

PACIFIC GAS AND ELECTRIC COMPANY  
NUCLEAR PLANT OPERATIONS

REPORT ON  
DISCHARGE MONITORING AT  
DIABLO CANYON POWER PLANT  
DURING THE MONTH OF  
MAY 1986

8606270090 860531  
PDR ADOCK 05000275  
R PDR

IEOS

1/1

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## OVERVIEW

During the month of May, discharges were made from discharge paths 001 (main circulating pumps), 001-A, 001-B, 001-D, 001-E, 001-F, 001-G, 001-H, 001-J, 001-K, 001-L, 002, 003, 004, and 005. No discharges were made from discharge paths 001-C nor 001-I.

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.

The turbine building sump pump and oily water separator (OWS) for discharge path 001-F, continued to have mechanical problems in early May. The system was taken out of service on May 16 to replace the turbine building sump pumps with new pumps. Additional repairs were made to the OWS piping and pressurization pumps. The system was returned to service on June 12 with an oil and grease sample analysis of 10 mg/l. A subsequent sample on June 16 had an analysis result of 3 mg/l.

On June 18, 1986, during a review of the daily chlorination data sheets for May 1986 it was found that on May 23, we exceeded the total chlorine concentration limits of 200 ppb on two occasions during the daily chlorination of the main circulating water. The first occurrence was at 1245, chlorine = 205 ppb and the second occurrence was at 1445, chlorine = 235 ppb. Both of these samples are the first of two samples taken during the thirty minute chlorination cycle. The second samples were taken at 1255, chlorine = 140 ppb and 1455, chlorine = 80 ppb, respectively. Upon confirming with Operations, the proper chlorination rates, and procedures, we could not find a procedural cause for these chlorine concentrations. The out of spec chlorine concentrations were not consistent with previous and subsequent sample results and are believed to be due to instrument malfunction. To prevent further occurrences of out of spec chlorine concentrations attributed to technician error or instrument malfunction, the technicians are being retrained in the use of the chlorine titrators, sampling procedures, techniques, and the importance of reporting out of spec results as soon as they are discovered.

## SUMMARY OF MONITORING PROGRAM

### A. Monitoring of Plant Influent and Effluent

1. Results of monitoring of plant influent and effluent in April are reported on Form Q-2's found in Appendix 1.
2. A static bioassay of 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 is required in February, June and October.

4. Surface Water Temperature

Surface water temperatures are reported every other month.

5. Stratified Water Temperatures

Stratified water temperatures are measured 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

Incident light measurements are reported quarterly in the reports submitted in January, April, July, and October.

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

Influent and Effluent Monitoring

May 1986

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

FACILITY: PACIFIC GAS AND ELECTRIC CO  
 DIABLO CYN NUCLEAR POWER PLANT

MAILING ADDRESS: P O BOX 56  
 VILA BEACH CALIF 93424

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

Transaction Code: Q2 Facility ID: 5402003001 Year / Month for this report:      Reporting Period: Beginning 56/05/01 Ending 56/05/31 State Code: 06 NPDES Permit Number: 0003751 Date form was computer printed: 05/12/03 PAGE 1

