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AUTH. NAME TOWNSEND, J.D. AUTHOR AFFILIATION Pacific Gas & Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION

LEONARD, W. California, State of

SUBJECT: "Rept on Discharge Monitoring at Diablo Canyon Power Plant
 During Fourth Quarter of 1990." W/910121 ltr.

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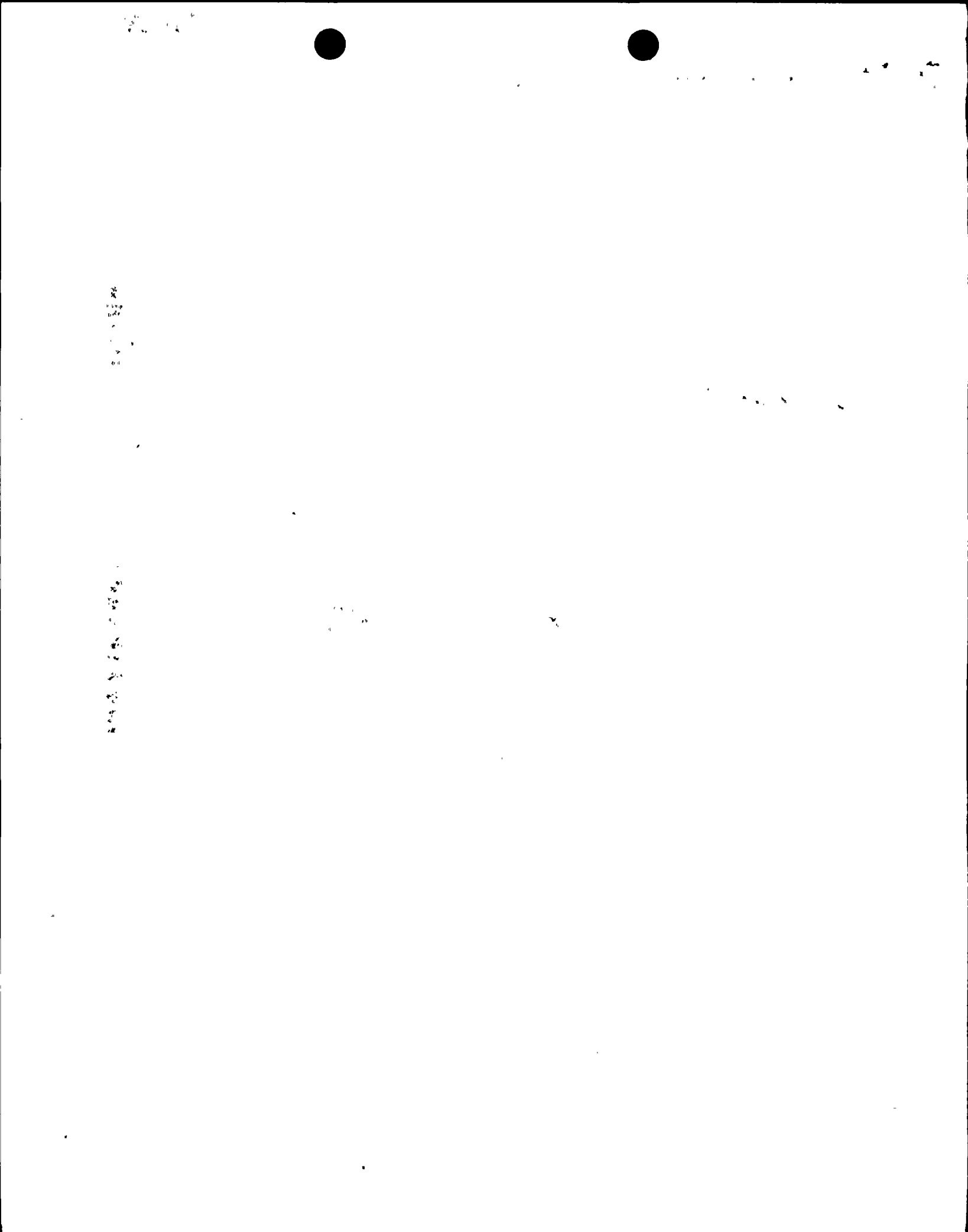
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	IRM-TECH ADV	1 1	NRR/DREP/PRPB11	2 2
	REG FILE 01	1 1	RES BROOKS, B	1 1
	RGN5 DRSS/RPB	2 2	RGN5 FILE 02	1 1
EXTERNAL:	BNL TICHLER, J03	1 1	EG&G SIMPSON, F	2 2
	NRC PDR	1 1		

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 [Signature]



Pacific Gas and Electric Company

Diablo Canyon Power Plant
P.O. Box 56
Avila Beach, CA 93424
805/595-7351

John D. Townsend
Vice President-Diablo Canyon Operations
and Plant Manager

January 21, 1991



Mr. William Leonard, Executive Officer
California Regional Water Quality Control Board
Central Coast Region
1102-A Laurel Lane
San Luis Obispo, California 93401

Dear Mr. Leonard:

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

The report for the fourth quarter of 1990 of the Diablo Canyon Power Plant Discharge Monitoring Program, in accordance with Order 90-09, NPDES No. CA0003751 is enclosed.

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 any 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 further questions, please contact Mr. Paul G. Dahan of my staff at (805) 545-4054.

Kindly acknowledge receipt of this material on the enclosed copy of this letter and return it in the enclosed addressed envelope.

Sincerely,

A handwritten signature in cursive script that reads "John D. Townsend".

JDT:jw

Enclosure

9102140223 901231
PDR ADOCK 05000275
R PDR

TEA 8
-11

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

Regional Administrator, Region 9
Environmental Protection Agency
1235 Mission Street
W-4-1, Attention: Carey Houk
San Francisco, California 94103

Regional Administrator
U. S. Nuclear Regulatory Commission
Region 5
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Walnut Creek, California 94596-5368

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

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



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PACIFIC GAS & ELECTRIC COMPANY
NUCLEAR POWER GENERATION

REPORT ON
DISCHARGE MONITORING AT
DIABLO CANYON POWER PLANT
DURING THE FOURTH QUARTER OF 1990

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OVERVIEW

- A. During the fourth quarter of 1990, discharges occurred from Discharge Paths 001 (once through cooling water), 001B, 001D, 001E, 001F, 001G, 001H, 001J, 001L, 001M, 001N, 001P, and 002 through 0015. No discharges occurred from Discharge Paths 001I, 001K, 016 and 017.
- B. The Diablo Canyon monitoring report for the third quarter of 1990, submitted on October 20, 1990, discussed a change in the sampling of Discharge 001P, Seawater Reverse Osmosis System Blowdown. Until September, 1990, the sampling point in this system was upstream of the entry of the effluent from the filter backwash system; thus, the results from suspended solids (SS) analyses of samples taken from this sampling point were not representative of the SS in this discharge stream. A new sampling point was installed in the combined effluent stream, and several grab samples were taken during various portions of the system backwash cycle. A calculation was then performed on the results of these grab samples (see third quarter report for calculation technique) to determine the effluent's average SS concentration.

To verify the appropriateness of the new sample point, several 24 hour composite samples were collected for SS from this point in October, 1990. Upon review of the results of the composite analyses, and further review of the location of the new sampling point, it was determined that the new sampling point would not yield a representative sample. This was concluded since the new sampling point was located on the outside of an elbow in the discharge pipe. The elbow tends to concentrate suspended matter, resulting in SS values that are biased high, as can be seen in the results for the October samples [page (M)7 of Appendix I], and the highlighted results for November samples [page (M)7 of Appendix 2.]

Therefore, in November, 1990, another sample point was installed just downstream in a linear portion of the discharge piping. The SS results for November and December, 1990, are based upon 24 hour composite samples taken at the newest sample point.

- C. In all cases, chemical, radiochemical, and toxicity analyses were performed in accordance with chemical analysis procedures contained in the Diablo Canyon Power Plant, Units 1 and 2 Plant Manual, Volume 8, by State approved laboratories, or laboratories meeting the requirements specified in the California Regional Water Quality Control Board Central Coast Region "Standard Provisions and Reporting Requirements" dated January 25, 1985. Receiving water monitoring was performed in accordance with approved biological and oceanographic procedures.

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SUMMARY OF MONITORING PROGRAM

A. Monitoring of Plant Influent and Effluent

The results of the October, November, and December plant influent and effluent monitoring are reported in Appendices 1, 2, and 3, respectively.

Results from DCPD toxicity bioassay on water sampled from discharge 001 performed on October 1, 1990 is included in Appendix 4.

B. Monitoring of Receiving Waters

Under the new discharge permit the following subtasks are no longer required as of June 1, 1990:

- Subtidal Video Transects
- Incident Light Measurements
- Surface Water Temperatures
- Aerial Kelp Photographs

1. Ecological Studies at Diablo Canyon

Ecological studies in the vicinity of Diablo Cove, referred to as the Diablo Canyon Thermal Effects Monitoring Program (TEMP), continue.

2. Sediment Analysis

Sediment samples were collected in September and the results were reported in the third quarter report.

3. Stratified Water Temperatures

Stratified water temperatures, measured on October 3, 1990, are reported in Appendix 5.

4. Dissolved Oxygen and pH of Receiving Waters

Dissolved oxygen and pH sampling, conducted on October 3, 1990, is summarized in Appendix 6.

5. In-situ Bioassay

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

9403 100 100

APPENDIX 1

Influent and Effluent Monitoring
Data for October 1990

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
LOS ANGELES, CA 90001

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (N) 1

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 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
OCTOBER								
1	57.4	75.7	18.3	2492				
2	57.4	75.9	18.5	2494				
3	57.9	76.3	18.4	2456				
4	58.5	75.1	16.6	2429				2 8.0
5	58.0	75.5	17.5	2503				
6	56.9	75.5	18.6	2507				
7	57.0	75.6	18.6	2508				
8	56.8	75.8	19.0	2494	7.9	7.9		
9	57.8	77.2	19.4	2495				
10	58.3	78.0	19.7	2496				
11	57.6	77.0	19.4	2495				
12	58.2	77.9	19.7	2431				
13	56.9	76.5	19.6	1882				
14	55.8	74.4	18.6	1932				
15	57.1	73.7	16.6	2493				
16	56.3	74.3	18.0	2492				
17	57.1	74.9	17.8	2492				
18	57.4	75.2	17.8	2493				
19	56.7	74.6	17.9	2492				
20	56.3	74.6	18.3	2492				
21	58.3	76.0	17.7	2497				
22	60.0	77.8	17.8	2505				
23	58.1	76.9	18.8	2520				
24	59.1	77.1	18.0	2503				
25	59.1	77.5	18.4	2508			7.9	
26	58.2	76.8	18.6	2494				
27	58.1	76.7	18.6	2492				
28	57.9	76.7	18.8	2492				
29	58.0	77.2	19.2	2503			7.8	
30	59.0	77.7	18.7	2510				
31	59.2	78.7	19.5	2523				
MONTHLY AVG	57.8	76.2	18.5	2455			7.9	8.0
MONTHLY HIGH	60.0	78.7	19.7	2523			7.9	8.0
MONTHLY LOW	55.8	73.7	16.6	1882			7.8	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: (1) Number of Samples taken during the day. (2) Except During Demusseling.
(3) Daily when discharging chemical cleaning wastes from discharges 001D, F, I, L and/or M.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Kuehn

11/5/91

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (M) 2

YEAR/ MO /DAY	STATE CODE	NPDES PERMIT #
ENDING 90 / 10 / 31	06	CA0003751

TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0	NO 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								

(11) When 001N is discharging to 001P. (111) When 001P is discharging to 003.

