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(TEMPORARY FORM)**

CONTROL NO: 4970  
FILE: ENVIRO

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|--|-------------------|-----------------------|----------------------|--|--|-----|-------|
| FROM: Pacific Gas and Electric Co<br>San Francisco, Calif<br>Philip A. Crane,, Jr  |                   | DATE OF DOC<br>5-2-75 | DATE REC'D<br>5-7-75 | LTR<br>xxx   | TWX                                    | RPT | OTHER |
| TO: Mr. Gordon K. Dicker   |                   | ORIG                  | CC<br>2              | OTHER  | SENT AEC PDR xxx<br>SENT LOCAL PDR xxx |     |       |
| CLASS  | UNCLASS<br>xxxxxx | PROP INFO             | INPUT                | NO CYS REC'D<br>2  | DOCKET NO:<br>50-275 and <u>323</u>    |     |       |
| DESCRIPTION:<br><br>Ltr ref our 1-28 and 4-24-75 ltrs furn updating of Environmental info on the Diablo Canyon Units 1 and 2 ..... |                   |                       |                      | ENCLOSURES:<br><br><b>ACKNOWLEDGED</b><br><br><b>DO NOT REMOVE</b> |  |     |       |
| Note: Dept of Interior ...2<br>EPA- 2<br>ACRS-1 Sent to Enviro Lic for Dist  |                   |                       |                      | PLANT NAME: Diablo Canyon 1 & 2                                    |  |     |       |

