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POWERS, R.P. Pacific Gas & Electric Co.
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see Reports

BRIGGS, R.W California, State of

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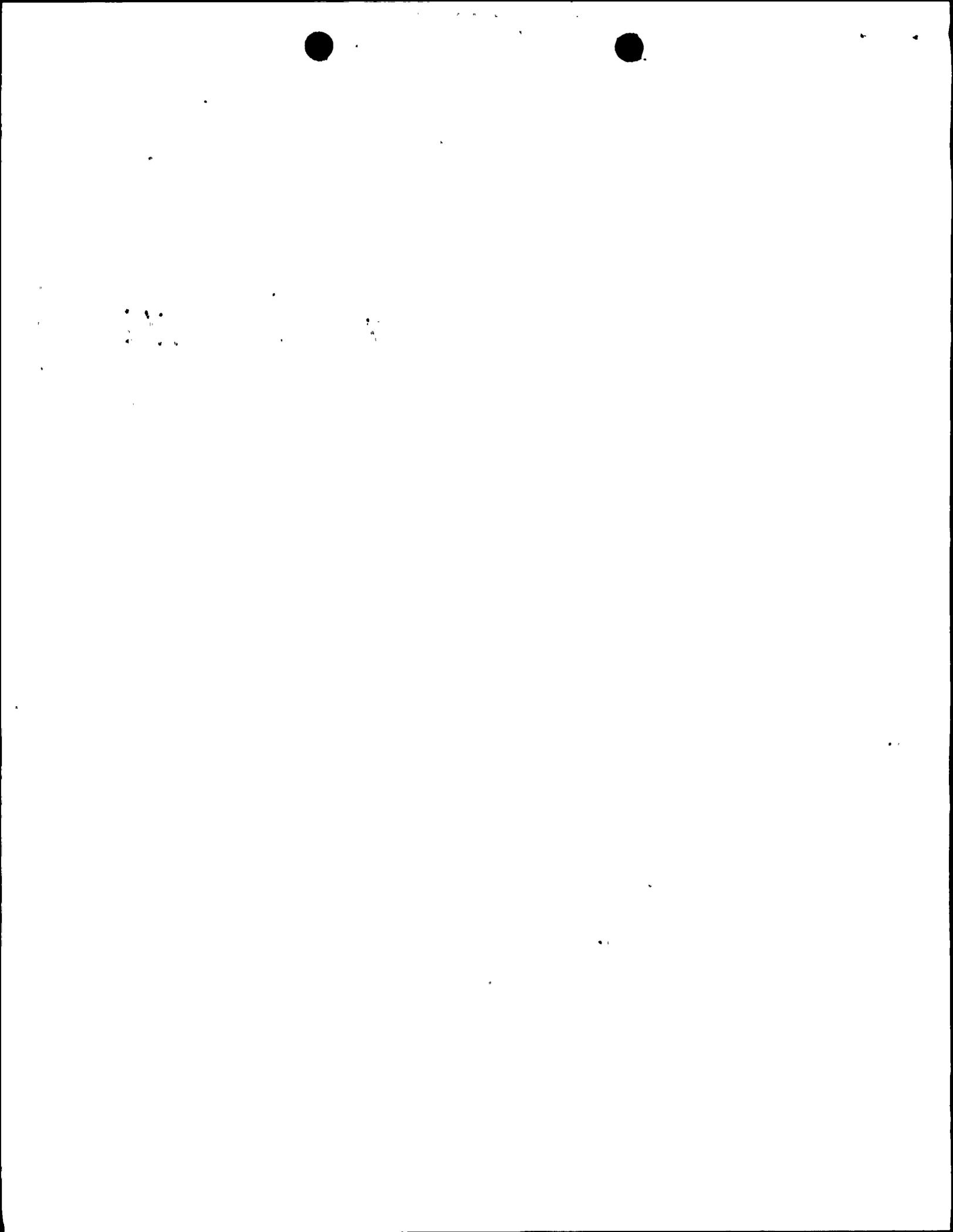
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Pacific Gas and Electric Company

Diablo Canyon Power Plant
P.O. Box 56
Avila Beach, CA 93424
805/545-6000

Robert P. Powers
Vice President—Diablo Canyon
Operations and Plant Manager



January 17, 1997

PG&E Letter DCL-97-503

Mr. Roger W. Briggs, Executive Officer
California Regional Water Quality Control Board
Central Coast Region
81 Higuera Street, Suite 200
San Luis Obispo, CA 93401-5414

Dear Mr. Briggs:

Discharge Monitoring and Reporting Program
Diablo Canyon Power Plant -- NPDES No. CA0003751

In accordance with Order 90-09, NPDES No. CA0003751, enclosed is the Fourth Quarter 1996 Report on Discharge Monitoring at Diablo Canyon Power Plant.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. The results of the influent and effluent monitoring presented are the observed results of the measurements and analyses required by the monitoring program, and is neither an assertion of the adequacy of any instrument reading or analytical result, nor an endorsement of the appropriateness of any analytical or measurement procedure. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact Drew Squyres at (805) 545-4439.

Sincerely,

Robert P. Powers

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R PDR



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Mr. Roger W. Briggs
January 17, 1997
Page 2

cc: Chief, Environmental Services Division
California Department of Fish and Game
Resources Building
1416 Ninth Street
Sacramento, CA 95814

Regional Administrator, Region 9
U. S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105
Attention: Carey Houk (W-5-3)

Regional Administrator
U.S. Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Dr., Suite 400
Arlington, TX 76011-8064

Director
U. S. Nuclear Regulatory Commission
Region IV, Field Office
1450 Maria Lane, Suite 210
Walnut Creek, CA 94596-5368

Document Control Desk
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Chief, Marine Resources Division
California Department of Fish and Game
Resources Building
1416 Ninth Street
Sacramento, CA 95814

Enclosure



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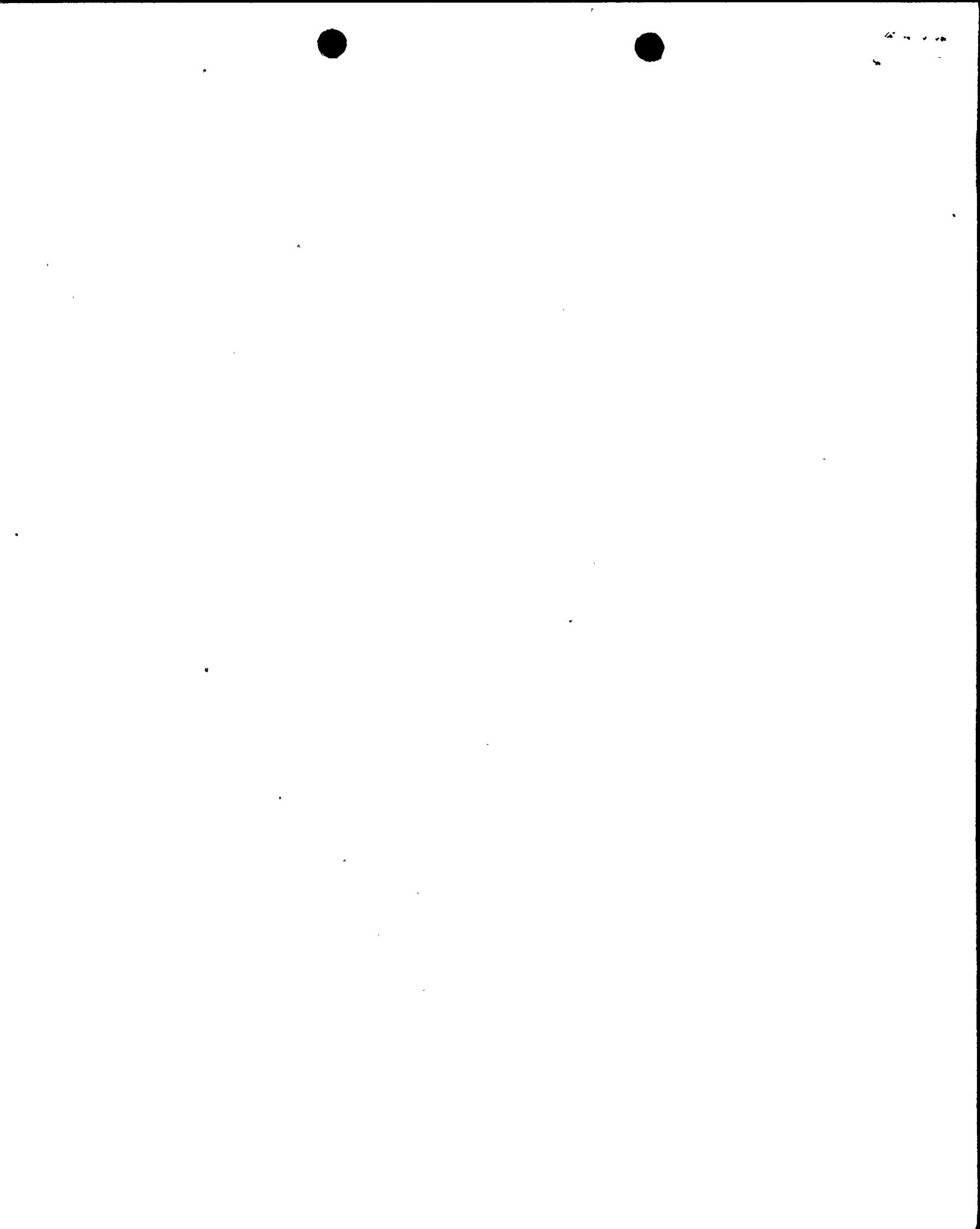
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PG&E Letter DCL-97-503

ENCLOSURE

FOURTH QUARTER 1996

REPORT ON DISCHARGE MONITORING AT
DIABLO CANYON POWER PLANT



PACIFIC GAS AND ELECTRIC COMPANY

NUCLEAR POWER GENERATION

Fourth Quarter 1996

**REPORT ON
DISCHARGE MONITORING AT
DIABLO CANYON POWER PLANT**

(NPDES No. CA0003751)

National Pollutant Discharge Elimination System

DISCHARGE MONITORING AND REPORTING
PROGRAM - NPDES NO. CA0003751

REC'D W/LTR DTD 01/17/97....9701310002



PACIFIC GAS AND ELECTRIC COMPANY

Fourth Quarter 1996

REPORT ON DISCHARGE MONITORING AT
DIABLO CANYON POWER PLANT

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OVERVIEW

- A. During the fourth quarter of 1996, discharges occurred from Discharge Paths 001 (once through cooling water), 001B, 001D, 001E, 001F, 001G, 001H, 001J, 001L, 001M, 001N, 001P, and 002 through 017. No discharges occurred from Discharge Paths 001I and 001K. A list of all of the permit discharge pathways, including name and number, is provided in Appendix 1.
- B. The substances listed in Table B of the 1990 Ocean Plan were each analyzed for and reported in the permit renewal application for Diablo Canyon submitted in 1994. There have been no changes in the activities conducted at the plant that would have significantly affected the results previously reported in the above referenced document.
- C. On June 30, 1996 at 1600, the Unit 1 chlorine monitor at the discharge started showing declining peaks. The monitor was checked out and cleaned on July 1, 1996. From 1600 on June 30 to 1500 on July 1, the chlorine monitoring of the 1-2 conduit at the discharge was not reliable due to a clog in the sample line. The monitor was declared operable after it was cleaned. This incident was reported to the CCRWQCB on July 7, 1996, and is being included in this quarterly report since it was inadvertently omitted from the third quarter report. A summary of the engineering evaluation follows.

The highest total residual oxidant (TRO) concentration at the 1-1 waterbox monitor during the time period in question was 210 ppb. This equates to approximately 53 ppb TRO at the discharge which is within the 89 ppb limit for a 20 minute injection. Since the highest value at the 1-1 waterbox was low enough that the concentration at discharge would be within the discharge limits, all treatments of the 1-1 conduit during this period were determined to be within discharge limits.

Concentrations at the discharge for 1-2 conduit before June 30 were approximately 6 ppb TRO (1-2 treatment is accompanied with sodium bisulfite injection to reduce TRO). After the monitor was cleaned, TRO concentrations of 1-1 and 1-2 conduits were below detectability during simultaneous treatment. During the time period in question the injection system appeared to be operating normally with no alarms, indicating that sodium bisulfite injections occurred at specified times and flowrates. Normal injection system operation and the low concentrations before and after this time period indicate that concentrations at the discharge for both Unit 1 conduits were well below the 89 ppb limit during the time period when the discharge monitor was not operating properly.

Verbal notification to the CCRWQCB of missed chlorine monitoring is no longer required per a phone conversation with Sorrel Marks on July 9, 1996. She requested that instead of verbal notification, a description of missed chlorine monitoring and corresponding engineering evaluations be included in future quarterly reports in lieu of submitting a 5-day report. However, chlorination events that result in a violation of the NPDES permit shall still be verbally reported.



- D. During May 1996 conversations were held with Sorrel Marks about injecting sulfur hexafluoride (SF₆) into DCP's condensers to detect saltwater leaks. It was agreed that the SF₆ would off-gas during discharge and periodic use would not increase DCP's probability of exceeding NPDES permit limitations. Sorrel requested that PG&E include the amount and duration of future injections in quarterly monitoring reports. During the fourth quarter of 1996, the following injections of SF₆ occurred:

Date	Conduit	Number of Injections	Duration (seconds)	Injection Rate of SF ₆ (SCFM)
11/06/96	1-1	1	60	4
11/06/96	1-2	1	30	10

- E. On December 6, 1996, an oil sheen was observed in the southeast end of the Intake Cove and was subsequently removed with absorbent material. Our assessment was that the sheen was caused by higher than normal levels of oil in parking lot run-off. Residual oil from a hydraulic fluid leak from a crane which occurred on the road between the intake and parking lot 5 may have contributed. This appears unlikely, however, since the hydraulic fluid was cleaned up on December 4 and no sheen was observed in the Intake Cove on December 5 following the rain. This was reported verbally to Sorrel Marks of the CCRWQCB on December 6, 1996. She waived the 5-day report and requested that a brief description of the event be included in this report.
- F. On December 20, 1996 an oil leak from the inner seal of the 2-2 screen wash gear was discovered. The estimated drip rate was about 60 drips per minute. Actual observations at about 1345 on December 20 indicated a lower drip rate. The actual amount of oil replaced in the reservoir was about 1.5 gallons. It appears that most of the oil went into the forebay and ultimately out discharge 001, one drop at a time. There is potential that some of the oil could have dripped into the trough that feeds the refuse sump, which is emptied periodically out 003. It is unlikely that this could be the cause of the December 6 oil sheen since the evidence indicated no feasible pathway to the intake cove. The cause of the drip was repaired on an expedited basis. This incident was reported verbally to Sorrel Marks of the CCRWQCB on December 21, 1996. She waived the 5-day report and requested that a brief description of the event be included in this report.
- G. From February 1995 through May 1996 work was performed on the shooting range to clean up lead fragments and modify the range to contain used lead. This work was primarily done to prevent metal contamination of soil and rain run off. During the first rains of the season in October 1996 a sample of rain run off near the range was analyzed to help determine the effectiveness of the modifications. There is no requirement to sample this area or the rain run off. The results indicated 37 ppb of lead, 20 ppb of copper, and 620 ppb of zinc. Conversations were held with Sorrel Marks of the CCRWQCB on 11/15/97 and 11/20/97 after we obtained the analysis results. She indicated that this was not subject to the permit reporting requirements, however she requested a brief description for informational purposes in this quarterly report. Subsequent sampling at the same location and at more representative locations indicated that levels decreased rapidly along the drainage ditch and that they were decreasing at all sampling points as the season progressed. November and December sample results at the discharge point (006) showed a significant decreasing trend for.



zinc (December value was 60 ppb) and lead (December value was 17 ppb). Copper had reduced to non-detected levels. Even though there is no requirement to sample the shooting range area or the storm drain discharge point, we will continue to monitor the shooting range and evaluate additional modifications that may prevent shooting range metals from entering stormwater run off.

- H. In a letter written to the CCRWQCB dated July 19, 1995 (PG&E Letter DCL-95-156), PG&E received concurrence from the CCRWQCB to use the biocides glutaraldehyde and isothiazoline to control microbiological growth and corrosion in PG&E's closed cooling water systems. Any drainage from these systems is discharged out NPDES Discharge 001 at a flowrate such that the chronic toxicity level is below the "No Observable Effect Concentration" (NOEC).

During the fourth quarter of 1996, the following volumes of cooling water were drained from the component cooling water (CCW) and service cooling water (SCW) systems:

Date	System	Volume (gal)	Glutaraldehyde (mg/l)	Isothiazoline (mg/l)	Reason
11/12/96 to 11/14/96	Unit 2 CCW	196,600	120	10	Routine maintenance.
11/20/96	Unit 1 SCW	12,000	120	10	Routine maintenance.

- I. In all cases, chemical, radiochemical, and toxicity analyses were performed in accordance with chemical analysis procedures contained in the Diablo Canyon Power Plant (DCPP), Units 1 and 2 Plant Manual, Volume 8, by State approved laboratories, or laboratories meeting the requirements specified in the CCRWQCB: "Standard Provisions and Reporting Requirements," dated January 25, 1985. Receiving water monitoring was performed in accordance with approved biological and oceanographic procedures.



SUMMARY OF MONITORING PROGRAM

A. Monitoring of Plant Influent and Effluent

1. The results of the October, November, and December 1996 plant influent and effluent monitoring are reported on Q2 forms in Appendices 2, 3, and 4, respectively. The MDL for the annual sample of silver (collected in October) was above the NPDES limit. Additional laboratory results are also placed in Appendices 2 through 4 behind the Q2 forms. This information is provided to ensure that all analytical data are reported "uncensored." The additional data are used to develop the "average" values reported on the Q2 forms when analyses are performed several times in one day (i.e., for TRC, an average value is reported on the Q2 form).
2. Results from one acute bioassay on water sampled from Discharge 001, performed October 7-11, 1996, are included in Appendix 5. The acute toxicity test results show that toxicity was zero (no mortality occurred during the test).
3. Results from one chronic bioassay on water sampled from Discharge 001, performed October 23-25, 1996, are included in Appendix 6. The chronic toxicity test results show that toxicity was 1.0 (no chronic toxicity in the water sample). These results indicate that the positive toxicity result of the third quarter chronic test was a unique event, not an indication of consistent toxicity.
4. Listed below are the detection limits used for plant effluent analyses performed during the quarter:

<u>Parameter</u>	<u>Detection Limit</u>
Oil and Grease	3 mg/l
Total Residual Chlorine	0.020 mg/l*
Suspended Solids	1 mg/l
Settleable Solids	0.1 mg/l
Ammonia (N)	0.041 mg/l
Metals (chelation extraction)	
Chromium	0.005 mg/l
Copper	0.003 mg/l
Nickel	0.003 mg/l
Zinc	0.003 mg/l

* Reference PG&E Letter DCL-94-192 submitted to Regional Water Quality Control Board, Central Coast Region, August 31, 1994.



B. Monitoring of Receiving Waters

1. Ecological Studies at Diablo Canyon

Ecological studies in the vicinity of Diablo Cove conducted during the fourth quarter continued under the Diablo Canyon Ecological Monitoring Program (EMP). This program was initiated on July 1, 1995 as required in revised Monitoring and Reporting Program 90-09 and replaces the Thermal Effects Monitoring Program (TEMP). Results of the EMP are reported along with other receiving water monitoring activities in separate biannual reports two months after summer and winter surveys.

2. Dissolved Oxygen Measurements

Dissolved oxygen measurements, a receiving water monitoring activity, is reported in the biannual Receiving Water Monitoring reports.

3. Study plans for the shell debris deposition and foam studies are currently being reviewed and should be submitted to the DCCP Technical Working Group for review during the first quarter of 1997.

4. In Situ Bioassay

Results of the Mussel Watch Program will be reported to the CCRWQCB directly from the California Department of Fish and Game in their periodic report for this program.

C. Acti-Brom Treatment Program

Diablo Canyon Power Plant is continuing its use of the proprietary chemical Acti-Brom to control the growth of macrofouling organisms in its main circulating water conduits. During the second quarter of 1996 several improvements were made to the Acti-Brom / sodium hypochlorite injection system. These changes now allow all four of the circulating water conduits to be chemically treated if it is so desired. At the start of this quarter, all four conduits were receiving Acti-Brom treatment.

On November 22, 1996 DCCP's Unit 1 reactor tripped in response to a problem with an Auxiliary Transformer. While the Unit was in Mode 3 (hot standby) the 1-1 Circulating Water Pump was shutdown and the 1-1 circulating water conduit was manually cleaned of all encrusting macrofouling organisms. The bulk of these organisms had settled in the conduit during the second quarter of 1996 when the Acti-Brom / sodium hypochlorite injection system was removed from service for the modifications mentioned above. Following its cleaning, the 1-1 conduit was placed back in operation. With only four months of operation remaining prior to the 1R8 refueling outage, Acti-Brom treatment for the control of macrofouling growth was not considered necessary. At the present time, the 1-1 conduit only receives two daily injections of sodium hypochlorite to control the growth of microfouling organisms (slime) on the walls of the condenser tubes.



Currently, the remaining three circulating water conduits (conduits 1-2, 2-1, and 2-2) receive six injections of Acti-Brom, in combination with sodium hypochlorite (NaOCl), per day (one every four hours). The injections are twenty minutes in duration, with a nominal concentration of 200 parts per billion Total Residual Oxidant (TRO) measured at the condenser inlet waterbox. Discharge TRO, measured at the plant outfall, is considerably lower due to the turbulent nature of the flow at the Discharge Structure, and the dilution effects, and additional chlorine demand, of the discharge from the other conduits.



