feet, and be constructed of earth core, rock fill
Concrete, earth, etc.
Jackson Meadows Dam
See Insert

7. Storage Reservoir (1) Jackson Meadows Reservoir & (2) Bowman Reservoir
Name

The storage reservoir will flood lands in See Map
Indicate section or sections, also 40-acre subdivisions unless shown upon map

It will have a surface area of (1) 1025 acres, and a capacity of (1) 65,000 acre-feet.

☞ In case of insufficient space for answers in form, attach extra sheets at top of page 3 and cross reference.

135

FORM 1

8. **Conduit System** (describe main conduits only) See Insert

(a) Canal, ditch, flume: Width on top (at water line) _____ feet; width at bottom _____
Cross out two not used

feet; depth of water _____ feet; length _____ feet; grade _____ feet per 1,000 feet; materials

of construction _____
Earth, rock, timber, etc.

(b) Pipe line: Diameter _____ inches; length _____ feet; grade _____ feet per

1,000 feet; total fall/lift from intake to outlet _____ feet; kind _____
Riveted steel, concrete, wood-stave, etc.

NOTE.—If a combination of different sizes or kinds of conduit is to be used, attach extra sheets with complete description, also show location of each clearly on map.

9. **The estimated capacity** of the diversion conduit or pumping plant proposed is _____
State cubic feet per second or gallons per minute

The estimated cost of the diversion works proposed is $ 40,000,000.
Give only cost of intake, or headworks, pumps, storage reservoirs and main conduits described herein

Completion Schedule

10. **Construction work** will begin on or before 1962

Construction work will be completed on or before 1967

The water will be completely applied to the proposed use on or before 1970

Description of Proposed Use

11. **Place of Use.** See insert
State 40-acre subdivisions of the public land survey. If area is unsurveyed indicate the location as if lines of the public land survey were projected. In the case of irrigation use state the number of acres to be irrigated in each 40-acre tract, if space permits. If space does not permit listing of all 40-acre tracts, describe area in a general way and show detail upon map.

Do(es) applicant(s) own the land whereon use of water will be made? _____ Yes or No Jointly? _____ Yes or No

If applicant does not own land whereon use of water will be made, give name and address of owner and state what arrangements have been made with him.

12. **Other Rights.** Describe all rights except those on file with the State Water Rights Board under which water is served to the above named lands.

Nature of Right (riparian, appropriative, purchased water, etc.)	Year of First Use	Use made in recent years including amount if known	Season of Use	Source of Other Supply
1. No known rights				
2.				
3.				
4.				

Attach supplement at top of page 3 if necessary.

13. **Irrigation Use.** The area to be irrigated is _____ acres.
State net acreage to be irrigated

The segregation of acreage as to crops is as follows: Rice _____ acres; alfalfa _____ acres;

orchard _____ acres; general crops _____ acres; pasture _____ acres.

NOTE.—Care should be taken that the various statements as to acreage are consistent with each other, with the statement in Paragraph 11, and with the map.

The irrigation season will begin about _____ and end about _____
Beginning date Closing date

14. **Power Use.** The total fall to be utilized is 2971 feet.
Difference between nozzle or draft tube water level and first free water surface above

The maximum amount of water to be used through the penstock is 300 cubic feet per second.

The maximum theoretical horsepower capable of being generated by the works is 101,285 horsepower.
Second feet × fall ÷ 8.8

The use to which the power is to be applied is sale
For distribution and sale or private use, etc.

The nature of the works by means of which power is to be developed is Turbine and Pelton
Turbine, Pelton wheel, etc.

The size of the nozzle to be used is _____ inches.

136 The water ~~will~~ will not be returned to Middle Fork of the Yuba River of
Name stream State 40-acre subdivision

Sec. _____, T. _____, R. _____, _____ B. & M.

