MONTHLY NARRATIVE REPORT
OF OPERATION
AND MAJOR MAINTENANCE EXPERIENCE

This report describes the operating and major maintenance experience for the month of May, 1988. This narrative report was prepared by the plant staff and is submitted in accordance with Section 6.9.1.7 of the Units 1 and 2 Technical Specifications.

Narrative of Daily Significant Plant Events

On May 1, 1988	Unit 1 started the month at 0% power in a refueling outage which began on March 6, 1988. Unit 2 started the month at 100% power.
On May 12, 1988	A 10CFR50.72(b)(2)(ii) Non-Emergency 4-hour report was made regarding the Unit 1 Fuel Handling Building Ventilation System being automatically transferred into the Iodine Removal Mode when RM-58 alarmed due to electronic noise.
On May 22, 1988	10CFR50.72(b)(1)(iv) Non-Emergency 1 hour reports were made regarding potential design or installation problems on Units 1 and 2 Containment Purge Supply and Exhaust Isolation Valves.
On May 31, 1988	Unit 1 ended the month at 0% power and Unit 2 ended the month at 100% power.

Summary of Plant Operating Characteristics, Power Reductions and Unit Shutdowns

Unit 1 operated this month with a unit availability factor of 0% and a unit capacity factor of -0.3% due to a refueling outage.

Unit 2 operated this month with a unit availability factor of 100% and a unit capacity factor of 99.7%.

Summary of Significant Safety-Related Maintenance

Significant safety-related maintenance for Unit 1 consisted of completely tensioning the reactor vessel head and conducting a containment integrated leak rate test.
There was no significant safety-related maintenance for Unit 2.

Actuations of Steam Generator Safety Valves
or Pressurizer Power Operated Relief Valves

No challenges to the steam generator safety valves or pressurizer power operated relief valves were made.

Report of Breakwater Inspections Required
by Technical Specification 4.7.13.1

The breakwaters were inspected during the months of November to April in accordance with Technical Specification 4.7.13.1 and 4.7.13.2. Results from this year's survey were verified against the survey performed during 1984. Changes in the positions of the breakwater survey monuments are given below:

Easting coordinates = -0.3 feet
Northing coordinates = -0.3 feet
Elevation = -0.4 feet

These differences are so small as to be considered negligible and indicative that no appreciable breakwater displacement or settlement has occurred. Breakwater survey results and pictures taken during the survey are provided in Enclosures 1 and 2.

OPERATING DATA REPORT

DOCKET NO. 50-275
DATE 06/08/88
COMPLETED BY P. Bedesem
TELEPHONE (805)595-4097

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 1
2. Reporting Period: May 1988
3. Licensed Thermal Power (MWt): 3338
4. Nameplate Rating (Gross MWe): 1137
5. Design Electrical Rating (Net MWe): 1086
6. Maximum Dependable Capacity (Gross MWe): 1124
7. Maximum Dependable Capacity (Net MWe): 1073.4
8. If changes occur in capacity ratings (Items Number 3 through 7) since last report, give reasons:

N/A

9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any: N/A

		This Month	Year to Date	Cumulative
11.	Hours in Reporting Period	744.0	3647.0	26901.3
12.	Number Of Hours Reactor Was Critical	0.0	1531.6	21273.0
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	0.0	1523.3	20831.0
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated	0.0	4020604	62985064
17.	Gross Electrical Energy Generated	0.0	1355000	21205832
18.	Net Electrical Energy Generated	-2117	1269211	20081243
19.	Unit Service Factor	0.0	41.8	77.4
20.	Unit Availability Factor	0.0	41.8	77.4
21.	Unit Capacity Factor (Using MDC Net)	-0.3	32.4	69.5
22.	Unit Capacity Factor (Using DER Net)	-0.3	32.1	68.7
23.	Unit Forced Outage Rate	0.0	3.8	4.9

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each)

25. If Shut Down At End Of Report Period, Estimated Date of Startup: 06/27/88

OPERATING DATA REPORT

DOCKET NO. 50-323
DATE 06/08/88
COMPLETED BY P. Bedesem
TELEPHONE (805)595-4097

OPERATING STATUS

1. Unit Name: Diablo Canyon Unit 2
2. Reporting Period: May 1988
3. Licensed Thermal Power (MWt): 3411
4. Nameplate Rating (Gross MWe): 1164
5. Design Electrical Rating (Net MWe): 1119
6. Maximum Dependable Capacity (Gross MWe): 1137
7. Maximum Dependable Capacity (Net MWe): 1087
8. If changes occur in capacity ratings (Items Number 3 through 7) since last report, give reasons:

N/A

9. Power Level To Which Restricted, If Any (Net MWe): N/A
10. Reasons For Restrictions, If Any:

N/A

		This Month	Year to Date	Cumulative
11.	Hours in Reporting Period	744.0	3647.0	19460.0
12.	Number Of Hours Reactor Was Critical	744.0	3580.2	16495.9
13.	Reactor Reserve Shutdown Hours	0.0	0.0	0.0
14.	Hours Generator On-Line	744.0	3579.6	16064.5
15.	Unit Reserve Shutdown Hours	0.0	0.0	0.0
16.	Gross Thermal Energy Generated	2530899	12003439	51265423
17.	Gross Electrical Energy Generated	846300	4005500	16993199
18.	Net Electrical Energy Generated	806210	3811247	16074749
19.	Unit Service Factor	100.0	98.2	82.6
20.	Unit Availability Factor	100.0	98.2	82.6
21.	Unit Capacity Factor (Using MDC Net)	99.7	96.1	76.4
22.	Unit Capacity Factor (Using DER Net)	96.8	93.4	73.8
23.	Unit Forced Outage Rate	0.0	1.9	5.6

24. Shutdowns Scheduled Over Next 6 Months (Type, Date, and Duration of Each)

Unit 2 is scheduled to begin a 70 day second refueling outage Sept. 15

25. If Shut Down At End Of Report Period, Estimated Date of Startup: N/A

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-275
UNIT	1
DATE	06/08/88
COMPLETED BY	P. BEDESEM
TELEPHONE	(805)595-4097