SIGNATURE OF AUTHORIZED AGENT **DATE**

John Krenig

4/15/9	
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FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO /DAY
ENDING 90 / 10 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

STATION	EFF 001N=>003	EFF 001N=>003	-----EFFLUENT 001D-----			-----EFFLUENT 001F-----		
ANALYSIS	TOTL COLIFORM	FECAL COLIFORM	SUSPENDED SOLIDS			SUSPENDED SOLIDS		
UNITS	MPN/100ml	MPN/100ml	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET
SMPL TYPE	GRAB	GRAB	GRAB			GRAB		
FREQ.	4 TIMES/WEEK	4 TIMES/WEEK	MONTHLY			MONTHLY		

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MONTHLY AVG	MONTHLY HIGH	MONTHLY LOW
10.0	12.0	8.0
11.0	13.0	9.0
12.0	14.0	10.0
13.0	15.0	11.0
14.0	16.0	12.0
15.0	17.0	13.0
16.0	18.0	14.0
17.0	19.0	15.0
18.0	20.0	16.0
19.0	21.0	17.0
20.0	22.0	18.0
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MARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE _____

for Krenn

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CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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) 4

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 10 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ.

-----EFFLUENT 001G-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

-----EFFLUENT 001H-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

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MONTHLY AVG
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TIMES EXCEEDED D MAX 100 =0 D MAX 100 =0
TIMES EXCEEDED

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

1/5/91

100



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
LOS ANGELES, CA 90001

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (M) 5

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 10 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ.

-----EFFLUENT 001I----- -----EFFLUENT 001J-----
SUSPENDED SOLIDS SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY GRAB
MONTHLY

OCTOBER

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26
27
28
29
30
31

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

NO DISCHARGE

NO DISCHARGE

TIMES EXCEEDED
TIMES EXCEEDED
TIMES EXCEEDED

NO LIMIT

NO LIMIT

NO AVG 30 =0
D MAX 100 =0

NO LIMIT

NO LIMIT

NO AVG 30 =0
D MAX 100 =0

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenig

11/5/91



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CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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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FACILITY I.D.
3 402003001

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NPDES PERMIT #
CA0003751

STATION
ANALYSIS
UNITS
SNPL TYPE
FREQ.

-----EFFLUENT 001K-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

-----EFFLUENT 001L-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

OCTOBER

1
2
3
4
5
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10
11
12
13
14
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16
17
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27
28
29
30
31

2 <1

2 <1

2 <1

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

NO DISCHARGE

<1
<1
<1

TIMES EXCEEDED
TIMES EXCEEDED
TIMES EXCEEDED

NO LIMIT

NO LIMIT

NO AVG 30 =0
D MAX 100 =0

NO LIMIT

NO LIMIT

NO AVG 30 =0
D MAX 100 =0

REMARKS: () Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John K. Kueper

1/5/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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DISCHARGE SELF MONITORING REPORT

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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	mg/l NET	mg/l	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET		
		GRAB		COMPOSITE		GRAB			
		MONTHLY		WEEKLY		MONTHLY			
OCTOBER									
1									
2									
3					5				
4									
5									
6									
7									
8									
9									
10									
11									
12					26				
13									
14									
15									
16									
17									
18	10	2	8		12				
19									
20									
21									
22									
23					35				
24									
25						53	12	41	
26									
27									
28									
29									
30									
31									
MONTHLY AVG	19								
MONTHLY HIGH	35								
MONTHLY LOW	5								
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO AVG 30 =0	NO AVG 60 =0	NO LIMIT	NO LIMIT	NO AVG 30 =0		
TIMES EXCEEDED			D MAX 100 =0				D MAX 100 =0		
TIMES EXCEEDED									

REMARKS: (1) Number of Samples taken during the day. (11) Elbow sample point.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Kuenig

1/17/91

CALIFORNIA REGIONAL WATER QUALITY
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DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
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STATION ANALYSIS UNITS SMPL TYPE FREQ.	-----EFFLUENT 002-----						-----EFFLUENT 003-----						
	SUSPENDED SOLIDS						SUSPENDED SOLIDS						
	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l NET	
	GRAB MONTHLY			GRAB MONTHLY			GRAB MONTHLY			GRAB MONTHLY			
OCTOBER	1	2	3	4	5	6	7	8	9	10	11	12	13
1													
2													
3													
4	2	7	2	3	2	4	38	19	19				
5													
6													
7													
8													
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21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
MONTHLY AVG	4												
MONTHLY HIGH	5												
MONTHLY LOW	3												
TIMES EXCEEDED	NO LIMIT	NO LIMIT	NO AVG 30 =0	NO LIMIT	NO LIMIT	NO AVG 30 =0							
TIMES EXCEEDED			I MAX 100 =0			I MAX 100 =0							
TIMES EXCEEDED													

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

1/5/91



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

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STATION ANALYSIS UNITS SMPL TYPE FREQ.	-----EFFLUENT 003----- SUSPENDED SOLIDS			EFFLUENT 001N SETTL SOLIDS		EFFLUENT 001 T CHROMIUM		EFFLUENT 001 COPPER		EFFLUENT 001 NICKEL		EFFLUENT 001 ZINC	
	mg/l 1st FLTR	mg/l 2nd FLTR	mg/l MET	ml/l		ug/l		ug/l		ug/l		ug/l	
	GRAB			GRAB		GRAB		GRAB		GRAB		GRAB	
	WEEKLY WHEN 001N & 001P => 003			WEEKLY		MONTHLY		MONTHLY		MONTHLY		MONTHLY	
OCTOBER	1	2	3	4	5	6	7	8	9	10	11	12	13
1													
2													
3						.1							
4													
5													
6													
7													
8								1		<1		5	
9													13
10													
11													
12						.1							
13													
14													
15													
16													
17													
18						.1							
19													
20													
21													
22													
23						.1							
24													
25													
26													
27													
28													
29													
30													
31													
MONTHLY AVG	NO DISCHARGE					.1							
MONTHLY HIGH						.1							
MONTHLY LOW						.1							
TIMES EXCEEDED	NO LIMIT	NO LIMIT	MD AVG 30 =0	MD AVG 1.0 =0	6M-MEAN 10 =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 50 =0	D MAX 50 =0	D MAX 380 =0				
TIMES EXCEEDED					I MAX 100 =0	I MAX 140 =0	I MAX 260 =0	I MAX 990 =0					

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenig

11/5/91



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[illegible][illegible]

MONTHLY AVG								
MONTHLY HIGH								
MONTHLY LOW								
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: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE _____

Jack Kennedy

1/15/91	
---------	--



CALIFORNIA REGIONAL WATER QUALITY
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DISCHARGE SELF MONITORING REPORT

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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
OCTOBER								
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2								
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4							2 7	
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6								6
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13								
16								
17								
18					<3			
19								
20								
21								
22								
23								
24								
25						<3		
26								
27								
28								
29								
30								
31								
MONTHLY AVG	NO DISCHARGE		NO DISCHARGE	<3			7	
MONTHLY HIGH				<3			9	
MONTHLY LOW				<3			5	
TIMES EXCEEDED	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0	NO AVG 15 =0
TIMES EXCEEDED	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0	D MAX 20 =0
TIMES EXCEEDED								

MARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT
DATE
1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
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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 WEEKLY COMP JA/AP/JUL/OCT	EFFLUENT 001L CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT	EFFLUENT 001F CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT
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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
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27																															
28																															
29																															
30																															
31																															

MONTHLY AVG					33	2																									
MONTHLY HIGH					34	2																									
MONTHLY LOW					32	2																									
TIMES EXCEEDED	NO AVG 15 =0	6M-MEAN 0.26	NO LIMIT	NO LIMIT	NO LIMIT	NO LIMIT																									
TIMES EXCEEDED	D MAX 20 =0	=0																													
TIMES EXCEEDED																															

MARKS: (*)_Number_of_Samples_taken_during_the_day_(**)_No_Mortalities.

PRINCIPAL EXECUTIVE OFFICER
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT
DATE
1/5/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
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1102A LAUREL LANE
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DISCHARGE SELF MONITORING REPORT

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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 WEEKLY 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 WEEKLY COMP JA/AP/JUL/OCT
--	--	--	--	---	--	--	--	---

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
	50	186	34	10	48	732	23	19																							
MONTHLY AVG		186	34			732	23																								
MONTHLY HIGH		205	68			1090	30																								
MONTHLY LOW		167	<5			374	15																								
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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

11/5/90

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
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1102A LAUREL LANE
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DISCHARGE SELF MONITORING REPORT

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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 WEEKLY 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 WEEKLY COMP JA/AP/JUL/OCT
--	--	--	--	---	---	---	---	--

OCTOBER

1	<5	2 376	2 <5	<5	5	2 <0.2	2 <0.2	<0.2
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
16								
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18								
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20								
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23								
24								
25								
26								
27								
28								
29								
30								
31								

MONTHLY AVG	376	<5				<0.2	<0.2	
MONTHLY HIGH	501	<5				<0.2	<0.2	
MONTHLY LOW	250	<5				<0.2	<0.2	

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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
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DISCHARGE SELF MONITORING REPORT

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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 WEEKLY 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 WEEKLY COMP JA/AP/JUL/OCT
--	--	--	--	---	--	--	--	---

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
	38	148	24	41	1	25	1																								

MONTHLY AVG	148	24	25	1
MONTHLY HIGH	165	35	26	1
MONTHLY LOW	130	13	24	<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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Kennedy

1/15/91

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. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

CALIFORNIA REGIONAL WATER QUALITY
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1102A LAUREL LANE
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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 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 WEEKLY COMP JA/AP/JUL/OCT |
|--|--|--|--|---|
|--|--|--|--|---|

OCTOBER

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11
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16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31

130

2 177

2 8

122

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

177
255
98

8
9
7

| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT |
|----------------|----------|----------|----------|----------|
|----------------|----------|----------|----------|----------|