APPENDIX 1

DIABLO CANYON POWER PLANT

NPDES DISCHARGE POINTS	
DISCHARGE NUMBER	DESCRIPTION
001	Once-Through Cooling Water
001 A	Firewater Systems
001 B	Auxiliary Salt Water Cooling System
001 C	Discharge Deleted
001 D	Liquid Radioactive Waste Treatment System
001 E	Service Cooling Water System
001 F	Turbine Building Sump
001 G	Make-Up Water System Waste Effluent
001 H	Condensate Demineralizer Regenerant
001 I	Seawater Evaporator Blowdown
001 J	Condensate Pumps Discharge Header Overboard
001 K	Condenser Tube Sheet Leak Detection Dump Tank Overboard
001 L	Steam Generator Blowdown
001 M	Wastewater Holding and Treatment System
001 N	Sanitary Wastewater Treatment System
001 P	Seawater Reverse Osmosis System Blowdown
002	Intake Structure Building Floor Drains
003	Intake Screen Wash
004	Bio Lab and Storm Water Runoff
005, 008, 009, 013, 014, 015	Yard Storm Drains
006, 007, 010, 011, 012	Storm Water Runoff
016	Bio Lab Seawater Supply Pump Valve Drain
017	Seawater Reverse Osmosis System Blowdown Drain



APPENDIX 2

DIABLO CANYON POWER PLANT

Influent and Effluent Monitoring

October 1996



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
81 HIGUERA
SAN JOSE OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424

PAGE: (M) 1

FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 10 / 01 YEAR / MO / DAY ENDING 96 / 10 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 TEMPERATURE DEGREES F METERED CONTINUOUS	DELTA TEMP TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 FLOW MGD RECORDED DAILY	INFLUENT pH pH UNITS GRAB MONTHLY	EFFLUENT 001 pH pH UNITS GRAB MONTHLY (***)	EFFLUENT 001P pH pH UNITS GRAB MONTHLY	EFFLUENT 002 pH pH UNITS GRAB MONTHLY
1	58.9	78.3	19.4	2559				8.0
2	58.0	77.5	19.5	2559				
3	56.6	76.0	19.4	2566			7.6	
4	56.4	75.5	19.1	2563				
5	58.4	77.8	19.4	2566				
6	59.9	79.1	19.2	2552				
7	59.8	78.9	19.1	2559				
8	60.2	79.4	19.2	2563	8.0	8.0		
9	60.5	79.8	19.3	2564				
10	59.4	78.8	19.4	2564				
11	59.2	78.4	19.2	2559				
12	59.0	78.5	19.5	2563				
13	56.6	76.5	19.9	2561				
14	54.9	74.5	19.6	2563				
15	55.3	74.8	19.5	2566				
16	54.5	74.2	19.7	2557				
17	54.8	74.4	19.6	2565				
18	55.2	74.2	19.0	2565				
19	54.8	74.4	19.6	2564				
20	53.6	73.2	19.6	2564				
21	53.8	73.4	19.6	2564				
22	55.0	74.1	19.1	2563				
23	54.1	73.9	19.8	2564				
24	54.0	73.7	19.7	2566				
25	53.8	73.6	19.8	2559				
26	53.1	72.9	19.8	2563				
27	54.0	73.6	19.6	2589				
28	53.7	73.5	19.8	2477				
29	54.3	73.9	19.6	2563				
30	54.3	74.0	19.7	2563				
31	54.8	74.5	19.7	2563				
MONTHLY AVG	56.2	75.7	19.5	2561	8.0	8.0	7.6	8.0
MONTHLY HIGH	60.5	79.8	19.9	2589	8.0	8.0	7.6	8.0
MONTHLY LOW	53.1	72.9	19.0	2477	8.0	8.0	7.6	8.0
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MAX 22 = 0	MAX 2760 = 0	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED			(**)					
TIMES EXCEEDED								

REMARKS: (*) NUMBER OF SAMPLES TAKEN DURING THE DAY. (**) EXCEPT DURING DEMUSSELING.
(***) DAILY WHEN DISCHARGING CHEMICAL CLEANING WASTES FORM DISCHARGES 001D, F, I, L, AND/OR M.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE

Drew Squyres January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #			
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751			
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 003 pH pH UNITS GRAB MONTHLY	EFFLUENT 004 pH pH UNITS GRAB MONTHLY	EFFLUENT 001N OIL & GREASE mg/l COMPOSITE WEEKLY	EFFLUENT 001P OIL & GREASE mg/l GRAB WEEKLY (**)	EFFLUENT 003 OIL & GREASE mg/l GRAB WEEKLY (***)	EFFLUENT 001F OIL & GREASE mg/l GRAB MONTHLY	EFFLUENT 001 T CHLOR RES ug/l GRAB 2 per CYCLE	EFFLUENT 001 CHLORINE USED lbs/day RECORDED MONTHLY	
1	8.0	7.9				< 3	12	13	792
2							12	15	777
3			< 3				12	15	762
4							12	17	762
5							12	17	762
6							12	13	762
7							12	15	762
8							12	15	782
9							12	13	822
10							12	15	822
11			< 3				12	18	822
12							12	15	822
13							12	25	822
14							12	35	822
15							12	31	816
16			< 3				12	34	810
17							12	36	810
18							12	39	789
19							12	33	762
20							12	27	762
21							12	30	762
22			< 3				12	31	762
23							12	32	747
24							12	32	732
25							12	37	726
26							12	35	720
27							12	37	720
28							12	32	720
29							12	23	720
30							12	24	720
31							12	23	720
MONTHLY AVG	8.0	7.9	< 3	No	No	< 3	25	771	
MONTHLY HIGH	8.0	7.9	< 3	Discharge	Discharge	< 3	39	822	
MONTHLY LOW	8.0	7.9	< 3			< 3	13	720	
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 15 = 0	MO AVG 15 = 1	MO AVG 15 = 1	MO AVG 15 = 0	I MAX 200 = 0	NO LIMIT	
TIMES EXCEEDED			D MAX 20 = 0	D MAX 20 = 0	D MAX 20 = 0	D MAX 20 = 0			
TIMES EXCEEDED									

REMARKS: (*) NUMBER OF SAMPLES TAKEN DURING THE DAY.
(**) WHEN 001N IS DISCHARGING TO 001P. (***) WHEN 001P IS DISCHARGING TO 003.

PAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squyres
DATE
January 15, 1997



FACILITY I.D.		YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE		NPDES PERMIT #	
3 402003001		BEGINNING 96 / 10 / 01		ENDING 96 / 10 / 31		06		CA0003751	
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFF 001N => 003	EFF 001N => 003	EFFLUENT 001D			EFFLUENT 001F			
	TOTL COLIFORM MPN/100ml GRAB 4 TIMES/WEEK	FECAL COLIFOR MPN/100ml GRAB 4 TIMES/WEEK	SUSPENDED SOLIDS mg/l 1st FLTR	SUSPENDED SOLIDS mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	SUSPENDED SOLIDS mg/l 1st FLTR	SUSPENDED SOLIDS mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	
1							3	1	2
2									
3									
4			1	1	< 1				
5									
6									
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30									
31									
MONTHLY AVG	No	No			< 1				2
MONTHLY HIGH	Discharge	Discharge			< 1				2
MONTHLY LOW					< 1				2
TIMES EXCEEDED	80% SMPLS > 1K MEAN > 200 =	NO LIMIT	NO LIMIT	MO AVG 30 = 0	NO LIMIT	NO LIMIT	NO LIMIT	MO AVG 30 = 0	
TIMES EXCEEDED	90% SMPLS > 400			D MAX 100 = 0				D MAX 100 = 0	
TIMES EXCEEDED	I MAX > 10K								

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
DATE
January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 10 / 01 YEAR / MO / DAY ENDING 96 / 10 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001G SUSPENDED SOLIDS			EFFLUENT 001H SUSPENDED SOLIDS		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET
1				3	2	1
2						
3	< 1	< 1	< 1			
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

MONTHLY AVG			< 1			1
MONTHLY HIGH			< 1			1
MONTHLY LOW			< 1			1

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 0	NO LIMIT	NO LIMIT	MO AVG 30 = 0
TIMES EXCEEDED			D MAX 100 = 0			D MAX 100 = 0
TIMES EXCEEDED						

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997





FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 10 / 01 YEAR / MO / DAY ENDING 96 / 10 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001K SUSPENDED SOLIDS			EFFLUENT 001L SUSPENDED SOLIDS		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET
1				2 <	1	2 <
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

MONTHLY AVG	No	<	1
MONTHLY HIGH	Discharge	<	1
MONTHLY LOW		<	1

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 1	NO LIMIT	NO LIMIT	MO AVG 30 = 0
TIMES EXCEEDED			D MAX 100 = 0			D MAX 100 = 0
TIMES EXCEEDED						

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
SAN MIGUEL
SAN MIGUEL, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424

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FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 10 / 01 YEAR / MO / DAY ENDING 96 / 10 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001M SUSPENDED SOLIDS			EFFLUENT 001N SUSPENDED SLDS		EFFLUENT 001P SUSPENDED SOLIDS		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l COMPOSITE WEEKLY	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	
1								
2								
3				40	25	28	< 1	
4								
5								
6								
7								
8								
9								
10								
11				10				
12								
13								
14								
15								
16				< 10				
17								
18								
19								
20								
21								
22				20				
23								
24								
25								
26								
27								
28								
29								
30								
31								
MONTHLY AVG		No		20			< 1	
MONTHLY HIGH		Discharge		40			< 1	
MONTHLY LOW				< 10			< 1	
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 1	MO AVG 60 = 0	NO LIMIT	NO LIMIT	MO AVG 30 = 0	
TIMES EXCEEDED			D MAX 100 = 0				D MAX 100 = 0	
TIMES EXCEEDED								

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE
Drew Squires January 15, 1997





FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 10 / 01 YEAR / MO / DAY ENDING 96 / 10 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 003 SUSPENDED SOLIDS			EFFLUENT 001N SETTLE SOLIDS ml/l GRAB WEEKLY	EFFLUENT 001 T CHROMIUM ug/l GRAB MONTHLY	EFFLUENT 001 COPPER ug/l GRAB MONTHLY	EFFLUENT 001 NICKEL ug/l GRAB MONTHLY	EFFLUENT 001 ZINC ug/l GRAB MONTHLY
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB	mg/l NET WEEKLY WHEN 001N & 001P => 003					
1								
2								
3				< 0.1				
4								
5								
6								
7								
8					< 5	< 3	< 3	5
9								
10								
11				< 0.1				
12								
13								
14								
15								
16				< 0.1				
17								
18								
19								
20								
21								
22				< 0.1				
23								
24								
25								
26								
27								
28								
29								
30								
31								

MONTHLY AVG	No	< 0.1	< 5	< 3	< 3	5
MONTHLY HIGH	Discharge	< 0.1	< 5	< 3	< 3	5
MONTHLY LOW		< 0.1	< 5	< 3	< 3	5

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 1	MO AVG 1.0 = 0	6M-MEAN 10 = 0	6M-MEAN 10 = 0	6M-MEAN 30 = 0	6M-MEAN 70 = 0
TIMES EXCEEDED			D MAX 100 = 0	D MAX 3.0 = 0	D MAX 40 = 0	D MAX 50 = 0	D MAX 100 = 0	D MAX 380 = 0
TIMES EXCEEDED					I MAX 100 = 0	I MAX 140 = 0	I MAX 260 = 0	I MAX 990 = 0

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

LOCAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE

Drew Squyres January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #			
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751			
STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT T CHROMIUM ug/l GRAB JA/AP/JUL/OCT	INFLUENT COPPER ug/l GRAB JA/AP/JUL/OCT	INFLUENT NICKEL ug/l GRAB JA/AP/JUL/OCT	INFLUENT AMMONIA (N) ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001 AMMONIA (N) ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001D OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001G OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001H OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	
1								< 3	
2									
3							< 3		
4						< 3			
5									
6									
7									
8	< 5	< 3	< 3	< 82	98				
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
MONTHLY AVG	< 5	< 3	< 3	< 82	98	< 3	< 3	< 3	
MONTHLY HIGH	< 5	< 3	< 3	< 82	98	< 3	< 3	< 3	
MONTHLY LOW	< 5	< 3	< 3	< 82	98	< 3	< 3	< 3	
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	6M-MEAN 3060 = 0	MO AVG 15 = 0	MO AVG 15 = 0	MO AVG 15 = 0	
TIMES EXCEEDED					D MAX 12240 = 0	D MAX 20 = 0	D MAX 20 = 0	D MAX 20 = 0	
TIMES EXCEEDED					I MAX 30600 = 0				

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squyres
DATE
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FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 10 / 01 YEAR / MO / DAY ENDING 96 / 10 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001I OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001J OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001K OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001L OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001M OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001P OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 002 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 003 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT
1				2	< 3		2	< 3
2								
3						< 3		
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

MONTHLY AVG	No Discharge	No Discharge	No Discharge	< 3	< 3	No Discharge	< 3	4	< 3
MONTHLY HIGH				< 3	< 3		< 3	4	< 3
MONTHLY LOW				< 3	< 3		< 3	< 3	< 3

TIMES EXCEEDED	MO AVG 15 = 1	MO AVG 15 = 1	MO AVG 15 = 1	MO AVG 15 = 0	MO AVG 15 = 1	MO AVG 15 = 0			
TIMES EXCEEDED	D MAX 20 = 0								
TIMES EXCEEDED									

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
 DATE
 January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 004 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001 TOX CONCEN TU GRAB JA/AP/JUL/OCT	EFFLUENT 00D CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 00IH CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 00IL CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 00IF CADMIUM ug/l 1 WEEK COMP JA/AP/JUL/OCT
1	< 1					
2						
3						
4						
5						
6						
7		(**)				
8						
9						
10						
11			6	2 < 1	2 < 1	< 1
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
MONTHLY AVG	< 1		6	< 1	< 1	< 1
MONTHLY HIGH	< 1		6	< 1	< 1	< 1
MONTHLY LOW	< 1		6	< 1	< 1	< 1
TIMES EXCEEDED	MO AVG 15 =601-MEAN 0.26	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED	D MAX 20 = 0 =0					
TIMES EXCEEDED						

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.
** NO MORTALITIES.

LOCAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
DATE
January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #					
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751					
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H T CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L T CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F T CHROMIUM ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001D COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F COPPER ug/l 1 WEEK COMP JA/AP/JUL/OCT			
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											
11	< 5	2	14	2 < 5	< 5	31	2	91	2	23	20
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											
25											
26											
27											
28											
29											
30											
31											
MONTHLY AVG	< 5	14	< 5	< 5	31	91	23	20			
MONTHLY HIGH	< 5	17	< 5	< 5	31	103	31	20			
MONTHLY LOW	< 5	10	< 5	< 5	31	78	14	20			
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT			
TIMES EXCEEDED											
TIMES EXCEEDED											

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squyres
DATE
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FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 10 / 01 YEAR / MO / DAY ENDING 96 / 10 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F LEAD ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001D MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F MERCURY ug/l 1 WEEK COMP JA/AP/JUL/OCT
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11	3	2	2	< 1	1	< 0.20	< 1	< 1
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
MONTHLY AVG	3	2	< 1	1	< 0.20	< 1	< 1	< 1
MONTHLY HIGH	3	2	< 1	1	< 0.20	< 1	< 1	< 1
MONTHLY LOW	3	2	< 1	1	< 0.20	< 1	< 1	< 1
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED								
TIMES EXCEEDED								

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE
Drew Squyres January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #				
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751				
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F NICKEL ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001D SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F SILVER ug/l 1 WEEK COMP JA/AP/JUL/OCT		
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11	< 8	2	26,	2 < 8	< 8	< 1	2	13	2 < 1	10
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
MONTHLY AVG	< 8	26	< 8	< 8	< 8	< 1	13	< 1	10	
MONTHLY HIGH	< 8	31	< 8	< 8	< 8	< 1	13	< 1	10	
MONTHLY LOW	< 8	21	< 8	< 8	< 8	< 1	13	< 1	10	
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	
TIMES EXCEEDED										
TIMES EXCEEDED										

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squyres
DATE
January 15, 1997



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
SAN JUAN BAUTISTA AVENUE
SAN JOSE, CALIF. 95128

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424

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FACILITY I.D. 3 402003001
YEAR / MO / DAY BEGINNING 96 / 10 / 01
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STATE CODE 06
NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D ZINC ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H ZINC ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L ZINC ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F ZINC ug/l 1 WEEK COMP JA/AP/JUL/OCT	
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11	258	2	20	2 < 1	44
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

MONTHLY AVG	258	20	< 1	44
MONTHLY HIGH	258	23	< 1	44
MONTHLY LOW	258	16	< 1	44

TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED				
TIMES EXCEEDED				

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squires</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 10 / 01 YEAR / MO / DAY ENDING 96 / 10 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001F COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001I COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001L COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001M COPPER mg/l 24-HR COMP. METAL CLNG
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

MONTHLY AVG No No No No No
MONTHLY HIGH Discharge Discharge Discharge Discharge Discharge
MONTHLY LOW

TIMES EXCEEDED MO AVG 1 = 1 MO AVG 1 = 1
TIMES EXCEEDED D MAX 1 = 0 D MAX 1 = 0
TIMES EXCEEDED

REMARKS: • NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 10 / 01 YEAR / MO / DAY ENDING 96 / 10 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001F IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001I IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001L IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001M IRON mg/l 24-HR COMP. METAL CLNG
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

MONTHLY AVG No
MONTHLY HIGH Discharge No Discharge No Discharge No Discharge No Discharge

TIMES EXCEEDED MO AVG 1 = 1 MO AVG 1 = 1
TIMES EXCEEDED D MAX 1 = 0 D MAX 1 = 0
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

PLANT EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squires</i>	January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #		
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751		
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001 TITANIUM ug/l GRAB OCTOBER	INFLUENT ARSENIC ug/l GRAB OCTOBER	EFFLUENT 001 ARSENIC ug/l GRAB OCTOBER	INFLUENT CADMIUM ug/l GRAB OCTOBER	EFFLUENT 001 CADMIUM ug/l GRAB OCTOBER	INFLUENT LEAD ug/l GRAB OCTOBER	EFFLUENT 001 LEAD ug/l GRAB OCTOBER	INFLUENT ZINC ug/l GRAB OCTOBER
1								
2								
3								
4								
5								
6								
7								
8	< 10	< 10	< 10	< 5	< 5	< 5	< 5	10
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
MONTHLY AVG	< 10	< 10	< 10	< 5	< 5	< 5	< 5	10
MONTHLY HIGH	< 10	< 10	< 10	< 5	< 5	< 5	< 5	10
MONTHLY LOW	< 10	< 10	< 10	< 5	< 5	< 5	< 5	10
TIMES EXCEEDED	NO LIMIT	NO LIMIT	6M - MEAN 30	NO LIMIT	6M-MEAN 10 = 0	NO LIMIT	6M-MEAN 10 = 0	
TIMES EXCEEDED			D MAX 150 = 0		D MAX 20 = 0		D MAX 40 = 0	
TIMES EXCEEDED			I MAX 400 = 0		I MAX 50 = 0		I MAX 100 = 0	

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY. (**) INFLUENT ANALYSIS PERFORMED FOR COMPARISON TO EFFLUENTS.
ALL OTHER ANNUAL ANALYSIS WILL BE PERFORMED IN OCTOBER

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squipes
DATE
January 15, 1997



FACILITY I.D.	YEAR / MO / DAY BEGINNING		YEAR / MO / DAY ENDING		STATE CODE	NPDES PERMIT #		
3 402003001	96 / 10 / 01		96 / 10 / 31		06	CA0003751		
STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT MERCURY ug/l GRAB OCTOBER	EFFLUENT 001 MERCURY ug/l GRAB OCTOBER	INFLUENT SILVER ug/l GRAB OCTOBER	EFFLUENT 001 SILVER ug/l GRAB OCTOBER	INFLUENT CYANIDE ug/l GRAB OCTOBER	EFFLUENT 001 CYANIDE ug/l GRAB OCTOBER	INFLUENT PHENOLIC CMP ug/l (NONCL) GRAB OCTOBER	EFFLUENT 001 PHENOLIC CMP ug/l (NONCL) GRAB OCTOBER
1								
2								
3								
4								
5								
6								
7								
8	< 0.2	< 0.2	< 10	< 10	< 10	< 10	< 100	< 100
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
MONTHLY AVG	< 0.20	< 0.20	< 10	< 10	< 10	< 10	< 100	< 100
MONTHLY HIGH	< 0.20	< 0.20	< 10	< 10	< 10	< 10	< 100	< 100
MONTHLY LOW	< 0.20	< 0.20	< 10	< 10	< 10	< 10	< 100	< 100
TIMES EXCEEDED	No Limit	6M-MEAN 0.2	No Limit	6M-MEAN 2.9=0	No Limit	6M-MEAN 30=0	No Limit	6M-MEAN 150=0
TIMES EXCEEDED		DMAX 0.8 = 0		DMAX 13.6=0		DMAX 100=0		DMAX 610= 0
TIMES EXCEEDED		IMAX 2 = 0		IMAX 35= 0		IMAX 260=0		IMAX 1530=0

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.
** WHEN 001N IS DISCHARGING TO 001P.
*** WHEN 001P IS DISCHARGING TO 003.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
DATE
January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #	
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751	
STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT CHLOR PHENOL ug/l GRAB OCTOBER	EFFLUENT 001 CHLOR PHENOL ug/l GRAB OCTOBER	EFFLUENT 001D LITHIUM mg/l GRAB OCTOBER	EFFLUENT 001D BORON mg/l GRAB OCTOBER	EFFLUENT 001D HYDRAZINE mg/l GRAB OCTOBER	EFFLUENT 005 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 008 OIL & GREASE mg/l GRAB OCTOBER
1							
2							
3							
4							
5							
6							
7							
8	** < 10	** < 10	0.23	632	< 10		
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29						< 3	< 3
30							
31							
MONTHLY AVG	< 10	< 10	0.23	632	< 10	< 3	< 3
MONTHLY HIGH	< 10	< 10	0.23	632	< 10	< 3	< 3
MONTHLY LOW	< 10	< 10	0.23	632	< 10	< 3	< 3
TIMES EXCEEDED	No Limit	6M-MEAN 1	No Limit	No Limit	No Limit	MO AVG 15=0	MO AVG 15=0
TIMES EXCEEDED		DMAX 20=0				DMAX 20=0	DMAX 20=0
TIMES EXCEEDED		IMAX 50=0					

REMARKS:
 * NUMBER OF SAMPLES TAKEN DURING THE DAY.
 ** WHEN 001N IS DISCHARGING TO 001P.
 *** WHEN 001P IS DISCHARGING TO 003.
 **** VALUE REFLECTS RESULTS FOR EACH OF 14 ANALYTES.

REGIONAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #	
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751	
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 009 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 013 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 015 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 016 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 017 OIL & GREASE mg/l GRAB OCTOBER	INFLUENT PCB'S ug/l GRAB OCTOBER	EFFLUENT 001 PCB'S ug/l GRAB OCTOBER
1							
2							
3							
4							
5							
6							
7							
8						*** < 0.5	** < 0.5
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29	< 3	< 3	< 3				
30							
31							
MONTHLY AVG	< 3	< 3	< 3	No	No	< 1	< 1
MONTHLY HIGH	< 3	< 3	< 3	Discharge	Discharge	< 1	< 1
MONTHLY LOW	< 3	< 3	< 3			< 0.50	< 0.50
TIMES EXCEEDED	MO AVG 15=0	No Limit	No Limit				
TIMES EXCEEDED	DMAX 20=0						
TIMES EXCEEDED							

REMARKS:
 * NUMBER OF SAMPLES TAKEN DURING THE DAY.
 ** WHEN 001N IS DISCHARGING TO 001P.
 *** WHEN 001P IS DISCHARGING TO 003.
 **** VALUE REFLECTS RESULTS FOR EACH OF 7 ANALYTES.

LOCAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
 DATE
 January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #		
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751		
STATION	EFFLUENT 001N SLUDGE MOISTURE %	EFFLUENT 001N SLUDGE TOT KjLDL N mg/kg	EFFLUENT 001N SLUDGE AMMONIA (N) mg/kg	EFFLUENT 001N SLUDGE NITRATE (N) mg/kg	EFFLUENT 001N SLUDGE TOT PHOSPHS mg/kg	EFFLUENT 001N SLUDGE pH pH units	EFFLUENT 001N SLUDGE OIL & GREASE mg/kg	EFFLUENT 001N SLUDGE BORON mg/kg
ANALYSIS UNITS SMPL TYPE FREQ.	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16	99.6	320	8	< 1	100	6.6	4	< 5
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
MONTHLY AVG	99.6	320	8	< 1	100	6.6	4	< 5.0
MONTHLY HIGH	99.6	320	8	< 1	100	6.6	4	< 5.0
MONTHLY LOW	99.6	320	8	< 1	100	6.6	4	< 5.0
TIMES EXCEEDED	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit	No Limit
TIMES EXCEEDED								
TIMES EXCEEDED								

REMARKS:
 * NUMBER OF SAMPLES TAKEN DURING THE DAY.
 ** WHEN 001N IS DISCHARGING TO 001P.
 *** WHEN 001P IS DISCHARGING TO 003.

REGIONAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
 DATE
 January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #		
3 402003001	BEGINNING	96 / 10 / 01	ENDING	96 / 10 / 31	06	CA0003751		
STATION	EFFLUENT 001N SLUDGE CADMIUM mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE COPPER mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE CHROMIUM mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE LEAD mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE NICKEL mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE MERCURY mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE ZINC mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE VOLUME tons OCTOBER
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16	< 0.3	< 5	< 0.5	< 1	< 0.5	< 0.02	3	
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
MONTHLY AVG	< 0.3	< 5	< 0.5	< 1	< 0.5	< 0.02	3	
MONTHLY HIGH	< 0.3	< 5	< 0.5	< 1	< 0.5	< 0.02	3	
MONTHLY LOW	< 0.3	< 5	< 0.5	< 1	< 0.5	< 0.02	3	
TIMES EXCEEDED	10xSTLC=0	10xSTLC=0	10xSTLC=0	10xSTLC=0	10xSTLC=0	10xSTLC=0	10xSTLC=0	
TIMES EXCEEDED	10 mg/kg=0	250 mg/kg=0	50 mg/kg=0	50 mg/kg=0	200 mg/kg=0	2 mg/kg=0	2500 mg/kg=0	
TIMES EXCEEDED	TTLC>100=0	TTLC>2500=0	TTLC>500=0	TTLC>1000=0	TTLC>2000=0	TTLC>20=0	TTLC>5000=0	

REMARKS:
 * NUMBER OF SAMPLES TAKEN DURING THE DAY.
 ** WHEN 001N IS DISCHARGING TO 001P.
 *** WHEN 001P IS DISCHARGING TO 003.

REGIONAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
 DATE
 January 15, 1997



Unit: 0 NPDES
U1 DISCHARGE CHLORINEFrom: 10/01/96 0:01
Through: 10/31/96 23:59

Parameter:	0000 CHLOR INE	0400 CHLOR INE	0800 CHLOR INE	1200 CHLOR INE	1600 CHLOR INE	2000 CHLOR INE	lbs CHLORI NE INJECTE
High Limit:	89	89	89	89	89	89	
Low Limit:	10	10	10	10	10	10	
Sample Time:	ppb	ppb	PPB	PPB	PPB	PPB	LBS

10/01/96 0:01	16	12	13	<10	<10	15	402
10/02/96 0:01	11	16	15	16	17	16	387
10/03/96 0:01	19	17	14	11	11	16	372
10/04/96 0:01	18	17	13	12	10	15	372
10/05/96 0:01	19	18	17	16	10	<10	372
10/06/96 0:01	<10	<10	<10	<10	<10	<10	372
10/07/96 0:01	<10	<10	<10	26	26	25	372
10/08/96 0:01	28	21	13	<10	15	12	382
10/09/96 0:01	14	16	10	12	<10	10	402
10/10/96 0:01	<10	<10	<10	13	11	10	402
10/11/96 0:01	12	13	<10	<10	<10	<10	402
10/12/96 0:01	<10	<10	<10	<10	<10	13	402
10/13/96 0:01	10	16	15	<10	38	50	402
10/14/96 0:01	44	38	41	34	34	36	402
10/15/96 0:01	36	36	32	23	26	28	396
10/16/96 0:01	35	35	34	34	30	34	390
10/17/96 0:01	36	32	36	36	39	41	390
10/18/96 0:01	36	38	38	32	38	45	384
10/19/96 0:01	38	36	38	36	38	35	372
10/20/96 0:01	38	38	38	38	32	38	372
10/21/96 0:01	34	38	38	31	35	33	372
10/22/96 0:01	33	29	28	26	27	38	372
10/23/96 0:01	32	34	33	30	34	29	372
10/24/96 0:01	22	23	26	22	34	42	372
10/25/96 0:01	36	38	35	30	42	42	381
10/26/96 0:01	42	46	38	42	38	39	390

1/14/97 8:30

Requested by Ken Cortese

Page: 1



Unit: 0. NPDES
U1 DISCHARGE CHLORINE

From: 10/01/96 0:01
Through: 10/31/96 23:59

Parameter:	0000 CHLOR INE	0400 CHLOR INE	0800 CHLOR INE	1200 CHLOR INE	1600 CHLOR INE	2000 CHLOR INE	lbs CHLORI NE INJECTE
High Limit:	89	89	89	89	89	89	
Low Limit:	10	10	10	10	10	10	
Sample Time:	ppb	ppb	PPB	PPB	PPB	PPB	LBS

10/27/96 0:01	46	42	45	40	38	42	390
10/28/96 0:01	42	42	37	31	29	31	390
10/29/96 0:01	33	31	31	26	18	24	390
10/30/96 0:01	22	26	29	25	18	25	390
10/31/96 0:01	29	16	22	22	24	24	390



Unit: 0 NPDES
U2 DISCHARGE CHLORINEFrom: 10/01/96 0:01
Through: 10/31/96 23:59

Parameter:	0100 CHLOR INE	0500 CHLOR INE	0900 CHLOR INE	1300 CHLOR INE	1700 CHLOR INE	2100 CHLOR INE	LBS OF CHL ORINE
High Limit:	89	89	89	89	89	89	
Low Limit:	0	0	0	0	0	0	
Sample Time:	PPB	PPB	PPB	PPB	PPB	PPB	LBS

10/01/96 1:00	14	18	17	<10	<10	14	390
10/02/96 1:00	12	12	15	16	17	17	390
10/03/96 1:00	16	18	14	12	16	21	390
10/04/96 1:00	21	21	19	17	19	20	390
10/05/96 1:00	20	20	19	19	17	18	390
10/06/96 1:00	19	17	17	18	<10	12	390
10/07/96 1:00	15	12	11	<10	<10	<10	390
10/08/96 1:00	<10	<10	<10	16	15	14	400
10/09/96 1:00	14	18	16	13	14	12	420
10/10/96 1:00	17	16	18	19	23	25	420
10/11/96 1:00	27	30	25	20	23	23	420
10/12/96 1:00	19	19	19	16	17	30	420
10/13/96 1:00	27	30	30	19	24	33	420
10/14/96 1:00	30	29	30	33	30	35	420
10/15/96 1:00	35	35	28	27	29	34	420
10/16/96 1:00	32	34	37	33	30	35	420
10/17/96 1:00	35	35	30	35	40	40	420
10/18/96 1:00	44	46	44	37	33	37	405
10/19/96 1:00	35	33	33	35	20	20	390
10/20/96 1:00	20	17	14	20	17	17	390
10/21/96 1:00	20	14	17	30	36	36	390
10/22/96 1:00	34	34	34	29	28	28	390
10/23/96 1:00	27	32	32	33	34	32	375
10/24/96 1:00	34	38	34	36	32	35	360
10/25/96 1:00	35	37	38	38	36	36	345
10/26/96 1:00	27	30	27	30	30	35	330

1/15/97 7:56

Requested by Ken Cortese

Page: 1





**SANITARY WASTEWATER TREATMENT SYSTEM
CONTRACT #Z78-2104-86**

Rev. 1/95

<p>ECO Resources Inc. 39899 Balentine Drive Suite 200 Newark, CA 94560</p>	<p>Pacific Gas & Electric Company Contacts: Joseph Higgins (805) 545-4103 Heather Rumsey (805) 545-4045</p>
---	--

PARAMETER	UNITS	FREQ.	LIMITS		SAMPLE		RESULTS
			MONTHLY AVERAGE	DAILY MAX	DATE	TIME	
1. Oil and Grease	mg/l	Weekly	15	20	10-3	10:34	<3mg/l AVE OF 3
2	"	"	"	"	10-11	10:18	<3mg/l "
3	"	"	"	"	10-16	10:45	<3mg/l "
4	"	"	"	"	10-22	10:59	<3mg/l "
5	"	"	"	"			
1. Suspended Solids	mg/l	Weekly	60	N/A	10-3	10:14	40 mg/l
2	"	"	"	"	10-11	10:00	10 mg/l
3	"	"	"	"	10-16	10:23	<10 mg/l
4	"	"	"	"	10-22	10:43	20 mg/l
5	"	"	"	"			
1. Settleable Solids	ml/l	Weekly	1.0	3.0	10-3	10:30	<0.1 ml/l
	"	"	"	"	10-11	10:02	<0.1 ml/l
	"	"	"	"	10-16	11:00	<0.1 ml/l
4	"	"	"	"	10-22	11:15	<0.1 ml/l
5	"	"	"	"			

NOTES:

1. Analysis results above the monthly average shall be reported verbally within 8 hours to a PG&E contact listed above.
2. Oil & Grease and Suspended Solids samples are composites during 1 discharge cycle.
3. If ECO diagnostic analysis results indicate that the system effluent exceeds the listed limits, increase the frequency at which samples are collected and submitted to contract lab.

COMMENTS:

SLUDGE DISPOSAL DATA

MONTH REMOVED	VOLUME REMOVED	WEIGHT REMOVED	DISPOSAL SITE
OCTOBER		1904 lbs.	SANTA MARIA WWTP

Data Sheet completed by:

J. M. Wyporski

Date:

November 7th, 1996



APPENDIX 3

DIABLO CANYON POWER PLANT

Influent and Effluent Monitoring

November 1996



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
81 HIGUERA
SANTA LUIS OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424

PAGE: (M) 1

FACILITY I.D. 3 402003001		YEAR / MO / DAY BEGINNING 96 / 11 / 01		YEAR / MO / DAY ENDING 96 / 11 / 30		STATE CODE 06	NPDES PERMIT # CA0003751		
STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 TEMPERATURE DEGREES F METERED CONTINUOUS	DELTA TEMP TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 FLOW MGD RECORDED DAILY	INFLUENT pH pH UNITS GRAB MONTHLY	EFFLUENT 001 pH pH UNITS GRAB MONTHLY (***)	EFFLUENT 001P pH pH UNITS GRAB MONTHLY	EFFLUENT 002 pH pH UNITS GRAB MONTHLY	
1	55.6	75.3	19.7	2563					
2	56.5	73.7	17.2	2559					
3	56.1	75.1	19.0	2537					
4	56.3	74.9	18.6	2164					
5	55.6	74.7	19.1	2559					
6	54.7	73.9	19.2	2564	7.9	7.9	7.6	2 7.9	
7	55.1	74.3	19.2	2562			7.7		
8	55.7	74.9	19.2	2563					
9	55.9	75.1	19.2	2559					
10	55.9	75.1	19.2	2566					
11	55.8	75.0	19.2	2599					
12	55.9	72.4	16.5	2571					
13	56.4	73.5	17.1	2570					
14	55.8	73.7	17.9	2565					
15	54.7	73.9	19.2	2561					
16	54.4	73.5	19.1	2559					
17	55.4	74.6	19.2	2561					
18	55.7	75.0	19.3	2561					
19	55.9	75.1	19.2	2564					
20	56.7	76.0	19.3	2566					
21	56.5	75.8	19.3	2561					
22	56.9	73.0	16.1	2215					
23	56.8	69.5	12.7	1928					
24	56.9	69.5	12.6	1928					
25	56.9	69.6	12.7	1930					
26	56.0	68.4	12.4	1992					
27	56.6	67.8	11.2	2169					
28	56.1	68.6	12.5	1927					
29	53.9	66.5	12.6	1934					
30	54.2	66.2	12.0	2383					
31									
MONTHLY AVG	55.8	72.8	17.0	2395	7.9	7.9	7.7	7.9	
MONTHLY HIGH	56.9	76.0	19.7	2599	7.9	7.9	7.7	7.9	
MONTHLY LOW	53.9	66.2	11.2	1927	7.9	7.9	7.6	7.9	
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MAX 22 = 0	MAX 2760 = 0	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	
TIMES EXCEEDED			(**)						
TIMES EXCEEDED									

REMARKS: (*) NUMBER OF SAMPLES TAKEN DURING THE DAY. (**) EXCEPT DURING DEMUSSELING.
(***) DAILY WHEN DISCHARGING CHEMICAL CLEANING WASTES FORM DISCHARGES 001D, F, I, L, AND/OR M.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
DATE
January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 11 / 01 YEAR / MO / DAY ENDING 96 / 11 / 30 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 003 pH pH UNITS GRAB MONTHLY	EFFLUENT 004 pH pH UNITS GRAB MONTHLY	EFFLUENT 001N OIL & GREASE mg/l COMPOSITE WEEKLY	EFFLUENT 001P OIL & GREASE mg/l GRAB WEEKLY (**)	EFFLUENT 003 OIL & GREASE mg/l GRAB WEEKLY (***)	EFFLUENT 001F OIL & GREASE mg/l GRAB MONTHLY	EFFLUENT 001 T CHLOR RES ug/l GRAB 2 per CYCLE	EFFLUENT 001 CHLORINE USED lbs/day RECORDED MONTHLY
1			3				12	22
2							12	25
3							12	23
4							12	18
5							12	22
6	7.8	7.9		46			12	27
7			< 3	< 1			12	26
8							12	26
9							12	27
10							12	26
11							12	29
12							12	56
13			4				12	46
14							12	36
15							12	33
16							12	35
17							12	31
18							12	26
19			< 3				12	19
20							12	18
21							12	19
22							6	14
23							8	14
24							12	13
25							12	12
26			< 3				10	11
27							10	17
28							4	31
29							12	28
30							12	16
31								
MONTHLY AVG	7.8	7.9	3	24	No	No	25	598
MONTHLY HIGH	7.8	7.9	4	46	Discharge	Discharge	56	720
MONTHLY LOW	7.8	7.90	3	< 1			11	200

TIMES EXCEEDED NO LIMIT NO LIMIT MO AVG 15 = 0 MO AVG 15 = 1 MO AVG 15 = 1 MO AVG 15 = 1 I MAX 200 = 0 NO LIMIT
 TIMES EXCEEDED D MAX 20 = 0 D MAX 20 = 1 D MAX 20 = 0 D MAX 20 = 0
 TIMES EXCEEDED

REMARKS: (*) NUMBER OF SAMPLES TAKEN DURING THE DAY.
 (**) WHEN 001N IS DISCHARGING TO 001P. (***) WHEN 001P IS DISCHARGING TO 003.

REGIONAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE
Drew Squires January 15, 1997



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FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 11 / 01 YEAR / MO / DAY ENDING 96 / 11 / 30 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFF 001N = > 003 TOTL COLIFORM MPN/100ml GRAB 4 TIMES/WEEK	EFF 001N = > 003 FECAL COLIFOR MPN/100ml GRAB 4 TIMES/WEEK	EFFLUENT 001D SUSPENDED SOLIDS mg/l 1st FLTR mg/l 2nd FLTR mg/l NET GRAB MONTHLY			EFFLUENT 001F SUSPENDED SOLIDS mg/l 1st FLTR mg/l 2nd FLTR mg/l NET GRAB MONTHLY		
	1							
2								
3								
4								
5								
6								
7						3	1	2
8								
9								
10								
11			3	1	2			
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30								
31								
MONTHLY AVG	No	No			2			2
MONTHLY HIGH	Discharge	Discharge			2			2
MONTHLY LOW					2			2
TIMES EXCEEDED	80% SMPLS > 1K	MEAN > 200 =	NO LIMIT	NO LIMIT	MO AVG 30 = 0	NO LIMIT	NO LIMIT	MO AVG 30 = 0
TIMES EXCEEDED		90% SMPLS > 400			D MAX 100 = 0			D MAX 100 = 0
TIMES EXCEEDED	1 MAX > 10K							

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE
Drew Squyres January 15, 1997



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
81 HIGUERA
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DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424

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FACILITY I.D. 3 402003001
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 00IG SUSPENDED SOLIDS			EFFLUENT 00IH SUSPENDED SOLIDS		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET
1				3	3	< 1
2						
3						
4						
5						
6	< 1	< 1	< 1			
7						
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MONTHLY AVG < 1 < 1
MONTHLY HIGH < 1 < 1
MONTHLY LOW < 1 < 1

TIMES EXCEEDED NO LIMIT NO LIMIT MO AVG 30 = 0 NO LIMIT NO LIMIT MO AVG 30 = 0
TIMES EXCEEDED D MAX 100 = 0 D MAX 100 = 0
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 0011 SUSPENDED SOLIDS			EFFLUENT 0011 SUSPENDED SOLIDS		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET
1						
2						
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19						
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21						
22						
23				< 1	< 1	< 1
24						
25						
26						
27						
28						
29						
30						
31						

MONTHLY AVG No < 1
 MONTHLY HIGH Discharge < 1
 MONTHLY LOW < 1

TIMES EXCEEDED NO LIMIT NO LIMIT MO AVG 30 = 1 NO LIMIT NO LIMIT MO AVG 30 = 0
 TIMES EXCEEDED MAX 100 = 0 MAX 100 = 0
 TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT OILK SUSPENDE SOLIDS			EFFLUENT OIL SUSPENDE SOLIDS		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET
1						
2						
3						
4						
5						
6				2 < 1	2 < 1	2 < 1
7						
8						
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30						
31						

MONTHLY AVG No < 1
 MONTHLY HIGH Discharge < 1
 MONTHLY LOW < 1

TIMES EXCEEDED NO LIMIT NO LIMIT MO AVG 30 = 1 NO LIMIT NO LIMIT MO AVG 30 = 0
 TIMES EXCEEDED D MAX 100 = 0 D MAX 100 = 0
 TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 002 SUSPENDED SOLIDS			EFFLUENT 003 SUSPENDED SOLIDS		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET
1						
2						
3						
4						
5						
6	6	6	< 1	11	12	< 1
7						
8						
9						
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11						
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26						
27						
28						
29						
30						
31						
MONTHLY AVG			< 1			< 1
MONTHLY HIGH			< 1			< 1
MONTHLY LOW			< 1			< 1
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 0	NO LIMIT	NO LIMIT	MO AVG 30 = 0
TIMES EXCEEDED			D MAX 100 = 0			D MAX 100 = 0
TIMES EXCEEDED						

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

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FACILITY I.D.	YEAR / MO / DAY			YEAR / MO / DAY			STATE CODE	NPDES PERMIT #		
3 402003001	BEGINNING 96 / 11 / 01			ENDING 96 / 11 / 30			06	CA0003751		
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 003 SUSPENDED SOLIDS mg/l 1st FLTR mg/l 2nd FLTR GRAB WEEKLY WHEN 001N & 001P => 003			EFFLUENT 001N SETTL SOLIDS ml/l GRAB WEEKLY	EFFLUENT 001 T CHROMIUM ug/l GRAB MONTHLY	EFFLUENT 001 COPPER ug/l GRAB MONTHLY	EFFLUENT 001 NICKEL ug/l GRAB MONTHLY	EFFLUENT 001 ZINC ug/l GRAB MONTHLY		
1				< 0.1						
2										
3										
4										
5										
6					< 5	< 3	< 3	< 3		
7				< 0.1						
8										
9										
10										
11										
12										
13				< 0.1						
14										
15										
16										
17										
18										
19				< 0.1						
20										
21										
22										
23										
24										
25										
26				< 0.1						
27										
28										
29										
30										
31										
MONTHLY AVG	No Discharge			< 0.1	< 5	< 3	< 3	< 3		
MONTHLY HIGH	Discharge			< 0.1	< 5	< 3	< 3	< 3		
MONTHLY LOW				< 0.1	< 5	< 3	< 3	< 3		
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 1	MO AVG 1.0 = 0	6M-MEAN 10 = 0	6M-MEAN 10 = 0	6M-MEAN 30 = 0	6M-MEAN 70 = 0		
TIMES EXCEEDED			D MAX 100 = 0	D MAX 3.0 = 0	D MAX 40 = 0	D MAX 50 = 0	D MAX 100 = 0	D MAX 380 = 0		
TIMES EXCEEDED					I MAX 100 = 0	I MAX 140 = 0	I MAX 260 = 0	I MAX 990 = 0		

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

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GREGORY M. RUEGER

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Drew Squyres
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FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #		
3 402003001	BEGINNING	96 / 11 / 01	ENDING	96 / 11 / 30	06	CA0003751		
STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT T CHROMIUM ug/l GRAB JA/AP/JUL/OCT	INFLUENT COPPER ug/l GRAB JA/AP/JUL/OCT	INFLUENT NICKEL ug/l GRAB JA/AP/JUL/OCT	INFLUENT AMMONIA (N) ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001 AMMONIA (N) ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001D OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001G OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001H OIL & GREASE mg/l GRAB JA/AP/JUL/OCT
1								
2								
3								
4								
5								
6	** < 5	** < 3	** < 3					
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31								
MONTHLY AVG	< 5	< 3	< 3					
MONTHLY HIGH	< 5	< 3	< 3					
MONTHLY LOW	< 5	< 3	< 3					
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	6M-MEAN 3060 = 0	MO AVG 15 = 0	MO AVG 15 = 0	MO AVG 15 = 0
TIMES EXCEEDED					D MAX 12240 = 0	D MAX 20 = 0	D MAX 20 = 0	D MAX 20 = 0
TIMES EXCEEDED					I MAX 30600 = 0			

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.
** Analysis performed for comparison to effluent. Other quarterly analysis performed in October.