MONTH: MAY 1988

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	-4	17	-4
2	-3	18	-3
3	-2	19	-3
4	0	20	-3
5	-3	21	-3
6	-3	22	-3
7	-3	23	-2
8	-3	24	-1
9	-3	25	-3
10	-2	26	-3
11	-3	27	-3
12	-3	28	-3
13	-3	29	-3
14	-3	30	-3
15	-3	31	-3
16	-3		

INSTRUCTIONS:

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

The Average Monthly Electrical Power Level for MAY 88 = -2.85 MWe-Net

AVERAGE DAILY UNIT POWER LEVEL

DOCKET NO.	50-323
UNIT	2
DATE	06/08/88
COMPLETED BY	P. BEDESEM
TELEPHONE	(805)595-4097

MONTH: MAY 1988

DAY	AVERAGE DAILY POWER LEVEL	DAY	AVERAGE DAILY POWER LEVEL
1	1089	17	1088
2	1096	18	1088
3	1084	19	1088
4	1087	20	1084
5	1087	21	1063
6	1088	22	1084
7	1063	23	1083
8	1087	24	1083
9	1092	25	1089
10	1083	26	1088
11	1083	27	1088
12	1087	28	1067
13	1079	29	1088
14	1068	30	1084
15	1083	31	1084
16	1088		

INSTRUCTIONS:

On this format, list the average daily unit power level in MWe-Net for each day in the reporting month. Compute to the nearest whole megawatt.

The Average Monthly Electrical Power Level for MAY 88 = 1083.62 MWe-Net

UNIT SHUTDOWNS AND POWER REDUCTIONS
Page 1 of 1

DOCKET NO. 50-275
UNIT NAME Diablo Canyon Unit 1
DATE 06/08/88
COMPLETED BY D.D.MALONE
TELEPHONE (805)595-4859

REPORT MONTH MAY 1988

No.	Date	1 Type	Duration (Hours)	2 Reason	Method of 3 Shutdown	Licensee Event Report #	System 4 Code	Component 5 Code	Cause & Corrective Action to Prevent Recurrence
1	5/1/88	S	744	C	4	N/A	N/A	N/A	N/A

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from previous month
5-Power reduction
6,7,8-N/A
9-Other

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-1022)

5
Exhibit I - Same Source

UNIT SHUTDOWNS AND POWER REDUCTIONS
Page 1 of 1

DOCKET NO. 50-323
UNIT NAME Diablo Canyon Unit 2
DATE 06/08/88
COMPLETED BY D.D. MALONE
TELEPHONE (805)595-4859

REPORT MONTH MAY 1988

No.	Date	1 Type	Duration (Hours)	2 Reason	Method of 3 Shutdown	Licensee Event Report #	System 4 Code	Component 5 Code	Cause & Corrective Action to Prevent Recurrence
None									

1
F: Forced
S: Scheduled

2
Reason:
A-Equipment Failure (Explain)
B-Maintenance or Test
C-Refueling
D-Regulatory Restriction
E-Operator Training & License Examination
F-Administrative
G-Operational Error (Explain)
H-Other (Explain)

3
Method
1-Manual
2-Manual Scram
3-Automatic Scram
4-Continuation from previous month
5-Power reduction
6,7,8-N/A
9-Other

4
Exhibit G - Instructions for Preparation of Data Entry Sheets for Licensee Event Report (LER) File (NUREG-1022)

5
Exhibit I - Same Source

ENCLOSURE 1

DIABLO CANYON
BREAKWATER SETTLEMENT SURVEY

(T.31S.R.10E. M.D.B.&M.)
SW1/4, OF SW1/4, SEC. 24

CALIFORNIA STATE PLANE COORDINATES
ZONE 5

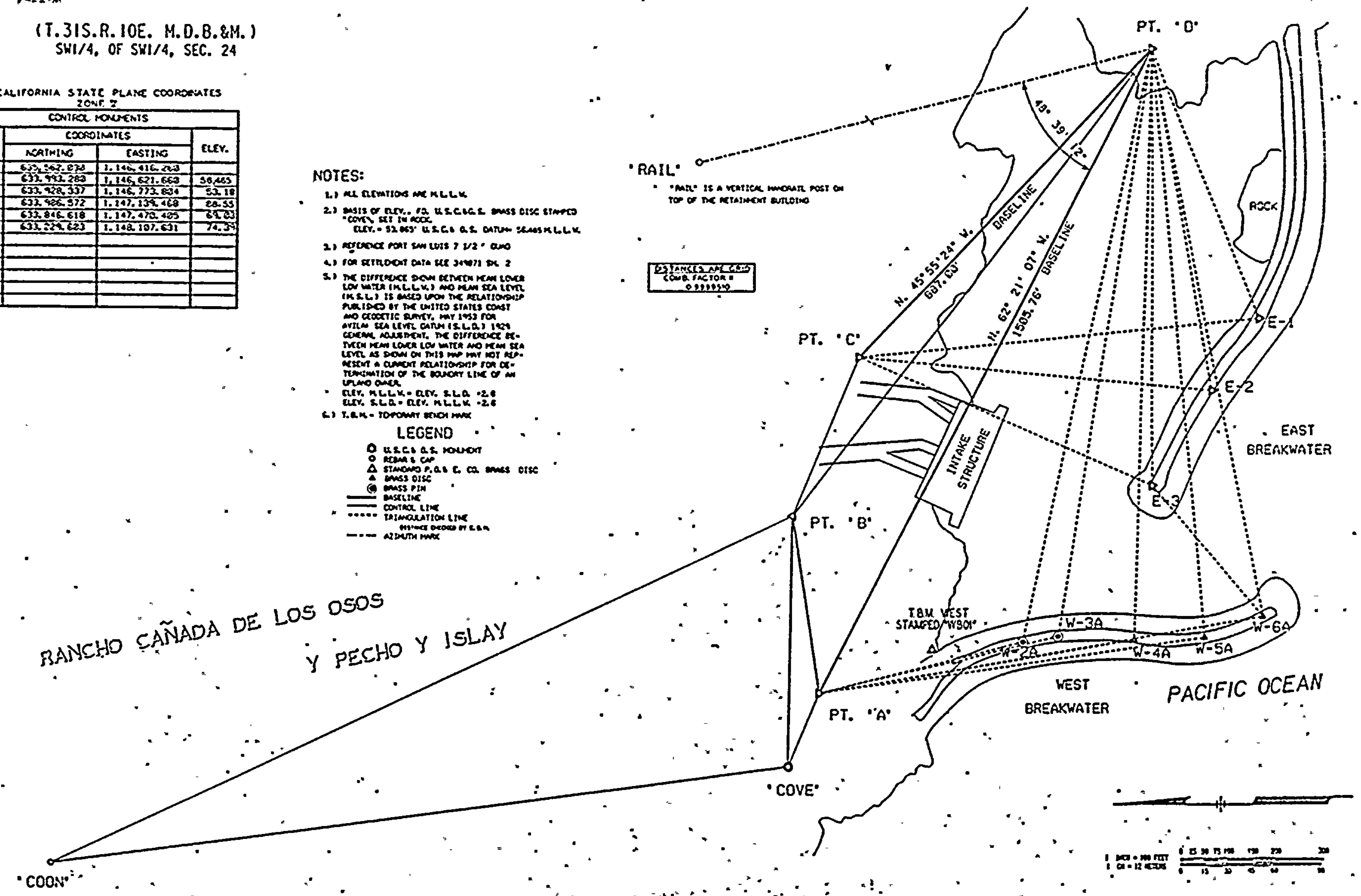
CONTROL MONUMENTS			
NAME	COORDINATES		ELEV.
	NORTHING	EASTING	
COON	633,562.838	1,146,416.263	
COVE	633,993.280	1,146,621.668	56.465
PT A	633,928.337	1,146,773.834	53.18
PT B	633,986.572	1,147,139.468	88.55
PT C	633,846.618	1,147,470.405	69.03
PT D	633,229.623	1,148,107.631	74.34