MARKS: (\$) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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 (2) 8

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 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 |
|--|--|--|--|--|--|
|--|--|--|--|--|--|

OCTOBER

1
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31

| | | | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|
| MONTHLY AVG | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE |
| MONTHLY HIGH | | | | | |
| MONTHLY LOW | | | | | |

| | | | | | |
|----------------|--------------|--------------|--------------|--------------|--------------|
| TIMES EXCEEDED | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 |
| TIMES EXCEEDED | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 |
| TIMES EXCEEDED | | | | | |

REMARKS: (\$) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Kneary

1/5/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
100 LAUREL LANE
SAN 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 (8) 9

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 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 |
|--|--|--|--|--|--|
|--|--|--|--|--|--|

| 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 | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE |
| MONTHLY HIGH | | | | | |
| MONTHLY LOW | | | | | |

| | | | | | |
|----------------|--------------|--------------|--------------|--------------|--------------|
| TIMES EXCEEDED | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 |
| TIMES EXCEEDED | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 |
| TIMES EXCEEDED | | | | | |

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

Jack Kneen

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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 (A) 2

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 10 / 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 |
|--|------------------------------------|--|-----------------------------------|---------------------------------------|------------------------------------|--|---|---|
| OCTOBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | | | | | | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| 5 | | | | | | | | |
| 6 | | | | | | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| 9 | | | | | | | | |
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| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | | | | |
| 22 | | | | | | | | |
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| 24 | | | | | | | | |
| 25 | | | | | | | | |
| 26 | | | | | | | | |
| 27 | | | | | | | | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| MONTHLY AVG | | | | | | | | |
| MONTHLY HIGH | | | | | | | | |
| MONTHLY LOW | | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | 6M-MEAN 0.2 =0 | NO LIMIT | 6M-MEAN 2.9 =0 | NO LIMIT | 6M-MEAN 30 =0 | NO LIMIT | 6M-MEAN 150 =0 |
| TIMES EXCEEDED | | D MAX 0.8 =0 | | D MAX 13.6 =0 | | D MAX 100 =0 | | D MAX 610 =0 |
| TIMES EXCEEDED | | I MAX 2 =0 | | I MAX 35 =0 | | I MAX 260 =0 | | I MAX 1530 =0 |

MARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John K. Knepper

1/5/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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 (A) 3

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 10 / 31

STATE CODE
06

NPDES PERMIT #
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 |
|--|---|---|---|---------------------------------------|---|---|---|
| OCTOBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | | | .356 | 919 | .130 | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | |
| 17 | <5 | <5 | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| MONTHLY AVG | | | | | | | |
| MONTHLY HIGH | | | | | | | |
| MONTHLY LOW | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | 6N-MEAN 10 =0 | NO LIMIT | NO LIMIT | NO LIMIT | NO AVG 15 =0 | NO AVG 15 =0 |
| TIMES EXCEEDED | | D MAX 20 =0 | | | | D MAX 20 =0 | D MAX 20 =0 |
| TIMES EXCEEDED | | I MAX 50 =0 | | | | | |

REMARKS: (*) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

James D. Shiffer

1/5/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
OAKLAND, CA 94612

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (A) 4

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 10 / 31

STATE CODE
06

NPDES PERMIT #
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 |
|--|---|---|---|---|---|--|--|
|--|---|---|---|---|---|--|--|

| 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 AVG 15 =0 NO AVG 15 =0 NO AVG 15 =0 NO AVG 15 =0 NO AVG 15 =0 NO LIMIT NO LIMIT
TIMES EXCEEDED D MAX 20 =0 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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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 (A) 5

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 10 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | LTFLUENT 001N SLUDGE | | | | | | | | | |
|--|----------------------|-------------|-------------|-------------|-------------|----------|--------------|----------|--|--|
| | MOISTURE | TOT KJLDL N | AMMONIA (N) | NITRATE (N) | TOT PHOSPHS | pH | OIL & GREASE | BORON | | |
| | % | mg/kg | mg/kg | mg/kg | mg/kg | pH UNITS | mg/kg | mg/kg | | |
| GRAB
OCTOBER | | | | | | | | | | |
| OCTOBER | % | mg/kg | mg/kg | mg/kg | mg/kg | pH UNITS | mg/kg | mg/kg | | |
| 1 | | | | | | | | | | |
| 2 | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| 5 | | | | | | | | | | |
| 6 | | | | | | | | | | |
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| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 31 | 99.5 | 320 | 59 | <0.1 | 100.0 | 6.5 | 80.0 | 1.7 | | |
| MONTHLY AVG | | | | | | | | | | |
| MONTHLY HIGH | | | | | | | | | | |
| MONTHLY LOW | | | | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | | |
| TIMES EXCEEDED | | | | | | | | | | |
| TIMES EXCEEDED | | | | | | | | | | |

MARKS: (1) Number of Samples taken during the day. (2) Results in mg/l rather than mg/kg. Sample of sludge is a slurry rather than dried (pages A-5 & A-6).

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Kneary

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
LOS 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 (A) 6

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 10 / 01

YEAR/ MO / DAY
ENDING 90 / 10 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNIT (##)
SMPL TYPE
FREQ. | EFFLUENT 001W SLUDGE | | | | | | | | | | | | | | | |
|--|----------------------|------|--------|------|----------|------|-------|------|--------|-------|---------|---------|-------|------|--------|--|
| | CADMIUM | | COPPER | | CHROMIUM | | LEAD | | NICKEL | | MERCURY | | ZINC | | VOLUME | |
| | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | TONS | |
| | GRAB
OCTOBER | | | | | | | | | | | | | | | |
| OCTOBER | # | | # | | # | | # | | # | | # | | # | | # | |
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
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| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |
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| 18 | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | |
| 31 | # | .004 | # | .017 | # | .016 | # | .032 | # | <0.05 | # | <0.0002 | # | 12.0 | | |

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED 10XSTLC 10=0 10XSTLC 250 =0 10XSTLC 50 =0 10XSTLC 50 =0 10XSTLC 200 =0 10XSTLC 2 =0 10XSTLC 2500 =0 NO LIMIT
TIMES EXCEEDED TTLC 100 =0 TTLC 2500 =0 TTLC 500 =0 TTLC 1000 =0 TTLC 2000 =0 TTLC 20 =0 TTLC 5000 =0
TIMES EXCEEDED

REMARKS: (1) Number of Samples taken during the day. (2) See notes from previous page.
(##) STLC units are in mg/l. TTLC units are in mg/kg.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/91



11
12



APPENDIX 2

Influent and Effluent Monitoring
Data for November 1990

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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 (N) 1

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 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 |
|--|---|---|---|--------------------------------------|-----------------------------------|---|--|---------------------------------------|
| NOVEMBER | | | | | | | | |
| 1 | 58.5 | 76.2 | 17.7 | 2112 | | | | |
| 2 | 57.1 | 72.0 | 14.9 | 2497 | | | | |
| 3 | 57.4 | 72.1 | 14.7 | 2486 | | | | |
| 4 | 57.7 | 73.2 | 15.5 | 2316 | | | | |
| 5 | 56.6 | 74.7 | 18.1 | 2492 | | | | |
| 6 | 55.5 | 73.8 | 18.3 | 2492 | 7.9 | 8.0 | | |
| 7 | 55.9 | 74.3 | 18.4 | 2493 | | | | |
| 8 | 56.1 | 74.6 | 18.5 | 2492 | | | | |
| 9 | 56.0 | 74.7 | 18.7 | 2492 | | | | |
| 10 | 56.5 | 74.9 | 18.4 | 2494 | | | | 2 8.0 |
| 11 | 56.7 | 74.6 | 17.9 | 2351 | | | | |
| 12 | 56.8 | 75.0 | 18.2 | 2492 | | | | |
| 13 | 57.0 | 75.3 | 18.3 | 2492 | | | | |
| | 57.0 | 75.6 | 18.6 | 2492 | | | | |
| | 58.0 | 76.5 | 18.5 | 2492 | | | | |
| 16 | 58.2 | 76.6 | 18.4 | 2492 | | | | |
| 17 | 58.6 | 77.7 | 19.1 | 1871 | | | | |
| 18 | 58.8 | 77.4 | 18.6 | 2018 | | | | |
| 19 | 59.0 | 77.1 | 18.1 | 2464 | | | | |
| 20 | 57.6 | 76.2 | 18.6 | 2508 | | | | |
| 21 | 57.0 | 75.7 | 18.7 | 2494 | | | | |
| 22 | 57.0 | 76.3 | 19.3 | 2492 | | | | |
| 23 | 58.0 | 76.8 | 18.8 | 2492 | | | | |
| 24 | 58.0 | 76.7 | 18.7 | 2492 | | | | |
| 25 | 57.9 | 75.6 | 17.7 | 2390 | | | | |
| 26 | 54.7 | 73.3 | 18.6 | 2492 | | | 8.0 | |
| 27 | 54.1 | 72.6 | 18.5 | 2492 | | | | |
| 28 | 55.2 | 74.0 | 18.8 | 2492 | | | | |
| 29 | 55.1 | 73.9 | 18.8 | 2493 | | | | |
| 30 | 55.1 | 74.0 | 18.9 | 2492 | | | | |
| 31 | | | | | | | | |
| MONTHLY AVG | 56.9 | 75.0 | 18.1 | 2429 | | | | 8.0 |
| MONTHLY HIGH | 59.0 | 77.7 | 19.3 | 2508 | | | | 8.0 |
| MONTHLY LOW | 54.1 | 72.0 | 14.7 | 1871 | | | | 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 from discharges_001D, F, I, L and/or M.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

James D. Shiffer

11/5/90

1

2

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FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO /DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | EFFLUENT 003 | EFFLUENT 004 | EFFLUENT 001N | EFFLUENT 001P | EFFLUENT 003 | EFFLUENT 001F | EFFLUENT 001 | EFFLUENT 001 |
|-----------|--------------|--------------|---------------|---------------|--------------|---------------|--------------|---------------|
| ANALYSIS | pH | pH | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | T CHLOR RES | CHLORINE USED |
| UNITS | pH UNITS | pH UNITS | mg/l | mg/l | mg/l | mg/l | ug/l | lbs/day |
| SMPL TYPE | GRAB | GRAB | COMPOSITE | GRAB | GRAB | GRAB | GRAB | RECORDED |
| FREQ. | MONTHLY | MONTHLY | WEEKLY | WEEKLY (##) | WEEKLY (###) | MONTHLY | 2 per CYCLE | MONTHLY |

[illegible]

REMARKS: (1) Number of Samples taken during the day.

(##) When 001N is discharging to 001P. (##) When 001P is discharging to 003.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE _____

John R. Kennedy

 $\frac{1}{15} \text{ g}$



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100



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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) 4

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ.

