

PACIFIC GAS AND ELECTRIC COMPANY
NUCLEAR PLANT OPERATIONS

REPORT ON
DISCHARGE MONITORING AT
DIABLO CANYON POWER PLANT
DURING THE MONTH OF
NOVEMBER 1985

8512270203 851130
PDR ADOCK 05000275
R PDR

1025
11

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OVERVIEW

During the month of November, discharges were made from discharge paths 001 (main circulating pumps), 001-B, 001-D, 001-F, 001-H, 001-J, 001-L, 002, 003, and 004. No discharges were made from discharge paths 001-A, 001-C, 001-E, 001-G, 001-I, nor 001-K.

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, or by state approved laboratories, or by laboratories approved by the Regional Board staff.

SUMMARY OF MONITORING PROGRAM

A. Monitoring of Plant Influent and Effluent

1. Results of monitoring of plant influent and effluent in November are reported on Form Q-2's found in Appendix 1.
2. Static bioassays for Discharge 001 are performed quarterly in January, April, July and October.

B. Monitoring of Receiving Waters

1. Ecological Studies at Diablo Canyon

Ecological studies in accordance with the Thermal Effects Monitoring Program (Provision D.4) continue.

2. Sediment Analysis

Sediment samples are collected in September.

3. Aerial Photography of Kelp Beds

Aerial photography (infrared film type 2443) of kelp beds in the vicinity of Diablo Canyon was taken October 23, 1985. Color transparencies of the photos are included in Appendix 2.

4. Surface Water Temperature

Measurement of surface water temperatures is not required until commercial operation of Unit 2.

5. Stratified Water Temperatures

Stratified water temperatures are recorded in February, June and October.

6. pH and Dissolved Oxygen of Receiving Waters

Monitoring of pH and dissolved oxygen in the receiving waters is scheduled in February, June and October.

7. Incident Light Measurements

Subsurface light measurements are reported quarterly in the January, March, June, and September reports.

8. 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.

APPENDIX 1

Monthly Influent and Effluent Monitoring

October 1935

INSTRUCTIONS FOR DISCHARGER

1. Remove COPY 4 (dark yellow) and use for your worksheet.
2. Use ballpoint pen or typewriter for data entry on forms.
3. Provide dates for beginning and ending in reporting period blocks.
4. Provide data as specified under column headings.
5. Enter monthly summary data (MONTHLY AVERAGE, MONTHLY HIGH, etc.).
6. Appropriate signature is required at the bottom of the form.
7. Remove COPY 3 and retain for your records.
8. Send COPY 2 to EPA, Region 9, San Francisco and COPY 1 to

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

DISCHARGER SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN LUIS OBISPO, CA 93401

PACIFIC GAS & ELECTRIC CO.
DIABLO CANYON NUCLEAR POWER PLANT

P. O. BOX 56
AVILA BEACH,
93424

CALIF

YOUR REPORTING PERIOD IS QUARTERLY AND YOUR REPORTS MUST
BE SUBMITTED BY DAYS FOLLOWING THIS PERIOD.

Transaction Code Q2 Facility I.D. 3-402003001 Year / Month for this report 85 / 11 Reporting Period Beginning 85 / 10 / 01 Ending 85 / 12 / 31 State Code 06 NPDES Permit Number 0003751 Date form was computer printed / / Year Mo. Day

STATION DESCRIPTION	EFFL 001F	EFFL 001F	EFFL 001F	EFFL 001F	EFFL 001F	EFFL 001F	EFFL 001F	EFFL 001F
CONSTITUENT NAME	CADMIUM	T CHROMIUM	COPPER	LEAD	MERCURY	NICKEL	SILVER	ZINC
UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
SAMPLE TYPE	WEEKLY COMPOSITE	WEEKLY COMPOSITE	WEEKLY COMPOSITE	WEEKLY COMPOSITE	WEEKLY COMPOSITE	WEEKLY COMPOSITE	WEEKLY COMPOSITE	WEEKLY COMPOSITE
FREQUENCY	Jan/Apr/Jul/Oct	Jan/Apr/Jul/Oct	Jan/Apr/Jul/Oct	Jan/Apr/Jul/Oct	Jan/Apr/Jul/Oct	Jan/Apr/Jul/Oct	Jan/Apr/Jul/Oct	Jan/Apr/Jul/Oct

MONTH	DAY	*		*		*		*		*		*		*		*	
Nov.	22	1	< 1	1	< 60	1	72	1	16	1	< 1	1	23	1	4	1	196

REMARKS-- METAL ANALYSIS PERFORMED ON THE NOVEMBER 15 THRU
21 WEEKLY COMPOSITE.