REGIONAL EXECUTIVE OFFICER
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Drew Squyres
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FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #		
3 402003001	BEGINNING	96 / 11 / 01	ENDING	96 / 11 / 30	06	CA0003751		
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 0011 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001J OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001K OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001L OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001M OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001P OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 002 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 003 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT
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31								
MONTHLY AVG	No	< 3	No	< 3				
MONTHLY HIGH	Discharge	< 3	Discharge	< 3				
MONTHLY LOW		< 3		< 3				
TIMES EXCEEDED	MO AVG 15 = 1	MO AVG 15 = 0	MO AVG 15 = 1	MO AVG 15 = 0	MO AVG 15 = 0	MO AVG 15 = 0	MO AVG 15 = 0	MO AVG 15 = 0
TIMES EXCEEDED	D MAX 20 = 0	D MAX 20 = 0	D MAX 20 = 0					
TIMES EXCEEDED								

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 004 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001 TOX CONCEN TU GRAB JA/AP/JUL/OCT	EFFLUENT 001D CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F CADMIUM ug/l 1 WEEK COMP JA/AP/JUL/OCT	
1							
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED MO AVG 15 = 681-MEAN 0.26 NO LIMIT NO LIMIT NO LIMIT NO LIMIT
TIMES EXCEEDED D MAX 20 = 0 =0
TIMES EXCEEDED

REMARKS: • NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

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CALIFORNIA REGIONAL WATER QUALITY
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CENTRAL COAST REGION
81 HIGUERA
SANTA LUIS OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H T CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L T CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F T CHROMIUM ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001D COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F COPPER ug/l 1 WEEK COMP JA/AP/JUL/OCT
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED NO LIMIT NO LIMIT

TIMES EXCEEDED

TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F LEAD ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001H MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F MERCURY ug/l 1 WEEK COMP JA/AP/JUL/OCT
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED NO LIMIT NO LIMIT

TIMES EXCEEDED

TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F NICKEL ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001D SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F SILVER ug/l 1 WEEK COMP JA/AP/JUL/OCT
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED NO LIMIT NO LIMIT

TIMES EXCEEDED

TIMES EXCEEDED

REMARKS: • NUMBER OF SAMPLES TAKEN DURING THE DAY.

AL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE

Drew Squyres January 15, 1997



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
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81 FIGUERA
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DISCHARGE SELF MONITORING REPORT

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D ZINC ug/l QTRLY COMP 1A/AP/JUL/OCT	EFFLUENT 001H ZINC ug/l QTRLY COMP 1A/AP/JUL/OCT	EFFLUENT 001L ZINC ug/l QTRLY COMP 1A/AP/JUL/OCT	EFFLUENT 001F ZINC ug/l 1 WEEK COMP 1A/AP/JUL/OCT
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED NO LIMIT NO LIMIT NO LIMIT NO LIMIT
TIMES EXCEEDED
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001F COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001I COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001L COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001M COPPER mg/l 24-HR COMP. METAL CLNG
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31					

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED MO AVG 1 = 0 MO AVG 1 = 0
TIMES EXCEEDED D MAX 1 = 0 D MAX 1 = 0
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

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<i>Drew Squipes</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 11 / 01 YEAR / MO / DAY ENDING 96 / 11 / 30 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001F IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001I IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001L IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001M IRON mg/l 24-HR COMP. METAL CLNG
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED MO AVG 1 = 0
TIMES EXCEEDED D MAX 1 = 0
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



FACILITY I.D. 3 402003001	YEAR / MO / DAY BEGINNING 96 / 11 / 01	YEAR / MO / DAY ENDING 96 / 11 / 30	STATE CODE 06	NPDES PERMIT # CA0003751
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001 TITANIUM ug/l GRAB OCTOBER	INFLUENT ARSENIC ug/l GRAB OCTOBER	EFFLUENT ARSENIC ug/l GRAB OCTOBER	INFLUENT CADMIUM ug/l GRAB OCTOBER	EFFLUENT 001 CADMIUM ug/l GRAB OCTOBER	INFLUENT LEAD ug/l GRAB OCTOBER	EFFLUENT 001 LEAD ug/l GRAB OCTOBER	INFLUENT ZINC ug/l GRAB OCTOBER
1								
2								
3								
4								
5								
6							**	5
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

MONTHLY AVG								5
MONTHLY HIGH								5
MONTHLY LOW								5

TIMES EXCEEDED	NO LIMIT	NO LIMIT	6M - MEAN 30	NO LIMIT	6M-MEAN 10 = 0	NO LIMIT	6M-MEAN 10 = 0
TIMES EXCEEDED			D MAX 150 = 0		D MAX 20 = 0		D MAX 40 = 0
TIMES EXCEEDED			I MAX 400 = 0		I MAX 50 = 0		I MAX 100 = 0

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY. ** INFLUENT ANALYSIS PERFORMED FOR COMPARISON TO EFFLUENTS.
ALL OTHER ANNUAL ANALYSIS WILL BE PERFORMED IN OCTOBER

PA [Signature] EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squires</i>	January 15, 1997



Unit: 0. NPDES
U1 DISCHARGE CHLORINEFrom: 11/01/96 0:01
Through: 11/30/96 23:59

Parameter:	0000 CHLOR INE	0400 CHLOR INE	0800 CHLOR INE	1200 CHLOR INE	1600 CHLOR INE	2000 CHLOR INE	lbs CHLORINE INJECTE
High Limit:	89	89	89	89	89	89	
Low Limit:	10	10	10	10	10	10	
	ppb	ppb	PPB	PPB	PPB	PPB	LBS
Sample Time:							

11/01/96 0:01	23	19	20	19	17	18	390
11/02/96 0:01	20	20	20	19	20	22	390
11/03/96 0:01	20	20	21	21	19	20	361
11/04/96 0:01	15	15	12	11	20	16	274
11/05/96 0:01	15	16	18	19	20	23	390
11/06/96 0:01	25	25	25	25	24	26	390
11/07/96 0:01	24	22	30	28	26	28	390
11/08/96 0:01	29	25	20	22	32	29	372
11/09/96 0:01	32	32	32	26	26	29	372
11/10/96 0:01	28	27	26	27	27	27	372
11/11/96 0:01	27	27	26	30	27	29	372
11/12/96 0:01	27	29	84	80	78	84	324
11/13/96 0:01	87	84	71	81	28	35	300
11/14/96 0:01	37	37	33	33	27	30	266
11/15/96 0:01	38	30	20	38	31	35	248
11/16/96 0:01	46	35	31	34	26	29	264
11/17/96 0:01	34	30	23	37	23	26	264
11/18/96 0:01	35	26	18	29	14	15	264
11/19/96 0:01	26	<10	<10	<10	<10	<10	264
11/20/96 0:01	<10	<10	<10	31	15	18	264
11/21/96 0:01	26	20	15	31	17	12	268
11/22/96 0:01	25	15	16				141
11/23/96 0:01			12	14	14	21	152
11/24/96 0:01	19	<7	<7	<7	20	20	228
11/25/96 0:01	12	14	12	12	8	<7	228
11/26/96 0:01	<7	<7	<7	7	0	0	116

1/14/97 8:30

Requested by Ken Cortese

Page: 1



Unit: 0. NPDES
U1 DISCHARGE CHLORINE

From: 11/01/96 0:01
Through: 11/30/96 23:59

Parameter:	0000 CHLOR INE	0400 CHLOR INE	0800 CHLOR INE	1200 CHLOR INE	1600 CHLOR INE	2000 CHLOR INE	lbs CHLORI NE INJECTE
High Limit:	89	89	89	89	89	89	
Low Limit:	10	10	10	10	10	10	
Sample Time:	ppb	ppb	PPB	PPB	PPB	PPB	LBS

11/27/96 0:01			24	23	31	<7	152
11/28/96 0:01					29	29	76
11/29/96 0:01	28	32	28	31	27	9	228
11/30/96 0:01	11	10	10	14	20	11	228



Unit: 0 - NPDES
U2 DISCHARGE CHLORINEFrom: 11/01/96 0:01
Through: 11/30/96 23:59

Parameter:	0100 CHLOR INE	0500 CHLOR INE	0900 CHLOR INE	1300 CHLOR INE	1700 CHLOR INE	2100 CHLOR INE	LBS OF CHL ORINE
High Limit:	89	89	89	89	89	89	
Low Limit:	0	0	0	0	0	0	
	PPB	PPB	PPB	PPB	PPB	PPB	LBS
Sample Time:							

11/01/96 1:00	27	25	24	26	26	23	330
11/02/96 1:00	24	26	24	35	32	32	330
11/03/96 1:00	33	25	24	26	24	23	330
11/04/96 1:00	13	13	13	34	25	25	330
11/05/96 1:00	25	24	27	25	26	24	330
11/06/96 1:00	29	29	26	30	30	28	330
11/07/96 1:00	30	30	20	26	24	24	330
11/08/96 1:00	26	26	24	23	29	24	348
11/09/96 1:00	29	26	26	26	10	25	348
11/10/96 1:00	27	26	26	26	26	24	348
11/11/96 1:00	25	24	26	37	37	33	348
11/12/96 1:00	37	37	85	72	28	30	302
11/13/96 1:00	32	30	26	23	23	26	276
11/14/96 1:00	27	29	78	30	35	35	286
11/15/96 1:00	20	35	37	37	36	40	314
11/16/96 1:00	43	45	36	32	33	33	330
11/17/96 1:00	35	33	33	32	32	32	330
11/18/96 1:00	30	30	30	27	27	28	330
11/19/96 1:00	27	32	<10	28	27	26	330
11/20/96 1:00	24	21	22	18	18	18	330
11/21/96 1:00	18	20	18	32	<10	<10	340
11/22/96 1:00	<10	<10	<10				180
11/23/96 1:00			<13	<13	<13	<13	240
11/24/96 1:00	<13	15	<13	<13	<13	<13	360
11/25/96 1:00	<13	<13	<13	<13	<13	<13	360
11/26/96 1:00	<13	<13	<13	<13	13	18	360

1/14/97 8:32

Requested by Ken Cortese

Page: 1



Unit: 0 NPDES
U2 DISCHARGE CHLORINEFrom: 11/01/96 0:01
Through: 11/30/96 23:59

Parameter:	0100 CHLOR INE	0500 CHLOR INE	0900 CHLOR INE	1300 CHLOR INE	1700 CHLOR INE	2100 CHLOR INE	LBS OF CHL ORINE
High Limit:	89	89	89	89	89	89	
Low Limit:	0	0	0	0	0	0	
	PPB	PPB	PPB	PPB	PPB	PPB	LBS
Sample Time:							

11/27/96 1:00	19	<13	<13	14	<13	<13	360
11/28/96 1:00					38	27	124
11/29/96 1:00	24	27	30	32	32	31	372
11/30/96 1:00	21	26	20	13	16	19	372



SANITARY WASTEWATER TREATMENT SYSTEM
CONTRACT #Z78-2104-86

Rev. 1/95

ECO Resources Inc. 39899 Balentine Drive Suite 200 Newark, CA 94560	Pacific Gas & Electric Company Contacts: Joseph Higgins (805) 545-4103 Heather Rumsey (805) 545-4045
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PARAMETER	UNITS	FREQ.	LIMITS		SAMPLE		RESULTS
			MONTHLY AVERAGE	DAILY MAX	DATE	TIME	
1. Oil and Grease	mg/l	Weekly	15	20	11-1	10:07	3 mg/L AVE OF 3
2	"	"	"	"	11-7	10:14	< 3 mg/L "
3	"	"	"	"	11-13	11:18	3.7 mg/L "
4	"	"	"	"	11-19	11:33	< 3 mg/L "
5	"	"	"	"	11-26	11:38	< 3 mg/L "
1. Suspended Solids	mg/l	Weekly	60	N/A	11-1	9:45	10 mg/L
2	"	"	"	"	11-7	9:50	< 10 mg/L
3	"	"	"	"	11-13	10:55	10 mg/L
4	"	"	"	"	11-19	11:15	< 10 mg/L
5	"	"	"	"	11-26	11:20	10 mg/L
1. Settleable Solids	m/l	Weekly	1.0	3.0	11-1	10:15	< 0.1 m/l
2	"	"	"	"	11-7	10:30	< 0.1 m/l
3	"	"	"	"	11-13	11:30	< 0.1 m/l
4	"	"	"	"	11-19	11:45	< 0.1 m/l
5	"	"	"	"	11-26	11:56	< 0.1 m/l

NOTES:

1. Analysis results above the monthly average shall be reported verbally within 8 hours to a PG&E contact listed above.
2. Oil & Grease and Suspended Solids samples are composites during 1 discharge cycle.
3. If ECO diagnostic analysis results indicate that the system effluent exceeds the listed limits, increase the frequency at which samples are collected and submitted to contract lab.

COMMENTS:

SLUDGE DISPOSAL DATA			
MONTH REMOVED	VOLUME REMOVED	WEIGHT REMOVED	DISPOSAL SITE
NOVEMBER		1733 lbs.	SANTA MARIA WWTP

Data Sheet completed by: *J. M. Wilson* Date: December 6th, 1996



APPENDIX 4

DIABLO CANYON POWER PLANT

Influent and Effluent Monitoring

December 1996



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
81 HIGUERA
SANTA LUIS OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424

PAGE: (M) 1

FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 TEMPERATURE DEGREES F METERED CONTINUOUS	DELTA TEMP TEMPERATURE DEGREES F METERED CONTINUOUS	EFFLUENT 001 FLOW MGD RECORDED DAILY	INFLUENT pH pH UNITS GRAB MONTHLY	EFFLUENT 001 pH pH UNITS GRAB MONTHLY (***)	EFFLUENT 001P pH pH UNITS GRAB MONTHLY	EFFLUENT 002 pH pH UNITS GRAB MONTHLY
1	54.1	69.8	15.7	2264				
2	53.7	70.6	16.9	2544				
3	53.6	72.1	18.5	2561	8.0	8.0	7.8	2 8.0
4	54.2	72.7	18.5	2554				
5	54.2	72.7	18.5	2559				
6	55.0	73.5	18.5	2564				
7	54.9	73.5	18.6	2564				
8	54.9	73.4	18.5	2564				
9	54.8	73.2	18.4	2564				
10	54.6	73.0	18.4	2564				
11	55.1	73.6	18.5	2564				
12	55.9	74.3	18.4	2566				
13	56.3	74.8	18.5	2563				
14	56.1	74.6	18.5	2566				
15	56.3	74.9	18.6	2561				
16	56.2	74.8	18.6	2564				
17	56.0	74.5	18.5	2564				
18	56.5	74.9	18.4	2566				
19	56.5	75.0	18.5	2563				
20	56.4	74.9	18.5	2563				
21	56.5	75.0	18.5	2566				
22	56.3	74.8	18.5	2565				
23	56.8	75.3	18.5	2564				
24	56.6	75.1	18.5	2564				
25	56.7	75.1	18.4	2557				
26	56.7	75.1	18.4	2564				
27	56.8	75.2	18.4	2561				
28	57.1	75.5	18.4	2561				
29	56.8	75.2	18.4	2559				
30	56.9	75.3	18.4	2557				
31	57	75.8	18.7	2561				
MONTHLY AVG	55.8	74.1	18.3	2552	8.0	8.0	7.8	8.0
MONTHLY HIGH	57.1	75.8	18.7	2566	8.0	8.0	7.8	8.0
MONTHLY LOW	53.6	69.8	15.7	2264	8.0	8.0	7.8	8.0
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MAX 22 = 0	MAX 2760 = 0	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT
TIMES EXCEEDED			(**)					
TIMES EXCEEDED								

REMARKS: (*) NUMBER OF SAMPLES TAKEN DURING THE DAY. (**) EXCEPT DURING DEMUSSELING.
(***) DAILY WHEN DISCHARGING CHEMICAL CLEANING WASTES FORM DISCHARGES 001D, F, I, L, AND/OR M.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE

Drew Squires January 15, 1997



FACILITY I.D. 3 402003001	YEAR / MO / DAY BEGINNING 96 / 12 / 01		YEAR / MO / DAY ENDING 96 / 12 / 31		STATE CODE 06	NPDES PERMIT # CA0003751			
STATION ANALYSIS UNITS SAMPL TYPE FREQ.	EFFLUENT 003 pH pH UNITS GRAB MONTHLY	EFFLUENT 004 pH pH UNITS GRAB MONTHLY	EFFLUENT 001N OIL & GREASE mg/l COMPOSITE WEEKLY	EFFLUENT 001P OIL & GREASE mg/l GRAB WEEKLY (**)	EFFLUENT 003 OIL & GREASE mg/l GRAB WEEKLY (***)	EFFLUENT 001F OIL & GREASE mg/l GRAB MONTHLY	EFFLUENT 001 T CHLOR RES ug/l GRAB 2 per CYCLE	EFFLUENT 001 CHLORINE USED lbs/day RECORDED MONTHLY	
1							12	20	600
2							12	22	600
3	8.0	8.0					12	30	636
4						4	12	36	672
5							12	40	672
6			< 3				12	39	664
7							12	37	648
8							12	37	648
9							12	36	648
10							12	34	648
11							12	30	724
12			< 3				12	30	687
13							12	38	632
14							12	39	612
15							12	34	612
16							12	27	612
17							12	26	612
18			< 3				12	28	612
19							12	33	612
20							12	40	606
21							12	36	592
22							12	34	592
23			< 3				12	29	592
24							12	31	592
25							12	32	592
26							12	32	592
27							12	32	592
28							12	29	592
29							12	29	592
30							12	26	600
31							12	27	608
MONTHLY AVG	8.0	8.0	< 3	No Discharge	No Discharge	4	32	622	
MONTHLY HIGH	8.0	8.0	< 3			4	40	724	
MONTHLY LOW	8.00	8.0	< 3			4	20	592	

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 15 = 0	MO AVG 15 = 1	MO AVG 15 = 1	MO AVG 15 = 0	I MAX 200 = 0	NO LIMIT
TIMES EXCEEDED			D MAX 20 = 0					
TIMES EXCEEDED								

REMARKS: (*) NUMBER OF SAMPLES TAKEN DURING THE DAY.
(**) WHEN 001N IS DISCHARGING TO 001P. (***) WHEN 001P IS DISCHARGING TO 003.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
DATE
January 15, 1997



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
81 HIGUERA
SANTA LUIS OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424