-----EFFLUENT 001G-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

-----EFFLUENT 001H-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

| NOVEMBER | | | | | | | | | | | | | |
|----------------|----------|----------|--------------|----------|----------|--------------|--|---|--|---|--|--|--|
| 1 | | | | | | | | | | | | | |
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| 3 | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | |
| 6 | 1 | <1 | 1 | | | | | | | | | | |
| 7 | | | | | | 14 | | 9 | | 5 | | | |
| 8 | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | |
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| 31 | | | | | | | | | | | | | |
| MONTHLY AVG | | | | | | | | | | | | | |
| MONTHLY HIGH | | | | | | | | | | | | | |
| MONTHLY LOW | | | | | | | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO AVG 30 =0 | NO LIMIT | NO LIMIT | NO AVG 30 =0 | | | | | | | |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | D MAX 100 =0 | | | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | |

REMARKS: (*) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

Joel R. Krenn

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
LOS ANGELES, CA 90045

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (M) 5

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ.

-----EFFLUENT 0011-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

-----EFFLUENT 0013-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

NOVEMBER

1
2
3
4
5
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8
9
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11
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31

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

NO DISCHARGE

NO DISCHARGE

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

REMARKS: (*) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

Joel Krenn

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1422A LAUREL LANE
LOS ANGELES, CA 90041

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (N) 6

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | -----EFFLUENT 001K----- | | | -----EFFLUENT 001L----- | | |
|--|-------------------------|---------------|--------------|-------------------------|---------------|--------------|
| | SUSPENDED SOLIDS | | | SUSPENDED SOLIDS | | |
| | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET |
| | GRAB
MONTHLY | | | GRAB
MONTHLY | | |
| NOVEMBER | 1 | 2 | 3 | 4 | 5 | 6 |
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | 2 <1 | 2 <1 | 2 <1 |
| 10 | | | | | | |
| 11 | | | | | | |
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| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| MONTHLY AVG | NO DISCHARGE | | | | | <1 |
| MONTHLY HIGH | | | | | | <1 |
| MONTHLY LOW | | | | | | <1 |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO AVG 30 =0 | NO LIMIT | NO LIMIT | NO AVG 30 =0 |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | D MAX 100 =0 |
| TIMES EXCEEDED | | | | | | |

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Knepper

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SUNNYVALE, CA 94086

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (M) 7

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | -----EFFLUENT 001M----- | | | EFFLUENT 001N | | -----EFFLUENT 001P----- | | |
|--|-------------------------|---------------|--------------|---------------------|-----------------|-------------------------|--------------|---|
| | SUSPENDED SOLIDS | | | SUSPENDED SLDS | | SUSPENDED SOLIDS | | |
| | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | mg/l | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | |
| | GRAB
MONTHLY | | | COMPOSITE
WEEKLY | GRAB
MONTHLY | | | |
| NOVEMBER | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | | | | | 53 | | | |
| 2 | | | | | | | | |
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| 12 | | | | | | | | |
| 13 | 13 | 2 | 11 | | | | | |
| 14 | | | | | | | | |
| 15 | | | | | 123 | 15 | 108 | |
| 16 | | | | | 61 | 13 | 48 | |
| 17 | | | | | | | | |
| 18 | | | | | | | | |
| 19 | | | | | | | | |
| 20 | | | | | | | | |
| 21 | | | | | 12 | | | |
| 22 | 18 | 2 | 16 | | | | | |
| 23 | | | | | | | | |
| 24 | | | | | 29 | 17 | 12 | |
| 25 | | | | | 27 | 20 | 7 | |
| 26 | | | | | 23 | 18 | 5 | |
| 27 | 10 | 3 | 7 | | 95 | 24 | 71 | |
| 28 | | | | | | | | |
| 29 | | | | | | | | |
| 30 | | | | | | | | |
| 31 | | | | | | | | |
| MONTHLY AVG | 11 | | | 24 | 8 | | | |
| MONTHLY HIGH | 16 | | | 53 | 12 | | | |
| MONTHLY LOW | 7 | | | 12 | 5 | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO AVG 30 =0 | NO AVG 60 =0 | NO LIMIT | NO LIMIT | NO AVG 30 =0 | |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | | D MAX 100 =0 | |
| TIMES EXCEEDED | | | | | | | | |

REMARKS: (1) Number of Samples taken during the day. (11) Elbow sample point.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

J.R. Krenn

1/17/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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) 8

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ.

-----EFFLUENT 002-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

-----EFFLUENT 003-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

NOVEMBER

| | | | | | | | | | | | | | |
|----|---|---|---|---|---|---|---|---|---|--|--|--|--|
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| 9 | | | | | | | | | | | | | |
| 10 | 2 | 8 | 2 | 6 | 2 | 2 | 7 | 6 | 1 | | | | |
| 11 | | | | | | | | | | | | | |
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| 30 | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | |

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

2
2
1

TIMES EXCEEDED
TIMES EXCEEDED
TIMES EXCEEDED

NO LIMIT NO LIMIT NO AVG 30 =0 NO LIMIT NO LIMIT NO AVG 30 =0
I MAX 100 =0 I MAX 100 =0

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

J. R. Krenig

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
2A LAUREL LANE
LOUIS 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) 9

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION ANALYSIS UNITS SMPL TYPE FREQ. | -----EFFLUENT 003-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
WEEKLY WHEN 001H & 001P => 003 | EFFLUENT 001H
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 |
|--|--|---|---|---|---|---|
|--|--|---|---|---|---|---|

| NOVEMBER | 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 | | | | | | | | | | | |
|----------------|--------------|----------|--------------|---------------|---------------|---------------|---------------|---------------|---|--|--|--|--|--|--|--|--|--|--|--|
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| 30 | | | | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | |
| MONTHLY AVG | NO DISCHARGE | | | | | .2 | | | | | | | | | | | | | | |
| MONTHLY HIGH | | | | | | .5 | | | | | | | | | | | | | | |
| MONTHLY LOW | | | | | | .1 | | | | | | | | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | MD AVG 30 =0 | MD 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 50 =0 | D MAX 380 =0 | | | | | | | | | | | | |
| TIMES EXCEEDED | | | | | I MAX 100 =0 | I MAX 140 =0 | I MAX 260 =0 | I MAX 990 =0 | | | | | | | | | | | | |

REMARKS: (1) Number of Samples taken during the day. _____

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

11/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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) 1

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION ANALYSIS UNITS SNPL 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 |
|--|---|---|---|--|--|--|--|--|
|--|---|---|---|--|--|--|--|--|

| NOVEMBER | 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 | NO LIMIT | NO LIMIT | 6M-MEAN 3060 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD 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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
22A LAUREL LANE
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) 2

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

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 |
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| NOVEMBER | 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 |
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|----------------|---------------|---------------|---------------|
| MONTHLY AVG | NO DISCHARGE | NO DISCHARGE | 7 |
| MONTHLY HIGH | | | 14 |
| MONTHLY LOW | | | 3 |
| TIMES EXCEEDED | NO AVG 15 = 0 | NO AVG 15 = 0 | NO AVG 15 = 0 |
| TIMES EXCEEDED | D MAX 20 = 0 | D MAX 20 = 0 | D MAX 20 = 0 |
| TIMES EXCEEDED | | | |

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/91

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CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
LA JOLLA, CA 92037

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (R) 3

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

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 WEEKLY COMP JA/AP/JUL/OCT | EFFLUENT 001L CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT | EFFLUENT 001F CADMIUM ug/l QTRLY COMP JA/AP/JUL/OCT |
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NOVEMBER

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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

| TIMES EXCEEDED | NO AVG 15 =0 | 6M-MEAN 0.26 | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT |
|----------------|--------------|--------------|----------|----------|----------|----------|
| TIMES EXCEEDED | D MAX 20 =0 | =0 | | | | |
| TIMES EXCEEDED | | | | | | |

KS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
202A LAUREL LANE
SAN 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) 4

FACILITY I.D.
3,402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F |
|-----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| ANALYSIS | CHROMIUM | T CHROMIUM | T CHROMIUM | T CHROMIUM | COPPER | COPPER | COPPER | COPPER |
| UNITS | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l |
| SMPL TYPE | QTRLY COMP | QTRLY COMP | QTRLY COMP | WEEKLY COMP | QTRLY COMP | QTRLY COMP | QTRLY COMP | WEEKLY COMP |
| FREQ. | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT |

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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

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

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

James D. Shiffer

1/5/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
LOUIS 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 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

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 WEEKLY 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 WEEKLY COMP JA/AP/JUL/OCT |
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| NOVEMBER | | | | | | | | | | | | | |
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

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|----------------|----------|----------|----------|----------|----------|----------|----------|----------|
| 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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

John R. Krenn

11/15/90



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
100 LAUREL LANE
SAN 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 (2) 6

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
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 WEEKLY 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 WEEKLY COMP JA/AP/JUL/OCT |
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NOVEMBER

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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|
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REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
100 LAUREL LANE
SAN 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 (R) 7

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F |
|-----------|---------------|---------------|---------------|---------------|
| ANALYSIS | ZINC | ZINC | ZINC | ZINC |
| UNITS | ug/l | ug/l | ug/l | ug/l |
| SMPL TYPE | QTRLY COMP | QTRLY COMP | QTRLY COMP | WEEKLY COMP |
| FREQ. | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT |

| NOVEMBER | 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 |
|----------|---|---|---|---|---|---|---|---|---|----|
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

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

REMARKS: (1) Number of Samples taken during the day. _____

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Knepper

1/5/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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) 8

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

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 |
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| NOVEMBER | | | | | | | | | | | | | |
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|----------------|--------------|--------------|--------------|--------------|--------------|
| MONTHLY AVG | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE |
| MONTHLY HIGH | | | | | |
| MONTHLY LOW | | | | | |
| TIMES EXCEEDED | MD AVG 1 = 0 | MD AVG 1 = 0 | MD AVG 1 = 0 | MD AVG 1 = 0 | MD AVG 1 = 0 |
| TIMES EXCEEDED | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 |
| TIMES EXCEEDED | | | | | |

REMARKS: (#) Number of Samples taken during the day. _____

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenney

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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) 9

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

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

NOVEMBER

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| MONTHLY AVG | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE | NO DISCHARGE |
| MONTHLY HIGH | | | | | |
| MONTHLY LOW | | | | | |

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|----------------|--------------|--------------|--------------|--------------|--------------|
| TIMES EXCEEDED | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 |
| TIMES EXCEEDED | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 |
| TIMES EXCEEDED | | | | | |

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krumpholtz

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1402A LAUREL LANE
LOUIS 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 (A) 1

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| 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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NOVEMBER

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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