+	MONTHLY AVERAGE							
	MONTHLY HIGH							
	MONTHLY LOW							
	TOTAL RECORDINGS/MO							
	REQUIREMENT #1							
	Times Exceeded							
	REQUIREMENT #2							
	Times Exceeded							
	REQUIREMENT #3							
	Times Exceeded							

* Enter number of samples
taken during the day

Typed Name of Principal Executive Officer
SHIFFER JAMES **D.**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

William C. D'Anna **85.12.18**
Signature of Principal Executive Officer

REGIONAL
BOARD COPY

INSTRUCTIONS FOR DISCHARGER

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CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

DISCHARGER SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN LUIS OBISPO, CA 93401

FACILITY
NAME
ADDRESS

PACIFIC GAS AND ELECTRIC CO
DIABLO CYN NUCLEAR POWER PLANT

P O BOX 56
AVILA BEACH
93424

CALIF

YOUR REPORTING PERIOD IS MONTHLY AND YOUR REPORTS MUST
BE SUBMITTED BY 15 DAYS FOLLOWING THIS PERIOD.

Year Mo. Day

Year Mo. Day

State
Code

NPDES Permit
Number

Date form was
computer printed

PAGE 1
Year Mo. Day

Q2 Transaction Code 3 40203001 Facility I.D. 3 40203001 Year/Month for this report 85/11/01 Reporting Period: Beginning 85/11/01 Ending 85/11/30 State Code 06 NPDES Permit Number 0003751 Date form was computer printed 85/08/05

STATION DESCRIPTION		INFLUENT	EFFLUENT 001	EFFLUENT 001	INFLUENT	EFFLUENT 001	EFFLUENT 002	EFFLUENT 003	EFFLUENT 004
CONSTITUENT NAME		TEMPERATURE	TEMPERATURE	FLOW	PH	PH	PH	PH	PH
UNITS		DEGREES F	DEGREES F	MGD	PH UNITS	PH UNITS	PH UNITS	PH UNITS	PH UNITS
SAMPLE TYPE		METERED	METERED	RECORDED	GRAB	GRAB	GRAB	GRAB	GRAB
FREQUENCY		CONTINUOUS	CONTINUOUS	DAILY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
MONTH DAY		* 00011	* 00011	* 50050	* 00403	* GRAB/CONTINUOUS	* 00403	* 00403	* 00403
REMARKS-	Nov. 1	54.7	59.2	1262		8.00			
	2	55.3	63.4	1250		8.00			
	3	55.9	63.9	1250		8.00			
	4	56.2	63.7	1250	1 7.96	1 7.95	8.00		
	5	56.2	62.7	1281		7.90		1 7.86	1 7.86
	6	55.8	61.5	1540		7.90			
	7	56.7	58.8	1230		7.95			
	8	57.0	58.1	1310		8.00			
	9	57.0	58.6	1390		8.00			
	10	56.8	61.1	1880		7.95			
	11	57.7	67.0	1580		7.90			
	12	57.7	66.9	2460		7.90			
	13	58.1	68.7	2210		7.90			
	14	57.9	69.7	1830		7.90	2 8.03		
	15	57.3	67.8	2380		7.85			
	16	56.6	69.2	2460		7.80			
	17	54.8	70.8	2460		7.80			
	18	53.8	68.9	2460		7.85			
	19	52.8	65.0	2460		7.80			
	20	52.9	65.6	2460		7.70			
	21	52.7	66.1	2460		7.75			
	22	53.2	68.9	2460		7.80			
	23	53.7	69.1	1910		7.80			
	24	54.1	68.3	2390		7.80			
	25	54.0	67.5	2460		7.85			
	26	55.3	69.5	2440		7.90			
	27	55.2	66.8	1830		7.90			
	28	55.8	65.8	1830		8.00			
	29	56.2	66.3	1830		8.00			
	30	56.6	64.8	1910		8.00			
+ MONTHLY AVERAGE		55.6	65.5	1931		7.90			
MONTHLY HIGH		58.1	70.8	2460		8.00			
MONTHLY LOW		52.7	58.1	1250		7.70			
TOTAL RECORDINGS/MO		30	30	30		30			
REQUIREMENT #1			MAXIMUM	MAXIMUM 2760		MINIMUM 6.0	MINIMUM 6.0	MINIMUM 6.0	MINIMUM 6.0
Times Exceeded									
REQUIREMENT #2			INTAKE PLUS			MAXIMUM 9.0	MAXIMUM 9.0	MAXIMUM 9.0	MAXIMUM 9.0
Times Exceeded									
REQUIREMENT #3			22 DEGREES						
Times Exceeded									