STATION DESCRIPTION		INFLUENT	EFFLUENT 001	EFFLUENT 001	INFLUENT	EFFLUENT 001	EFFLUENT 002	EFFLUENT 003	EFFLUENT 004
CONSTITUENT NAME		TEMPERATURE DEGREES F	TEMPERATURE DEGREES F	FLOW 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	* 00403	* 00403	* 00403	* 00403
MAY	1	52.5	70.5	2454					
	2	52.5	71.5	2454					
	3	52.5	70.5	2454					
	4	52.5	69.5	2454					
	5	51.0	69.0	2454					
	6	50.0	66.0	2454					
	7	51.0	68.5	2454					
	8	51.0	69.0	2454					
	9	51.0	69.0	2454					
	10	51.0	69.0	2454	1 7.77	1 7.75	1 7.91		
	11	51.0	69.0	2454					
	12	50.0	68.5	2454					
	13	52.0	70.5	2454					
	14	52.5	70.5	2454					
	15	51.5	69.5	2454					
	16	50.5	68.5	2454					
	17	53.0	70.0	2454					
	18	52.5	70.5	2454					
	19	52.0	69.5	2454					
	20	51.0	68.5	2454				1 7.70	1 7.30
	21	50.5	68.0	2454					
	22	50.0	67.0	2454					
	23	51.0	67.5	2454					
	24	51.0	68.5	2454					
	25	50.5	68.0	2454					
	26	51.0	67.5	2454					
	27	51.0	67.0	2454					
	28	51.5	66.5	2454					
	29	52.0	68.5	1831					
	30	53.0	70.0	1831					
	31	52.0	71.0	1831					
+ MONTHLY AVERAGE		51.5	70.0	2394					
MONTHLY HIGH		53.0	71.5	2454					
MONTHLY LOW		50.0	66.5	1831					
TOTAL RECORDINGS / MO		31	31	31					
REQUIREMENT #1			MAXIMUM	MAXIMUM FLOW	MINIMUM 6.0	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	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.  
 Last First MI

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, 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.

*John Taylor* 6/20/06  
 Signature of Principal Executive Officer or Authorized Agent  
 Mo Day

REGIONAL BOARD COPY

INSTRUCTIONS FOR DISCHARGER

- 1 Remove COPY 4 (dark yellow) and use for your worksheet
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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

PACIFIC GAS AND ELECTRIC CO  
DIABLU CYN NUCLEAR POWER PLANT  
U BOX 56  
AVILA BEACH  
CALIF 9424

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

Transaction Code Q2 Facility I.D. 54L200300 Year Month for this report      Reporting Period Beginning 06/05/01 Ending 06/05/31 State Code 06 NPDES Permit Number 0003751 Date form was computer printed 05/12/03 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	CHLORINEUSED	OIL & GREASE	OIL & GREASE	EFFL 001F				
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/AU/O	MONTHLY	MONTHLY				
	MONTH	* 82079		* 02079		* 50059		* 00552		* 00552		* 00552	
	DAY												
REMARKS: EFFL 001F: OIL AND GREASE -- SEE TEXT FOR DISCUSSION OF OILY WATER SEPARATOR.	MAY	1		8	84	8	84	417					
		2		8	67	8	57	417					
		3		8	76	8	90	417				1	57
		4											
		5			8	56	8	39	417				
		6			8	50	8	56	417				
		7											
		8			2	70	2	90	104				
		9			8	146	8	121	417				
		10	1	0.32	1	0.35	8	66	417				
		11			8	86	8	86	417				
		12			8	115	8	120	417			1	< 3
		13			8	48	8	46	417				
		14			6	67	6	12	312				
		15			8	41	8	39	417			1	89
		16			8	46	8	43	417				
		17			8	19	8	18	417				
		18			8	<10	8	<10	417				
		19			2	<10	2	<10	104				
		20			6	38	6	36	312				
		21			8	34	8	28	417				
		22			8	96	8	82	417				
		23			8	109	8	41	417				
		24			8	104	8	79	417				
		25			8	63	8	44	417				
		26			8	18	8	16	417				
		27			8	12	8	<10	417				
		28			8	11	8	<10	417				
		29			6	11	6	11	219				
		30											
		31			8	33		29	417				
+ MONTHLY AVERAGE					61		51	380					
MONTHLY HIGH					146		121	417					
MONTHLY LOW					<10		<10	104					
TOTAL RECORDINGS/MO					206		206	28					
REQUIREMENT #1					D MAX 200		30-D AV 200						MO AVG 15
Times Exceeded													
REQUIREMENT #2					T MAX 200		D MAX 900						MAX 20
Times Exceeded													2
REQUIREMENT #3													2
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.