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|----------------|----------|----------|---------------|----------|---------------|----------|---------------|----------|
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | 6M-MEAN 30 =0 | NO LIMIT | 6M-MEAN 10 =0 | NO LIMIT | 6M-MEAN 10 =0 | NO LIMIT |
| 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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

11/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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 (A) 2

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

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 |
|--|------------------------------------|--|-----------------------------------|---------------------------------------|------------------------------------|--|---|---|
|--|------------------------------------|--|-----------------------------------|---------------------------------------|------------------------------------|--|---|---|

| NOVEMBER | 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 | 6M-MEAN 0.2 =0 | NO LIMIT | 6M-MEAN 2.9 =0 | NO LIMIT | 6M-MEAN 30 =0 | NO LIMIT | 6M-MEAN 150 =0 |
| TIMES EXCEEDED | | D MAX 0.8 =0 | | D MAX 13.6 =0 | | D MAX 100 =0 | | D MAX 610 =0 |
| TIMES EXCEEDED | | I MAX 2 =0 | | I MAX 35 =0 | | I MAX 260 =0 | | I MAX 1530 =0 |

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/90

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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 (A) 3

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
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 |
|--|---|---|---|---------------------------------------|---|---|---|
|--|---|---|---|---------------------------------------|---|---|---|

| NOVEMBER | | | | | | | | | | | | | |
|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

| | | | | | | | |
|----------------|----------|---------------|----------|----------|----------|--------------|--------------|
| TIMES EXCEEDED | NO LIMIT | 6M-MEAN 10 =0 | NO LIMIT | NO LIMIT | NO LIMIT | NO AVG 15 =0 | NO AVG 15 =0 |
| TIMES EXCEEDED | | D MAX 20 =0 | | | | D MAX 20 =0 | D MAX 20 =0 |
| TIMES EXCEEDED | | I MAX 50 =0 | | | | | |

REMARKS: (*) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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 (A) 4

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
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 |
|--|---|---|---|---|---|--|--|
|--|---|---|---|---|---|--|--|

| NOVEMBER | 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 DISCHARGE | | | | | | | | | | NO DISCHARGE | | | | | | | | | |
| MONTHLY HIGH | | | | | | | | | | | | | | | | | | | | |
| MONTHLY LOW | | | | | | | | | | | | | | | | | | | | |
| TIMES EXCEEDED | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 | |
| TIMES EXCEEDED | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 | |
| TIMES EXCEEDED | | | | | | | | | | | | | | | | | | | | |

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT
Joak Krenn
DATE
1/5/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
102A LAUREL LANE
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 (A) 5

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | EFFLUENT 001N SLUDGE | | | | | | | |
|--|----------------------|---------------------|----------------------|----------------------|--|----------------|-----------------------|----------------|
| | MOISTURE
% | TOT KJLD N
mg/kg | AMMONIA (N)
mg/kg | NITRATE (N)
mg/kg | TOT PHOSPHS.
mg/kg
GRAB
OCTOBER | pH
PH UNITS | OIL & GREASE
mg/kg | BORON
mg/kg |
| NOVEMBER | | | | | | | | |
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| MONTHLY AVG | | | | | | | | |
| MONTHLY HIGH | | | | | | | | |
| MONTHLY LOW | | | | | | | | |
| 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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

Joel Knepper

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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 (A) 6

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 11 / 01

YEAR/ MO / DAY
ENDING 90 / 11 / 30

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNIT (##)
SMPL TYPE
FREQ. | EFFLUENT 001N SLUDGE | | | | | | | |
|--|----------------------|----------------|---------------|---------------|-----------------|--------------|-----------------|----------|
| | CADMIUM | COPPER | CHROMIUM | LEAD | NICKEL | MERCURY | ZINC | VOLUME |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | TONS |
| | | | | | GRAB
OCTOBER | | | |
| NOVEMBER | * | * | * | * | * | * | * | * |
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| MONTHLY AVG | | | | | | | | |
| MONTHLY HIGH | | | | | | | | |
| MONTHLY LOW | | | | | | | | |
| TIMES EXCEEDED | 10XSTLC 10=0 | 10XSTLC 250 =0 | 10XSTLC 50 =0 | 10XSTLC 50 =0 | 10XSTLC 200 =0 | 10XSTLC 2 =0 | 10XSTLC 2500 =0 | NO LIMIT |
| TIMES EXCEEDED | TTLC 100 =0 | TTLC 2500 =0 | TTLC 500 =0 | TTLC 1000 =0 | TTLC 2000 =0 | TTLC 20 =0 | TTLC 5000 =0 | |
| TIMES EXCEEDED | | | | | | | | |

WORKS: (1) Number of Samples taken during the day.
(##) STLC units are in mg/l. TTLC units are in mg/kg.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Knepper

1/5/91



APPENDIX 3

**Influent and Effluent Monitoring
Data for December 1990**



FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO /DAY
ENDING 90 / 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 |
|--|---|---|---|--------------------------------------|-----------------------------------|---|--|---------------------------------------|
| DECEMBER | | | | | | | | |
| 1 | 55.2 | 74.2 | 19.0 | 2492 | | | | |
| 2 | 55.1 | 74.1 | 19.0 | 2492 | | | | |
| 3 | 55.2 | 74.4 | 19.2 | 2493 | | | | |
| 4 | 55.0 | 74.2 | 19.2 | 2492 | | | | |
| 5 | 55.1 | 73.9 | 18.8 | 2462 | | | | |
| 6 | 55.1 | 67.5 | 12.4 | 1903 | | | | |
| 7 | 55.2 | 67.3 | 12.1 | 1913 | | | | |
| 8 | 56.4 | 70.6 | 14.2 | 2390 | | | | |
| 9 | 57.0 | 74.7 | 17.7 | 2496 | | | | |
| 10 | 57.3 | 75.7 | 18.4 | 2498 | | | | |
| 11 | 57.1 | 76.2 | 19.1 | 2502 | | | | |
| 12 | 57.5 | 76.6 | 19.1 | 2497 | | | | |
| 13 | 58.2 | 77.5 | 19.3 | 2500 | | | | 2 8.1 |
| 14 | 58.3 | 77.6 | 19.3 | 2506 | | | | |
| 15 | 58.7 | 77.8 | 19.1 | 2507 | | | | |
| 16 | 58.9 | 78.3 | 19.4 | 2507 | | | | |
| 17 | 58.0 | 77.7 | 19.7 | 2500 | | | 7.9 | |
| 18 | 57.3 | 77.0 | 19.7 | 2492 | | | 7.9 | |
| 19 | 55.7 | 75.6 | 19.9 | 2492 | | | | |
| 20 | 53.7 | 73.8 | 20.1 | 2492 | 7.8 | 7.6 | | |
| 21 | 53.1 | 73.0 | 19.9 | 2492 | | | | |
| 22 | 52.8 | 72.6 | 19.8 | 1897 | | | | |
| 23 | 53.5 | 72.8 | 19.3 | 1917 | | | | |
| 24 | 54.1 | 67.3 | 13.2 | 1935 | | | | |
| 25 | 54.8 | 66.9 | 12.1 | 1876 | | | | |
| 26 | 55.4 | 64.8 | 9.4 | 2454 | | | | |
| 27 | 55.3 | 64.6 | 9.3 | 2492 | | | | |
| 28 | 55.0 | 67.0 | 12.0 | 2492 | | | | |
| 29 | 54.3 | 73.2 | 18.9 | 2492 | | | | |
| 30 | 54.8 | 74.0 | 19.2 | 2492 | | | | |
| 31 | 55.3 | 74.6 | 19.3 | 2492 | | | | |
| MONTHLY AVG | 55.8 | 73.1 | 17.3 | 2376 | | | 7.9 | 8.1 |
| MONTHLY HIGH | 58.9 | 78.3 | 20.1 | 2507 | | | 7.9 | 8.1 |
| MONTHLY LOW | 52.8 | 64.6 | 9.3 | 1897 | | | 7.9 | 8.1 |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | MAX 22 | =0 | MAX 2760 | = 0 | NO LIMIT | NO LIMIT |
| TIMES EXCEEDED | | | (**) | | | | | |
| TIMES EXCEEDED | | | | | | | | |

REMARKS: (†) Number of Samples taken during the day. (††) Except During Deausseling.

(111) Daily when discharging chemical cleaning wastes from discharges 001D, F, I, L and/or M.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R Krenas

 $\frac{1}{15/91}$

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (M) 2

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO /DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | EFFLUENT 003 | EFFLUENT 004 | EFFLUENT 001N | EFFLUENT 001P | EFFLUENT 003 | EFFLUENT 001F | EFFLUENT 001 | EFFLUENT 001 |
|------------|--------------|--------------|---------------|---------------|--------------|---------------|--------------|---------------|
| ANALYSIS | pH | pH | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | T CHLOR RES | CHLORINE USED |
| UNITS | pH UNITS | pH UNITS | mg/l | mg/l | mg/l | mg/l | ug/l | lbs/day |
| SAMPL TYPE | GRAB | GRAB | COMPOSITE | GRAB | GRAB | GRAB | GRAB | RECORDED |
| FREQ. | MONTHLY | MONTHLY | WEEKLY | WEEKLY (11) | WEEKLY (111) | MONTHLY | 2 per CYCLE. | MONTHLY |

[illegible]

REMARKS: (1) Number of Samples taken during the day.

(##) When 001N is discharging to 001P. (###) When 001P is discharging to 003.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE _____

John R. Krenn

 $\frac{1}{15}$



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | EFF 001N=>003 | EFF 001N=>003 | -----EFFLUENT 001D----- | | | -----EFFLUENT 001F----- | | |
|--|---------------|----------------|-------------------------|---------------|----------|-------------------------|---------------|----------|
| | TOTL COLIFORM | FECAL COLIFORM | SUSPENDED SOLIDS | | | SUSPENDED SOLIDS | | |
| | MPN/100ml | MPN/100ml | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET |
| | GRAB | GRAB | GRAB | | | GRAB | | |
| | 4 TIMES/WEEK | 4 TIMES/WEEK | MONTHLY | | | MONTHLY | | |

| DECEMBER | | | | | | | | | | | | | |
|----------|--|--|--|---|--|---|--|---|--|------|--|------|------|
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| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | 87 | | <1 | 87 |
| 17 | | | | | | | | | | 11 | | <1 | 11 |
| 18 | | | | | | | | | | 28 | | <1 | 28 |
| 19 | | | | | | | | | | 2 70 | | 2 <1 | 2 70 |
| 20 | | | | | | | | | | 3 | | <1 | 3 |
| 21 | | | | | | | | | | 2 8 | | 2 1 | 2 7 |
| 22 | | | | | | | | | | 11 | | <1 | 11 |
| 23 | | | | | | | | | | 9 | | <1 | 9 |
| 24 | | | | | | | | | | 13 | | <1 | 13 |
| 25 | | | | | | | | | | | | | |
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|--------------|--------------|--------------|--|--|--|--|--|--|--|--|--|--|-----|
| MONTHLY AVG | NO DISCHARGE | NO DISCHARGE | | | | | | | | | | | 29 |
| MONTHLY HIGH | | | | | | | | | | | | | 137 |
| MONTHLY LOW | | | | | | | | | | | | | 3 |

| | | | | | | | | |
|----------------|--------------|---------------|----------|----------|--------------|----------|----------|--------------|
| TIMES EXCEEDED | 80% SMPLS>1K | MEAN>200=0 | NO LIMIT | NO LIMIT | NO AVG 30= 0 | NO LIMIT | NO LIMIT | NO AVG 30 =0 |
| TIMES EXCEEDED | =0 | 90% SMPLS>400 | | | D MAX 100 =0 | | | D MAX 100 =0 |
| TIMES EXCEEDED | 1 MAX >10K=0 | =0 | | | | | | |

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER
JAMES D. SHIFFER

| | |
|-------------------------------|---------|
| SIGNATURE OF AUTHORIZED AGENT | DATE |
| <i>Joseph Kremer</i> | 1/15/91 |

2

Fig. 10

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CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
102A LAUREL LANE
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) 4

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ.