NOTES:

1.) ALL ELEVATIONS ARE M.L.L.W.
2.) BASIS OF ELEV., FD. U.S.C.&G.S. BRASS DISC STAMPED "COVE", SET IN ROCK.
ELEV. = 53.065' U.S.C.& G.S. DATUM= 56.465 M.L.L.W.
3.) REFERENCE PORT SAN LUIS 7 1/2 " QUAD
4.) FOR SETTLEMENT DATA SEE 349071 SH. 2
5.) THE DIFFERENCE SHOWN BETWEEN MEAN LOWER LOW WATER (M.L.L.W.) AND MEAN SEA LEVEL (M.S.L.) IS BASED UPON THE RELATIONSHIP PUBLISHED BY THE UNITED STATES COAST AND GEODETIC SURVEY, MAY 1953 FOR AVILA SEA LEVEL DATUM (S.L.D.) 1929 GENERAL ADJUSTMENT. THE DIFFERENCE BETWEEN MEAN LOWER LOW WATER AND MEAN SEA LEVEL AS SHOWN ON THIS MAP MAY NOT REPRESENT A CURRENT RELATIONSHIP FOR DETERMINATION OF THE BOUNDARY LINE OF AN UPLAND OWNER.
* ELEV. M.L.L.W. = ELEV. S.L.D. +2.8
ELEV. S.L.D. = ELEV. M.L.L.W. -2.8
6.) T.B.M. = TEMPORARY BENCH MARK

LEGEND

- U.S.C.& G.S. MONUMENT
- REBAR & CAP
- STANDARD P.G.& E. CO. BRASS DISC
- BRASS DISC
- BRASS PIN
- BASELINE
- CONTROL LINE
- TRIANGULATION LINE
- DISTANCE CHECKED BY E.D.M.
- AZIMUTH MARK



MICROFILMED 11/5/86 CHG. 3

SCALES: 1 INCH = 100 FT. 1 CENTIMETER = 12 METERS

DIABLO CANYON
BREAKWATERS SETTLEMENT SURVEY
PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO CALIFORNIA

349070

NOTE: Historical Survey Information

E - 1

DATE OBSERVED	NORTHING	EASTING	ELEV.
5/1/84	633,001.02	1,147,550.91	19.6[illegible]
3/1/85	633,001.03	1,147,550.93	19.63
DIFF. =	+0.01	+0.02	0.00
4/8/86	633,001.02	1,147,550.91	19.63
DIFF. =	-0.01	-0.02	0.00
3/30/87	633,001.01	1,147,550.92	19.63
DIFF. =	-0.01	+0.01	0.00
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E - 3

DATE OBSERVED	NORTHING	EASTING	ELEV.
5/1/84	633,225.47	1,147,203.01	19.1[illegible]
3/1/85	633,225.47	1,147,203.04	19.09
DIFF. =	0.00	+0.03	-0.01
4/8/86	633,225.48	1,147,203.02	19.09
DIFF. =	+0.01	-0.02	0.00
3/30/87	633,225.45	1,147,203.00	19.09
DIFF. =	-0.03	-0.02	0.00
DIFF. =	.	.	.
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W - 3A

DATE OBSERVED	NORTHING	EASTING	ELEV.
5/1/84	633,423.53	1,146,891.05	18.8[illegible]
3/1/85	633,423.54	1,146,891.06	18.83
DIFF. =	+0.01	-0.01	-0.02
4/8/86	633,423.53	1,146,891.05	18.8[illegible]
DIFF. =	-0.01	-0.01	-0.03
3/30/87	633,423.54	1,146,891.02	18.79
DIFF. =	+0.01	-0.03	-0.01
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W - 5A

DATE OBSERVED	NORTHING	EASTING	ELEV.
5/1/84	633,112.22	1,146,888.74	19.6[illegible]
3/1/85	633,112.22	1,146,888.76	19.63
DIFF. =	0.00	+0.02	-0.02
4/8/86	633,112.20	1,146,888.74	19.60
DIFF. =	-0.02	-0.02	-0.03
3/30/87	633,112.21	1,146,888.70	19.59
DIFF. =	+0.01	-0.04	-0.01
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E - 2

DATE OBSERVED	NORTHING	EASTING	ELEV.
5/1/84	633,099.23	1,147,400.37	19.4[illegible]
3/1/85	633,099.24	1,147,400.39	19.43
DIFF. =	+0.01	+0.02	0.00
4/8/86	633,099.23	1,147,400.38	19.43
DIFF. =	-0.01	-0.01	0.00
3/30/87	633,099.22	1,147,400.38	19.44
DIFF. =	-0.01	0.00	+0.01
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W - 2A

