TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

NUMBER STP M-90

REVISION 3

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1 AND 2

#### START DATA SECTION

R00 98551

PLANT OPERATING MODE\_ |

UNIT NO. 1+2\_

YES NO

#### 6.0 PRECAUTIONS AND LIMITATIONS

- 6.1 Person making breakwater inspection must wear a lifejacket at all times when walking down the breakwater.
- 6.2 Another person will accompany the person walking down the breakwaters to act as a safety observer.
- 6.3 All Precautions and Limitations have been read and understood.

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#### 7.0 PREREQUISITES

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- 7.1. A set of up-to-date National Oceanic and Atmospheric Administration (NOAA) tide tables for the California coastal region must be available for test use. These tables will be kept in the DCPP Engineering Department Performance Engineering Group files.
- 7.2 For a given month (November through April) in which a visual inspection is being made, use the NOAA tide tables to determine:
  - 7.2.1 Any high tide for the month which is greater than the Mean Lower Low Water Level (MLLW) and occurs during daylight hours. MLLW is (-)2.6 feet MSL, or 2.6 feet below mean sea level for the plant site.
  - 7.2.2 The day of the month on which it occurs.
  - 7.2.3 The time of day at which the selected high tide occurs.

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TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

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3

YES NO

7.2.4 Wave forecasts will be obtained from DER personnel at the intake cove's Oceanographic Laboratory. This data can be used to determine whether the breakwaters may be walked down safely.

CAUTION: Do not schedule a visual inspection of the breakwaters if DER wave forecasts predict high waves, or if a storm is in progress. Obtain DER input on advisability of a breakwater inspection, based on their wave predictions.

7.3 If it is determined that the sea is too rough to allow a walkdown of the breakwaters on the day originally selected, select an alternate day meeting the specifications in Step 7.2 above.

- 7.3.1 As wave conditions permit on the day chosen in either Step 7:2 or Step 7.3, the Test Director will proceed to perform the breakwater visual inspection. However. if walkdown of the breakwaters proves to be impossible for a given month, steps will be taken to visually inspect them from a sufficient vantage point to check their condition by other means than a walkdown. Specifically, if a walkdown cannot be performed, then from the vantage point cited above, the breakwaters will both be verified to be above MLLW. Also, any degradation signs, as delineated in Steps 5.2.1 through 5.2.5 of this procedure, that are observed will be noted on the surveillance test procedure per the instructions of Step 5.2.6 and photographed. Any photographs taken will be included with the completed test for that month.
- 7.4 Photographic data may be obtained from the Environmental Engineering Unit of the DER Ecological Services Group which shows the condition of each breakwater for the annual breakwater inspection and survey.

TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

NUMBER STP M-90 REVISION 3 PAGE 7 OF 18

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YES NO N/A

- 7.5 Survey results must be obtained from the General Office Land Department after the annual breakwater inspection and survey are complete.
- 7.6 Any additional photographs required as a result of monthly inspections will be obtained from the DER Ecological Services Group or by the plant staff.
- 7.7 Security will be notified that a walkdown of the breakwaters is planned. Notification will be made by the Test Director prior to the walkdown.
- 7.8 The keys to the locks on the gates barring access to the breakwaters will be secured prior to the walkdown. The gate padlocks require a No. 2 key.

#### 8.0 PROCEDURE

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#### 8.1 <u>Monthly Surveillance</u>

- 8.1.1 Verification of Breakwater Heights
  - a. From a suitable vantage point, visually verify that the full lengths of both east and west breakwaters are above MLLW. Basically, this consists of determining that the tide level at the time of inspection is greater than MLLW and that the full length of each breakwater is above this level.

Is the full length of each breakwater above mean lower low water level (MLLW)?\*

14 11

<sup>\*</sup>If not, identify which concrete cap section(s) on the affected breakwater(s) do not meet the Acceptance Criteria by circling it/them on Figure 1 and/or Figure 2 of this test procedure. Make reference to the section or sections of concern in the "Remarks" section of this test procedure.