-----EFFLUENT 001G-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

-----EFFLUENT 001H-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

DECEMBER

1
2
3
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29
30
31

1

<1

1

28

10

18

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

TIMES EXCEEDED
TIMES EXCEEDED
TIMES EXCEEDED

NO LIMIT

NO LIMIT

NO AVG 30 =0
D MAX 100 =0

NO LIMIT

NO LIMIT

NO AVG 30 =0
D MAX 100 =0

REMARKS: (*)_Number_of_Samples_taken_during_the_day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

J. R. Krenney

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
LOS ANGELES, CA 90001

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (M) 5

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | -----EFFLUENT 001I-----
SUSPENDED SOLIDS | | | -----EFFLUENT 001J-----
SUSPENDED SOLIDS | | |
|--|---|---------------|--------------|---|---------------|--------------|
| | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET |
| | GRAB
MONTHLY | | | GRAB
MONTHLY | | |
| DECEMBER | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
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| 5 | | | | 5 | <1 | 5 |
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| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| MONTHLY AVG | NO DISCHARGE | | | | | |
| MONTHLY HIGH | | | | | | |
| MONTHLY LOW | | | | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO AVG 30 =0 | NO LIMIT | NO LIMIT | NO AVG 30 =0 |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | D MAX 100 =0 |
| TIMES EXCEEDED | | | | | | |

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

James D. Shiffer

1/5/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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) 6

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | -----EFFLUENT 001K----- | | | -----EFFLUENT 001L----- | | |
|--|-------------------------|---------------|--------------|-------------------------|---------------|--------------|
| | SUSPENDED SOLIDS | | | SUSPENDED SOLIDS | | |
| | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET |
| | GRAB
MONTHLY | | | GRAB
MONTHLY | | |
| DECEMBER | | | | | | |
| 1 | | | | | | |
| 2 | | | | | | |
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| 6 | | | | | | |
| 7 | | | | 2 <1 | 2 <1 | 2 <1 |
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| 31 | | | | | | |
| MONTHLY AVG | NO DISCHARGE | | | | | <1 |
| MONTHLY HIGH | | | | | | <1 |
| MONTHLY LOW | | | | | | <1 |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO AVG 30 =0 | NO LIMIT | NO LIMIT | NO AVG 30 =0 |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | D MAX 100 =0 |
| TIMES EXCEEDED | | | | | | |

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

1/15/91



PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (M) 7

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | -----EFFLUENT 001M----- | | | | EFFLUENT 001N | | -----EFFLUENT 001P----- | | | | | | | |
|--|-------------------------|---------------|--------------|--------------|---------------------|---------------|-------------------------|----------|---|----|---|----|---|--|
| | SUSPENDED SOLIDS | | | | SUSPENDED SLDS | | SUSPENDED SOLIDS | | | | | | | |
| | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | | mg/l | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | | | | | | |
| | GRAB
MONTHLY | | | | COMPOSITE
WEEKLY | | GRAB
MONTHLY | | | | | | | |
| DECEMBER | † | | † | | † | | † | | † | | † | | † | |
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| 17 | | | | | | | | | | | | | | |
| 18 | | | | | | 30 | | 76 | | 30 | | 46 | | |
| 19 | | | | | | | | 22 | | 13 | | 9 | | |
| 20 | | | | | | | | | | | | | | |
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| 30 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | |
| MONTHLY AVG | NO DISCHARGE | | | | 23 | | | | | 28 | | | | |
| MONTHLY HIGH | | | | | 30 | | | | | 46 | | | | |
| MONTHLY LOW | | | | | 12 | | | | | 9 | | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO AVG 30 =0 | NO AVG 60 =0 | NO LIMIT | NO LIMIT | NO AVG 30 =0 | | | | | | | |
| TIMES EXCEEDED | | | D MAX 100 =0 | | | | D MAX 100 =0 | | | | | | | |
| TIMES EXCEEDED | | | | | | | | | | | | | | |

REMARKS: (#) Number of Samples taken during the day.

DATE _____

John R. Krenn

1/15/9



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
102A LAUREL LANE
LOUIS 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) 8

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ.

-----EFFLUENT 002-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

-----EFFLUENT 003-----
SUSPENDED SOLIDS
mg/l 1st FLTR mg/l 2nd FLTR mg/l NET
GRAB
MONTHLY

DECEMBER

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2 7

2 6

2 2

7

6

1

MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

2
2
<1

TIMES EXCEEDED
TIMES EXCEEDED
TIMES EXCEEDED

NO LIMIT

NO LIMIT

NO AVG 30 =0
1 MAX 100 =0

NO LIMIT

NO LIMIT

NO AVG 30 =0
1 MAX 100 =0

REMARKS: (*) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Kuenen

1/15/91

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
202A LAUREL LANE
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) 9

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | -----EFFLUENT 003----- | | | EFFLUENT 001N | EFFLUENT 001 | EFFLUENT 001 | EFFLUENT 001 | EFFLUENT 001 |
|--|--------------------------------|---------------|--------------|---------------|---------------|---------------|---------------|---------------|
| | SUSPENDED SOLIDS | | | SETTL SOLIDS | T CHROMIUM | COPPER | NICKEL | ZINC |
| | mg/l 1st FLTR | mg/l 2nd FLTR | mg/l NET | ml/l | ug/l | ug/l | ug/l | ug/l |
| | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB |
| | WEEKLY WHEN 001N & 001P => 003 | | | WEEKLY | MONTHLY | MONTHLY | MONTHLY | MONTHLY |
| DECEMBER | \$ | \$ | \$ | \$ | \$ | \$ | \$ | \$ |
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| 20 | | | | | | 2 | 1 | 1 |
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| 31 | | | | | | | | |
| MONTHLY AVG | NO DISCHARGE | | | .1 | | | | |
| MONTHLY HIGH | | | | .1 | | | | |
| MONTHLY LOW | | | | .1 | | | | |
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO AVG 30 =0 | NO 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 50 =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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenay

1/5/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
200 LAUREL LANE
SAN 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 (8) 1

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | INFLUENT | INFLUENT | INFLUENT | INFLUENT | EFFLUENT 001 | EFFLUENT 001D | EFFLUENT 001B | EFFLUENT 001H |
|-----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| ANALYSIS | T CHROMIUM | COPPER | NICKEL | AMMONIA (N) | AMMONIA (N) | OIL & GREASE | OIL & GREASE | OIL & GREASE |
| UNITS | ug/l | ug/l | ug/l | ug/l | ug/l | mg/l | mg/l | mg/l |
| SMPL TYPE | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB |
| FREQ. | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT |

| DECEMBER | 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 |
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

| | | | | | | | | |
|----------------|----------|----------|----------|----------|-----------------|--------------|--------------|--------------|
| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | 6M-MEAN 3060 =0 | MD AVG 15 =0 | MD AVG 15 =0 | MD AVG 15 =0 |
| TIMES EXCEEDED | | | | | D MAX 12240 =0 | D MAX 20 =0 | D MAX 20 =0 | D MAX 20 =0 |
| EXCEEDED | | | | | I MAX 30600 =0 | | | |

REMARKS: (1) Number of Samples taken during the day. _____

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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) 2

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 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 |
|--|--|--|--|--|--|--|---|---|
|--|--|--|--|--|--|--|---|---|

| DECEMBER | 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 |
|----------|---|---|---|---|---|---|---|---|---|----|
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|----------------|
| MONTHLY AVG | NO DISCHARGE | |
| MONTHLY HIGH | NO DISCHARGE | |
| MONTHLY LOW | NO DISCHARGE | |
| TIMES EXCEEDED | NO AVG 15 =0 |
| TIMES EXCEEDED | D MAX 20 =0 |
| TIMES EXCEEDED | |

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT
DATE
1/5/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
22A LAUREL LANE
SAN 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 (0) 3

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | EFFLUENT 004 | EFFLUENT 001 | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| ANALYSIS | OIL & GREASE | TOX CONCEN | CADMIUM | CADMIUM | CADMIUM | CADMIUM |
| UNITS | mg/l | TU | ug/l | ug/l | ug/l | ug/l |
| SAMPL TYPE | GRAB | GRAB | QTRLY COMP | WEEKLY COMP | QTRLY COMP | QTRLY COMP |
| FREQ. | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT |

| DECEMBER | | | | | | | | | | | | | |
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

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|----------------|--------------|--------------|----------|----------|----------|----------|
| TIMES EXCEEDED | NO AVG 15 =0 | 6M-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.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Kneary

1/15/91

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CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1402A LAUREL LANE
LOS ANGELES, CA 90041

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (8) 4

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 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 WEEKLY 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 WEEKLY COMP JA/AP/JUL/OCT |
|--|--|--|--|---|--|--|--|---|
|--|--|--|--|---|--|--|--|---|

| DECEMBER | 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 |
|----------|---|---|---|---|---|---|---|---|---|----|
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

| TIMES EXCEEDED | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|
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REMARKS: (*) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Kneeney

1/5/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
102A LAUREL LANE
SAN 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 (B) 5

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| ANALYSIS | LEAD | LEAD | LEAD | LEAD | MERCURY | MERCURY | MERCURY | MERCURY |
| UNITS | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l |
| SAMPL TYPE | QTRLY COMP | QTRLY COMP | QTRLY COMP | WEEKLY COMP | QTRLY COMP | QTRLY COMP | QTRLY COMP | WEEKLY COMP |
| FREQ. | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT |

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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

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

REMARKS: (#) Number of Samples taken during the day. _____

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

| SIGNATURE OF AUTHORIZED AGENT | DATE |
|-------------------------------|--------|
| <i>John R. Kuenen</i> | 1/5/91 |



11-11-11

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
LAUREL LANE
LAUREL, 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) 6

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F |
|-----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| ANALYSIS | NICKEL | NICKEL | NICKEL | NICKEL | SILVER | SILVER | SILVER | SILVER |
| UNITS | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l |
| SNPL TYPE | QTRLY COMP | QTRLY COMP | QTRLY COMP | WEEKLY COMP | QTRLY COMP | QTRLY COMP | QTRLY COMP | WEEKLY COMP |
| FREQ. | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT |

| DECEMBER | | | | | | | | |
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| MONTHLY AVG | | | | | | | | |
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| MONTHLY LOW | | | | | | | | |
| 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.