*John Taylor* 6/20/04  
Signature of Principal Executive Officer or Authorized Agent

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**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

PO BOX 56  
 VILA BEACH  
 93424

CALIF

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

Transaction Code Q2 Facility I.D. 340200300 Year - Month for this report 7/01 Reporting Period Beginning 06/05/01 Ending 06/05/01 State Code 06 NPDES Permit Number 0003751 Date form was computer printed 05/12/03 PAGE 3

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/AP/JUL/O	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY	MONTHLY
MONTH	DAY	* 00530	* 00530	* 00530	* 00530	* 00530	* 00530	* 00530
MAY	1							
	2							
	3						1	19
	4							
	5							
	6							
	7						1	8
	8							
	9							
	10							
	11		1	< 1				
	12							
	13							
	14							
	15						1	17
	16							
	17							
	18							
	19							
	20							
	21							
	22							
	23							
	24						1	23
	25							
	26							
	27							
	28							
	29							
	30							
	31							
+ MONTHLY AVERAGE		--	--	--	--	--	--	1 9
MONTHLY HIGH								
MONTHLY LOW								
TOTAL RECORDINGS/MO								
REQUIREMENT #1				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
Times Exceeded								
REQUIREMENT #3								
Times Exceeded								

\* Enter number of samples taken during the day

Typed Name of Principal Executive Officer: SHIFFER, JAMES D.

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Signature of Principal Executive Officer: [Signature] Date: 6/10/06

REGIONAL BOARD COPY 1





INSTRUCTIONS FOR DISCHARGER

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD  
**DISCHARGER SELF MONITORING REPORT**

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

PACIFIC GAS AND ELECTRIC CO  
 Diablo Canyon Nuclear Power Plant

PO BOX 56  
 AVILA BEACH  
 93424 CALIF

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

State  
Code  
**06**

NPDES Permit  
Number  
**0003751**

PAGE **5**

Date form was  
computer printed **85/12/03**

Transaction Code     Facility I.D. 340200300 Year / Month for this report   /  /   Reporting Period Beginning Year Mo Day 86/05/01 Ending Year Mo Day 86/05/31 **06**

STATION DESCRIPTION		INFLUENT	EFFLUENT D01	INFLUENT	EFFLUENT D01	INFLUENT	EFFLUENT D01	INFLUENT	EFFLUENT D01				
CONSTITUENT NAME		COPPER	COPPER	NICKEL	NICKEL	ZINC	ZINC	AMMONIA (NH)	AMMONIA (NH)				
UNITS		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/L	MG/L				
SAMPLE TYPE		GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB	GRAB				
FREQUENCY		JA/AP/JUL/O	MONTHLY	JA/AP/JUL/O	MONTHLY	JA/AP/JUL/O	MONTHLY	JA/AP/JUL/O	MONTHLY				
MONTH	DAY	*	01062	*	01067	*	01067	*	01092	*	01092	*	
MAY	1												
	2												
	3												
	4												
	5												
	6												
	7												
	8												
	9												
	10												
	11												
	12												
	13												
	14												
	15												
	16												
	17												
	18												
	19												
	20												
	21	I	I	I	I	I	I	I	36	I	52	I	< 20
	22												
	23												
	24												
	25												
	26												
	27												
	28												
	29												
	30												
	31												

+ MONTHLY AVERAGE													
MONTHLY HIGH													
MONTHLY LOW													
TOTAL RECORDINGS: MO													
REQUIREMENT #1			GM MEAN 24			GM MEAN 146				GM MEAN 97			GM MEAN 4.44
Times Exceeded													
REQUIREMENT #2			D MAX 195			D MAX 592				D MAX 561			D MAX 17.8
Times Exceeded													
REQUIREMENT #3			I MAX 357			I MAX 1400				I MAX 1430			I MAX 44.4
Times Exceeded													

\* Enter number of samples taken during the day

Typed Name of Principal Executive Officer: SHIFFER, JAMES D.