PAGE: (M) 3

FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY			STATE CODE	NPDES PERMIT #		
3 402003001	BEGINNING 96 / 12 / 01		ENDING 96 / 12 / 31			06	CA0003751		
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFF 001N=>003 TOTL COLIFORM MPN/100ml GRAB 4 TIMES/WEEK	EFF 001N=>003 FECAL COLIFOR MPN/100ml GRAB 4 TIMES/WEEK	EFFLUENT 001D SUSPENDED SOLIDS mg/l 1st FLTR mg/l 2nd FLTR GRAB MONTHLY mg/l NET			EFFLUENT 001F SUSPENDED SOLIDS mg/l 1st FLTR mg/l 2nd FLTR GRAB MONTHLY mg/l NET			
1									
2									
3									
4						11	1	10	
5			6	< 1	6				
6									
7									
8									
9									
10									
11									
12			1	< 1	1				
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26			1	1	< 1				
27									
28									
29									
30									
31									
MONTHLY AVG	No	No			3			10	
MONTHLY HIGH	Discharge	Discharge			6			10	
MONTHLY LOW					1			10	
TIMES EXCEEDED	80% SMPLS>1K MEAN>200 =	NO LIMIT	NO LIMIT	MO AVG 30 = 0	NO LIMIT	NO LIMIT	NO LIMIT	MO AVG 30 = 0	
TIMES EXCEEDED	90 % SMPLS>400			D MAX 100 = 0				D MAX 100 = 0	
TIMES EXCEEDED	I MAX >10K								

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
DATE
January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001G SUSPENDED SOLIDS			EFFLUENT 001H SUSPENDED SOLIDS		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET
1						
2						
3	< 1	< 1	< 1	2	1	1
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

MONTHLY AVG			< 1			1
MONTHLY HIGH			< 1			1
MONTHLY LOW			< 1			1

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 0	NO LIMIT	NO LIMIT	MO AVG 30 = 0
TIMES EXCEEDED			D MAX 100 = 0			D MAX 100 = 0
TIMES EXCEEDED						

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squires</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001I SUSPENDED SOLIDS mg/l NET			EFFLUENT 001J SUSPENDED SOLIDS mg/l NET		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET
1				< 1	< 1	< 1
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

MONTHLY AVG	No	< 1
MONTHLY HIGH	Discharge	< 1
MONTHLY LOW		< 1

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 1	NO LIMIT	NO LIMIT	MO AVG 30 = 0
TIMES EXCEEDED			MAX 100 = 0			MAX 100 = 0
TIMES EXCEEDED						

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squires</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001K SUSPENDED SOLIDS			EFFLUENT 001L SUSPENDED SOLIDS		
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET
1						
2						
3				2 < 1	2 < 1	2 < 1
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						

MONTHLY AVG No < 1
MONTHLY HIGH Discharge < 1
MONTHLY LOW < 1

TIMES EXCEEDED NO LIMIT NO LIMIT MO AVG 30 = 1 NO LIMIT NO LIMIT MO AVG 30 = 0
TIMES EXCEEDED D MAX 100 = 0 D MAX 100 = 0
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE

Drew Squyres January 15, 1997



FACILITY I.D. 3 402003001	YEAR / MO / DAY BEGINNING 96 / 12 / 01	YEAR / MO / DAY ENDING 96 / 12 / 31	STATE CODE 06	NPDES PERMIT # CA0003751
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001M SUSPENDED SOLIDS mg/l 1st FLTR mg/l 2nd FLTR mg/l NET GRAB MONTHLY			EFFLUENT 001N SUSPENDED SLDS mg/l COMPOSITE WEEKLY	EFFLUENT 001P SUSPENDED SOLIDS mg/l 1st FLTR mg/l 2nd FLTR mg/l NET GRAB MONTHLY		
	1						
2							
3						10	< 1
4							
5							
6				20			
7							
8							
9							
10							
11	4	< 1	4				
12				10			
13							
14							
15	7	< 1	7				
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31							

MONTHLY AVG			6	18			< 1
MONTHLY HIGH			7	30			< 1
MONTHLY LOW			4	10			< 1

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 0	MO AVG 60 = 0	NO LIMIT	NO LIMIT	MO AVG 30 = 0
TIMES EXCEEDED			D MAX 100 = 0				D MAX 100 = 0
TIMES EXCEEDED							

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

LEGAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 002 SUSPENDED SOLIDS			EFFLUENT 003 SUSPENDED SOLIDS				
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR GRAB MONTHLY	mg/l NET		
1								
2								
3	2	7	2	8	2 < 1	12	8	4
4								
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31								

MONTHLY AVG	<	1	4
MONTHLY HIGH	<	1	4
MONTHLY LOW	<	1	4

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 0	NO LIMIT	NO LIMIT	MO AVG 30 = 0
TIMES EXCEEDED			D MAX 100 = 0			D MAX 100 = 0
TIMES EXCEEDED						

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 003 SUSPENDED SOLIDS			EFFLUENT 001N SETTL SOLIDS ml/l GRAB WEEKLY	EFFLUENT 001 T CHROMIUM ug/l GRAB MONTHLY	EFFLUENT 001 COPPER ug/l GRAB MONTHLY	EFFLUENT 001 NICKEL ug/l GRAB MONTHLY	EFFLUENT 001 ZINC ug/l GRAB MONTHLY
	mg/l 1st FLTR	mg/l 2nd FLTR GRAB	mg/l NET					
1								
2								
3					< 5	< 3	< 3	< 3
4								
5								
6				< 0.1				
7								
8								
9								
10								
11								
12				< 0.1				
13								
14								
15								
16								
17								
18				< 0.1				
19								
20								
21								
22								
23				< 0.1				
24								
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31								

MONTHLY AVG	No Discharge	< 0.1	< 5	< 3	< 3	< 3	< 3
MONTHLY HIGH		< 0.1	< 5	< 3	< 3	< 3	< 3
MONTHLY LOW		< 0.1	< 5	< 3	< 3	< 3	< 3

TIMES EXCEEDED	NO LIMIT	NO LIMIT	MO AVG 30 = 1	MO AVG 1.0 = 0	6M-MEAN 10 = 0	6M-MEAN 10 = 0	6M-MEAN 30 = 0	6M-MEAN 70 = 0
TIMES EXCEEDED			D MAX 100 = 0	D MAX 3.0 = 0	D MAX 40 = 0	D MAX 50 = 0	D MAX 100 = 0	D MAX 380 = 0
TIMES EXCEEDED					I MAX 100 = 0	I MAX 140 = 0	I MAX 260 = 0	I MAX 990 = 0

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

PACIFIC GAS AND ELECTRIC CO. REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squires</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT T CHROMIUM ug/l GRAB JA/AP/JUL/OCT	INFLUENT COPPER ug/l GRAB JA/AP/JUL/OCT	INFLUENT NICKEL ug/l GRAB JA/AP/JUL/OCT	INFLUENT AMMONIA (N) ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001 AMMONIA (N) ug/l GRAB JA/AP/JUL/OCT	EFFLUENT 001D OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001G OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001H OIL & GREASE mg/l GRAB JA/AP/JUL/OCT
1								
2								
3	** < 5	** < 3	** < 3					
4						4		
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12						< 3		
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25								
26						< 3		
27								
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29								
30								
31								
MONTHLY AVG	< 5	< 3	< 3				3	
MONTHLY HIGH	< 5	< 3	< 3				4	
MONTHLY LOW	< 5	< 3	< 3			< 3		
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT	6M-MEAN 3060 = 0	MO AVG 15 = 0	MO AVG 15 = 0	MO AVG 15 = 0
TIMES EXCEEDED					D MAX 12240 = 0	D MAX 20 = 0	D MAX 20 = 0	D MAX 20 = 0
TIMES EXCEEDED					I MAX 30600 = 0			

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER
GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
DATE
January 15, 1997



FACILITY I.D.	YEAR / MO / DAY BEGINNING		YEAR / MO / DAY ENDING		STATE CODE	NPDES PERMIT #		
3 402003001	96 / 12 / 01		96 / 12 / 31		06	CA0003751		
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001I OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001J OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001K OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001L OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001M OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001P OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 002 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 003 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT
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31								
MONTHLY AVG	No	< 3	No			3		
MONTHLY HIGH	Discharge	< 3	Discharge		<	3		
MONTHLY LOW		< 3			<	3		
TIMES EXCEEDED	MO AVG 15 = 1	MO AVG 15 = 0	MO AVG 15 = 1	MO AVG 15 = 0	MO AVG 15 = 0	MO AVG 15 = 0	MO AVG 15 = 0	MO AVG 15 = 0
TIMES EXCEEDED	D MAX 20 = 0	D MAX 20 = 0	D MAX 20 = 0					
TIMES EXCEEDED								

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squyres
DATE
January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 004 OIL & GREASE mg/l GRAB JA/AP/JUL/OCT	EFFLUENT 001 TOX CONCEN TU GRAB JA/AP/JUL/OCT	EFFLUENT 001D CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F CADMIUM ug/l 1 WEEK COMP JA/AP/JUL/OCT	
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED MO AVG 15 -601-MEAN 0.26 NO LIMIT NO LIMIT NO LIMIT NO LIMIT
TIMES EXCEEDED D MAX 20 - 0 -0
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squires</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H T CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L T CHROMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F T CHROMIUM ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001D COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L COPPER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F COPPER ug/l 1 WEEK COMP JA/AP/JUL/OCT
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED NO LIMIT
TIMES EXCEEDED
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
81 HIGUERA
SANTA LUIS OBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424

PAGE: (Q) 5

FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L LEAD ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F LEAD ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001D MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L MERCURY ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F MERCURY ug/l 1 WEEK COMP JA/AP/JUL/OCT
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED NO LIMIT NO LIMIT

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

PR EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE

Drew Squires January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE		NPDES PERMIT #	
3 402003001	BEGINNING	96 / 12 / 01	ENDING	96 / 12 / 31	06		CA0003751	
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L NICKEL ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F NICKEL ug/l 1 WEEK COMP JA/AP/JUL/OCT	EFFLUENT 001D SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L SILVER ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F SILVER ug/l 1 WEEK COMP JA/AP/JUL/OCT
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED NO LIMIT
TIMES EXCEEDED
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT
Drew Squires
DATE
January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D ZINC ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001H ZINC ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001L ZINC ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F ZINC ug/l 1 WEEK COMP JA/AP/JUL/OCT	
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED NO LIMIT NO LIMIT NO LIMIT NO LIMIT
TIMES EXCEEDED
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

PRINCIPAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



FACILITY I.D.	YEAR / MO / DAY		YEAR / MO / DAY		STATE CODE	NPDES PERMIT #
3 402003001	BEGINNING	96 / 12 / 01	ENDING	96 / 12 / 31	06	CA0003751
STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001F COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001I COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001L COPPER mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001M COPPER mg/l 24-HR COMP. METAL CLNG	
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED MO AVG 1 = 0
TIMES EXCEEDED D MAX 1 = 0
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001D IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001F IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001I IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001L IRON mg/l 24-HR COMP. METAL CLNG	EFFLUENT 001M IRON mg/l 24-HR COMP. METAL CLNG
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED MO AVG 1 = 0 MO AVG 1 = 0
TIMES EXCEEDED D MAX 1 = 0 D MAX 1 = 0
TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



FACILITY I.D. 3 402003001	YEAR / MO / DAY BEGINNING 96 / 12 / 01	YEAR / MO / DAY ENDING 96 / 12 / 31	STATE CODE 06	NPDES PERMIT # CA0003751
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	EFFLUENT 001 TITANIUM ug/l GRAB OCTOBER	INFLUENT ARSENIC ug/l GRAB OCTOBER	EFFLUENT ARSENIC ug/l GRAB OCTOBER	INFLUENT CADMIUM ug/l GRAB OCTOBER	EFFLUENT 001 CADMIUM ug/l GRAB OCTOBER	INFLUENT LEAD ug/l GRAB OCTOBER	EFFLUENT 001 LEAD ug/l GRAB OCTOBER	INFLUENT ZINC ug/l GRAB OCTOBER
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MONTHLY AVG								< 3
MONTHLY HIGH								< 3
MONTHLY LOW								< 3

TIMES EXCEEDED	NO LIMIT	NO LIMIT	6M - MEAN 30	NO LIMIT	6M-MEAN 10 = 0	NO LIMIT	6M-MEAN 10 = 0
TIMES EXCEEDED			D MAX 150 = 0		D MAX 20 = 0		D MAX 40 = 0
TIMES EXCEEDED			I MAX 400 = 0		I MAX 50 = 0		I MAX 100 = 0

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY. (**) INFLUENT ANALYSIS PERFORMED FOR COMPARISON TO EFFLUENTS. ALL OTHER ANNUAL ANALYSIS WILL BE PERFORMED IN OCTOBER

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

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FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPL TYPE FREQ.	INFLUENT MERCURY ug/l GRAB OCTOBER	EFFLUENT 001 MERCURY ug/l GRAB OCTOBER	INFLUENT SILVER ug/l GRAB OCTOBER	EFFLUENT 001 SILVER ug/l GRAB OCTOBER	INFLUENT CYANIDE ug/l GRAB OCTOBER	EFFLUENT 001 CYANIDE ug/l GRAB OCTOBER	INFLUENT PHENOLIC CMP ug/l (NONCL) GRAB OCTOBER	EFFLUENT 001 PHENOLIC CMP ug/l (NONCL) GRAB OCTOBER
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED	No Limit	6M-MEAN 0.2	No Limit	6M-MEAN 2.9=0	No Limit	6M-MEAN 30=0	No Limit	6M-MEAN 150=0
TIMES EXCEEDED		DMAX 0.8 = 0		DMAX 13.6=0		DMAX 100=0		DMAX 610= 0
TIMES EXCEEDED		IMAX 2 = 0		IMAX 35= 0		IMAX 260=0		IMAX 1530=0

REMARKS:
* NUMBER OF SAMPLES TAKEN DURING THE DAY.
** WHEN 001N IS DISCHARGING TO 001P.
*** WHEN 001P IS DISCHARGING TO 003.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squipes</i>	January 15, 1997



FACILITY I.D. 3 402003001	YEAR / MO / DAY BEGINNING 96 / 12 / 01		YEAR / MO / DAY ENDING 96 / 12 / 31		STATE CODE 06	NPDES PERMIT # CA0003751	
STATION ANALYSIS UNITS SAMPL TYPE FREQ.	INFLUENT CHLOR PHENOL ug/l GRAB OCTOBER	EFFLUENT 001 CHLOR PHENOL ug/l GRAB OCTOBER	EFFLUENT 001D LITHIUM mg/l GRAB OCTOBER	EFFLUENT 001D BORON mg/l GRAB OCTOBER	EFFLUENT 001D HYDRAZINE mg/l GRAB OCTOBER	EFFLUENT 005 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 008 OIL & GREASE mg/l GRAB OCTOBER
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED	No Limit	6M-MEAN 1	No Limit	No Limit	No Limit	MO AVG 15=0	MO AVG 15=0
TIMES EXCEEDED		DMAX 20=0				DMAX 20=0	DMAX 20=0
TIMES EXCEEDED		IMAX 50=0					

REMARKS:
 * NUMBER OF SAMPLES TAKEN DURING THE DAY.
 ** WHEN 001N IS DISCHARGING TO 001P.
 *** WHEN 001P IS DISCHARGING TO 003.

REGIONAL EXECUTIVE OFFICER
 GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squires</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION ANALYSIS UNITS SMPLE TYPE FREQ.	EFFLUENT 009 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 013 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 015 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 016 OIL & GREASE mg/l GRAB OCTOBER	EFFLUENT 017 OIL & GREASE mg/l GRAB OCTOBER	INFLUENT PCB'S ug/l GRAB OCTOBER	EFFLUENT 001 PCB'S ug/l GRAB OCTOBER
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

No Discharge No Discharge

TIMES EXCEEDED
TIMES EXCEEDED
TIMES EXCEEDED

MO AVG 15=0 No Limit No Limit
D MAX 20=0 D MAX 20=0 D MAX 20=0 D MAX 20=0 D MAX 20=0

REMARKS:
* NUMBER OF SAMPLES TAKEN DURING THE DAY.
** WHEN 001N IS DISCHARGING TO 001P.
*** WHEN 001P IS DISCHARGING TO 003.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squyres</i>	January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION	EFFLUENT 001N SLUDGE MOISTURE %	EFFLUENT 001N SLUDGE TOT KJLDL N mg/kg	EFFLUENT 001N SLUDGE AMMONIA (N) mg/kg	EFFLUENT 001N SLUDGE NITRATE (N) mg/kg	EFFLUENT 001N SLUDGE TOT PHOSPHS mg/kg	EFFLUENT 001N SLUDGE pH pH units	EFFLUENT 001N SLUDGE OIL & GREASE mg/kg	EFFLUENT 001N SLUDGE BORON mg/kg
ANALYSIS UNITS SMPL TYPE FREQ.	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER	GRAB OCTOBER
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED No Limit No Limit

TIMES EXCEEDED

TIMES EXCEEDED

REMARKS: * NUMBER OF SAMPLES TAKEN DURING THE DAY.
 ** WHEN 001N IS DISCHARGING TO 001P.
 *** WHEN 001P IS DISCHARGING TO 003.

PLANT EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT DATE

Drew Squires January 15, 1997



FACILITY I.D. 3 402003001 YEAR / MO / DAY BEGINNING 96 / 12 / 01 YEAR / MO / DAY ENDING 96 / 12 / 31 STATE CODE 06 NPDES PERMIT # CA0003751

STATION	EFFLUENT 001N SLUDGE CADMIUM mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE COPPER mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE CHROMIUM mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE LEAD mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE NICKEL mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE MERCURY mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE ZINC mg/kg GRAB OCTOBER	EFFLUENT 001N SLUDGE VOLUME tons OCTOBER
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED	10xSTLC=0	10xSTLC=0	10xSTLC=0	10xSTLC=0	10xSTLC=0	10xSTLC=0	10xSTLC=0
TIMES EXCEEDED	10 mg/kg=0	250 mg/kg=0	50 mg/kg=0	50 mg/kg=0	200 mg/kg=0	2 mg/kg=0	2500 mg/kg=0
TIMES EXCEEDED	TTLC>100=0	TTLC>2500=0	TTLC>500=0	TTLC>1000=0	TTLC>2000=0	TTLC>20=0	TTLC>5000=0

REMARKS:
* NUMBER OF SAMPLES TAKEN DURING THE DAY.
** WHEN 001N IS DISCHARGING TO 001P.
*** WHEN 001P IS DISCHARGING TO 003.

REGIONAL EXECUTIVE OFFICER

GREGORY M. RUEGER

SIGNATURE OF AUTHORIZED AGENT	DATE
<i>Drew Squires</i>	January 15, 1997



Unit: 0 - NPDES
U1 DISCHARGE CHLORINEFrom: 12/01/96 0:01
Through: 12/31/96 23:59

Parameter:	0000 CHLOR INE	0400 CHLOR INE	0800 CHLOR INE	1200 CHLOR INE	1600 CHLOR INE	2000 CHLOR INE	Lbs CHLORI NE INJECTE
High Limit:	89	89	89	89	89	89	
Low Limit:	10	10	10	10	10	10	
Sample Time:	ppb	ppb	PPB	PPB	PPB	PPB	LBS

12/01/96 0:01	13	12	12	17	22	26	228
12/02/96 0:01	28	22	13	18	22	22	228
12/03/96 0:01	18	18	22	22	39	23	264
12/04/96 0:01	16	37	18	20	40	15	300
12/05/96 0:01	17	38	23	23	55	29	300
12/06/96 0:01	28	52	25	56	27	26	300
12/07/96 0:01	49	28	27	50	26	24	300
12/08/96 0:01	50	26	24	48	26	25	300
12/09/96 0:01	49	25	25	48	26	26	300
12/10/96 0:01	45	23	22	50	23	23	300
12/11/96 0:01	44	17	18	39	40	32	372
12/12/96 0:01	34	20	16	40	25	26	323
12/13/96 0:01	46	26	29	56	26	23	260
12/14/96 0:01	50	26	27	53	29	28	240
12/15/96 0:01	58	23	22	44	20	22	240
12/16/96 0:01	42	18	16	36	14	15	240
12/17/96 0:01	37	15	17	40	19	18	240
12/18/96 0:01	48	20	18	42	16	18	240
12/19/96 0:01	44	17	18	55	27	22	240
12/20/96 0:01	63	26	27	67	26	28	240
12/21/96 0:01	52	25	26	55	24	24	232
12/22/96 0:01	50	24	29	61	24	20	232
12/23/96 0:01	50	22	22	42	18	20	232
12/24/96 0:01	48	19	20	46	21	23	232
12/25/96 0:01	46	20	20	49	20	26	232
12/26/96 0:01	45	19	20	49	22	21	232

1/14/97 8:31

Requested by Ken Cortese

Page: 1



Unit: 0 - HPDES
U1 DISCHARGE CHLORINE

From: 12/01/96 0:01
Through: 12/31/96 23:59

Parameter:	0000 CHLOR INE	0400 CHLOR INE	0800 CHLOR INE	1200 CHLOR INE	1600 CHLOR INE	2000 CHLOR INE	Lbs CHLORI NE INJECTE
High Limit:	89	89	89	89	89	89	
Low Limit:	10	10	10	10	10	10	
Sample Time:	ppb	ppb	PPB	PPB	PPB	PPB	LBS
12/27/96 0:01	44	19	19	46	23	23	232
12/28/96 0:01	42	19	17	40	20	20	232
12/29/96 0:01	44	18	19	40	18	16	232
12/30/96 0:01	40	15	18	29	16	16	240
12/31/96 0:01	35	16	19	41	20	26	248



Unit: 0 NPDES
U2 DISCHARGE CHLORINEFrom: 12/01/96 0:01
Through: 12/31/96 23:59

Parameter:	0100 CHLOR INE	0500 CHLOR INE	0900 CHLOR INE	1300 CHLOR INE	1700 CHLOR INE	2100 CHLOR INE	LBS OF CHL ORINE
High Limit:	89	89	89	89	89	89	
Low Limit:	0	0	0	0	0	0	
	PPB	PPB	PPB	PPB	PPB	PPB	LBS
Sample Time:							