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YES NO N/A If the answer to Step 8.1.1.a. above is "no", have 500 feet or more of either breakwater been reduced to less than MLLW? If this question is answered "yes", immediately notify the Shift Foreman, comply with the ACTION statement of Tech. Spec. 3.7.13, and submit an Action Request. If the answer to Step 8.1.1.b. C. above is "NO", approximately what length (in feet) of the affected breakwater(s) has been reduced to less than MLLW? (Assistance in determining this information may be obtained from the GC Civil

East Breakwater: Ft. West Breakwater:

Is the ACTION statement of Tech. Spec. 3.7.13 being complied with?

Engineering Department.)

#### 8.2 Walkdown of East Breakwater

8.2.1 Walk down the 17 concrete cap sections of the east breakwater and determine if: 1) any vertical or horizontal displacement of any cap section has occurred with respect to the other cap sections; 2) any cap section has cracked or lost material due to wave action and 3) any of the tri-bars which are in direct contact with any side of any cap section has cracked or lost material due to wave action. If any such conditions are observed, circle the affected cap section or sections or the approximate location(s) of the cracked/wave damaged tri-bar(s) on Figure 1 of this test procedure. If no displacement/damage is observed for a given cap section, simply mark N/A in the "Comments" space

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for that section. This instruction also applies for inspected tri-bars and the sea wall. Also, determine if the sea wall beyond the base of the breakwater (see Figure 1) has 1) cracked, 2) settled or 3) lost material due to wave action. If a walkdown cannot be performed for a given month, follow the pertinent instructions of Step 7.3.1 regarding breakwater visual inspection alternatives.

NOTE: Breakwater concrete cap sections are approximately 30 feet in length. If the lines of demarcation between the cap sections are not clearly visible, simply determine the condition of the cap in 30 foot lengths from its tip to its base.

CAP SECTION NO.**	COMMENTS	N/A
1	•	<u>N/A</u> [ 4]
2		[4
3		
4		

<sup>\*\*</sup>Refer to Figure 1 of this procedure for cap section numbering scheme.

TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

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AP SECTION NO.**	COMMENTS	
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<sup>\*\*</sup>Refer to Figure 1 of this procedure for cap section numbering scheme.

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TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

NUMBER STP M-90
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PAGE 11 OF 18
UNITS \_ 1 AND 2

	12	COMMENTS	<u>N/A</u>
,	13		.[]
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	16		. 14
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	SEA WALL		. 19
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<sup>\*\*</sup>Refer to Figure 1 of this procedure for cap section numbering scheme.

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# 8.3 Walkdown of West Breakwater

TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

8.3.1 Walk down the 29 concrete cap sections of the west breakwater. Follow the guidelines of the instructions of Step 8.2.1 of this procedure concerning making notations on Step 8.3.1 "Comments" spaces and Figure 2 to document any observed cap section displacement/cracking/wave damage or tri-bar cracking/wave damage. If a walkdown cannot be performed for a given month, follow the pertinent instructions of Step 7.3.1 regarding breakwater visual inspection alternatives. Circle any affected cap section/sections or cracked/wave damaged tri-bar approximate locations on Figure 2 of this procedure.

CAP SECTION NO.***	COMMENTS	N /A
1	* · · · · · · · · · · · · · · · · · · ·	<u>N/A</u> [ L)
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\*\*\*Refer to Figure 2 of this procedure for cap section numbering scheme.

TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

NUMBER STP M-90
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CAP SECTION NO.***	<u>COMMENTS</u>	<u>N/A</u> .
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\*\*\*Refer to Figure 2 of this procedure for cap section numbering scheme.

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TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

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CAP SECTION NO.***	COMMENTS	WALL NIZA
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14		
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17		[ ]
18		( <b>V</b>
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\*\*\*Refer to Figure 2 of this procedure for cap section numbering scheme.

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TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

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CAP SECT	COMMENTS  20	N/A 14
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<sup>\*\*\*</sup>Refer to Figure 2 of this procedure for cap section numbering scheme.

TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

NUMBER STP M-90 REVISION 3' PAGE 16 OF 18

UNITS 1 AND 2

CAP S	TION NO.*** COMMENTS	
	27	<u>N/A</u> [4]
	28	
	29	14
	ANASTASIO, JOYCE, Y Inspection/Walkdown performed by: WRIGHT, FONG, Co Date 4-16-92 Time 17:00	ronan, owary
8.4	Photographic Data	
	8.4.1 Attach to this completed test photographs of any cap section(s) found to be displaced/cracked/wave damaged and/or tri-bar(s) found to be cracked/wave damaged during the breakwater walkdowns.	
	NOTE: This data may be secured with the help of DER on-site personnel, who operate photographic equipment daily on the plant site. Also, plant personnel may obtain such data by taking required photographs	

<sup>\*\*\*</sup>Refer to Figure 2 of this procedure for cap section numbering scheme.

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TITLE: SURVEILLANCE OF DIABLO CANYON BREAKWATERS

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1 AND 2

YES NO

#### 8.5 Annual Survey Data

8.5.1 During the month in which the annual survey of the breakwaters is performed, walk down and visually inspect the breakwaters per the instructions of Sections 8.1 through 8.4 above. If a walkdown of the breakwaters is impossible, follow the instructions of Step 7.3.1. above. Secure copies of the results of the breakwater surveys from the General Office Civil Engineering Department and reproductions of photos taken of the breakwaters during the surveys. Attach this data to the completed procedure.

#### 9.0 DATA REDUCTION AND REPORTING OF RESULTS

- 9.1 Verify Acceptance Criteria have been satisfied:
  - 9.1.1 Does each Breakwater meet the Acceptance Criteria of this procedure?

[4 []1

- 9.2 If the Acceptance Criteria are not met, initiate an ACTION REQUEST and immediately notify the Shift Foreman. AR#\_\_\_\_\_\_
- 9.3 REMARKS: Explain any NO or N/A entries in any of the data and list any discrepancies found:

If either or both breakwaters do not meet the test Acceptance Criteria, submit an Action Request and comply with the ACTION statement of Tech. Spec. 3.7.13. If 500 feet or more of either or both of the breakwaters do not meet the Acceptance Criteria, immediately notify the Shift Foreman, comply with ACTION statement b. of Tech. Spec. 3.7.13 immediately, and then submit an Action Request and comply with ACTION statement a. of Tech. Spec. 3.7.13.

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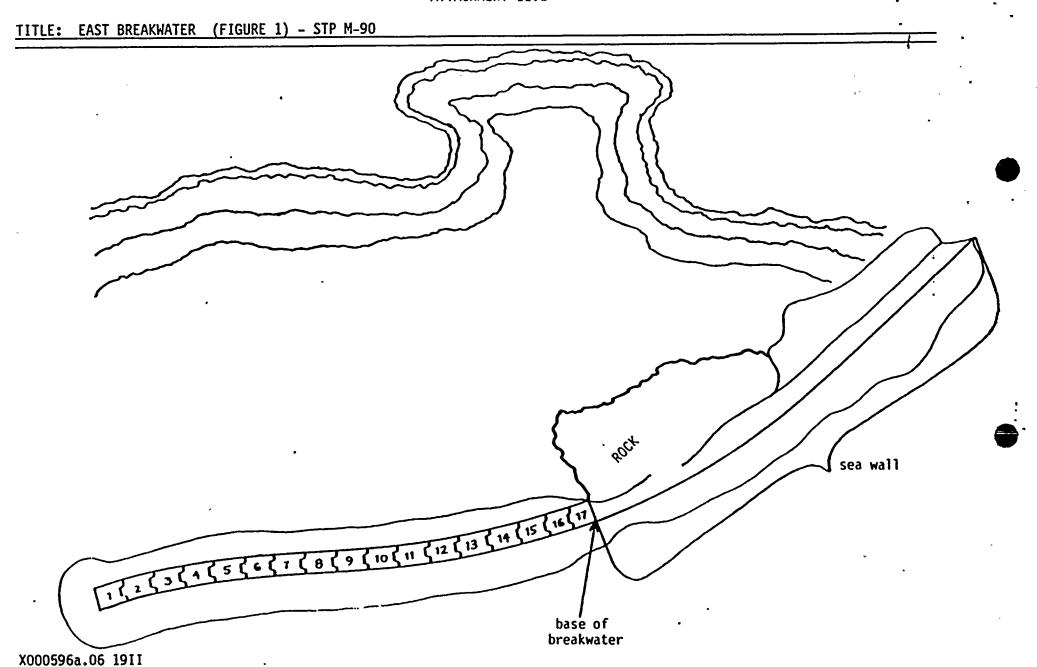
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	9.4	If this test was a complete test and both Breakwaters met the Acceptance Criteria, then update the Master Surveillance Schedule per AP C-3S1.	,	
		9.4.1 Was the Master Schedule updated?	14	[ ]
	9.5	Performed by (PPE):		
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C!	9.6	Forward completed procedure to the Test		
		Coordinator (TC).	W	•
rude Lude	9.7	(TC) Distribute procedure to PPE.	M	[]
•===	9.8	(PPE) Review procedure for completeness and acceptability.	W	ſ j
^	9.9	REMARKS: <u>Annul Survey Rosults Attachel</u>		
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0	9.10	Reviewed by (PPE): Wan Comen Date	te <u>4/</u>	27/92
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9:11 CA copy of this completed and reviewed test has been submitted to the Regulatory Compliance Dept. [4] (PPE) Submit completed procedure to the Test Coordinator for filing. 9.12