SYMBOLS FOR DIVERSIONS AND REDIVERSIONS

* Direct Diversion to off-stream storage
x Rediversion to off-stream storage
o Rediversion
\+ Rediversion from storage

4. REDIVERSIONS

* x A. N. 70° 30'E, 950 feet from the SW corner of Section 12, T19N, R12E, MDB&M, located within the SW¼ of the SW¼ of Section 12. (Milton Dam)

x o + B. S 70° W, 800 feet from the N¼ corner of Section 8, T18N, R12E, MDB&M, located within the NE¼ of the NW¼ of Section 8. (Bowman Dam)

o + C. N 500 feet from the E¼ corner of Section 20, T17N, R12E, MDB&M, located within the SE¼ of NE¼ of Section 20. (Spaulding Dam)

o D. N 1,200 feet and east 100 feet of the west ¼ corner of Section 17, located within the SE¼ of NW¼ of Section 17, T16N, R11E, MDB&M. (Drum ~~Diversion~~ afterbay Dam)

o E. East 3,300 feet of the NW corner of Section 34, located within the NW¼ of NE¼ of Section 34, T16N, R10E, MDB&M.(Dutch Flat ~~Diversion~~ afterbay Dam)

o F. S 950' and W 1300' of E¼ corner of Section 22, T15N, R9E, MDB&M, located within NE¼ of SE¼ of said Section 34. (Rollins Dam)

6. STORAGE DAMS

* c-1 Bowman Dams - 1 Bowman North Dam, 175 feet in height; 900 feet in length at the top; freeboard = 10 feet, constructed of rock with reinforced concrete face. 2 Bowman South Arch Dam, 126 feet in height; 400 feet in length at the top; with no freeboard, constructed of concrete.

7. STORAGE RESERVOIRS

A. (2) Bowman Reservoir will have a surface area of 880 acres with a capacity of 68,000 acre-feet.

CONDUIT SYSTEMS

8.

A-a Milton-Bowman Conduit (pipe and tunnel) Tunnel - 10 feet X 10 feet; length = 22,652 feet; grade per 1,000 feet = 3.2 feet.

b Pipeline - diameter 84" ID: length = 3,415 feet; grade per 1,000 feet = 7.9 feet; total fall from intake to outlet = 27 feet; pipe is redwood stave.

B-a Bowman Spaulding Conduit (tunnel, flume and ditch sections)
Tunnel - 10.2 feet X 10.2 feet section.
Flume - 10 feet top width; 10 feet bottom width; depth = 5.0 feet; construction of concrete.

Ditch - top width = 16.0 feet; bottom width = 6.0 feet; depth = 5.0 feet; constructed in earth and rock section and gunite lined, total length = 53,660 feet; grade per 1,000 feet = 1.3 feet.

b Spaulding #3 P. H. Penstock - diameter = 60"; length = 1,900 feet; grade per 1,000 feet = 168 feet; total fall intake to outlet = 318 feet; penstock is to be riveted steel.

C-a Drum Canal - top width = 22 feet; bottom width = 14 feet; depth = 7.0 feet; length = 48,000 feet; grade per 1,000 feet = 1.1 feet; constructed in earth and rock to be gunite lined.

b Drum P. H. Penstock - diameter 98" and 48"; length 6,270 feet; grade per 1,000 feet = 200 feet; total fall intake to outlet = 1,375 feet; penstock to be riveted steel.

D-a Dutch Flat Canal - top width = 14 feet; bottom width = 14 feet; depth = 7.3 feet; length = 26,800 feet; grade per 1,000 feet = 0.76 feet; construction to be concrete bench flume through rock and earth sections.

b Dutch Flat #2 Powerhouse Penstock - diameter = 78"; length = 2,500 feet; grade per 1,000 feet = 240 feet; total fall intake to outlet = 601 feet; penstock to be riveted steel.

E-a Chicago Park Canal - top width = 18.33 feet; bottom width = 18.33 feet; depth = 9.0 feet; length = 23,300 feet; grade per 1,000 feet = 0.60 feet; construction to be concrete bench flume through rock and earth sections.

b Chicago Park Powerhouse Penstock - diameter = 99"; length = 2,500 feet; grade per 1,000 feet = 193 feet; total fall intake to outlet = 480 feet; penstock to be riveted steel.

CONDUIT CAPACITIES

9.

A.	Milton - Bowman	= 500	c.f.s.
B.	Bowman - Spaulding	= 300	c.f.s.
C.	Drum Canal	= 700	c.f.s.
D.	Dutch Flat Canal	= 600	c.f.s.
E.	Chicago Park Canal	=1,200	c.f.s.

POWERHOUSES AND LOCATIONS

11. Spaulding #3 within the NE¼ of the SW¼ of Section 16, T 17 N., R 12 E., M.D.B.&M.

A. Spaulding #1 within the NE¼ of the SE¼ of Section 20, T 17 N., R 12 E., M.D.B.&M.

B. Drum within the NE¼ of the NW¼ of Section 17, T 16 N., R 11 E., M.D.B.&M.

C. Dutch Flat #2 within the SE¼ of the SE¼ of Section 27, T 16 N., R 10 E., M.D.B.&M.

D. Chicago Park within the NW¼ of the SE¼ of Section 6, T 15 N., R 10 E., M.D.B.&M.

138

11. (cont.)