*Enter number of samples taken during the day.

Typed Name of Principal Executive Officer: SHIFFER JAMES D.

I declare under penalty of perjury that the foregoing is true and accurate, and that the sampling procedure and analysis used for the column constituents was as specified in the Waste Discharge Order for this facility.

Signature of Principal Executive Officer or Authorized Agent: *William C. Doherty*

Date: 85.12.18

REGIONAL BOARD COPY

INSTRUCTIONS FOR DISCHARGER

1. Remove COPY 4 (dark yellow) and use for your worksheet.
2. Use ball-point pen or typewriter for data entry on forms.
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8. Send COPY 2 to EPA, Region 9, San Francisco and COPY 1 to:

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD

DISCHARGER SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN LUIS OBISPO, CA 93401

PACIFIC GAS AND ELECTRIC CO
DIABLO CYN NUCLEAR POWER PLANT

P O BOX 56
AVILA BEACH
93424

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YOUR REPORTING PERIOD IS MONTHLY AND YOUR REPORTS MUST
BE SUBMITTED BY 15 DAYS FOLLOWING THIS PERIOD.

Transaction Code Q2 Facility I.D. 3 40200300 Year/Month for this report 85/11/01 Reporting Period: Beginning 85/11/01 Ending 85/11/30 State Code 06 NPDES Permit Number 0003751 Date form was computer printed 85/08/05 PAGE 2

STATION DESCRIPTION	INFLUENT	EFFLUENT 001	EFFLUENT 001	EFFLUENT 001	EFFLUENT 001	INFLUENT	EFFLUENT 001	EFFLUENT 001
CONSTITUENT NAME	TURBIDITY	TURBIDITY	T CHLOR RES	FREE AVL CHL	CHLORINE USED	OIL & GREASE	OIL & GREASE	OIL & GREASE
UNITS	NTU	NTU	UG/L	UG/L	LBS/DAY	MG/L	MG/L	MG/L
SAMPLE TYPE	GRAB	GRAB	GRAB	GRAB	RECORDED	GRAB	GRAB	GRAB
FREQUENCY	MONTHLY	MONTHLY	2 PER CYCLE	2 PER CYCLE	MONTHLY	JA/AP/SE/O	MONTHLY	MONTHLY
	82079	82079			50059	00552	00552	00552
Nov.	1		6	170	6	170		
	2		6	140	6	102		
	3					146		
	4					146		
	5	1.0	1	0.7			1	< 3
	6							
	7							7
	8							
	9					292		
	10		4	80	4	50		
	11		2	61	8	13		
	12		8	68	8	17		
	13		6	92	6	44		
	14		8	124	8	88		
	15		8	< 10	8	< 10		
	16		8	44	8	44		
	17					292		
	18							
	19							
	20		8	113	8	103		
	21					292		
	22							
	23							
	24							
	25							
	26							
	27							
	28							
	29							
	30							
+ MONTHLY AVERAGE			90	170	64	314		
MONTHLY HIGH			< 10	< 10	< 10	146		
MONTHLY LOW			10	10	10	10		
TOTAL RECORDINGS/MO.			0 MAX 200	30-D AV 200				MO AVG 15
REQUIREMENT #1			1 MAX 200	0 MAX 300				0 MAX 20
Times Exceeded								
REQUIREMENT #2								
Times Exceeded								
REQUIREMENT #3								
Times Exceeded								

*Enter number of samples taken during the day.