Test Coordinator - Plane Do THIS D
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# PACIFIC GAS AND ELECTRIC COMPANY DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2 ATTACHMENT 11.1



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Arun Sudhaker@NECSCE@SFNPG

Bcc:

From:

JEA3@SysEng@DCPP

Subject:

BREAKWATER SURVEY RESULTS

Date:

Friday, April 17, 1992 15:25:37 PDT

Attach:

Certify:

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Forwarded by:

The annual breakwater surevey requried per technical specification 3/4.7.13 has been completed by Tech Services Engineering. As usual, no net displacement of the breakwater survey points was detected.

The following survey results can be referenced to drawing 349070.

point	northing	3	easting		elevation
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E-12	633099.22	1147400	.33	19.44	• •
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This information is to be included in the MAY operating report. Photographs will be provided to Reg Compliance.

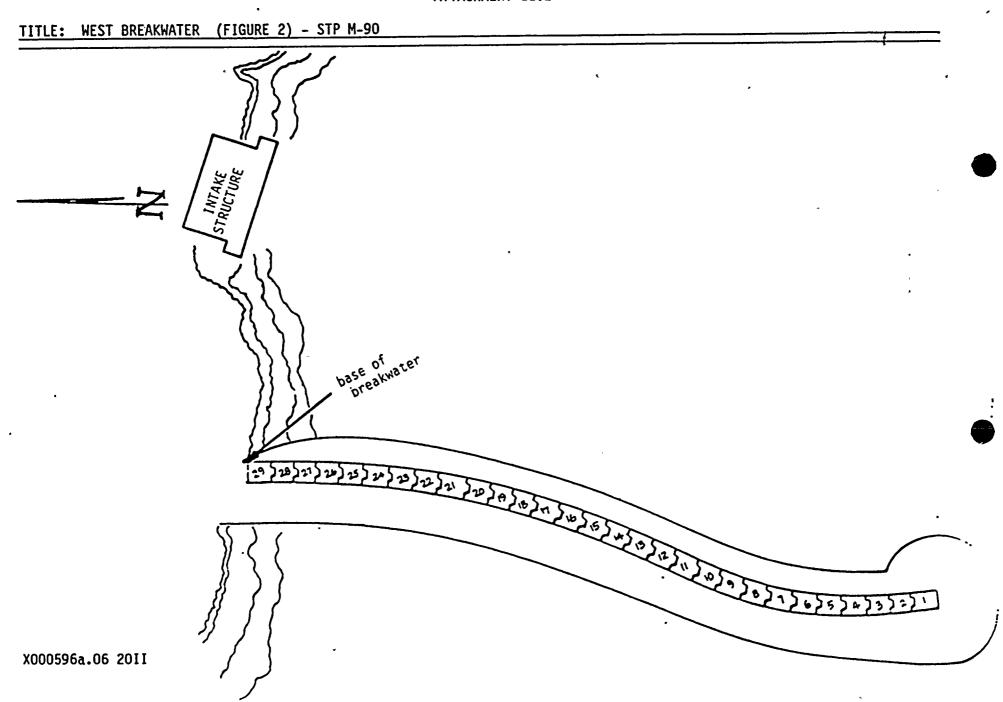
Joe Anastasio

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#### PACIFIC GAS AND ELECTRIC COMPANY DIABLO CANYON POWER PLANT UNIT NOS. 1 AND 2 ATTACHMENT 11.2