DATE OBSERVED	NORTHING	EASTING	ELEV.
5/1/84	633,499.74	1,146,880.05	19.2[illegible]
3/1/85	633,499.74	1,146,880.05	19.27
DIFF. =	0.00	0.00	-0.02
4/8/86	633,499.73	1,146,880.03	19.26
DIFF. =	-0.01	-0.02	-0.01
3/30/87	633,499.73	1,146,880.01	19.25
DIFF. =	0.00	-0.01	0.01
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W - 4A

DATE OBSERVED	NORTHING	EASTING	ELEV.
5/1/84	633,261.39	1,146,884.16	19.7[illegible]
3/1/85	633,261.39	1,146,884.17	19.74
DIFF. =	0.00	+0.01	-0.01
4/8/86	633,261.38	1,146,884.16	19.73
DIFF. =	-0.01	-0.01	-0.01
3/30/87	633,261.39	1,146,884.13	19.73
DIFF. =	+0.01	-0.03	0.00
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W - 6A

DATE OBSERVED	NORTHING	EASTING	ELEV.
5/1/84	632,990.07	1,146,932.06	19.81
3/1/85	632,990.08	1,146,932.08	19.80
DIFF. =	+0.01	+0.02	-0.01
4/8/86	632,990.05	1,146,932.09	19.79
DIFF. =	-0.03	+0.01	-0.01
3/30/87	632,990.08	1,146,932.05	19.79
DIFF. =	+0.03	-0.04	0.00
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NOTES:

1.) ALL ELEVATIONS ARE M.L.L.W.

2.) BASIS OF ELEV.: FD. U.S.C.&G.S. BRASS DISC STAMPED "COVE", SET IN ROCK.
ELEV. = 53.865' U.S.C.& G.S. DATUM 56.465 M.L.L.W.

3.) REFERENCE PORT SAN LUIS 7 1/2' QUAD

4.) DIFF. = DIFFERENCE IN SETTLEMENT DATA FROM YEAR TO YEAR

5.) THE DIFFERENCE SHOWN BETWEEN MEAN LOWER LOW WATER (M.L.L.W.) AND MEAN SEA LEVEL (M.S.L.) IS BASED UPON THE RELATIONSHIP PUBLISHED BY THE UNITED STATES COAST AND GEODETIC SURVEY, MAY 1953 FOR MEAN SEA LEVEL DATUM (S.L.D.) 1929 GENERAL ADJUSTMENT. THE DIFFERENCE BETWEEN MEAN LOWER LOW WATER AND MEAN SEA LEVEL AS SHOWN ON THIS MAP MAY NOT REPRESENT A CURRENT RELATIONSHIP FOR DETERMINATION OF THE BOUNDARY LINE OF AN UPLAND OWNER.
ELEV. M.L.L.W. = ELEV. S.L.D. +2.6
ELEV. S.L.D. = ELEV. M.L.L.W. -2.6

CALIFORNIA STATE PLANE COORDINATES
ZONE V

CONTROL MONUMENTS			
NAME	COORDINATES NORTHING	COORDINATES EASTING	ELEV.
COUN	633,562.033	1,146,416.2[illegible]	
COVE	633,993.283	1,146,621.663	56.465
PT A	633,928.337	1,146,773.824	53.12
PT B	633,986.572	1,147,139.468	88.55
PT C	633,646.618	1,147,473.435	69.0[illegible]
PT D	633,229.683	1,148,107.63[illegible]	74.3[illegible]

MICROFILMED 11/5/86 CHG. 4

AUTHORIZATION GM 54

DIABLO CANYON
BREAKWATERS SETTLEMENT SURVEY

PACIFIC GAS AND ELECTRIC COMPANY
SAN FRANCISCO CALIFORNIA

349071 14

DCPP BREAKWATER SURVEY RESULTS

	E - 1 COORDINATE			E - 3 COORDINATE			W - 3A COORDINATE			W - 5A COORDINATE		
DATE	N	E	ELEV	N	E	ELEV	N	E	ELEV	N	E	ELEV
05/01/84	633001.02	1147550.91	19.63	633225.47	1147203.01	19.10	633423.53	1146891.05	18.85	633112.22	1146888.74	19.65
03/01/85	633001.03	1147550.93	19.63	633225.47	1147203.04	19.09	633423.54	1146891.06	18.83	633112.22	1146888.76	19.63
DIFF:	.01	.02	.00	.00	.03	-.01	.01	.01	-.02	.00	.02	-.02
04/08/86	633001.02	1147550.91	19.63	633225.48	1147203.02	19.09	633423.53	1146891.05	18.80	633112.20	1146888.74	19.60
DIFF	-.01	-.02	.00	.01	-.02	.00	-.01	-.01	-.03	-.02	-.02	-.03
03/30/87	633001.01	1147550.92	19.63	633225.45	1147203.00	19.09	633423.54	1146891.02	18.79	633112.21	1146888.70	19.59
DIFF	-.01	.01	.00	-.03	-.02	.00	.01	-.03	-.01	.01	-.04	-.01
04/25/88	633001.01	1147550.90	19.63	633225.46	1147203.00	19.09	633423.51	1146891.02	18.76	633112.19	1146888.70	19.56
DIFF	.00	-.02	.00	.01	.00	.00	-.03	.00	-.03	-.02	.00	-.03

	E - 2 COORDINATE			W - 2A COORDINATE			W - 4A COORDINATE			W - 6A COORDINATE		
DATE	N	E	ELEV	N	E	ELEV	N	E	ELEV	N	E	ELEV
05/01/84	633099.23	1147400.37	19.43	633499.74	1146880.05	19.29	633261.39	1146884.16	19.75	632990.07	1146932.06	19.81
03/01/85	633099.24	1147400.39	19.43	633499.74	1146880.05	19.27	633261.39	1146884.17	19.74	632990.08	1146932.08	19.80
DIFF:	.01	.02	.00	.00	.00	-.02	.00	.01	-.01	.01	.02	-.01
04/08/86	633099.23	1147400.38	19.43	633499.73	1146880.03	19.26	633261.38	1146884.16	19.73	632990.05	1146932.09	19.79
DIFF	-.01	-.01	.00	-.01	-.02	-.01	-.01	-.01	-.01	-.03	.01	-.01
03/30/87	633099.22	1147400.38	19.44	633499.73	1146880.01	19.25	633261.39	1146884.13	19.73	632990.08	1146932.05	19.79
DIFF	-.01	.00	.01	.00	-.02	-.01	.01	-.03	.00	.03	-.04	.00
04/25/88	633099.22	1147400.38	19.43	633499.71	1146880.01	19.21	633261.36	1146884.14	19.70	632990.05	1146932.05	19.77
DIFF	.00	.00	-.01	-.02	.00	-.04	-.03	.01	-.03	-.03	.00	-.02