Typed Name of Principal Executive Officer

SHIFFER JAMES D.

Last First MI

I declare under penalty of perjury that the foregoing is true and accurate, and that the sampling procedure and analysis used for the column constituents was as specified in the Waste Discharge Order for this facility.

Signature of Principal Executive Officer or Authorized Agent

85/12/18

REGIONAL BOARD COPY

1

INSTRUCTIONS FOR DISCHARGER

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Q2 Transaction Code ☐ Facility I.D. 3 402003001 Year/Month for this report ☐ Reporting Period Beginning 85/11/01 Ending 85/11/30 State Code 06 NPDES Permit Number 0003751 Date form was computer printed 85/08/05 PAGE 3 Year Mo. Day

STATION DESCRIPTION	INFLUENT	EFFLUENT 001	EFFL 0011	EFFL 001C	EFFL 001D	EFFL 001F	EFFL 001G	EFFL 001H
CONSTITUENT NAME	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE	T NF RESIDUE
UNITS	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L	MG/L
SAMPLE TYPE	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
FREQUENCY	JA/APR/JUL/0	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
	* 00530	* 00530	* 00530	* 00530	* 00530	* 00530	* 00530	* 00530
Nov. 1								
2								
3								
4								
5		1	1.6					
6								
7					1	28	1	12
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25					1	16		1
26								
27								
28								
29								1
30								29
+ MONTHLY AVERAGE								
MONTHLY HIGH								
MONTHLY LOW								
TOTAL RECORDINGS/MO								
REQUIREMENT #1			NO AVG 30	NO AVG 30	NO AVG 30	NO AVG 30	NO AVG 30	NO AVG 30
Times Exceeded								
REQUIREMENT #2			D MAX 100	D MAX 100	D MAX 100	D MAX 100	D MAX 100	D MAX 100
Times Exceeded								
REQUIREMENT #3								
Times Exceeded								

*Enter number of samples taken during the day.

Typed Name of Principal Executive Officer

I declare under penalty of perjury that the foregoing is true and accurate, and that the sampling procedure and analysis used for the column constituents was as specified in the Waste Discharge Order for this facility.

Signature of Principal Executive

85/12/18

REGIONAL BOARD COPY

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD DISCHARGER SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN LUIS OBISPO, CA 93401

PACIFIC GAS AND ELECTRIC CO
DIABLO CYN NUCLEAR POWER PLANT

P O BOX 56
AVILA BEACH
93424
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YOUR REPORTING PERIOD IS MONTHLY AND YOUR REPORTS MUST
BE SUBMITTED BY 15 DAYS FOLLOWING THIS PERIOD.

Transaction ☐ Facility ☐ ID ☐ 3 4 02003001

Reporting Period: Beginning 85/11/01 Ending 85/11/30

State Code 06 NPDES Permit Number 0003751 Date form was computer printed 85/08/02

PAGE 4
Year Mo Day

STATION DESCRIPTION	EFFL 001J Y NF RESIDUE MG/L	EFFL 001K Y NF RESIDUE MG/L	EFFL 001L Y NF RESIDUE MG/L	EFFL 001M Y NF RESIDUE MG/L	EFFL 002 Y NF RESIDUE MG/L	EFFL 003A Y NF RESIDUE MG/L	INFLUENT T CONCENTRATION UG/L	EFFLUENT 001 T CONCENTRATION MG/L
CONSTITUENT NAME	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB
SAMPLE TYPE	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	GRAB	GRAB
FREQUENCY	00530	00530	00530	00530	00530	00530	00530	01034
MONTH DAY	1	2	3	4	5	6	7	8
NOV.								
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
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26								
27								
28								
29								
30								

REMARKS:

MONTHLY AVERAGE: MONTHLY HIGH MONTHLY LOW

TOTAL RECORDINGS/MO

REQUIREMENT #1 Times Exceeded

REQUIREMENT #2 Times Exceeded

REQUIREMENT #3 Times Exceeded

Enter number of samples taken during the day

Typed Name of Principal Executive Officer: SHIEFFER JAMES D.