12/01/96 1:00	28	30	23	16	19	19	372
12/02/96 1:00	22	23	23	24	20	24	372
12/03/96 1:00	24	29	29	29	51	54	372
12/04/96 1:00	51	48	48	45	47	47	372
12/05/96 1:00	50	50	50	47	45	48	372
12/06/96 1:00	45	43	43	40	40	40	364
12/07/96 1:00	40	41	41	42	40	40	348
12/08/96 1:00	42	40	40	40	40	40	348
12/09/96 1:00	40	40	38	40	40	37	348
12/10/96 1:00	37	35	33	37	40	34	348
12/11/96 1:00	34	30	29	30	26	23	352
12/12/96 1:00	28	33	30	32	38	43	364
12/13/96 1:00	36	38	40	42	44	44	372
12/14/96 1:00	42	42	42	42	43	43	372
12/15/96 1:00	40	38	36	34	35	37	372
12/16/96 1:00	33	35	33	28	24	29	372
12/17/96 1:00	26	24	27	30	32	32	372
12/18/96 1:00	30	32	32	28	27	28	372
12/19/96 1:00	29	27	32	40	37	44	372
12/21/96 1:00	44	44	40	35	40	40	366
12/21/96 1:00	43	38	38	38	32	32	360
12/22/96 1:00	32	35	35	35	32	32	360
12/23/96 1:00	26	29	29	30	28	30	360
12/24/96 1:00	30	32	32	27	34	34	360
12/25/96 1:00	32	36	34	34	35	37	360
12/26/96 1:00	32	33	32	48	36	32	360



Unit: 0 - NPDES
U2 DISCHARGE CHLORINEFrom: 12/01/96 0:01
Through: 12/31/96 23:59

Parameter:	0100 CHLOR INE	0500 CHLOR INE	0900 CHLOR INE	1300 CHLOR INE	1700 CHLOR INE	2100 CHLOR INE	LBS OF CHL ORINE
High Limit:	89	89	89	89	89	89	
Low Limit:	0	0	0	0	0	0	
Sample Time:	PPB	PPB	PPB	PPB	PPB	PPB	LBS

12/27/96 1:00	34	34	32	34	33	40	360
12/28/96 1:00	32	35	37	27	30	32	360
12/29/96 1:00	30	32	30	32	33	30	360
12/30/96 1:00	30	30	32	28	27	27	360
12/31/96 1:00	30	27	27	30	28	30	360



SANITARY WASTEWATER TREATMENT SYSTEM
CONTRACT #Z78-2104-86

Rev. 1/95

ECO Resources Inc.
39899 Balentine Drive
Suite 200
Newark, CA 94560

Pacific Gas & Electric Company
Contacts:
Joseph Higgins (805) 545-4103
Heather Rumsey (805) 545-4045

PARAMETER	UNITS	FREQ.	LIMITS		SAMPLE		RESULTS
			MONTHLY AVERAGE	DAILY MAX	DATE	TIME	
1. Oil and Grease	mg/l	Weekly	15	20	12-6	7:59	< 3mg/L AVE. OF 3
2	"	"	"	"	12-12	11:54	< 3mg/L "
3	"	"	"	"	12-18	11:54	< 3mg/L "
4	"	"	"	"	12-23	8:27	< 3mg/L "
5	"	"	"	"			
1. Suspended Solids	mg/l	Weekly	60	N/A	12-6	7:51	20 mg/L
2	"	"	"	"	12-12	11:30	10 mg/L
3	"	"	"	"	12-18	11:22	30 mg/L
4	"	"	"	"	12-23	8:18	10 mg/L
5	"	"	"	"			
1. Settleable Solids	m/l	Weekly	1.0	3.0	12-6	8:00	< 0.1 m/L
	"	"	"	"	12-12	12:00	< 0.1 m/L
	"	"	"	"	12-18	12:22	< 0.1 m/L
4	"	"	"	"	12-23	8:30	< 0.1 m/L
5	"	"	"	"			

NOTES:

1. Analysis results above the monthly average shall be reported verbally within 8 hours to a PG&E contact listed above.
2. Oil & Grease and Suspended Solids samples are composites during 1 discharge cycle.
3. If ECO diagnostic analysis results indicate that the system effluent exceeds the listed limits, increase the frequency at which samples are collected and submitted to contract lab.

COMMENTS:

SLUDGE DISPOSAL DATA

MONTH REMOVED	VOLUME REMOVED	WEIGHT REMOVED	DISPOSAL SITE
DECEMBER		942 lbs.	SANTA MARIA WWTP

Data Sheet completed by:

Jim. Wpong

Date:

JANUARY 7th, 1997



APPENDIX 5

DIABLO CANYON POWER PLANT

Acute Bioassay

October 7-11, 1996



PACIFIC GAS & ELECTRIC COMPANY
P.O. BOX 56
AVILA BEACH, CA 93424

LABORATORY TEST RESULTS

SUBJECT: ACUTE TOXICITY ASSESSMENT OF DISCHARGE WATER FROM
DIABLO CANYON POWER PLANT, FOURTH QUARTER OF 1996

Introduction:

One acute toxicity bioassay (DCPP-241) was conducted at the Diablo Canyon Biological Laboratory on water sampled on October 7, 1996, from Diablo Canyon Power Plant's discharge 001. This bioassay satisfies this quarter's requirement for acute toxicity testing in Diablo Canyon Power Plant's NPDES Permit.

Methods:

The bioassay was a standard 96-hour static acute toxicity test conducted using the guidelines in Kopperdahl (1976) and EPA (1985). The dilutions tested were 100 percent effluent and a dilution water control. Juvenile red abalone (Haliotis rufescens) were used as the test species.

Results:

The bioassay was begun within twenty-four hours of sample collection. All measured chemical and physical parameters fell within accepted limits. The data sheet is attached. Toxicity was 0 (no mortality occurred during the test).

SUMMARY OF RESULTS

Assay No.	Date Sampled	Location	Toxicity (TUa)
DCPP-241	October 7, 1996	Discharge 001	0 (no mortality)

References:

Kopperdahl, Fredric R. 1976. Guidelines for Performing Static Acute Toxicity Fish Bioassays in Municipal and Industrial Wastewaters. State Water Resources Control Board, and California Department of Fish and Game.

EPA, 1985. Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms. Third Edition. EPA/600/4-85/013

Distribution: AMJackson
RWLorenz
HRumsey
RMS Indexer

DATE:	12/17/96
TESTED BY:	James L. Kelly
APPROVED BY:	D. Brown
FILE NO.	



PACIFIC GAS & ELECTRIC COMPANY
 Technical and Ecological Services
DIABLO CANYON BIOLOGICAL LABORATORY
STATIC BIOASSAY REPORT SHEET
 One Concentration

Procedure 2.3
 Revision 1
 Attachment 5

ASSAY NO. DCPP - 241

TEST ORGANISM DATA :

TEST ORGANISM: Red Abalone, *Haliotis rufescens*
 SOURCE: DCPP Biological Laboratory Reared Juvenile Abalone
 AVERAGE LENGTH: 14 mm RANGE: 11 - 16 mm
 ACCLIMATION TIME: Various TEMP: Laboratory Ambient
 WATER SOURCE: DCPP Biological Laboratory Intake Pump

TEST SOLUTION DATA :

SOURCE OF TEST SOLUTION:
 Diablo Canyon Power Plant Unit 1 & Unit 2
 Discharge 001 Effluent Grab Sample
 DATE/TIME SAMPLED: 07 October 1996 @ 09:21 - 09:25
 SAMPLED BY: B.K. Cunningham

DATE STARTED: 7-Oct-96

TIME STARTED: 14:43 HOURS

VOLUME/DEPTH OF TEST SOLUTION: 16 Liters / 19 cm
 TYPE OF AERATION: Blo. Lab. Ring Compressor System

RENEWAL OF TEST SOLUTIONS AT: 0 Hour Intervals
 ORGANISMS PER CONCENTRATION: 30
 DILUTION WATER SOURCE: Control; Blo. Lab. Pump Seawater

TEST CONCENTRATIONS

	<u>100%</u>	<u>CONTROL</u>	<u>INITIALS</u>
0 HOURS			
TEMPERATURE (Degrees Celsius)	16.2	16.0	BKC
DISSOLVED OXYGEN (mg/Liter)	6.9	7.5	BKC
PH	8.1	8.1	BKC
SALINITY/HARDNESS	33.4	33.4	BKC
4 HOURS			
ORGANISMS SURVIVING	30	30	BKC
% SURVIVAL	100	100	BKC
TEMPERATURE (Degrees Celsius)	16.0	16.0	BKC
DISSOLVED OXYGEN (mg/Liter)	7.6	7.5	BKC
PH	8.0	8.0	BKC
48 HOURS			
ORGANISMS SURVIVING	30	30	BKC
% SURVIVAL	100	100	BKC
TEMPERATURE (Degrees Celsius)	16.3	16.3	BKC
DISSOLVED OXYGEN (mg/Liter)	7.5	7.4	BKC
PH	8.0	8.0	BKC
72 HOURS			
ORGANISMS SURVIVING	30	30	BKC
% SURVIVAL	100	100	BKC
TEMPERATURE (Degrees Celsius)	16.0	16.1	BKC
DISSOLVED OXYGEN (mg/Liter)	7.8	7.8	BKC
PH	8.0	7.9	BKC
16 HOURS			
ORGANISMS SURVIVING	30	30	BKC
% SURVIVAL	100	100	BKC
TEMPERATURE (Degrees Celsius)	15.8	15.9	BKC
DISSOLVED OXYGEN (mg/Liter)	7.9	8.0	BKC
PH	8.0	7.9	BKC
SALINITY/HARDNESS	33.4	33.4	BKC

U: Procedure No. 0, No Mortality
 Temperature Probe No. 2.3
 Calibration Due Date 019 & 054
 3-Apr-97

TESTED BY: Bryan K. Cunningham
 Reviewed By: James T. Kelly



DCPP - 241 Acute Bioassay Average Length of Test Abalone

Shell Lengths of Test Animals in millimeters :

CONTROL

DISCHARGE

13	15
15	12
16	11
14	15
13	14
12	16
15	14
15	12
16	14
16	16
13	13
12	16
11	15
13	14
12	12
15	14
16	14
15	13
16	13
16	16
11	16
12	14
12	15
15	15
16	15
13	16
12	13
16	16
15	16
16	16

AVERAGE 14.1 14.4

STDEV. 1.76 1.47

Average Length Control and Discharge : 14.2

Range : 11 - 16 mm



Control Solution Temperature Recordings - DCP - 241 Juvenile Red Abalone Acute Bioassay

10/7/96	13:54:55	13	15.95	10/8/96	6:18:08	13	15.44	10/8/96	22:41:10	13	16.09
10/7/96	14:14:57	13	15.97	10/8/96	6:38:10	13	15.43	10/8/96	23:01:20	13	16.11
10/7/96	14:35:11	13	16.00	10/8/96	6:58:11	13	15.42	10/8/96	23:21:27	13	16.10
10/7/96	14:55:14	13	16.03	10/8/96	7:18:16	13	15.42	10/8/96	23:41:31	13	16.11
10/7/96	15:15:22	13	16.45	10/8/96	7:38:24	13	15.42	10/9/96	0:01:34	13	16.07
10/7/96	15:35:27	13	16.31	10/8/96	7:58:31	13	15.42	10/9/96	0:21:42	13	16.06
10/7/96	15:55:35	13	16.50	10/8/96	8:18:35	13	15.43	10/9/96	0:41:44	13	16.08
10/7/96	16:15:36	13	16.43	10/8/96	8:38:38	13	15.44	10/9/96	1:01:47	13	16.07
10/7/96	16:35:38	13	16.42	10/8/96	8:58:38	13	15.46	10/9/96	1:21:49	13	16.07
10/7/96	16:55:43	13	16.41	10/8/96	9:18:45	13	15.48	10/9/96	1:41:52	13	16.06
10/7/96	17:15:48	13	16.37	10/8/96	9:38:51	13	15.50	10/9/96	2:01:56	13	16.04
10/7/96	17:35:52	13	16.33	10/8/96	9:58:54	13	15.54	10/9/96	2:21:58	13	16.05
10/7/96	17:55:56	13	16.29	10/8/96	10:18:57	13	15.57	10/9/96	2:42:06	13	16.04
10/7/96	18:15:57	13	16.23	10/8/96	10:38:57	13	15.61	10/9/96	3:02:08	13	16.03
10/7/96	18:35:59	13	16.20	10/8/96	10:59:01	13	15.65	10/9/96	3:22:16	13	16.03
10/7/96	18:56:06	13	16.19	10/8/96	11:19:08	13	15.69	10/9/96	3:42:18	13	16.01
10/7/96	19:16:09	13	16.14	10/8/96	11:39:11	13	15.73	10/9/96	4:02:21	13	16.00
10/7/96	19:36:14	13	16.09	10/8/96	11:59:16	13	15.77	10/9/96	4:22:27	13	15.99
10/7/96	19:56:17	13	16.05	10/8/96	12:19:18	13	15.80	10/9/96	4:42:35	13	15.98
10/7/96	20:16:19	13	16.05	10/8/96	12:39:19	13	15.83	10/9/96	5:02:36	13	15.96
10/7/96	20:36:23	13	16.02	10/8/96	12:59:23	13	15.85	10/9/96	5:22:37	13	15.96
10/7/96	20:56:30	13	15.98	10/8/96	13:19:30	13	15.87	10/9/96	5:42:40	13	15.94
10/7/96	21:16:31	13	15.93	10/8/96	13:39:37	13	15.90	10/9/96	6:02:48	13	15.92
10/7/96	21:36:37	13	15.90	10/8/96	13:59:39	13	15.92	10/9/96	6:22:52	13	15.91
10/7/96	21:56:42	13	15.86	10/8/96	14:19:48	13	15.96	10/9/96	6:42:59	13	15.92
10/7/96	22:16:50	13	15.82	10/8/96	14:39:57	13	15.99	10/9/96	7:03:06	13	15.92
10/7/96	22:36:50	13	15.80	10/8/96	14:59:59	13	16.00	10/9/96	7:23:13	13	15.93
10/7/96	22:56:54	13	15.77	10/8/96	15:20:05	13	16.06	10/9/96	7:43:15	13	15.91
10/7/96	23:16:59	13	15.75	10/8/96	15:40:09	13	16.08	10/9/96	8:03:23	13	15.91
10/7/96	23:37:03	13	15.72	10/8/96	16:00:13	13	16.13	10/9/96	8:23:27	13	15.92
10/7/96	23:57:05	13	15.70	10/8/96	16:20:18	13	16.17	10/9/96	8:43:31	13	15.90
10/8/96	0:17:10	13	15.68	10/8/96	16:40:20	13	16.19	10/9/96	9:03:40	13	15.94
10/8/96	0:37:13	13	15.66	10/8/96	17:00:28	13	16.20	10/9/96	9:23:43	13	15.92
10/8/96	0:57:15	13	15.64	10/8/96	17:20:29	13	16.21	10/9/96	9:43:45	13	15.95
10/8/96	1:17:17	13	15.62	10/8/96	17:40:31	13	16.24	10/9/96	10:03:47	13	15.96
10/8/96	1:37:24	13	15.61	10/8/96	18:00:35	13	16.25	10/9/96	10:23:50	13	15.96
10/8/96	1:57:24	13	15.61	10/8/96	18:20:38	13	16.26	10/9/96	10:43:55	13	15.97
10/8/96	2:17:27	13	15.60	10/8/96	18:40:41	13	16.24	10/9/96	11:04:02	13	16.00
10/8/96	2:37:30	13	15.60	10/8/96	19:00:44	13	16.27	10/9/96	11:24:07	13	16.00
10/8/96	2:57:32	13	15.60	10/8/96	19:20:45	13	16.23	10/9/96	11:44:09	13	16.02
10/8/96	3:17:39	13	15.59	10/8/96	19:40:48	13	16.24	10/9/96	12:04:13	13	16.06
10/8/96	3:37:40	13	15.59	10/8/96	20:00:54	13	16.24	10/9/96	12:24:14	13	16.08
10/8/96	3:57:42	13	15.57	10/8/96	20:21:00	13	16.24	10/9/96	12:44:19	13	16.09
10/8/96	4:17:49	13	15.56	10/8/96	20:41:03	13	16.21	10/9/96	13:04:26	13	16.10
10/8/96	4:37:56	13	15.54	10/8/96	21:01:04	13	16.19	10/9/96	13:24:30	13	16.12
10/8/96	4:57:57	13	15.52	10/8/96	21:21:09	13	16.20	10/9/96	13:44:34	13	16.16
10/8/96	5:17:57	13	15.50	10/8/96	21:41:10	13	16.15	10/9/96	14:04:35	13	16.15
10/8/96	5:38:01	13	15.48	10/8/96	22:01:16	13	16.13	10/9/96	14:24:38	13	16.24
10/8/96	5:58:04	13	15.46	10/8/96	22:21:18	13	16.14	10/9/96	14:44:41	13	16.28



Control Solution Temperature Recording - DCP - 241 Juvenile Red Abalone Acute Bioassay

10/9/96	15:04:47	13	16.21	10/10/96	7:28:08	13	15.83	10/10/96	23:51:36	13	15.54
10/9/96	15:24:51	13	16.29	10/10/96	7:48:15	13	15.83	10/11/96	0:11:43	13	15.51
10/9/96	15:44:59	13	16.27	10/10/96	8:08:19	13	15.82	10/11/96	0:31:49	13	15.49
10/9/96	16:05:02	13	16.29	10/10/96	8:28:23	13	15.89	10/11/96	0:51:54	13	15.48
10/9/96	16:25:06	13	16.31	10/10/96	8:48:25	13	15.86	10/11/96	1:11:55	13	15.44
10/9/96	16:45:06	13	16.33	10/10/96	9:08:28	13	15.85	10/11/96	1:31:57	13	15.42
10/9/96	17:05:12	13	16.34	10/10/96	9:28:34	13	15.88	10/11/96	1:52:01	13	15.41
10/9/96	17:25:14	13	16.34	10/10/96	9:48:39	13	15.87	10/11/96	2:12:05	13	15.39
10/9/96	17:45:18	13	16.34	10/10/96	10:08:46	13	15.89	10/11/96	2:32:07	13	15.39
10/9/96	18:05:25	13	16.35	10/10/96	10:28:46	13	15.88	10/11/96	2:52:10	13	15.38
10/9/96	18:25:29	13	16.35	10/10/96	10:48:48	13	15.89	10/11/96	3:12:17	13	15.38
10/9/96	18:45:32	13	16.34	10/10/96	11:08:57	13	15.94	10/11/96	3:32:25	13	15.37
10/9/96	19:05:35	13	16.32	10/10/96	11:29:02	13	15.95	10/11/96	3:52:29	13	15.37
10/9/96	19:25:43	13	16.30	10/10/96	11:49:07	13	15.97	10/11/96	4:12:32	13	15.36
10/9/96	19:45:44	13	16.28	10/10/96	12:09:10	13	15.94	10/11/96	4:32:41	13	15.36
10/9/96	20:05:52	13	16.26	10/10/96	12:29:12	13	15.93	10/11/96	4:52:42	13	15.35
10/9/96	20:25:55	13	16.22	10/10/96	12:49:16	13	15.93	10/11/96	5:12:44	13	15.35
10/9/96	20:45:57	13	16.19	10/10/96	13:09:22	13	15.99	10/11/96	5:32:44	13	15.35
10/9/96	21:06:03	13	16.16	10/10/96	13:29:25	13	15.98	10/11/96	5:52:50	13	15.34
10/9/96	21:26:12	13	16.13	10/10/96	13:49:27	13	16.06	10/11/96	6:12:52	13	15.34
10/9/96	21:46:13	13	16.11	10/10/96	14:09:35	13	16.10	10/11/96	6:32:52	13	15.34
10/9/96	22:06:14	13	16.10	10/10/96	14:29:41	13	16.11	10/11/96	6:52:59	13	15.35
10/9/96	22:26:20	13	16.08	10/10/96	14:49:43	13	16.12	10/11/96	7:13:07	13	15.36
10/9/96	22:46:23	13	16.07	10/10/96	15:09:46	13	16.13	10/11/96	7:33:11	13	15.37
10/9/96	23:06:23	13	16.05	10/10/96	15:29:49	13	16.14	10/11/96	7:53:17	13	15.38
10/9/96	23:26:27	13	16.05	10/10/96	15:49:51	13	16.14	10/11/96	8:13:19	13	15.39
10/9/96	23:46:29	13	16.06	10/10/96	16:09:56	13	16.15	10/11/96	8:33:24	13	15.39
10/10/96	0:06:33	13	16.07	10/10/96	16:29:58	13	16.11	10/11/96	8:53:28	13	15.41
10/10/96	0:26:33	13	16.07	10/10/96	16:50:03	13	16.12	10/11/96	9:13:29	13	15.42
10/10/96	0:46:41	13	16.06	10/10/96	17:10:07	13	16.13	10/11/96	9:33:31	13	15.43
10/10/96	1:06:43	13	16.06	10/10/96	17:30:10	13	16.15	10/11/96	9:53:35	13	15.45
10/10/96	1:26:51	13	16.05	10/10/96	17:50:15	13	16.13	10/11/96	10:13:37	13	15.47
10/10/96	1:46:52	13	16.07	10/10/96	18:10:18	13	16.12	10/11/96	10:33:43	13	15.46
10/10/96	2:06:58	13	16.04	10/10/96	18:30:24	13	16.11	10/11/96	10:53:49	13	15.52
10/10/96	2:26:59	13	16.07	10/10/96	18:50:29	13	16.07	10/11/96	11:13:52	13	15.55
10/10/96	2:47:01	13	16.02	10/10/96	19:10:32	13	16.06	10/11/96	11:34:00	13	15.59
10/10/96	3:07:09	13	16.03	10/10/96	19:30:37	13	16.05	10/11/96	11:54:01	13	15.63
10/10/96	3:27:11	13	16.00	10/10/96	19:50:40	13	16.03	10/11/96	12:14:02	13	15.68
10/10/96	3:47:16	13	16.01	10/10/96	20:10:42	13	15.99	10/11/96	12:34:04	13	15.72
10/10/96	4:07:18	13	15.97	10/10/96	20:30:48	13	15.95	10/11/96	12:54:05	13	15.76
10/10/96	4:27:27	13	15.95	10/10/96	20:50:54	13	15.90	10/11/96	13:14:09	13	15.81
10/10/96	4:47:29	13	15.94	10/10/96	21:11:01	13	15.85	10/11/96	13:34:17	13	15.86
10/10/96	5:07:40	13	15.92	10/10/96	21:31:05	13	15.80	10/11/96	13:54:20	13	15.90
10/10/96	5:27:45	13	15.91	10/10/96	21:51:11	13	15.77	10/11/96	14:14:23	13	15.93
10/10/96	5:47:49	13	15.90	10/10/96	22:11:16	13	15.70	10/11/96	14:34:27	13	15.96
10/10/96	6:07:51	13	15.88	10/10/96	22:31:18	13	15.68	10/11/96	14:54:29	13	16.00
10/10/96	6:27:53	13	15.88	10/10/96	22:51:23	13	15.64	10/11/96	15:14:36	13	16.03
10/10/96	6:48:00	13	15.84	10/10/96	23:11:26	13	15.61	10/11/96	15:34:39	13	16.06
10/10/96	7:08:07	13	15.84	10/10/96	23:31:32	13	15.57	10/11/96	15:54:45	13	16.09