NOTE: Survey Information for 1988

ENCLOSURE 2

DIABLO CANYON
BREAKWATER PICTURES

DCPP E. BREAKWATER

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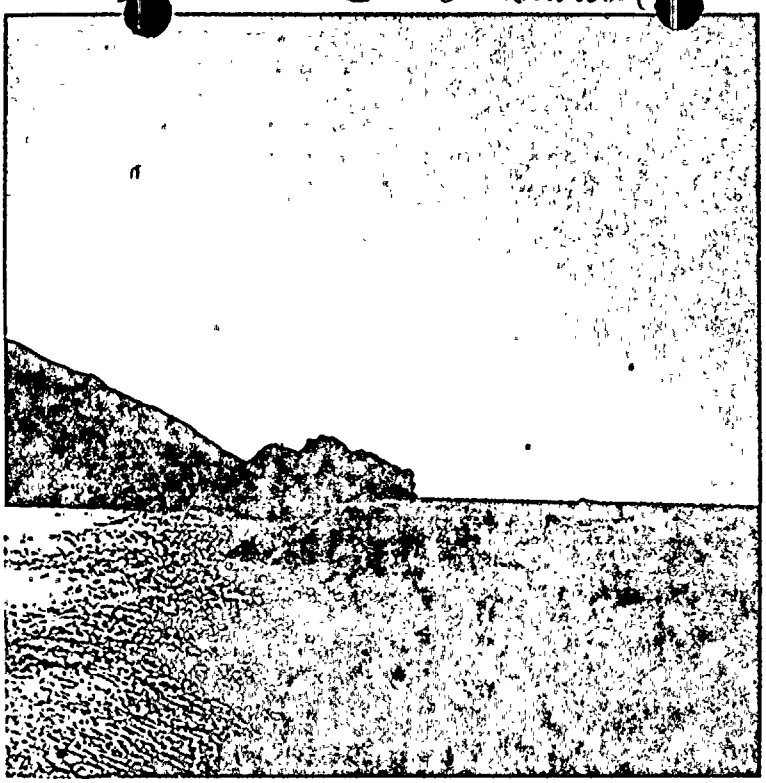
DCPP E. Breakwater



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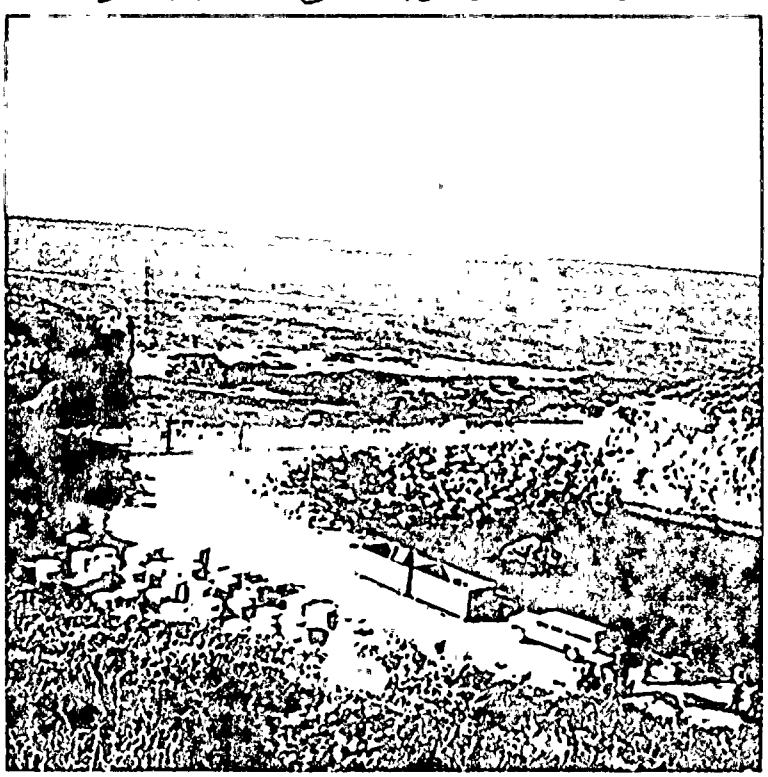
Breakwater Survey.

DCPP E. Breakwater



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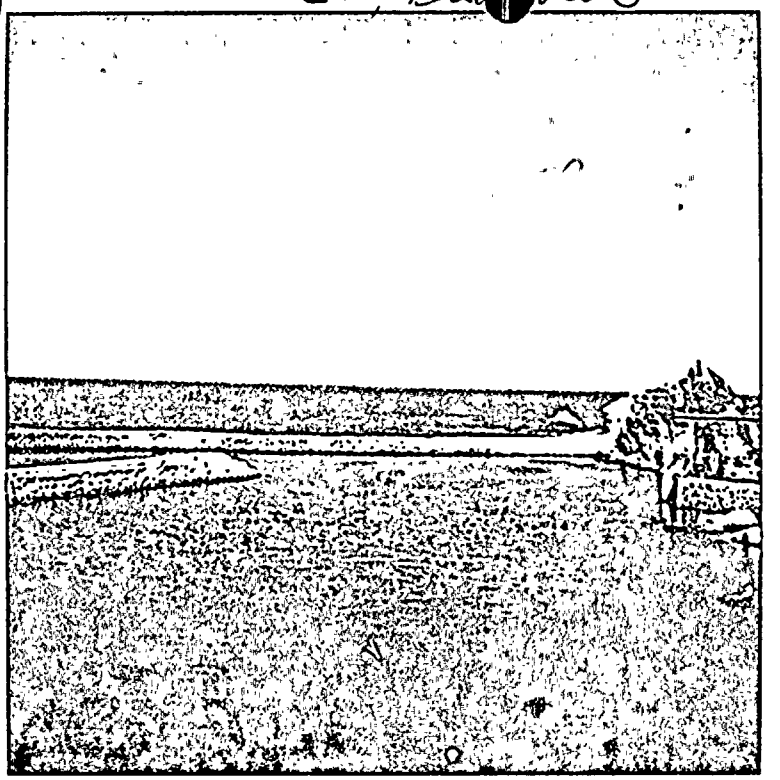
Breakwater Survey

