

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

ORDER NO. 84-32

**WASTE DISCHARGE REQUIREMENTS
FOR
SOUTHERN CALIFORNIA EDISON COMPANY AND ORMAT TURBINES LTD.
12,000 KW DANBY SOLAR SALT POND POWER PLANT
Danby Dry Lake - San Bernardino County**

The California Regional Water Quality Control Board, Colorado River Basin Region, finds that:

1. Southern California Edison Company and Ormat Turbines Ltds. (hereinafter also referred to as the discharger), P. O. Box 800, 2244 Walnut Grove Avenue, Rosemead, California 91770, submitted a Report of Waste Discharge dated October 31, 1983.
2. The discharger proposes to construct 120 acres of solar basins and 30 acres of cooling, evaporation and seepage basins. Solar and cooling basins would be lined to reduce seepage therefrom. Blowdown wastewater from cooling towers would be discharged to lined evaporation basins. Solar basin surface flushing water would be discharged to evaporation-seepage basins. Flushing water would amount to about 400 acre feet per year. Blowdown wastewater from cooling towers would be about 60 gpm. The project location is in the S $\frac{1}{2}$, SW $\frac{1}{4}$, Section 29 and the NW $\frac{1}{4}$, Section 32, T2N, R18E, SBB&M.
3. Brine ground waters from Danby Dry Lake would be utilized in the solar basins. Brackish or fresh water utilized for cooling basins and for solar basin flushing would be obtained from locations adjacent to Danby Dry Lake.
4. The Water Quality Control Plan for the West Colorado River Basin was adopted on April 10, 1975. The Basin Plan contains water quality objectives for the Ward Hydrologic Unit.
5. There are no surface waters in the vicinity of the discharge. The beneficial uses of ground waters of Danby Dry Lake are as follows:
 - a. Sodium chloride is found in commercial quantities.
 - b. Gypsum crystals have been mined from the lake in the past.
 - c. The lake is covered by a salt crust caused by the capillary fringe of the water table extending to the surface.
 - d. The discharger reports that depth to water table at the proposed project site is about twenty-two (22) feet. Brine conditions exist with a total dissolved solids concentration of about 128,000 mg/l. The brine is sodium chloride in character.
6. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge.

*Cancelled
3/14/90*

7. The Board in a public meeting heard and considered all comments pertaining to the proposed discharge.
8. The Regional Board approved on March 21, 1984, Negative Declaration SCH #84011603 for the proposed project in accordance with California Environmental Quality Act and State Guidelines. The Board determined that there will be no substantial adverse effect on the environment as a result of this project.

IT IS HEREBY ORDERED, the discharger shall comply with the following:

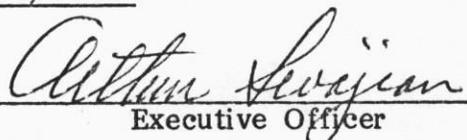
A. Discharge Specifications

1. The treatment or disposal of wastes shall not cause pollution or a nuisance as defined in Sections 13050 (l) and 13050 (m) of the California Water Code.
2. A minimum depth of freeboard of at least two feet shall be maintained in all wastewater retention facilities.
3. Adequate protective works shall be provided to insure that flood or surface drainage waters do not erode or otherwise render portions of the treatment and discharge facility inoperable.
4. Only water and salt wastes resulting from the solar plant operation shall be discharged at this site.
5. All discharges shall be confined to land owned or controlled by the discharger.

B. Provisions

1. Prior to any modifications in this facility which would result in material change in the quality or quantity of water and salt waste discharged, or any material change in location of discharge, the discharger shall report in writing to the Regional Board.
2. The discharger shall comply with "Monitoring and Reporting Program No. 84-32", and future revisions thereto, as specified by the Executive Officer.
3. In the event of any change in operation, or in control or ownership of land and/or waste disposal facilities owned or controlled by the discharger, the discharger shall:
 - a. Notify this Board of such change; and
 - b. Notify the succeeding owner or operator by letter of the existence of this Order, a copy of which shall be filed with this Board.

I, Arthur Swajian, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Colorado River Basin Region, on March 21, 1984.


Executive Officer

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION**

MONITORING AND REPORTING PROGRAM NO. 84-32
FOR
SOUTHERN CALIFORNIA EDISON COMPANY AND ORMAT TURBINES LTD.
12,000 KW DANBY SOLAR SALT POND POWER PLANT
Danby Dry Lake - San Bernardino County

Location of Discharge: S $\frac{1}{4}$, SW $\frac{1}{4}$, Section 29, T2N, R18E, SBB&M
NW $\frac{1}{4}$, Section 32, T2N, R18E, SBB&M

MONITORING

The discharger shall report to the Regional Board concerning the following:

<u>Item</u>	<u>Unit</u>	<u>Reporting Frequency</u>
1. Cooling tower blowdown	Gallons/Quarter	Quarterly
2. Other wastewaters	Gallons/Quarter	Quarterly
3. Any discharge of wastes other than those allowed in the specifications.	Type, volume and exact location	Immediately upon becoming aware that the waste has been discharged.