E. Spaulding No. 2 Power House within the SW$\frac{1}{4}$ of NE$\frac{1}{4}$ of Section 20, T17N, R12E, MDB&M .

F. Deer Creek Power House within the NW$\frac{1}{4}$ of SE$\frac{1}{4}$ of Section 34, T17N, R10E, MDB&M.

G. Halsey Power House within the NW$\frac{1}{4}$ of NW$\frac{1}{4}$ of Section 25, T13N, R8E, MDB&M.

H. Wise Power House within the NW$\frac{1}{4}$ of SW$\frac{1}{4}$ of Section 16, T12N, R8E, MDB&M.

FORM 61-A

IMPORTANT

[Please Read Carefully]

1. *Note the terms and conditions of this permit.* Construction work must be prosecuted, and the water applied to the beneficial uses intended with due diligence. Annual reports of progress will be expected from you upon forms which will be furnished for the purpose. When the water has been fully applied to the beneficial uses intended the Water Code requires that you notify the State Water Rights Board thereof.
2. Neither this application nor the permit is a water right, but *if the terms and conditions of the permit are observed a water right can be obtained through beneficial use of the water*—the extent of the right to be determined by a field inspection which will be made by a representative of the State Water Rights Board.
3. *No change in point of diversion, or place of use or character of use, can be made under this application and permit* without the approval of the State Water Rights Board.
4. *If the rights under this permit are assigned* immediate notice to that effect with the name and address of the new owner should be forwarded to the State Water Rights Board, Sacramento, California.
5. *Please advise immediately of any change of address.* Until otherwise advised communications will be sent to the address used in the letter transmitting this permit.

16130 3-60 2M SFO

APPLICANT MUST NOT FILL IN BLANKS BELOW

PERMIT No. 13773

This is to certify that the application of which the foregoing is a true and correct copy has been considered and approved by the State Water Rights Board SUBJECT TO VESTED RIGHTS and the following limitations and conditions:

1. The amount of water to be appropriated shall be limited to the amount of water which can be beneficially used and shall not exceed 50,000 acre-feet per annum by storage to be collected from about October 1 of each year to about June 30 of the succeeding year. (0000005)

2. This permit does not authorize collection of water to storage during the period from about July 1 to about September 30 of each season to offset evaporation and seepage losses or for any other purpose. (0000005)

3. The quantity of water appropriated by diversion to storage under this permit or under this permit and any combination of permits issued on the following applications which cover the same storage reservoirs, shall not exceed reservoir seasonal storage limits applicable to each of said reservoirs, as follows: (0000005)

Name of Reservoir	Reservoir Seasonal Storage Limit in Acre-Feet	Application Number
Jackson Meadows	68,000	2275 2276 5193 20072
Bowman	72,000	1270 2275 2276 2372 5193 8179 20072 8177

4. Permittee shall install and maintain suitable measuring devices or provide other means acceptable to the Board for measuring inflow to and outflow from Jackson Meadows Reservoir and such other reservoirs as the Board may determine in order that accurate measurements can be made of the quantity of water stored under this permit. (0070300)

5. In accordance with the requirements of Water Code Section 1393, permittee shall clear the site of the proposed Jackson Meadows Reservoir of all structures, trees and other vegetation which would interfere with the use of the reservoir for water storage and recreational purposes. (0120050)

6. A separate application for approval of plans and specifications for construction of Jackson Meadows Dam described in this approved water right application shall be filed with and approved by the Department of Water Resources prior to commencement of constructi of the dam. (0130049)

7. The maximum amount herein stated may be reduced in the license if investigation warrants. (0000006)

8. Progress reports shall be filed promptly by permittee on forms which will be provided annually by the State Water Rights Board until license is issued. (0000010)

9. All rights and privileges under this permit including method of diversion, method of use, and quantity of water diverted are subject to the continuing authority of the State Water Rights Board in accordance with law and in the interest of the public welfare to prevent waste, unreasonable use, unreasonable method of use, or unreasonable method of diversion of said water. (0000012)
amended 5-16-19