DCPP E&W Breakwater



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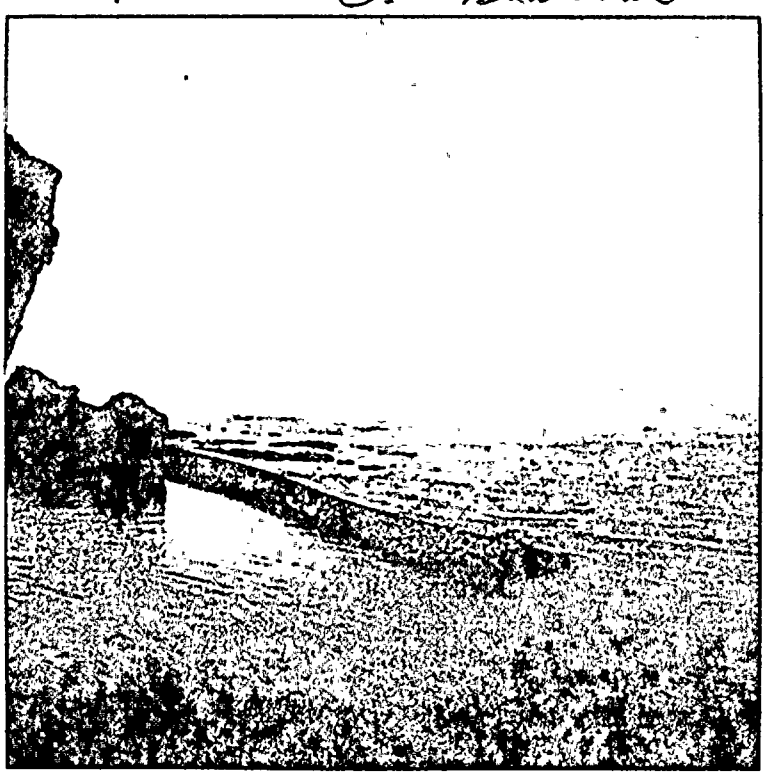
DCPP E. Breakwater



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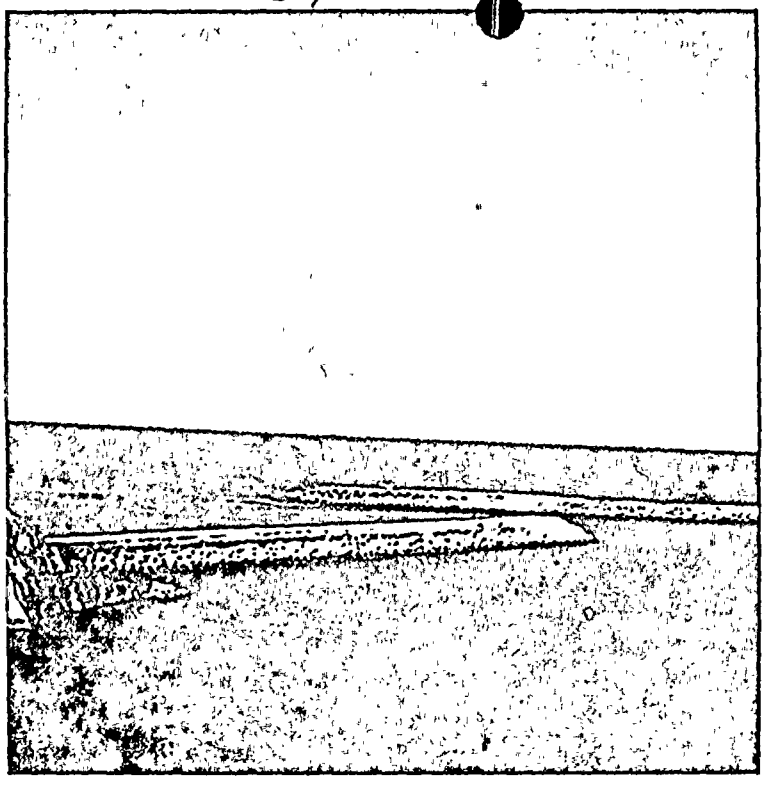
Breakwater Survey.