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#### 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 03/01/85	633001.02 1147550.91 19.63 633001.03 1147550.93 19.63	633225.47 1147203.01 19.10 633225.47 1147203.04 19.09	633423.53 1146891.05 18.85 633423.54 1146891.06 18.83	633112.22 1146888.74 19.65 633112.22 1146888.76 19.63
03/01/85 DIFF:	633001.03 1147550.93 19.63 .01 .02 .00	.00 .0301	.01 .0102	.00 .0202
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	0102 .00 633001.01 1147550.92 19.63	.0102 .00 633225.45 1147203.00 19.09	010103 633423.54 1146891.02 18.79	0203 633112.21 1146888.70 19.59
03/30/87 DIFF	01 .01 .00	0302 .00	.010301	.010401
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 56
DIFF	633001.00 1147550.91 19.64	633225.46 1147202.98 19.09	03 633423.50 1146891.03 18.82	633112.19 1146888.75 19.59
05/17/89 DIFF	01 .01 .01	.0002 .00	01 .01 .06	.00 .05 .03
05/30/90	633001.00 1457550.89 19.65	633225.44 1147202.97 19.08	633423.50 1146891.06 18.77	633112.16 1146888.70 19.58 030501
DIFF	.0002 .01 1.00 50.90 17.61	020101 25.33 01.47 19.05	.00 .0305 413.55 890.76 18.76	
6/3/41	1.00 50.90 17.61	25.34 02.47 19.05	7(7, 3) 010.10 17.40	•
•	E - 2 COORDINATE	W - 2A COORDINATE	W - 4A COORDINATE	W - 6A COORDINATE
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05/01/84	N E ELEV 633099.23 1147400.37 19.43	N E ELEV 633499.74 1146880.05 19.29	N E ELEV 633261.39 1146884.16 19.75	N ELEV 632990.07 1146932.06 19.81
05/01/84 03/01/85 DIFF:	N E ELEV 633099.23 1147400.37 19.43 633099.24 1147400.39 19.43 .01 .02 .00	N E ELEV 633499.74 1146880.05 19.29 633499.74 1146880.05 19.27 .0002	N ELEV 633261.39 1146884.16 19.75 633261.39 1146884.17 19.74 .00 .0101	N E ELEV 632990.07 1146932.06 19.81 632990.08 1146932.08 19.80 .01 .0201
05/01/84 03/01/85 DIFF: 04/08/86	N E ELEV 633099.23 1147400.37 19.43 633099.24 1147400.39 19.43 .01 .02 .00 633099.23 1147400.38 19.43	N E ELEV 633499.74 1146880.05 19.29 633499.74 1146880.05 19.27 .0002 633499.73 1146880.03 19.26	N ELEV 633261.39 1146884.16 19.75 633261.39 1146884.17 19.74 0001 633261.38 1146884.16 19.73	N E ELEV 632990.07 1146932.06 19.81 632990.08 1146932.08 19.80 .01 .02 .01 632990.05 1146932.09 19.79
05/01/84 03/01/85 DIFF: 04/08/86 DIFF	N ELEV 633099.23 1147400.37 19.43 633099.24 1147400.39 19.43 01 02 00 633099.23 1147400.38 19.43	N E ELEV 633499.74 1146880.05 19.29 633499.74 1146880.05 19.27 02 633499.73 1146880.03 19.26 01	N ELEV 633261.39 1146884.16 19.75 633261.39 1146884.17 19.74 0101 633261.38 1146884.16 19.73 010101	N E ELEV 632990.07 1146932.06 19.81 632990.08 1146932.08 19.80 632990.05 1146932.09 19.79 0301