10/7/96	13:54:58	14	16.35	10/8/96	6:18:09	14	15.49	10/8/96	22:41:19	14	16.14
10/7/96	14:14:58	14	16.27	10/8/96	6:38:10	14	15.50	10/8/96	23:01:20	14	16.16
10/7/96	14:35:11	14	16.23	10/8/96	6:58:12	14	15.49	10/8/96	23:21:27	14	16.13
10/7/96	14:55:15	14	16.22	10/8/96	7:18:16	14	15.47	10/8/96	23:41:32	14	16.11
10/7/96	15:15:22	14	17.08	10/8/96	7:38:25	14	15.47	10/9/96	0:01:35	14	16.12
10/7/96	15:35:27	14	17.12	10/8/96	7:58:31	14	15.47	10/9/96	0:21:42	14	16.13
10/7/96	15:55:35	14	16.95	10/8/96	8:18:36	14	15.47	10/9/96	0:41:44	14	16.09
10/7/96	16:15:36	14	16.82	10/8/96	8:38:38	14	15.50	10/9/96	1:01:47	14	16.10
10/7/96	16:35:38	14	16.77	10/8/96	8:58:38	14	15.52	10/9/96	1:21:50	14	16.08
10/7/96	16:55:43	14	16.68	10/8/96	9:18:45	14	15.53	10/9/96	1:41:52	14	16.07
10/7/96	17:15:49	14	16.61	10/8/96	9:38:51	14	15.55	10/9/96	2:01:57	14	16.08
10/7/96	17:35:53	14	16.54	10/8/96	9:58:54	14	15.59	10/9/96	2:21:59	14	16.08
10/7/96	17:55:57	14	16.49	10/8/96	10:18:58	14	15.63	10/9/96	2:42:06	14	16.06
10/7/96	18:15:57	14	16.43	10/8/96	10:38:58	14	15.65	10/9/96	3:02:09	14	16.05
10/7/96	18:35:59	14	16.37	10/8/96	10:59:01	14	15.71	10/9/96	3:22:16	14	16.05
10/7/96	18:56:06	14	16.32	10/8/96	11:19:08	14	15.74	10/9/96	3:42:18	14	16.06
10/7/96	19:16:10	14	16.28	10/8/96	11:39:12	14	15.77	10/9/96	4:02:21	14	16.02
10/7/96	19:36:15	14	16.24	10/8/96	11:59:17	14	15.81	10/9/96	4:22:27	14	16.01
10/7/96	19:56:18	14	16.20	10/8/96	12:19:18	14	15.84	10/9/96	4:42:38	14	15.98
10/7/96	20:16:19	14	16.15	10/8/96	12:39:19	14	15.86	10/9/96	5:02:36	14	15.99
10/7/96	20:36:23	14	16.11	10/8/96	12:59:24	14	15.90	10/9/96	5:22:37	14	15.96
10/7/96	20:56:30	14	16.06	10/8/96	13:19:31	14	15.93	10/9/96	5:42:40	14	15.95
10/7/96	21:16:31	14	16.02	10/8/96	13:39:37	14	15.95	10/9/96	6:02:49	14	15.97
10/7/96	21:36:37	14	15.98	10/8/96	13:59:40	14	15.98	10/9/96	6:22:53	14	15.95
10/7/96	21:56:42	14	15.95	10/8/96	14:19:49	14	16.00	10/9/96	6:43:00	14	15.96
10/7/96	22:16:50	14	15.91	10/8/96	14:39:57	14	16.04	10/9/96	7:03:06	14	15.96
10/7/96	22:36:51	14	15.88	10/8/96	15:00:00	14	16.05	10/9/96	7:23:13	14	15.93
10/7/96	22:56:54	14	15.85	10/8/96	15:20:05	14	16.10	10/9/96	7:43:16	14	15.93
10/7/96	23:16:59	14	15.82	10/8/96	15:40:09	14	16.12	10/9/96	8:03:23	14	15.94
10/7/96	23:37:03	14	15.80	10/8/96	16:00:13	14	16.16	10/9/96	8:23:27	14	15.94
10/7/96	23:57:08	14	15.77	10/8/96	16:20:18	14	16.20	10/9/96	8:43:32	14	15.95
10/8/96	0:17:11	14	15.75	10/8/96	16:40:21	14	16.24	10/9/96	9:03:40	14	15.93
10/8/96	0:37:13	14	15.71	10/8/96	17:00:29	14	16.25	10/9/96	9:23:43	14	15.98
10/8/96	0:57:15	14	15.69	10/8/96	17:20:30	14	16.30	10/9/96	9:43:46	14	15.95
10/8/96	1:17:17	14	15.68	10/8/96	17:40:31	14	16.27	10/9/96	10:03:47	14	15.96
10/8/96	1:37:25	14	15.67	10/8/96	18:00:35	14	16.30	10/9/96	10:23:51	14	15.98
10/8/96	1:57:24	14	15.66	10/8/96	18:20:38	14	16.32	10/9/96	10:43:56	14	15.97
10/8/96	2:17:28	14	15.66	10/8/96	18:40:42	14	16.34	10/9/96	11:04:03	14	16.02
10/8/96	2:37:31	14	15.66	10/8/96	19:00:44	14	16.31	10/9/96	11:24:08	14	16.00
10/8/96	2:57:32	14	15.65	10/8/96	19:20:46	14	16.33	10/9/96	11:44:10	14	16.02
10/8/96	3:17:39	14	15.65	10/8/96	19:40:48	14	16.31	10/9/96	12:04:14	14	16.07
10/8/96	3:37:41	14	15.64	10/8/96	20:00:55	14	16.28	10/9/96	12:24:14	14	16.10
10/8/96	3:57:43	14	15.62	10/8/96	20:21:00	14	16.26	10/9/96	12:44:19	14	16.09
10/8/96	4:17:49	14	15.62	10/8/96	20:41:03	14	16.24	10/9/96	13:04:26	14	16.16
10/8/96	4:37:56	14	15.60	10/8/96	21:01:05	14	16.21	10/9/96	13:24:31	14	16.16
10/8/96	4:57:57	14	15.58	10/8/96	21:21:10	14	16.18	10/9/96	13:44:34	14	16.16
10/8/96	5:17:57	14	15.56	10/8/96	21:41:10	14	16.17	10/9/96	14:04:35	14	16.20
10/8/96	5:38:01	14	15.55	10/8/96	22:01:16	14	16.14	10/9/96	14:24:39	14	16.22
10/8/96	5:58:05	14	15.52	10/8/96	22:21:18	14	16.14	10/9/96	14:44:41	14	16.25



10/9/96	15:04:47	14	16.26	10/10/96	7:28:08	14	15.88	10/10/96	23:51:36	14	15.54
10/9/96	15:24:51	14	16.29	10/10/96	7:48:15	14	15.87	10/11/96	0:11:43	14	15.52
10/9/96	15:44:59	14	16.31	10/10/96	8:08:19	14	15.87	10/11/96	0:31:49	14	15.48
10/9/96	16:05:02	14	16.33	10/10/96	8:28:23	14	15.87	10/11/96	0:51:54	14	15.46
10/9/96	16:25:06	14	16.37	10/10/96	8:48:25	14	15.89	10/11/96	1:11:56	14	15.44
10/9/96	16:45:08	14	16.38	10/10/96	9:08:27	14	15.89	10/11/96	1:31:57	14	15.42
10/9/96	17:05:13	14	16.39	10/10/96	9:28:34	14	15.89	10/11/96	1:52:01	14	15.41
10/9/96	17:25:15	14	16.38	10/10/96	9:48:39	14	15.89	10/11/96	2:12:05	14	15.41
10/9/96	17:45:18	14	16.38	10/10/96	10:08:46	14	15.90	10/11/96	2:32:07	14	15.39
10/9/96	18:05:25	14	16.39	10/10/96	10:28:47	14	15.91	10/11/96	2:52:10	14	15.38
10/9/96	18:25:29	14	16.40	10/10/96	10:48:49	14	15.92	10/11/96	3:12:17	14	15.38
10/9/96	18:45:32	14	16.40	10/10/96	11:08:57	14	15.93	10/11/96	3:32:25	14	15.37
10/9/96	19:05:35	14	16.38	10/10/96	11:29:03	14	15.94	10/11/96	3:52:29	14	15.37
10/9/96	19:25:44	14	16.38	10/10/96	11:49:07	14	15.95	10/11/96	4:12:33	14	15.36
10/9/96	19:45:45	14	16.35	10/10/96	12:09:11	14	15.94	10/11/96	4:32:41	14	15.35
10/9/96	20:05:53	14	16.32	10/10/96	12:29:12	14	15.95	10/11/96	4:52:42	14	15.35
10/9/96	20:25:56	14	16.29	10/10/96	12:49:16	14	15.97	10/11/96	5:12:44	14	15.34
10/9/96	20:45:57	14	16.25	10/10/96	13:09:23	14	15.97	10/11/96	5:32:44	14	15.34
10/9/96	21:06:03	14	16.24	10/10/96	13:29:25	14	15.99	10/11/96	5:52:51	14	15.33
10/9/96	21:26:13	14	16.21	10/10/96	13:49:27	14	16.05	10/11/96	6:12:52	14	15.33
10/9/96	21:46:14	14	16.17	10/10/96	14:09:36	14	16.03	10/11/96	6:32:52	14	15.33
10/9/96	22:06:15	14	16.14	10/10/96	14:29:42	14	16.04	10/11/96	6:52:59	14	15.34
10/9/96	22:26:21	14	16.13	10/10/96	14:49:43	14	16.04	10/11/96	7:13:08	14	15.34
10/9/96	22:46:23	14	16.11	10/10/96	15:09:47	14	16.05	10/11/96	7:33:11	14	15.35
10/9/96	23:06:23	14	16.11	10/10/96	15:29:49	14	16.08	10/11/96	7:53:18	14	15.36
10/9/96	23:26:27	14	16.10	10/10/96	15:49:52	14	16.07	10/11/96	8:13:19	14	15.36
10/9/96	23:46:29	14	16.11	10/10/96	16:09:56	14	16.07	10/11/96	8:33:25	14	15.36
10/10/96	0:06:33	14	16.11	10/10/96	16:29:59	14	16.07	10/11/96	8:53:29	14	15.38
10/10/96	0:26:34	14	16.12	10/10/96	16:50:03	14	16.07	10/11/96	9:13:30	14	15.39
10/10/96	0:46:41	14	16.11	10/10/96	17:10:07	14	16.08	10/11/96	9:33:32	14	15.39
10/10/96	1:06:44	14	16.11	10/10/96	17:30:11	14	16.07	10/11/96	9:53:36	14	15.41
10/10/96	1:26:51	14	16.10	10/10/96	17:50:15	14	16.08	10/11/96	10:13:37	14	15.42
10/10/96	1:46:52	14	16.10	10/10/96	18:10:18	14	16.08	10/11/96	10:33:43	14	15.45
10/10/96	2:06:58	14	16.11	10/10/96	18:30:24	14	16.05	10/11/96	10:53:50	14	15.48
10/10/96	2:27:00	14	16.09	10/10/96	18:50:29	14	16.03	10/11/96	11:13:52	14	15.50
10/10/96	2:47:01	14	16.07	10/10/96	19:10:33	14	16.01	10/11/96	11:34:00	14	15.54
10/10/96	3:07:09	14	16.08	10/10/96	19:30:38	14	16.00	10/11/96	11:54:01	14	15.57
10/10/96	3:27:11	14	16.05	10/10/96	19:50:40	14	15.97	10/11/96	12:14:02	14	15.61
10/10/96	3:47:16	14	16.05	10/10/96	20:10:43	14	15.93	10/11/96	12:34:04	14	15.65
10/10/96	4:07:18	14	16.03	10/10/96	20:30:48	14	15.89	10/11/96	12:54:05	14	15.69
10/10/96	4:27:27	14	16.02	10/10/96	20:50:54	14	15.86	10/11/96	13:14:10	14	15.74
10/10/96	4:47:30	14	16.00	10/10/96	21:11:01	14	15.82	10/11/96	13:34:18	14	15.80
10/10/96	5:07:40	14	15.98	10/10/96	21:31:05	14	15.79	10/11/96	13:54:20	14	15.81
10/10/96	5:27:45	14	15.97	10/10/96	21:51:11	14	15.74	10/11/96	14:14:23	14	15.85
10/10/96	5:47:49	14	15.94	10/10/96	22:11:16	14	15.70	10/11/96	14:34:27	14	15.89
10/10/96	6:07:51	14	15.93	10/10/96	22:31:19	14	15.66	10/11/96	14:54:29	14	15.92
10/10/96	6:27:54	14	15.92	10/10/96	22:51:23	14	15.62	10/11/96	15:14:37	14	15.95
10/10/96	6:48:00	14	15.90	10/10/96	23:11:26	14	15.59	10/11/96	15:34:40	14	15.97
10/10/96	7:08:07	14	15.89	10/10/96	23:31:32	14	15.56	10/11/96	15:54:45	14	16.00



APPENDIX 6

DIABLO CANYON POWER PLANT

Chronic Bioassay

October 23-25, 1996



PACIFIC GAS & ELECTRIC COMPANY
P.O. BOX 56
AVILA BEACH, CA 93424

LABORATORY TEST REPORT

SUBJECT: CHRONIC TOXICITY ASSESSMENT OF DISCHARGE WATER FROM
DIABLO CANYON POWER PLANT, FOURTH QUARTER OF 1996

Introduction:

One chronic toxicity bioassay (DCPP-242) was conducted at the Diablo Canyon Biological Laboratory on water sampled October 22-23, 1996, from Diablo Canyon Power Plant's discharge 001. A reference toxicant test (DCPP-242Z) using zinc sulfate was also conducted. These bioassays satisfy this quarter's requirement for chronic toxicity testing in the 1990 California Ocean Plan.

Methods:

The bioassays were 48 hour chronic toxicity tests conducted using a state approved protocol developed by the Water Resources Control Board. Larval red abalone (Haliotis rufescens) were used as the test organism. The bioassays were begun within thirty-six hours of sample collection.

Results:

The highest concentration of the effluent sample that was not significantly different from the Control was the 100% concentration (No Observed Effect Level (NOEL) = 100%). Toxicity (TUc) = 100/NOEL = 1.0. A toxicity of 1.0 indicates no chronic toxicity in the discharge sample. Data were analyzed using ANOVA with Dunnet's Test. The effluent test and the reference toxicant test met all test acceptance criteria. Data sheets and statistical analysis results are attached.

SUMMARY OF RESULTS

Test Solution	Assay No.	Date Sampled	Toxicity (TUc)
Discharge 001	DCPP-242	October 22-23, 1996	1.0 (NOEL = 100%)
Reference Toxicant	DCPP-242Z	October 23, 1996	3:13 (NOEL = 32 ug/l)

References:

State of California. October 1990. Procedures Manual for Conducting Toxicity Tests
Developed by the Marine Bioassay Project. Water Resources Control Board.

US EPA. August 1995. Chronic Bioassay Methods.

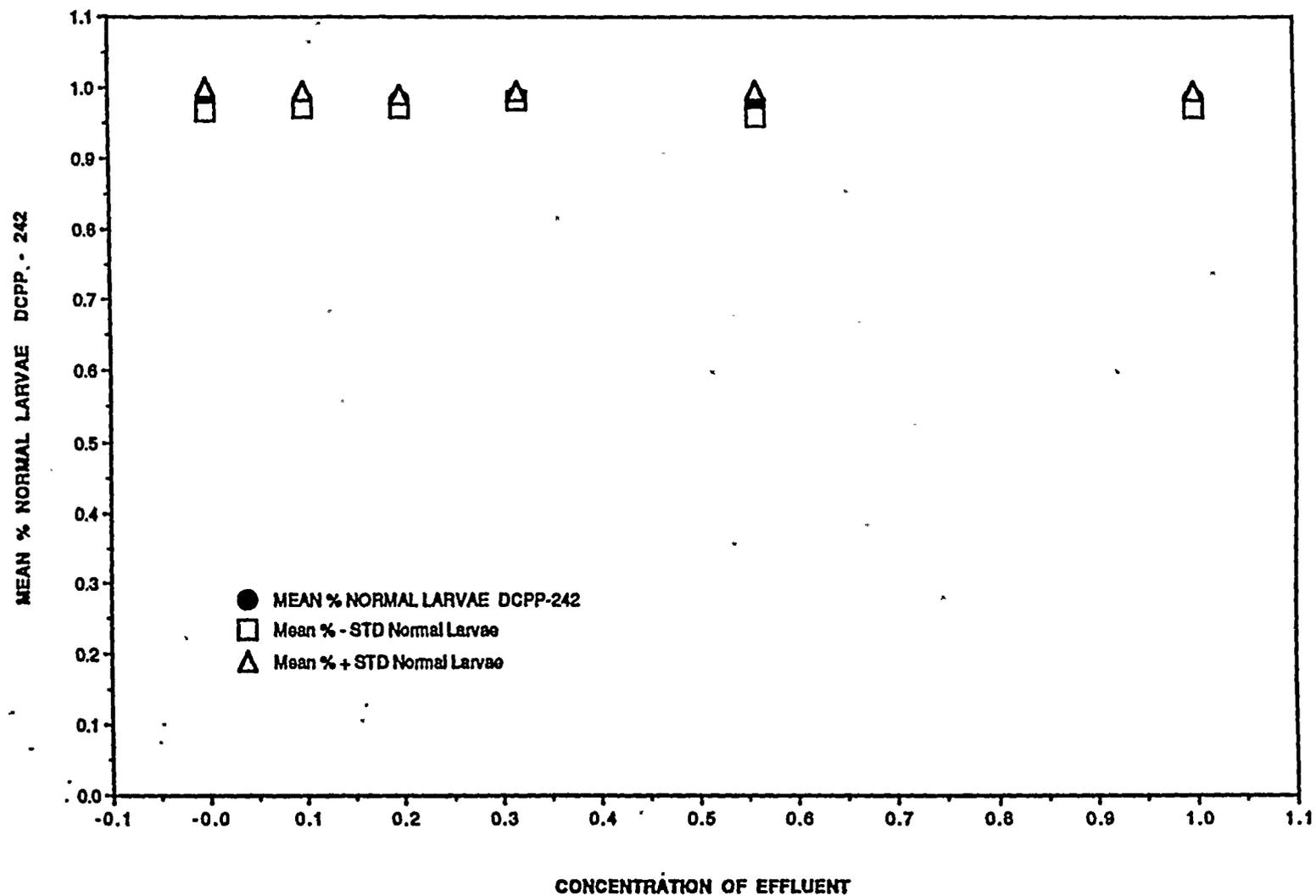
Distribution: AMJackson
RWLorenz
HRumsey
RMS Indexer

DATE:	12/17/96
TESTED BY:	James L. Kelly
APPROVED BY:	D. Dummer
FILE NO.:	



Test Container Number	Effluent Concentration Percent	Number Abnormal Larvae	Number Normal Larvae	Percentage of Normal Larvae	Mean % Normal Larvae	Standard Deviation Normal L.	Mean less Standard Deviation	Mean plus Standard Deviation	Percentage of Abnormal Larvae	Mean % Abnormal Larvae
7	0.0% Control 0.45 um Filtered Seawater	0	200	100.00%	0.983	0.017	0.966	1.000	0.00%	0.017
13		4	196	98.00%					2.00%	
17		0	200	100.00%					0.00%	
19		5	195	97.50%					2.50%	
39		8	192	96.00%					4.00%	
1	10.0%	2	198	99.00%	0.983	0.012	0.971	0.995	1.00%	0.017
5		0	200	100.00%					0.00%	
22		4	196	98.00%					2.00%	
26		5	195	97.50%					2.50%	
29		6	194	97.00%					3.00%	
3	20.0%	3	197	98.50%	0.981	0.010	0.971	0.991	1.50%	0.019
23		2	198	99.00%					1.00%	
27		4	196	98.00%					2.00%	
30		3	197	98.50%					1.50%	
33		7	193	96.50%					3.50%	
4	32.0%	2	198	99.00%	0.988	0.006	0.982	0.994	1.00%	0.012
21		3	197	98.50%					1.50%	
25		1	199	99.50%					0.50%	
32		4	196	98.00%					2.00%	
40		2	198	99.00%					1.00%	
2	56.0%	6	194	97.00%	0.977	0.018	0.959	0.995	3.00%	0.023
15		10	190	95.00%					5.00%	
20		3	197	98.50%					1.50%	
35		3	197	98.50%					1.50%	
43		1	199	99.50%					0.50%	
8	100.0%	7	193	96.50%	0.984	0.012	0.972	0.996	3.50%	0.016
12		2	198	99.00%					1.00%	
14		4	196	98.00%					2.00%	
31		1	199	99.50%					0.50%	
42		2	198	99.00%					1.00%	