DCPP E&W Breakwater



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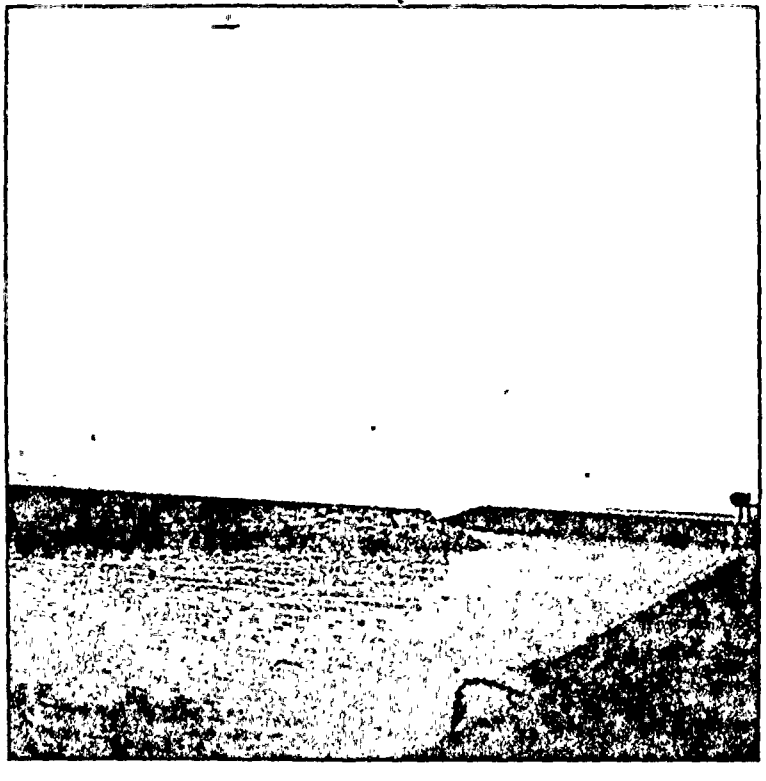
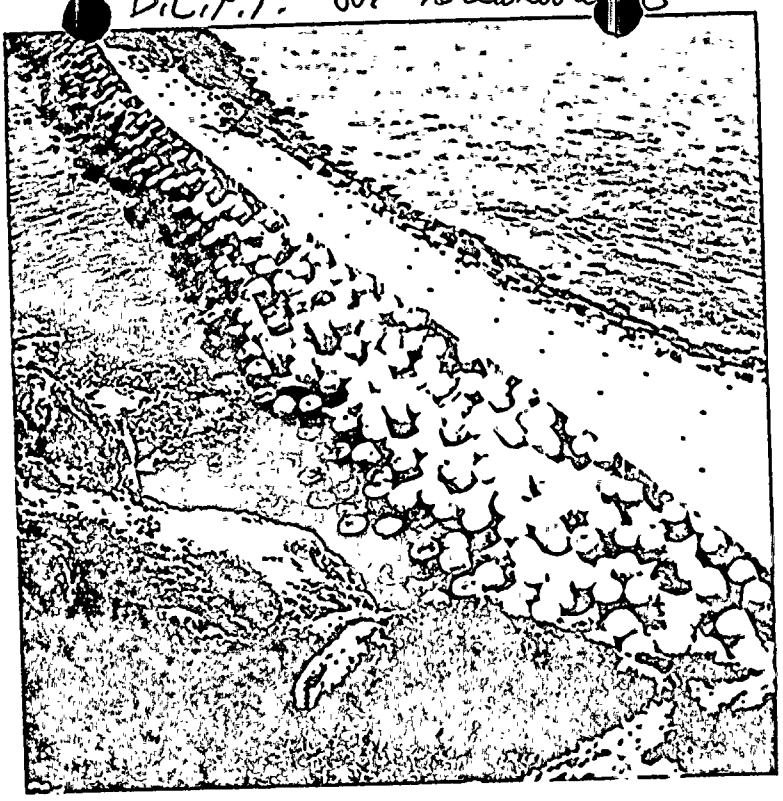
Breakwater Survey.

D.C.P.P. E&W. Breakwater



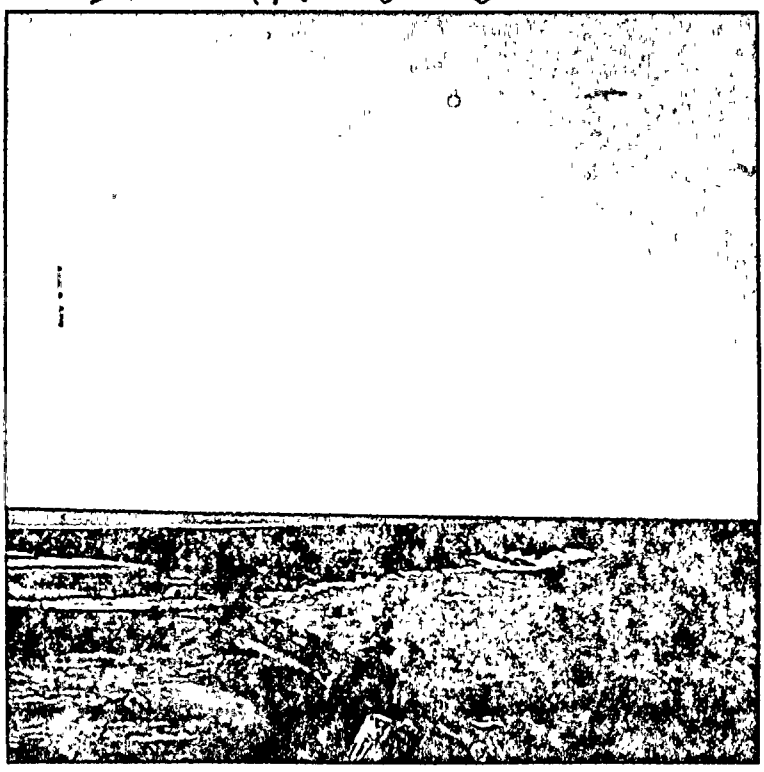
April 1989 Annual
Breakwater Survey.

D.C.P.P. W. Breakwater



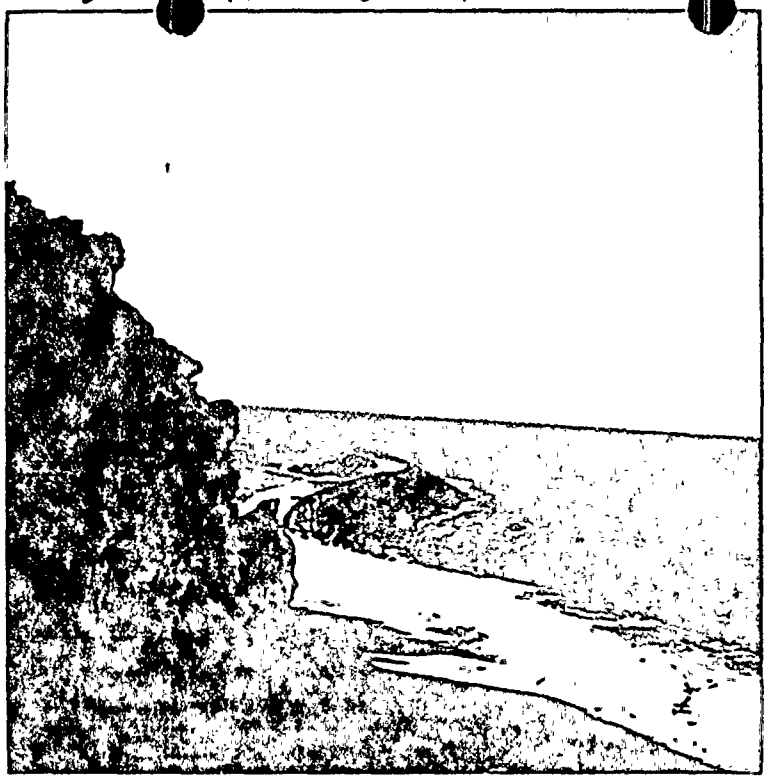
April 1988, Annual.
Breakwater Survey.