I declare under penalty of perjury that the foregoing is true and accurate, and that the sampling procedure and analysis used for the column constituents was as specified in the Waste Discharge Order for this facility.

Signature of Principal Executive Officer: *William A. Dyer*

85/12/18

REGIONAL BOARD COPY 1

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CALIFORNIA REGIONAL WATER QUALITY
CONTROL BOARD
CENTRAL COAST REGION
1102A LAUREL LANE
SAN LUIS OBISPO, CA 93401

FACILITY
NAME
MAILING
ADDRESS

PACIFIC GAS AND ELECTRIC CO
DIABLO CYN NUCLEAR POWER PLANT

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NPDES Permit
Number
0003751

Page 6
Date form was
computer printed 85/06/01

STATION DESCRIPTION		EFFLUENT 001	EFFL 001D	EFFL 001D	EFFL 001D										
CONSTITUENT NAME		TITANIUM	LITHIUM	BORON	HYDRAZINE										
UNITS		UG/L	UG/L	UG/L	UG/L										
SAMPLE TYPE		GRAB	MONTHLY COMPOSITE	MONTHLY COMPOSITE	GRAB										
FREQUENCY		MONTHLY	MONTHLY	MONTHLY	MONTHLY										
MONTH	DAY														
Nov.	1														
	2														
	3														
	4														
	5	1	< 10												
	6														
	7														
	8														
	9														
	10														
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	21														
	22														
	23														
	24														
	25														
	26														
	27														
	28														
	29														
	30														
+ MONTHLY AVERAGE			39	2.42E5	64										
MONTHLY HIGH					550										
MONTHLY LOW					< 5										
TOTAL RECORDINGS/MO.					26										
REQUIREMENT #1															
Times Exceeded															
REQUIREMENT #2															
Times Exceeded															
REQUIREMENT #3															
Times Exceeded															

*Enter number of samples
taken during the day.

Typed Name of Principal Executive Officer
SHIFFER JAMES D.
Last First MI

I declare under penalty of perjury that the foregoing is true and accurate, and that
the sampling procedure and analysis used for the column constituents was as speci-
fied in the Waste Discharge Order for this facility.

Signature of Principal Executive
Officer or Authorized Agent
William A. Dine

85/12/18
Yr Mo Day
Date

REGIONAL
BOARD COPY

APPENDIX 2

35mm Slides of Aerial Kelp Photography

Taken October 23, 1985

(Regional Board Copy Only)

PACIFIC GAS AND ELECTRIC COMPANY



DIABLO CANYON POWER PLANT
P.O. Box 56 • Avila Beach, California 93424 • (805) 595-7351

R.C. THORNBERRY
PLANT MANAGER

December 20, 1985

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

Dear Mr. Jones:

Discharge Monitoring and Reporting Program
Diablo Canyon Power Plant

The monthly report for November 1985 of the Diablo Canyon Power Plant Discharge Monitoring Program, in accordance with Order 85-101, NPDES No. CA0003751 is enclosed.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in the attached document and all enclosures, and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the information is true, accurate and complete. The results of the influent and effluent monitoring presented 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.

Sincerely,

R. Thornberry
for Mr. R.C. Thornberry

Enclosure

IE25
1/1

cc: Marine Resources Region
California Department of Fish and Game
350 Golden Shore
Long Beach, California 90802

Regional Administrator, Region IX
Environmental Protection Agency
215 Fremont Street
San Francisco, California 94105

Regional Administrator
U. S. Nuclear Regulatory Commission
Region 5
1450 Maria Lane, Suite 210
Walnut Creek, California 94596-5368

Mr. Ronald L. Ballard, Chief
Environmental and Hydrologic Engineering Branch
Division of Engineering
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, DC 20555

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

Chief, Marine Resource Branch
California Department of Fish and Game
Resources Building
1419 9th Street
Sacramento, California 95814

bcc: WHBarr/TGCasebolt
DWBehrens
JVBoots
PACrane
MJNoyle/VLWyman
JBGibson/DJWilliamson
HMHowe/JFMcKenzie
BSLew/ERKendle
RWLorenz/KMGodfrey
HKMcCluer
MNNorem
WAO'Hara
JARobbins
JDShiffer
CPWalton
JWWarrick
CJWeinberg/JRAdams
RMS