Signature of Principal Executive Officer or Authorized Agent: *James D. Shiffer* Date: 6/12/03

REGIONAL BOARD COPY **1**

INSTRUCTIONS FOR DISCHARGER

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5. Enter month's summary data (MONTHLY AVERAGE MONTHLY HIGH etc.)
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DISCHARGER SELF MONITORING REPORT

CALIFORNIA REGIONAL WATER QUALITY  
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SAN LUIS OBISPO, CA 93401

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.

Transaction Code 02 Facility ID 3402003001 Year - Month for this report 06/05 Reporting Period Beginning 06/05/01 Ending 06/05/01 State Code 06 NPDES Permit Number 0003751 PAGE 6 Date form was computer printed 05/12/03

STATION DESCRIPTION	EFFLUENT Q01	EFFL Q01D	EFFL Q01S	EFFL Q01D	EFFL Q01S		EFFL Q01D	EFFL Q01S	EFFL Q01D	EFFL Q01S	EFFL Q01D
					CONSTITUENT NAME	UNITS					
TITANIUM	UG/L	LITHIUM	UG/L	BORON	UG/L	HYDRAZINE	UG/L				
SAMPLE TYPE	GRAB	MONTHLY COMP	MONTHLY COMP	GRAB							
FREQUENCY	MONTHLY	MONTHLY	MONTHLY	MONTHLY							
REMARKS: 001D -- LITHIUM AND BORON ANALYZED ON THE APRIL LRM COMPOSITE.	MONTH	DAY	*	*	*	*	*	*	*	*	*
	MAY	1									
		2					1	< 5			
		3									
		4					1	48			
		5					2	31			
		6					1	50			
		7		1	76	1	1.78 E 5				
		8					3	44			
		9					1	25			
		10					2	58			
		11									
		12									
		13	1	< 10			2	15			
		14					1	24			
		15					2	20			
		16					1	17			
		17					1	81			
		18									
		19					1	15			
		20					2	68			
		21					3	22			
		22					2	10			
		23					2	90			
		24					1	10			
		25					1	18			
		26									
		27									
		28					1	22			
		29					1	42			
		30					1	25			
	31					1	12				
+ MONTHLY AVERAGE							20				
MONTHLY HIGH							90				
MONTHLY LOW							< 5				
TOTAL RECORDINGS / MO							37				
REQUIREMENT #1											
Times Exceeded											
REQUIREMENT #2											
Times Exceeded											
REQUIREMENT #3											
Times Exceeded											

\* Enter number of samples taken during the day 1 Type of 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. Signature of Principal Executive Officer or Authorized Agent: James Taylor Date: 06/05/06 REGIONAL BOARD COPY 1

# PACIFIC GAS AND ELECTRIC COMPANY



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

R.C. THORBERRY  
PLANT MANAGER

June 20, 1986

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

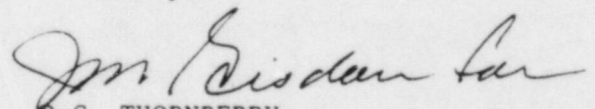
Dear Mr. Jones:

Discharge Monitoring and Reporting Program  
Diablo Canyon Power Plant

The monthly report for May 1986 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.C. THORBERRY

Enclosure

RCT:cd

IE25  
1/1

bcc: WHBarr/TGCasebolt  
DWBehrens  
JVBoots  
PACrane  
MJDoyale/VLWyman  
JBGibson/DJWilliamson  
VCFurtado/JFMcKenzie  
BSLew/ERKendle  
RWLorenz/KMGodfrey  
HKMcCluer  
MNNorem  
WAO'Hara  
JARobbins  
JASexton  
JDShiffer  
CPWalton  
JWarrick  
CJWeinberg/JRAdams  
RMS

cc: California Department of Fish and Game  
Marine Resources Region  
245 W. Broadway, Suite 350  
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  
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