D.C.P.P. W. Breakwater.



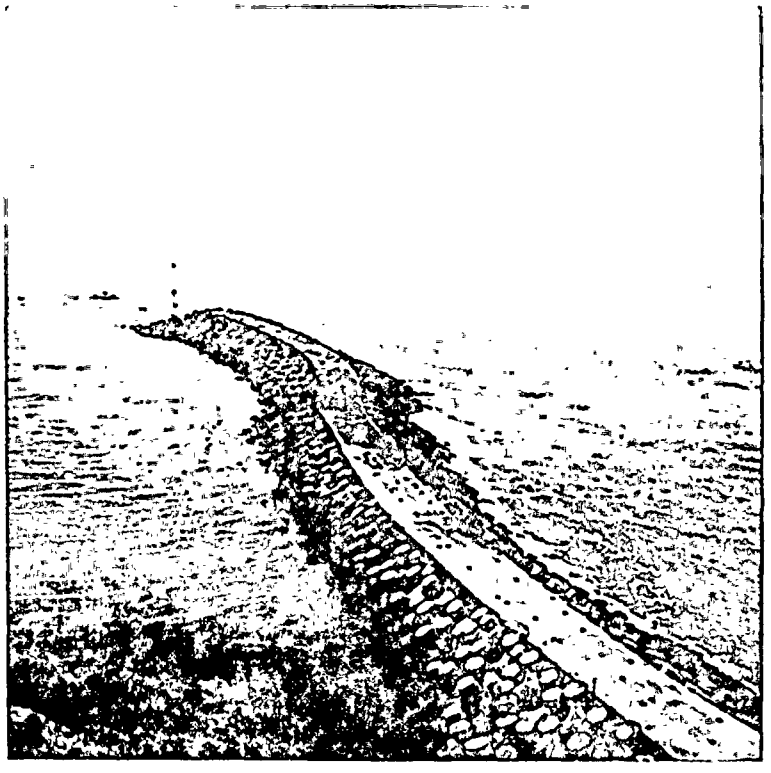
April 1986, Annual.
Breakwater Survey.

D.C.P.P. W. Breakwater



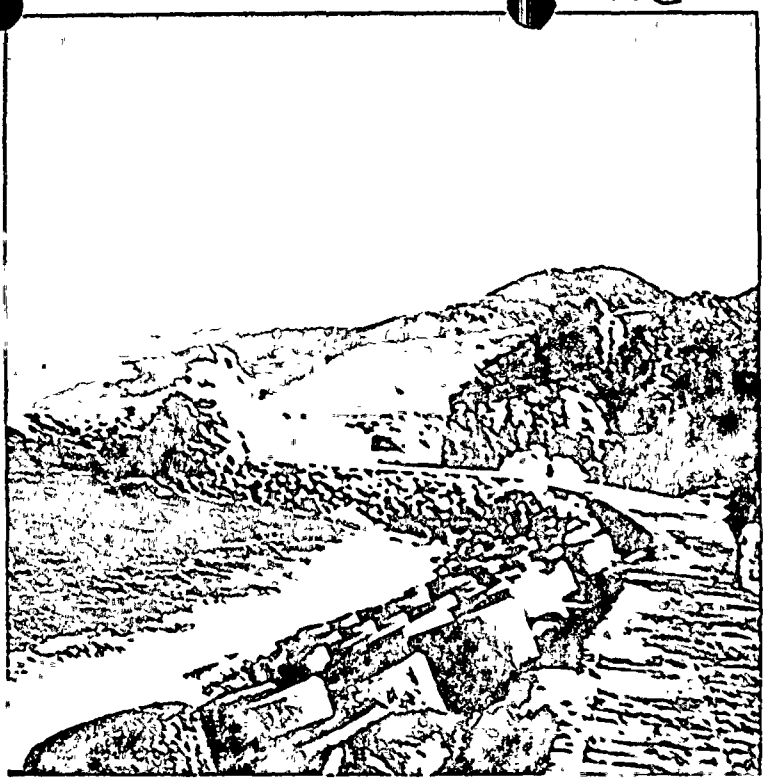
P.P. A - W Breakwater
April 1988

D.C.P.P. W. Breakwater



April 1988. Annual.
Breakwater Survey.

DCPP W. Breakwater



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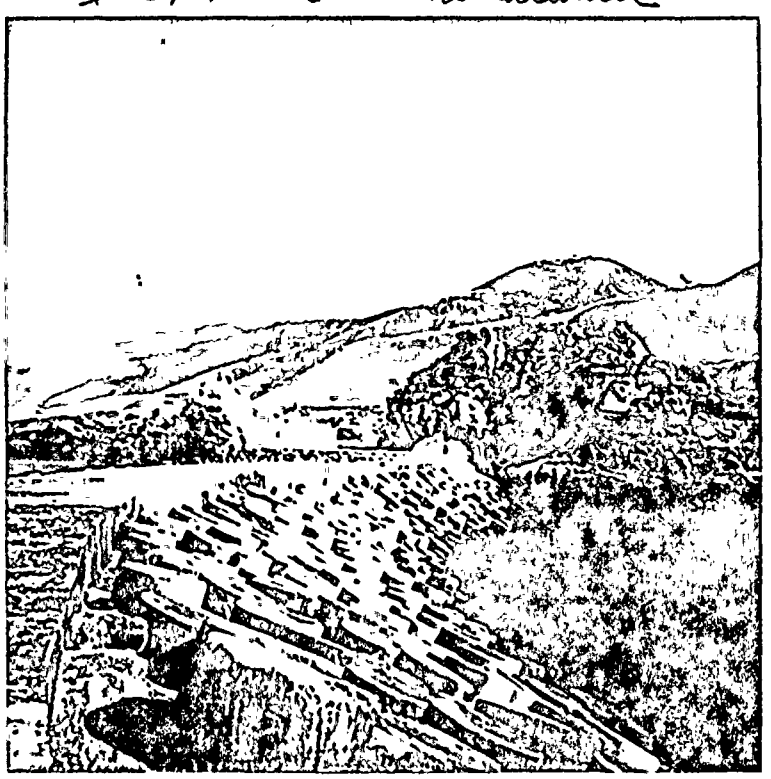
Breakwater Survey.

DCPP W. Breakwater



April 1988 Annual
Breakwater Survey.