PRINCIPAL EXECUTIVE OFFICER
JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT
DATE
1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
100 LAUREL LANE
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 (0) 7

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | EFFLUENT 001D | EFFLUENT 001H | EFFLUENT 001L | EFFLUENT 001F |
|-----------|---------------|---------------|---------------|---------------|
| ANALYSIS | ZINC | ZINC | ZINC | ZINC |
| UNITS | ug/l | ug/l | ug/l | ug/l |
| SMPL TYPE | QTRLY COMP | QTRLY COMP | QTRLY COMP | WEEKLY COMP |
| FREQ. | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT | JA/AP/JUL/OCT |

| DECEMBER | 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 |
|----------|---|---|---|---|---|---|---|---|---|----|
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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

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Krenn

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
LUIS DBISPO.CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (0) 8

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 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 |
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DECEMBER

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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

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

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John Kremay

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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 (R) 9

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 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
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METAL CLNG |
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DECEMBER

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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

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|----------------|--------------|--------------|--------------|--------------|--------------|
| TIMES EXCEEDED | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 | NO AVG 1 = 0 |
| TIMES EXCEEDED | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 | D MAX 1 = 0 |
| TIMES EXCEEDED | | | | | |

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
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 (A) 1

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| 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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| DECEMBER | | | | | | | | | | | | |
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MONTHLY AVG
MONTHLY HIGH
MONTHLY LOW

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| TIMES EXCEEDED | NO LIMIT | NO LIMIT | 6M-MEAN 30 =0 | 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 |

WORKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
LAUREL LANE
LOUIS 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 (A) 2

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | INFLUENT | EFFLUENT 001 | INFLUENT | EFFLUENT 001 | INFLUENT | EFFLUENT 001 | INFLUENT | EFFLUENT 001 |
|-----------|----------|--------------|----------|--------------|----------|--------------|--------------|--------------|
| ANALYSIS | MERCURY | MERCURY | SILVER | SILVER | CYANIDE | CYANIDE | PHENOLIC CMP | PHENOLIC CMP |
| UNITS | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l | ug/l (NONCL) | ug/l (NONCL) |
| SMPL TYPE | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB |
| FREQ. | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER |

| DECEMBER | 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 |
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| MONTHLY AVG | | | | | | | | |
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| TIMES EXCEEDED | NO LIMIT | 6M-MEAN 0.2 =0 | NO LIMIT | 6M-MEAN 2.9 =0 | NO LIMIT | 6M-MEAN 30 =0 | NO LIMIT | 6M-MEAN 150 =0 |
| TIMES EXCEEDED | | D MAX 0.8 =0 | | D MAX 13.6 =0 | | D MAX 100 =0 | | D MAX 610 =0 |
| TIMES EXCEEDED | | I MAX 2 =0 | | I MAX 35 =0 | | I MAX 260 =0 | | I MAX 1530 =0 |

REMARKS: (1) Number of Samples taken during the day. _____

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Krenn

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
102A LAUREL LANE
LOUIS DBISPO, CA 93401

DISCHARGE SELF MONITORING REPORT

PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH, CALIF 93424
PAGE (A) 3

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
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 |
|--|---|---|---|---------------------------------------|---|---|---|
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| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | | | | | | | |
| 31 | | | | | | | |
| MONTHLY AVG | | | | | | | |
| MONTHLY HIGH | | | | | | | |
| MONTHLY LOW | | | | | | | |
| TIMES EXCEEDED | NO LIMIT | 6M-MEAN 10 =0 | NO LIMIT | NO LIMIT | NO LIMIT | MO AVG 15 =0 | MO AVG 15 =0 |
| TIMES EXCEEDED | | D MAX 20 =0 | | | | D MAX 20 =0 | D MAX 20 =0 |
| TIMES EXCEEDED | | I MAX 50 =0 | | | | | D MAX 20 =0 |

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT DATE

John Kremers

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
200 LAUREL LANE
SAN 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 (A) 4

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION | EFFLUENT 009 | EFFLUENT 013 | EFFLUENT 015 | EFFLUENT 016 | EFFLUENT 017 | INFLUENT | EFFLUENT 001 |
|-----------|--------------|--------------|--------------|--------------|--------------|----------|--------------|
| ANALYSIS | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | OIL & GREASE | PCB'S | PCB'S |
| UNITS | mg/l | mg/l | mg/l | mg/l | mg/l | ug/l | ug/l |
| SMPL TYPE | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB | GRAB |
| FREQ. | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER | OCTOBER |

| DECEMBER | 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 AVG 15 =0 NO AVG 15 =0 NO AVG 15 =0 NO AVG 15 =0 NO AVG 15 =0 NO LIMIT NO LIMIT
TIMES EXCEEDED D MAX 20 =0 D MAX 20 =0 D MAX 20 =0 D MAX 20 =0 D MAX 20 =0
TIMES EXCEEDED

REMARKS: (1) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Kwanag

1/15/91



CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN 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 (A) 5

FACILITY I.D.
3 402003001

YEAR/ MO / DAY
BEGINNING 90 / 12 / 01

YEAR/ MO / DAY
ENDING 90 / 12 / 31

STATE CODE
06

NPDES PERMIT #
CA0003751

| STATION
ANALYSIS
UNITS
SMPL TYPE
FREQ. | EFFLUENT 001N SLUDGE | | | | | | | |
|--|----------------------|----------------------|----------------------|----------------------|---|----------------|-----------------------|----------------|
| | MOISTURE
% | TOT KjLDL N
mg/kg | AMMONIA (N)
mg/kg | NITRATE (N)
mg/kg | TOT PHOSPHS
mg/kg
GRAB
OCTOBER | pH
pH UNITS | OIL & GREASE
mg/kg | BORON
mg/kg |
| DECEMBER | | | | | | | | |
| 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 | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT | NO LIMIT |
| TIMES EXCEEDED | | | | | | | | |
| TIMES EXCEEDED | | | | | | | | |

REMARKS: (#) Number of Samples taken during the day.

PRINCIPAL EXECUTIVE OFFICER

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT

DATE

John R. Kneeman

1/15/91



PACIFIC GAS AND ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT
PO BOX 56
AVILA BEACH,CALIF 93424
PAGE (A) 6 -

NPDES PERMIT #
CA0003751

| MONTHLY AVG | | | | | | | | | | |
|----------------|--------------|----------------|---------------|---------------|----------------|--------------|-----------------|----------|--|--|
| MONTHLY HIGH | | | | | | | | | | |
| MONTHLY LOW | | | | | | | | | | |
| TIMES EXCEEDED | 10XSTLC 10=0 | 10XSTLC 250 =0 | 10XSTLC 50 =0 | 10XSTLC 50 =0 | 10XSTLC 200 =0 | 10XSTLC 2 =0 | 10XSTLC 2500 =0 | NO LIMIT | | |
| TIMES EXCEEDED | TTLC 100 =0 | TTLC 2500 =0 | TTLC 500 =0 | TTLC 1000 =0 | TTLC 2000 =0 | TTLC 20 =0 | TTLC 5000 =0 | | | |
| TIMES EXCEEDED | | | | | | | | | | |

REMARKS: (1) Number of Samples taken during the day. (2) STLC units are in mg/l. TTLC units are in mg/kg
(3) Calculated from suspended solids analysis of system influent. Represents total for 1990.

JAMES D. SHIFFER

SIGNATURE OF AUTHORIZED AGENT | DATE

for Krenn

 $\frac{1}{15}h$



APPENDIX 4

**Diablo Canyon Bioassay Report
Data for October 1990**

20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995

PACIFIC GAS & ELECTRIC COMPANY

DIABLO CANYON BIOLOGICAL LABORATORY
STATIC BIOASSAY REPORT SHEETASSAY NO. DCPP-162-N

TEST ORGANISM DATA

TEST SPECIES Red AbaloneSOURCE Abalone FarmAVERAGE LENGTH 22mm RANGE 16-30 mmACCLIMATION TIME 8mths TEMPERATURE AmbientWATER SOURCE Bio Lab Seawater PumpDATE STARTED 1 Oct 90VOLUME/DEPTH OF TEST SOLUTION 19 l / 20 cmTYPE OF AERATION Ring Compressor

TEST SOLUTION DATA

SOURCE OF TEST SOLUTION Diablo CanyonDischarger

DATE/TIME SAMPLED

1 Oct 90 / 0806TIME STARTED 1400 HRS.RENEWAL OF TEST SOLUTION AT — HR. INTERVALSNUMBER OF ORGANISMS PER CONCENTRATION 30DILUTION WATER SOURCE Bio Lab Seawater Pump