142

L. K. Hill
Executive Officer

10. Permittee shall allow representatives of the State Water Rights Board and other parties as may be authorized from time to time by said Board reasonable access to project works to determine compliance with the terms of this permit. (000 0011)

11. Actual construction work shall begin on or before September 1, 1963, and shall thereafter be prosecuted with reasonable diligence, and if not so commenced and prosecuted, this permit may be revoked. (000 0007)

12. Construction work shall be completed on or before December 1, 1968. (000 0008)

13. Complete application of the water to the proposed use shall be made on or before December 1, 1971. (000 0009)

14. This permit is subject to those terms of that certain agreement entered into between Nevada Irrigation District and California Department of Fish and Game dated March 13, 1962 (Fish and Game Exh. 3), which relate to releases of water, rates of release, and minimum pool elevations and capacities under the project outlined in this permit. 0430024

15. Permittee shall file with the State Water Rights Board, prior to the commencemen of construction, a monthly operation study showing present use of water form Yuba River watershed and a monthly operation study showing use of water from Yuba River watershed when project is in full operation. 0490300

This permit is issued and permittee takes it subject to the following provisions of the Water Code:

Section 1390. A permit shall be effective for such time as the water actually appropriated under it is used for a useful and beneficial purpose in conformity with this division (of the Water Code), but no longer.

Section 1391. Every permit shall include the enumeration of conditions therein which in substance shall include all of the provisions of this article and the statement that any appropriator of water to whom a permit is issued takes it subject to the conditions therein expressed.

Section 1392. Every permittee, if he accepts a permit, does so under the conditions precedent that no value whatsoever in excess of the actual amount paid to the State therefor shall at any time be assigned to or claimed for any permit granted or issued under the provisions of this division (of the Water Code), or for any rights granted or acquired under the provisions of this division (of the Water Code), in respect to the regulation by any competent public authority of the services or the price of the services to be rendered by any permittee or by the holder of any rights granted or acquired under the provisions of this division (of the Water Code) or in respect to any valuation for purposes of sale to or purchase, whether through condemnation proceedings or otherwise, by the State or any city, city and county, municipal water district, irrigation district, lighting district, or any political subdivision of the State, of the rights and property of any permittee, or the possessor of any rights granted, issued, or acquired under the provisions of this division (of the Water Code).

Dated: OCT 3 1962

STATE WATER RIGHTS BOARD

L. K. Hill

L. K. Hill
Executive Officer

15. **Municipal Use.** This application is made for the purpose of serving _____ (Name city or cities, town or towns. Urban areas only)

_____ having a present population of _____

The estimated average daily consumption during the month of maximum use at the end of each five-year period until the full amount applied for is put to beneficial use is as follows:

_____

_____

_____

16. **Mining Use.** The name of the mining property to be served is _____ (Name of claim)

_____ and the nature of the mines is _____ (Gold placer, quartz, etc.)

The method of utilizing the water is _____

It is estimated that the ultimate water requirement for this project will be _____ (Cubic feet per second, gallons per minute. State basis of estimate)

The water will / will not be polluted by chemicals or otherwise _____ (Explain nature of pollution, if any)

and it will / will not be returned to _____ (Name stream) in _____ (State 40-acre subdivision) of

Sec. _____, T. _____, R. _____, _____ B. & M.

17. **Other Uses.** The nature of the use proposed is _____ (Industrial, recreational, domestic, stockwatering, fish culture, etc.)

_____

State basis of determination of amount needed. _____ (Number of persons, residences, area of domestic lawns and gardens, number and kind of stock, type

_____

industrial use, and unit requirements.

_____

_____

_____

_____

_____

_____

General

18. Are the maps as required by the Rules and Regulations filed with Application? No (Yes or No). If not, state specifically the time required for filing same 6 months

19. Does the applicant own the land at the proposed point of diversion? No (Yes or No). If not, give name and address of owner and state what steps have been taken to secure right of access thereto 1. U. S. Government 2. Application for F. P. C. License - Project No. 2266

20. What is the name of the post office most used by those living near the proposed point of diversion?

Emigrant Gap, California

21. What are the names and addresses of claimants of water from the source of supply below the proposed point of diversion?

Yuba County Water Agency	Marysville, California
Johnson Rancho	Wheatland, California
Pacific Gas and Electric Company	San Francisco, California
Hallwood Irrigation District	Marysville, California

[SIGNATURE OF APPLICANT] /s/ Edwin Koster

140