**FOR ACTION/INFORMATION**

5-12-75 JGB

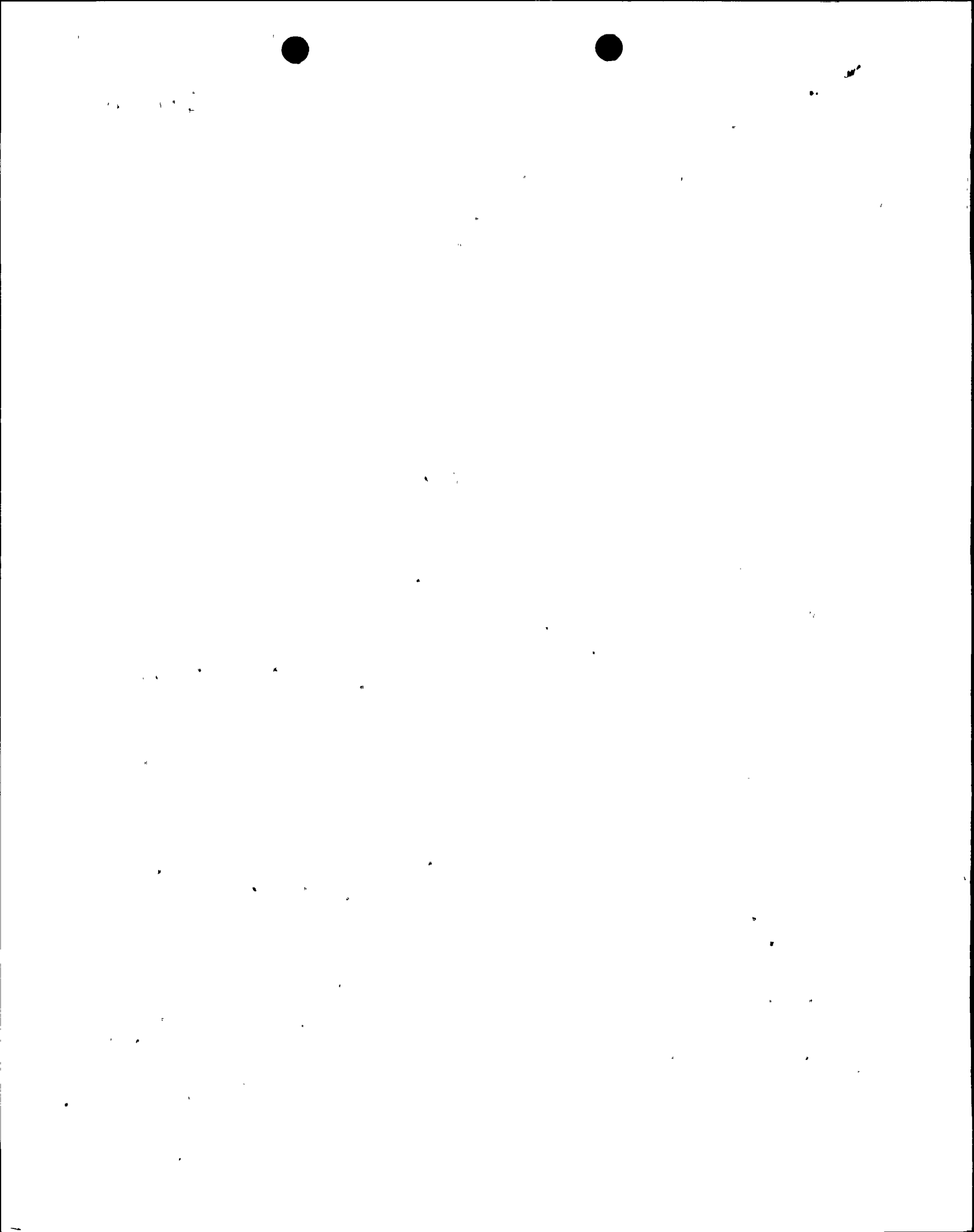
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| <del>REG FILE</del><br><del>INRC-PDR</del> | <u>TECH REVIEW</u><br>SCHROEDER | DENTON<br>GRIMES       | <u>LIC ASST.</u><br>R. DIGGS (L)      | <u>A/T IND.</u><br>BRAITMAN |
| OGC, ROOM P-506A                           | MACCARY                         | GAMMILL                | H. GEARIN (L)                         | SALTZMAN                    |
| GOSSICK/STAFF                              | KNIGHT                          | <del>KASTNER</del>     | E. GOULBOURNE (L)                     | MELTZ                       |
| CASE                                       | <del>PAWLICKI</del>             | <del>BALLARD</del>     | <del>V. KREUTZER (E)</del> <i>rfc</i> | <u>PLANS</u>                |
| GIAMBUSSO                                  | SHAO                            | SPANGLER               | J. LEE (L)                            | MCDONALD                    |
| BOYD                                       | STELLO                          | <u>ENVIRO</u>          | M. MAIGRET (L)                        | CHAPMAN                     |
| MOORE (L)                                  | HOUSTON                         | MULLER                 | S. REED (E)                           | DUBE (Ltr)                  |
| DEYOUNG (L)                                | NOVAK                           | DICKER                 | M. SERVICE (L)                        | E. COUPE                    |
| SKOVHOLT (L)                               | ROSS                            | KNIGHTON               | S. SHEPPARD (L)                       | PETERSON                    |
| GOLLER (L) (Ltr)                           | IPPOLITO                        | YOUNGBLOOD             | M. SLATER (E)                         | HARTFIELD (2)               |
| P. COLLINS                                 | TEDESCO                         | REGAN                  | H. SMITH (L)                          | KLECKER                     |
| DENISE                                     | <del>J. COLLINS</del>           | <del>PROJECT LDR</del> | S. TEETS (L)                          | EISENHUT                    |
| <del>REG OPR</del>                         | LAINAS                          | <u>B. BOSS</u>         | G. WILLIAMS (E)                       | WIGGINTON                   |
| FILE & REGION (2)                          | BENAROYA                        | HARLESS                | <del>V. WILSON (L)</del> <i>rfc</i>   |                             |
| MPIC                                       | VOLLMER                         |                        | R. INGRAM (L)                         |                             |
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| 1 - Newton Anderson                             |                                | 1 - J. D. RUNKLES, Rm E-201<br>GT       |
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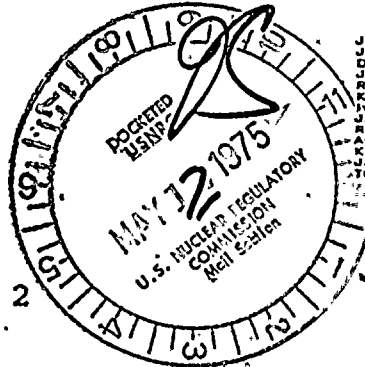
May 2, 1975

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Mr. Gordon K. Dicker, Chief  
Environmental Projects Branch 2  
Division of Reactor Licensing  
Nuclear Regulatory Commission  
Washington, D. C. 20555

Re: Dockets 50-275-OL  
50-323-OL

Dear Mr. Dicker:

This is in reply to your letters dated January 28 and April 24, 1975 concerning updating of environmental information on the Diablo Canyon units.