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Diablo Canyon Biological Laboratory

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Test Date: 10/23/96
 Sample Date: 10/22/96
 Species: *Haliotis rufescens*
 Test Type: Chronic

Test Number: DCP-242
 Test Material: Effluent - Power Plant %
 Source: CA0003751
 RWQCB Discharge permit
 Diablo Canyon Power Plant

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SUMMARY

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End Point	Day	Transformation	Conc	#Reps	Mean	StDev	% Surv
Proportion Normal		Arc sine sqrt w/out adj.	X 0.000 D	5	1.47	.094	
			X 10.000 D	5	1.46	.070	
			X 20.000 D	5	1.44	.033	
			X 32.000 D	5	1.46	.027	
			X 56.000 D	5	1.43	.059	
			X 100.000 D	5	1.45	.046	
Proportion Normal		No transformation	0.000 D	5	.98	.017	
			10.000 D	5	.98	.012	
			20.000 D	5	.98	.010	
			32.000 D	5	.99	.006	
			56.000 D	5	.98	.018	
			100.000 D	5	.98	.012	

X = indicates concentrations used in calculations

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- HYPOTHESIS TEST -

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End Point	Day	Transformation/Analysis	NOEC	LOEC	TU	MSE	MSD
Proportion Normal		Arc sine sqrt w/out adj. Dunnnett	>100.000	>100.000	< 1.00	.004	.025



Container Number	Toxicant Concentration ug per Liter	Number Abnormal Larvae	Number Normal Larvae	Percentage of Normal Larvae	Mean % Normal Larvae	Standard Deviation Normal L.	Mean less Standard Deviation	Mean plus Standard Deviation	Percentage of Abnormal Larvae	Mean % Abnormal Larvae
7	0.0%	0	200	100.00%	0.983	0.017	0.966	1.000	0.00%	0.017
13	Control 0.45 um Filtered Seawater	4	196	98.00%					2.00%	
17		0	200	100.00%					0.00%	
19		5	195	97.50%					2.50%	
39		8	192	96.00%					4.00%	
9		18.0	2	198	99.00%	0.987	0.006	0.981	0.993	1.00%
11		3	197	98.50%					1.50%	
18		4	196	98.00%					2.00%	
24		3	197	98.50%					1.50%	
34		1	199	99.50%					0.50%	
6	32.0	3	197	98.50%	0.980	0.005	0.975	0.985	1.50%	0.020
10		5	195	97.50%					2.50%	
28		3	197	98.50%					1.50%	
37		5	195	97.50%					2.50%	
45		4	196	98.00%					2.00%	
16	56.0	143	57	28.50%	0.216	0.058	0.160	0.272	71.50%	0.784
36		152	48	24.00%					76.00%	
38		161	39	19.50%					80.50%	
41		173	27	13.50%					86.50%	
44		155	45	22.50%					77.50%	



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Diablo Canyon Biological Laboratory

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Test Date: 10/23/96
 Sample Date: 10/23/96
 Species: *Haliotis rufescens*
 Test Type: Chronic

Test Number: DCCP-242Z
 Test Material: Zinc sulfate ug/L
 Source: REF
 Reference Toxicant

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SUMMARY

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End Point	Day	Transformation	Conc	#Reps	Mean	StDev	% Surv
Proportion Normal		Arc sine sqrt w/out adj.	X 0.000 D	5	1.47	.094	
			X 18.000 D	5	1.46	.027	
			X 32.000 D	5	1.43	.018	
			X 56.000 D	5	.48	.070	
Proportion Normal		No transformation	0.000 D	5	.98	.017	
			18.000 D	5	.99	.006	
			32.000 D	5	.98	.005	
			56.000 D	5	.22	.056	

X = indicates concentrations used in calculations

=====

- HYPOTHESIS TEST -

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End Point	Day	Transformation/Analysis	NOEC	LOEC	TU	HSE	MSD
Proportion Normal		Arc sine sqrt w/out adj. Dunnett	32.000	56.000		.004	.024

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- PROPORTION POINT ESTIMATE -

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End Point	Day	Method	P	Conc	95% CI	TU
Proportion Normal		Graphical Interpolation	EC 15	35.527	-	
			EC 25	38.185	-	
			EC 40	42.550	-	
			EC 50	45.733	-	



PHYSICAL and CHEMICAL MEASUREMENTS

**Larval Red Abalone Chronic Bioassay
Diablo Canyon Biological Laboratory**

Test Start Date/Time : 23 October 1996 @ 16:14

Bioassay Number (s) : DCP - 242

Test Finish Date/Time : 25 October 1996 @ 16:14

Collection Date (s) : October 22 - 23 , 1996 @ 11:35

Test Organism : *Haliotis rufescens*

MEASUREMENTS AT START OF ASSAY

MEASUREMENTS AT FINISH OF ASSAY

	PH	D. OXYGEN	SALINITY	CONTAINER	PH	D. OXYGEN	SALINITY
CONTROL	8.0	7.2	33.2	17	8.0	7.1	33.4

REFERENCE TOXICANT : ZnSO4

18ug / L	8.0	7.2	33.1	9	8.0	7.4	33.4
32ug / L	8.0	7.2	33.1	10	8.0	7.3	33.4
56ug / L	8.0	7.1	33.0	38	8.0	7.4	33.3

Effluent Source: Diablo Canyon Power Plant 001 Discharge

Collection Date/Time: October 22 - 23 , 1996 @ 11:35

10%	8.0	7.1	33.2	29	8.0	7.4	33.5
20%	8.0	7.1	33.2	33	8.0	7.4	33.3
32%	8.1	7.0	33.2	32	8.0	7.5	33.3
56%	8.1	7.1	33.1	20	8.0	7.3	33.4
100%	8.1	7.2	33.1	31	8.1	7.5	33.2

Hourly Temperature Data

Hour 01	Hour 13	Hour 25	Hour 37
15.40	14.80	14.93	14.84
15.21	15.03	14.96	15.14
15.12	14.94	14.92	15.12
15.05	14.91	14.96	15.01
14.99	14.87	14.94	15.00
14.94	14.89	14.93	14.97
14.88	14.92	14.90	14.98
14.87	14.96	14.84	14.91
14.84	14.99	14.84	14.98
14.82	14.90	14.88	14.86
14.80	14.84	14.86	15.06
14.79	14.82	14.80	15.24
Hour 12	Hour 24	Hour 36	Hour 48

Mean Temperature 48 Hour Static Test

14.95 Degrees Celsius

Standard Deviation Hourly Temperature

0.12

Analyzed By : Bryan K. Cunningham

Reviewed by : *James L. Kelly*

Date Analyzed : 23 October 1996 / 25 October 1996

Date Reviewed : 12/16/96



ABALONE SPAWN and FERTILIZATION WORKSHEET

Larval Red Abalone Chronic Bioassay
Diablo Canyon Biological Laboratory

Test Start Date/Time : 23 October 1996 @ 1614 Bioassay Number(s) : DCPP - 242

Test Finish Date/Time : 25 October 1996 @ 1614 Effluent Source (s) : Diablo Canyon PP 001 Discharge

Test Organism : *Haliotis rufescens* Collection Date/Time : October 22-23, 1996 @ 11:35

Males Used	Gonad Index	Date Last Used	Females Used	Gonad Index	Date Last Used
1 Unmarked	4	No Prior Use	1 Unmarked	4	No Prior Use
2 Unmarked	4	No Prior Use	2 Unmarked	4	No Prior Use
3 Unmarked	4	No Prior Use	3 Unmarked	4	No Prior Use
4 Unmarked	4	No Prior Use	4 Unmarked	4	No Prior Use

Method of spawning : Peroxide () UV irradiated seawater () Other _____

Start of spawning treatment : Male 1230 Female 1200 Peroxide Solution Flushed From Spawn Tanks :

First Male spawns : 1407 Male : 1407 Female : 1415

First Female spawns : 1441 Comments : _____

Multiple spawners : Male : 1424 Female : 1438

Condition of spawn : Males : () light () moderate heavy : Females : () light () moderate heavy

Sperm added to egg container : 1515 Time fertilization complete : 1535

Determination of embryo density. Counts of 1 ml samples taken from beaker of condensed fertilized eggs :

1: 391 2: 347 3: 412 4: 378 5: 362

Mean : 378 STD : 25

Addition of 1000 embryos to each test container :
Pipette the volume calculated below from the well-mixed beaker sampled above.

(1000 embryos/test container) / (378 #embryos/ml) = 2.6 ml/test container

Temperature of embryos : 15.2° Celsius Temperature of test containers : 15.5° Celsius

Time all containers in incubator : 1614

Comments : To insure adequate spawn success, 5 additional Male and 2 additional Female abalone, gonad index 3 - 4, will be used in the Hydrogen Peroxide spawn induction procedure.

Prepared By : Bryan K. Cunningham

Reviewed By : James L. Kelly

Prepared : 23 October 1996

Date Reviewed : 12/16/96



RANDOMIZATION AND DILUTION DATA SHEET

Red Abalone Chronic Bioassay Diablo Canyon Biological Laboratory

Test Start Date / Time : ~~23 OCTOBER 1996 1614~~

Bioassay Number : DCP - 242

Test Finish Date / Time : ~~25 OCTOBER 1996 1614~~

Test Organism : Haliotis rufescens

Corresponding Container Numbers				
---------------------------------	--	--	--	--

Control Solution : 0.45um Filtered Seawater

17	39	13	19	7
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Reference Toxicant : ZnSO₄

Stock Solution 0.0440g in 1 liter of Distilled Water

Dilution source : Filtered Seawater

2.16 ml in 1200 ml total volume 18ug / L

9	18	24	34	11
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3.84 ml in 1200 ml total volume 32ug / L

10	6	45	37	28
----	---	----	----	----

6.72 ml in 1200 ml total volume 56ug / L

38	16	44	36	41
----	----	----	----	----

Effluent : 100% Effluent is the Stock Solution

EFFLUENT SOURCE: DCPP 001 Discharge

Dilution source : Filtered Seawater

20 ml in 1200 ml total volume. 10 %

29	5	26	1	22
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240 ml in 1200 ml total volume 20 %

33	3	27	30	23
----	---	----	----	----

384 ml in 1200 ml total volume 32 %

32	40	4	21	25
----	----	---	----	----

672 ml in 1200 ml total volume 56 %

20	43	35	15	2
----	----	----	----	---

1200 ml in 1200 ml total volume 100 %

31	14	42	8	12
----	----	----	---	----

Prepared By : Bryan K. Cunningham

Date Prepared : 23 October 1996



LARVAL DEVELOPMENT DATA SHEET

Larval Red Abalone Chronic Bioassay
Diablo Canyon Biological Laboratory

Test Start Date/Time : 23 October 1996 @ 16:14

Bioassay Number : DCPP - 242

Test Finish Date/Time : 25 October 1996 @ 16:14

Effluent Source : Diablo Canyon PP 001 Discharge

REFERENCE TOXICANT : ZnSO4 * 7H2O

Collection Date : October 22 - 23, 1996 @ 11:35

Vial Number	Test Container Number	Number of Abnormal Larvae	Number of Normal Larvae	Vial Number	Test Container Number	Number of Abnormal Larvae	Number of Normal Larvae
1	1	2	198	24	24	3	197
2	2	6	194	25	25	1	199
3	3	3	197	26	26	5	195
4	4	2	198	27	27	4	196
5	5	0	200	28	28	3	197
6	6	3	197	29	29	6	194
7	7	0	200	30	30	3	197
8	8	7	193	31	31	1	199
9	9	2	198	32	32	4	196
10	10	5	195	33	33	7	193
11	11	3	197	34	34	1	199
12	12	2	198	35	35	3	197
13	13	4	196	36	36	152	48
14	14	4	196	37	37	5	195
15	15	10	190	38	38	161	39
16	16	143	57	39	39	8	192
17	17	0	200	40	40	2	198
18	18	4	196	41	41	173	27
19	19	5	195	42	42	2	198
20	20	3	197	43	43	1	199
21	21	3	197	44	44	155	45
22	22	4	196	45	45	4	196
23	23	2	198				

26 OCTOBER 1996 CUNNINGHAM
26 OCTOBER 1996 BRYAN

26 OCTOBER 1996 BRYAN
26 OCTOBER 1996 CUNNINGHAM

Analyzed by : *[Signature]*
26 OCTOBER 1996

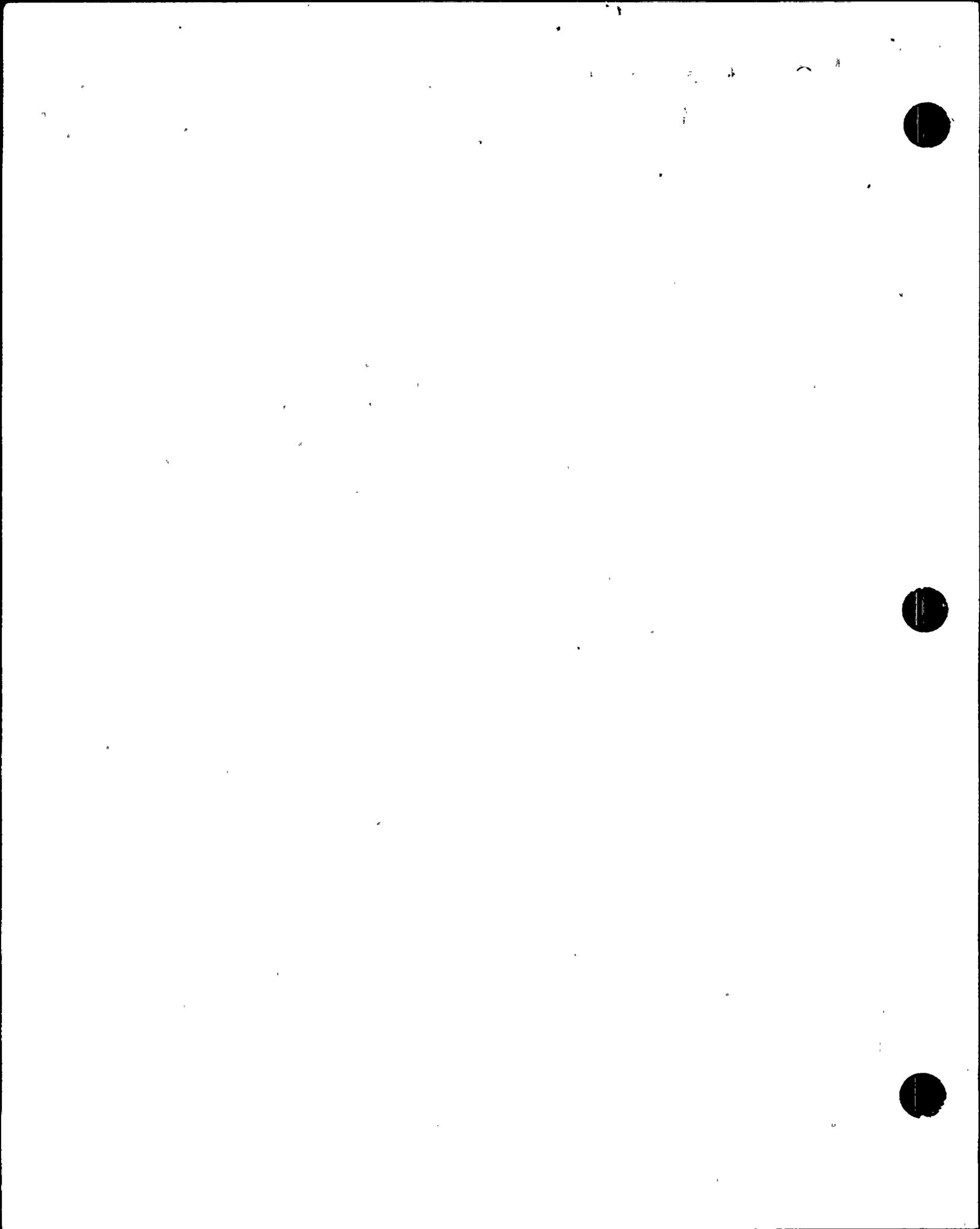
Reviewed by : *[Signature]*
Date Reviewed : 12/16/96

Date Analyzed :



Incubator Temperature Recordings DCP 2 Chronic Larval Abalone Bioassay

10/23/96	14:54:17	113	15.96	10/24/96	7:39:54	113	14.93	10/25/96	0:25:29	113	14.84
10/23/96	15:14:23	113	15.82	10/24/96	8:00:04	113	14.95	10/25/96	0:45:38	113	14.90
10/23/96	15:34:41	113	15.66	10/24/96	8:20:15	113	14.91	10/25/96	1:05:45	113	14.89
10/23/96	15:54:42	113	15.54	10/24/96	8:40:20	113	14.86	10/25/96	1:25:55	113	14.84
10/23/96	16:14:42	113	15.49	10/24/96	9:00:18	113	14.87	10/25/96	1:46:01	113	14.88
10/23/96	16:34:54	113	15.61	10/24/96	9:20:19	113	14.87	10/25/96	2:06:09	113	14.89
10/23/96	16:54:53	113	15.50	10/24/96	9:40:34	113	14.88	10/25/96	2:26:10	113	14.89
10/23/96	17:15:12	113	15.40	10/24/96	10:00:42	113	14.89	10/25/96	2:46:20	113	14.87
10/23/96	17:35:19	113	15.27	10/24/96	10:20:46	113	14.89	10/25/96	3:06:20	113	14.86
10/23/96	17:55:27	113	15.24	10/24/96	10:40:48	113	14.91	10/25/96	3:26:33	113	14.86
10/23/96	18:15:36	113	15.21	10/24/96	11:00:52	113	14.87	10/25/96	3:46:41	113	14.86
10/23/96	18:35:48	113	15.16	10/24/96	11:21:07	113	14.92	10/25/96	4:06:51	113	14.85
10/23/96	18:55:48	113	15.12	10/24/96	11:41:13	113	14.93	10/25/96	4:27:00	113	14.80
10/23/96	19:15:53	113	15.12	10/24/96	12:01:24	113	14.94	10/25/96	4:47:13	113	14.85
10/23/96	19:35:56	113	15.09	10/24/96	12:21:30	113	14.96	10/25/96	5:07:24	113	14.85
10/23/96	19:56:00	113	15.08	10/24/96	12:41:36	113	14.97	10/25/96	5:27:31	113	14.84
10/23/96	20:16:12	113	15.05	10/24/96	13:01:48	113	14.92	10/25/96	5:47:38	113	14.79
10/23/96	20:36:24	113	15.03	10/24/96	13:21:57	113	14.99	10/25/96	6:07:49	113	15.01
10/23/96	20:56:32	113	15.00	10/24/96	13:42:10	113	14.99	10/25/96	6:28:01	113	15.14
10/23/96	21:16:40	113	14.99	10/24/96	14:02:20	113	14.99	10/25/96	6:48:15	113	15.16
10/23/96	21:36:46	113	14.96	10/24/96	14:22:29	113	14.90	10/25/96	7:08:18	113	15.14
10/23/96	21:56:52	113	14.95	10/24/96	14:42:40	113	14.90	10/25/96	7:28:17	113	15.12
10/23/96	22:17:05	113	14.94	10/24/96	15:02:43	113	14.85	10/25/96	7:48:15	113	15.05
10/23/96	22:37:19	113	14.92	10/24/96	15:22:51	113	14.84	10/25/96	8:08:28	113	15.07
10/23/96	22:57:32	113	14.90	10/24/96	15:42:54	113	14.83	10/25/96	8:28:38	113	15.01
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10/24/96	0:57:54	113	14.95	10/24/96	17:43:21	113	14.95	10/25/96	10:29:21	113	14.97
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10/24/96	1:38:14	113	14.85	10/24/96	18:23:35	113	14.96	10/25/96	11:09:31	113	14.91
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10/24/96	3:18:30	113	14.80	10/24/96	20:04:03	113	14.97	10/25/96	12:50:00	113	14.97
10/24/96	3:38:42	113	14.81	10/24/96	20:24:06	113	14.86	10/25/96	13:10:07	113	14.91
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10/24/96	4:18:58	113	14.79	10/24/96	21:04:28	113	14.94	10/25/96	13:50:27	113	14.98
10/24/96	4:39:07	113	14.81	10/24/96	21:24:30	113	14.94	10/25/96	14:10:29	113	14.87
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10/24/96	5:39:27	113	14.80	10/24/96	22:24:46	113	14.93	10/25/96	15:10:41	113	14.86
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10/24/96	7:19:49	113	14.94	10/25/96	0:05:19	113	14.89	10/25/96	16:51:19	113	15.25



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Enclosure



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PG&E Letter DCL-97-503

ENCLOSURE

FOURTH QUARTER 1996

REPORT ON DISCHARGE MONITORING AT
DIABLO CANYON POWER PLANT