TEST CONCENTRATIONS

| <u>0 HOURS</u> | <u>100%</u> | <u>CONTROL</u> | <u>INITIALS</u> |
|---------------------|-------------|----------------|-----------------|
| TEMP. | <u>15.3</u> | <u>15.3</u> | <u>caj</u> |
| D.O. | <u>7.8</u> | <u>8.2</u> | <u>/</u> |
| pH | <u>7.7</u> | <u>7.5</u> | <u>/</u> |
| SALINITY/HARDNESS | <u>—</u> | <u>—</u> | <u>/</u> |
| <u>24 HOURS</u> | | | |
| ORGANISMS SURVIVING | <u>30</u> | <u>30</u> | <u>caj</u> |
| % SURVIVAL | <u>100%</u> | <u>100%</u> | <u>/</u> |
| TEMP. | <u>14.9</u> | <u>14.9</u> | <u>/</u> |
| D.O. | <u>7.8</u> | <u>7.8</u> | <u>/</u> |
| pH | <u>7.6</u> | <u>8.0</u> | <u>/</u> |
| <u>48 HOURS</u> | | | |
| ORGANISMS SURVIVING | <u>30</u> | <u>30</u> | <u>caj</u> |
| % SURVIVAL | <u>100%</u> | <u>100%</u> | <u>/</u> |
| TEMP. | <u>15.2</u> | <u>15.2</u> | <u>/</u> |
| D.O. | <u>7.0</u> | <u>7.8</u> | <u>/</u> |
| pH | <u>7.6</u> | <u>7.9</u> | <u>/</u> |
| <u>72 HOURS</u> | | | |
| ORGANISMS SURVIVING | <u>30</u> | <u>30</u> | <u>caj</u> |
| % SURVIVAL | <u>100%</u> | <u>100%</u> | <u>/</u> |
| TEMP. | <u>16.1</u> | <u>16.1</u> | <u>/</u> |
| D.O. | <u>7.0</u> | <u>7.4</u> | <u>/</u> |
| pH | <u>7.5</u> | <u>7.8</u> | <u>/</u> |
| <u>96 HOURS</u> | | | |
| ORGANISMS SURVIVING | <u>30</u> | <u>30</u> | <u>caj</u> |
| % SURVIVAL | <u>100%</u> | <u>100%</u> | <u>/</u> |
| TEMP. | <u>16.1</u> | <u>16.1</u> | <u>/</u> |
| D.O. | <u>6.4</u> | <u>6.8</u> | <u>/</u> |
| pH | <u>7.4</u> | <u>7.8</u> | <u>/</u> |
| SALINITY/HARDNESS | <u>—</u> | <u>—</u> | <u>/</u> |

TU: No Toxicity - 0Procedure No. 2.3Temp. Probe No. 30Cal. Due Date 1/25/91TESTED BY CAJReviewed by Jim Kelly



APPENDIX 5

Stratified Water Temperatures
Data for October 1990

DIABLO CANYON POWER PLANT
OCEANOGRAPHY STATIONS
STRATIFIED WATER TEMPERATURES

3 October, 1990

On October 3, 1990 between the hours of 0700 - 0900 PST vertical temperature profiles were measured in the vicinity of Diablo Canyon Power Plant. Due to changes in the NPDES discharge permit (effective June 1, 1990) only stations inside Diablo Cove require temperature measurements (Figure One). Temperature measurements were made with a TSK America electronic bathythermograph (MICOM-BT). The MICOM-BT is a self-contained underwater unit which measures temperature using a pressure independent temperature sensor. The sensor has a response time of 0.25 seconds and an accuracy to ± 0.10 degrees F. (± 0.05 degrees C.). A pressure transducer with an accuracy of 0.3% (full scale) is used to determine the instrument's depth. Temperature and depth data are reported at one meter intervals. The data are stored in an internal memory then retrieved using a photomagnetic coupler and a Compaq computer. Reference temperatures were measured at the surface with a thermometer traceable to the National Bureau of Standards.

During the sampling period sea conditions were rough with 6/10 foot swell from the NW and 2/4 foot swell from the SW. Winds were calm with overcast skies and an air temperature of approximately 60 degrees Fahrenheit.

Temperature profiles measured in October 1990 were very similar to profiles measured in October 1989. Water temperature ranged from a high of 71.4 degrees F one meter below the surface at stations 10 and 13 to a low of 56.0 degrees F on the bottom at station 12. Profiles measured in the west entrance of Diablo Cove varied as much as 14.0 degrees F from surface to bottom (See station tables). The profile measured at station 13 inside Diablo Rock in the north entrance of Diablo Cove varied 14.4 degrees F from surface to bottom. However, stations 14 and 15 outside Diablo Rock in the north entrance of Diablo Cove were much more uniform from surface to bottom (9.1 and 3.5 degree ranges, respectively). Stratification of the water column is present due to the influence of the discharge plume.



DIABLO CANYON POWER PLANT
OCEANOGRAPHIC STATIONS
STRATIFIED WATER TEMPERATURES
3 OCTOBER 1990

STATION 10

| DEPTH(m) | TEMP(*F) |
|----------|----------|
| 0.0 | 70.2 |
| 1.0 | 71.4 |
| 2.0 | 70.1 |
| 3.0 | 68.6 |
| 4.0 | 64.6 |
| 5.0 | 61.4 |
| 6.0 | 59.6 |
| 7.0 | 59.4 |
| 8.0 | 58.3 |
| 9.0 | 57.9 |
| 10.0 | 57.4 |

DIABLO CANYON POWER PLANT
OCEANOGRAPHIC STATIONS
STRATIFIED WATER TEMPERATURES
3 OCTOBER 1990

STATION 11

| DEPTH(m) | TEMP(*F) |
|----------|----------|
| 0.0 | 69.4 |
| 1.0 | 68.5 |
| 2.0 | 68.5 |
| 3.0 | 68.2 |
| 4.0 | 67.8 |
| 5.0 | 66.5 |
| 6.0 | 61.3 |
| 7.0 | 58.8 |
| 8.0 | 58.8 |
| 9.0 | 58.7 |
| 10.0 | 58.7 |
| 11.0 | 58.6 |
| 12.0 | 58.2 |
| 13.0 | 56.9 |
| 14.0 | 56.1 |
| 15.0 | 56.1 |
| 16.0 | 56.1 |



DIABLO CANYON POWER PLANT
OCEANOGRAPHIC STATIONS
STRATIFIED WATER TEMPERATURES
3 OCTOBER 1990

STATION 12

| DEPTH(m) | TEMP(°F) |
|----------|----------|
| 0.0 | 69.3 |
| 1.0 | 68.1 |
| 2.0 | 65.9 |
| 3.0 | 63.9 |
| 4.0 | 60.5 |
| 5.0 | 59.8 |
| 6.0 | 59.1 |
| 7.0 | 59.1 |
| 8.0 | 59.1 |
| 9.0 | 58.9 |
| 10.0 | 58.7 |
| 11.0 | 58.7 |
| 12.0 | 58.7 |
| 13.0 | 58.7 |
| 14.0 | 58.7 |
| 15.0 | 58.2 |
| 16.0 | 57.9 |
| 17.0 | 57.8 |
| 18.0 | 57.4 |
| 19.0 | 56.2 |
| 20.0 | 56.0 |
| 21.0 | 56.0 |



DIABLO CANYON POWER PLANT
OCEANOGRAPHIC STATIONS
STRATIFIED WATER TEMPERATURES
3 OCTOBER 1990

STATION 13

| DEPTH(m) | TEMP(°F) |
|----------|----------|
| 0.0 | 70.3 |
| 1.0 | 71.4 |
| 2.0 | 69.0 |
| 3.0 | 66.4 |
| 4.0 | 65.4 |
| 5.0 | 65.2 |
| 6.0 | 60.1 |
| 7.0 | 59.1 |
| 8.0 | 58.0 |
| 9.0 | 57.3 |
| 10.0 | 57.0 |

DIABLO CANYON POWER PLANT
OCEANOGRAPHIC STATIONS
STRATIFIED WATER TEMPERATURES
3 OCTOBER 1990

STATION 14

| DEPTH(m) | TEMP(°F) |
|----------|----------|
| 0.0 | 68.2 |
| 1.0 | 67.6 |
| 2.0 | 67.5 |
| 3.0 | 67.5 |
| 4.0 | 63.2 |
| 5.0 | 60.5 |
| 6.0 | 59.5 |
| 7.0 | 59.3 |
| 8.0 | 59.1 |



DIABLO CANYON POWER PLANT
OCEANOGRAPHIC STATIONS
STRATIFIED WATER TEMPERATURES
3 OCTOBER 1990

STATION 15

| DEPTH(m) | TEMP(°F) |
|----------|----------|
| 0.0 | 61.9 |
| 1.0 | 61.0 |
| 2.0 | 60.1 |
| 3.0 | 60.0 |
| 4.0 | 58.7 |
| 5.0 | 58.7 |
| 6.0 | 58.6 |
| 7.0 | 58.5 |
| 8.0 | 58.5 |
| 9.0 | 58.4 |
| 10.0 | 58.4 |



APPENDIX 6

Dissolved Oxygen and pH Sampling
Data for October 1990

DIABLO CANYON POWER PLANT
OCEANOGRAPHY STATIONS
pH MEASUREMENTS and
DISSOLVED OXYGEN DETERMINATIONS
of RECEIVING WATERS

3 October, 1990

On October 3, 1990 between the hours of 0700 - 0900 PST seawater samples were collected in the vicinity of Diablo Canyon Power Plant to determine pH and dissolved oxygen concentrations. Due to changes in the NPDES discharge permit (effective June 1, 1990) only stations inside Diablo Cove require sampling. Samples were collected at six stations inside Diablo Cove. At each station Samples were collected at surface, mid-depth and bottom. A hydrocast array of Van-Dorn bottles was used to collect the samples.

During the sampling period seastate was rough with 6/10 foot swell from the NW and 2/4 foot swell from the SW. Winds were calm with overcast skies and an air temperature of approximately 60.0 degrees Fahrenheit.

Dissolved oxygen samples were immediately preserved using Manganous sulfate and alkaline iodide-azide. Samples were then transported to the onsite Oceanography Laboratory for processing. Dissolved oxygen concentrations were determined using a modified Winkler Titration method. The pH values were measured using an Orion model 701A pH meter (± 1 units).

Dissolved oxygen values ranged from a high of 8.4 ppm at mid-water of station 12 to a low of 4.4 ppm at mid-water of station 13 (Table 1). Dissolved oxygen values measured in October 1990 were found to be similar to those measured in October 1989.

The pH values were found to be fairly uniform throughout the water column at all stations ranging from 8.0 to 7.9 (Table 2). October 1990 pH values were similar to those values measured in October 1989.

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Table One

DIABLO CANYON POWER PLANT
OCEANOGRAPHY STATIONS
DISSOLVED OXYGEN DETERMINATIONS

3 October, 1990

| Station | Surface | Mid-water
(depth) | Bottom
(depth) |
|---------|---------|----------------------|-------------------|
| 10 | 7.2 | 6.0 | 5.8 |
| 11 | 7.0 | 5.8 | 4.4 |
| 12 | 7.0 | 5.2 | 5.6 |
| 13 | 7.8 | 7.4 | 5.6 |
| 14 | 6.8 | 7.0 | 7.05 |
| 15 | 7.4 | 7.2 | 6.0 |

Table Two

DIABLO CANYON POWER PLANT
OCEANOGRAPHY STATIONS
pH MEASUREMENTS

3 October 1990

| Station | Surface | Mid-water
(depth) | Bottom
(depth) |
|---------|---------|----------------------|-------------------|
| 10 | 7.9 | 7.9 | 7.8 |
| 11 | 7.7 | 7.7 | 7.7 |
| 12 | 7.9 | 7.8 | 7.8 |
| 13 | 7.9 | 7.9 | 7.9 |
| 14 | 7.9 | 7.9 | 7.9 |
| 15 | 7.9 | 7.9 | 7.9 |