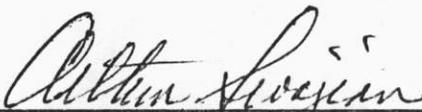
REPORTING

Quarterly monitoring reports shall be submitted to the Regional Board by January 15, April 15, July 15, and October 15 of each year.

Submit monitoring reports to:

California Regional Water Quality Control Board
Colorado River Basin Region
73-271 Highway 111, Suite 21
Palm Desert, CA 92260

ORDERED BY:

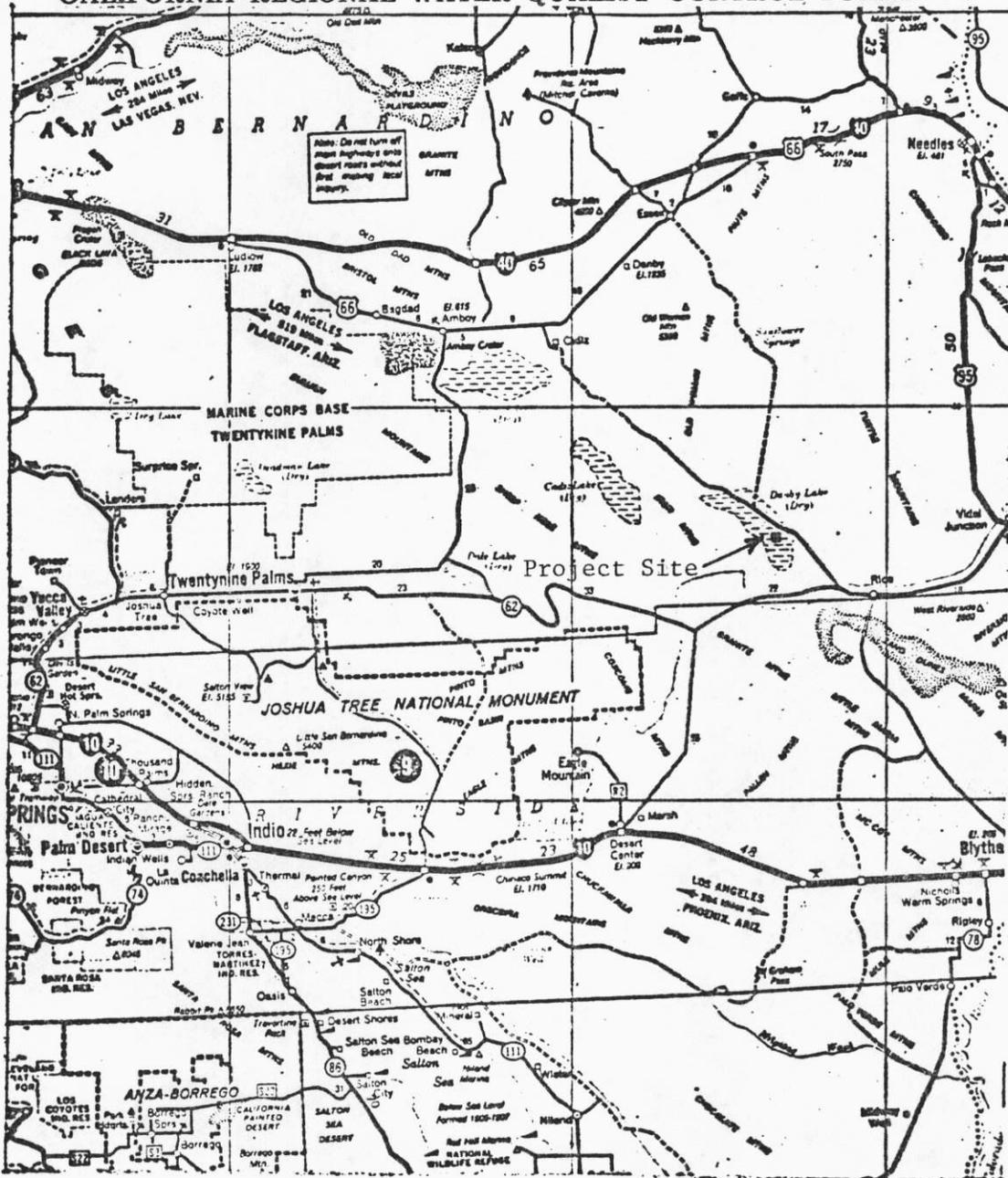


Executive Officer

March 21, 1984

Date

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD - 7

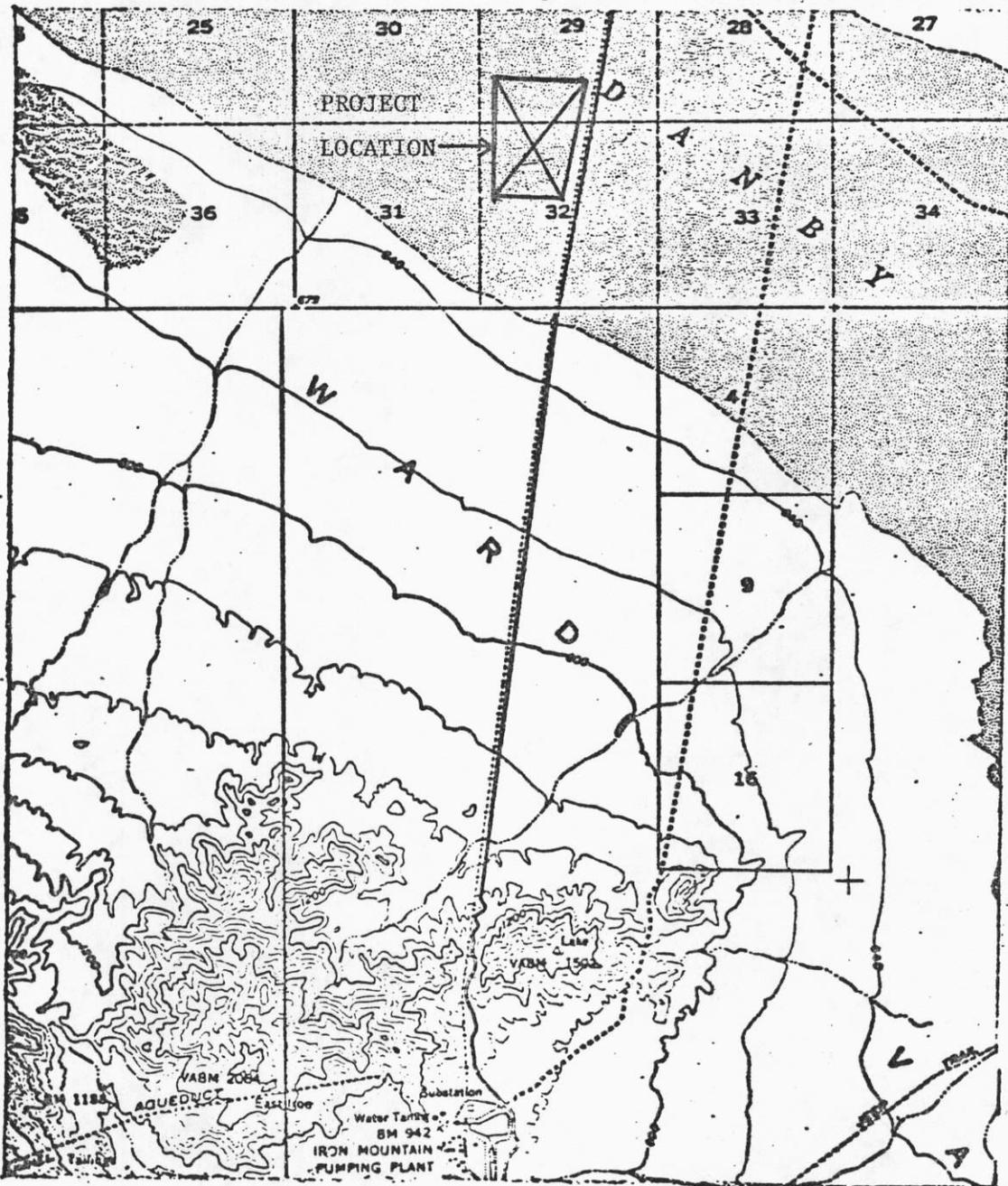


SITE MAP NO. 1

SOUTHERN CALIFORNIA EDISON COMPANY AND ORMAT TURBINES LTD.
 12,000 KW DANBY SOLAR SALT POND PROJECT
 Danby Dry Lake - San Bernardino County

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SITE MAP NO. 2

SOUTHERN CALIFORNIA EDISON COMPANY AND ORMAT TURBINES LTD.
 12,000 KW DANBY SOLAR SALT POND PROJECT
 Danby Dry Lake - San Bernardino County
 S $\frac{1}{2}$, SW $\frac{1}{4}$, Section 29 and NW $\frac{1}{4}$, Section 32, T2N, R18E, SBB&M
 USGS Iron Mountains 15 min. Topographic Map

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