Set forth below is an update on the conditions included in the Unit 2 construction permit by the ASLB decision dated August 2, 1974.

a. Monitoring Programs - The ecological and radiological baseline monitoring programs have been continued. Results of these programs are included in a report entitled "Environmental Investigations at Diablo Canyon, 1972 - 1973", a copy of which is attached. Additional copies will be forwarded to you under separate cover by May 9, 1975. The results of the programs are also described in a similar report being prepared for the year 1974, which is expected to be available in July 1975. The construction permit condition a. also refers to a "monitoring program for operation." This is described in § 3.0 of the proposed Environmental Technical Specifications which were submitted March 1, 1974. The second draft of the Environmental Technical Specifications will be submitted this month.

b. Potential for Entrainment and Impingement - A program to determine the potential for entrainment and impingement of certain marine organisms is described in § 4.5 of the proposed Environmental Technical Specifications. The concentrations of fish eggs and larvae of marine organisms have been determined in field studies near the intake cove breakwaters. These studies commenced in July 1974. Preliminary study results will be available in August 1975. Documentation

4970



THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

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Mr. Gordon K. Dicker

2

May 2, 1975

will be available by December 1975. Data on small fish concentrations is incomplete. It will not be feasible to determine accurately small fish concentrations until continuous cooling water system flow is available to draw small fish past fixed sampling devices.

c. Chlorine - On-site chlorine tests, both physical and biological, are scheduled to commence when continuous cooling water system flow is available. Some laboratory testing of chlorine tolerance levels will commence this year. The program is described in § 4.7 of the proposed Environmental Technical Specifications.

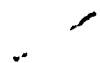
d. Defouling - Defouling treatment is described in § 2.1 of the proposed Environmental Technical Specifications.

e. Transmission Lines - A copy of the environmental report concerning redress of areas affected by transmission line construction submitted to the California Public Utilities Commission last year is forwarded herewith. A copy of the report for 1974 will be forwarded by June 1, 1975. The program for redress of affected areas as developed with the California Public Utilities Commission was accepted on behalf of the Staff following the environmental hearing by Mr. Robert Cushman, at that time Environmental Project Manager.

f. Harmful Effects - No harmful effects which could lead to irreversible or an unacceptable degree of damage have been detected by the monitoring programs. Information concerning an abalone mortality discovered last July has been forwarded to the ASLB and parties to the construction permit hearing. A definitive report on this incident is being prepared and will be submitted to you by the middle of this month.

g. Ocean Current Studies - Ocean current field studies are being conducted on a monthly basis. The program is described in § 4.2 of the proposed Environmental Technical Specifications. The results of the studies are included in the report on the 1972-1973 environmental investigations (p. 29) and will be included in the report for 1974, which is expected to be available in July.

h. Physical Model - Construction of a physical model of the Diablo Canyon plant's thermal discharge system, including a 1:75 non-distorted simulation of the intake, discharge, Diablo Cove geometry, intake cove geometry, tides, and currents, is completed. Preliminary experiments which will lead to a comparison of the model with prototype dye test results obtained in September 1974 are underway. Although some technical difficulties are being encountered by the model consultant at the present time, preliminary thermal predictions from the model are expected to be available in July 1975. Documented model results, which will include estimates of the effect of wind on the



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Mr. Gordon K. Dicker

3

May 2, 1975

basic model thermal plume, are expected to be available late this year. Modeling of discharge alternatives will follow.

i. and j. Test Program - These conditions will be responded to as soon as construction and operating capabilities permit. Dye measurements with one unit operating at full flow and no thermal input have been completed in connection with validating the physical model.

Your letter dated January 28, 1975 also requested information concerning removal of the intake cofferdam. This is set forth in Chapter XI of the report on environmental investigations during 1972-3, which will be filed by May 9, 1975. Biological and physical investigations and monitoring of the intake cove are continuing. Dredging of the cove has continued essentially without interruption since January 1974. Updated information on the cove will be included in the report covering environmental investigations during 1974.

Information concerning tests of the cooling water system will be forwarded by the middle of this month. Information concerning PGandE demand, resources, and reserves will be forwarded by June 1, 1975.

If you have any further questions concerning availability of environmental information, please let me know.

Very truly yours,

: Philip A. Crane, Jr.

Enclosures

CC w/o encs.: ASLB Members  
OL Hearing Parties