05/01/84 03/01/85 DIFF: 04/08/86 DIFF 03/30/87 DIFF	N E ELEV 633099.23 1147400.37 19.43 633099.24 1147400.39 19.43 .01 .02 .00 633099.23 1147400.38 19.43 .01 .00 .01	N E ELEV 633499.74 1146880.05 19.29 633499.74 1146880.05 19.27 .0002 633499.73 1146880.03 19.26 010201 633499.73 1146880.01 19.25	N ELEV 633261.39 1146884.16 19.75 633261.39 1146884.17 19.74 .00 .0101 633261.38 1146884.16 19.73 0101 633261.39 1146884.13 19.73 .0103 .00	N E ELEV 632990.07 1146932.08 19.81 632990.08 1146932.08 19.80 .01 .02 -01 632990.05 1146932.09 19.79 03 .01 -01 632990.08 1146932.05 19.79 .0304 .00
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	D eev	W-ZK	4.75	5,035		267/29 158	125827	1257.08	~54.87	JEA	PT 19.
ý -z <b>19</b> 10	0	M-5 V	4,75	5.035	344 <u>/</u> 45 37		1258.78	1257,08	+54.91	TEA_	PT ZO
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	, O	W-3A	4.75	5,02	341/2 <u>1</u> /36	-	1233,30	1232.06	~ <del>55</del> ,35	JEA PEY	PTZZ
<u>د:</u>	D en	W-5A	4.75	4.87	326 /51 /07	267/26 128	1225,88	1224,66	-54,70	JEA	PF 23 (Checked on
٠ جب	D	W-5A	4.75	4.84	326/57 107	42/33 /37	1,225,88	1224.66	-54.72	JEA . PEY	Pray
	Dr.	W-64	4.75	4.96	320/50 /07	267/24 107	1201,04	1199,81	~54,41	JEA	17 25
2	<b>D</b> .	W-617	4.75	4.96	320/50 106	92/35 /47	1201.04	1 199.81	<b>~54,38</b>	TEA PEY	٥٢ ٦٩
. O	Dreve .	W-4B	·-4.75	5,12	333/50 /29	767/27	12.25,20	1224,00	-54,28	JEN	wimd PT   27
,	מ	W-414	4,75	5.12	333/50 126	92/32 /24	1225.21	1224.01	-54.28	JEA	15 28
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Point A" BASE	-44	Point A		4.16				1			era wana isal
Paint 19		Pont A	4,75	4.75	_0_	30/44	1506,04	1505.88	-21,75	TEA	Starting
Point D	)	Pont A.	4, 15	4.16	0_	90/44 52	1506.04	1505,8	-21.86	3EV	
Point D Revens	) 	Point A	4.35.	4.16	179/-	269/10 112	1500	1505,89	-21.7	JEA	'n ws
Point D		E-3	4.75	4,99	332/	93/29	906,36	9,04,69	- 55,06	JEN	PT 13
M. Point D. Revoce	)	·P+ A	4,75	4.1.6	179/54 54	261/	1506.05	1505,87	-21.50	TEN	
Point (		E-3	4,75	4.99	152/05 352 120	Z 66/ 30/52	906.37	904,69	-55.09	TEA	14
Point	0	·A-	4,75	416	0	90/49	_	1505.85	-2134	JEA	•
or food	P	E-2	4.75	5,18	321/sy 305	94 /20 1+005		719.23	-54,51	AFC	PT 15
17 Point	0	A	4,75	4.16	-;						
POWL C	<b>,</b>	E-2	4.75	5.18	34/54 18	24/20 1\$	721,28	719.21	-54.53	JEA MOW	PT 16
. D Revose		A	425	4.16	179/59 46 54+0	269/10 /45	1506.04	1505,89	-21.81	TEA	
Donar		EU	4.75	513	310/0)	2 64/50 16	604.31	601.86	- 5-4.38	JEA	PT 17
D		E-1	4,35	5.13	310/01 59	95/09 58	604,32	60,86	-57.41	JEA	PT 18
,								•			

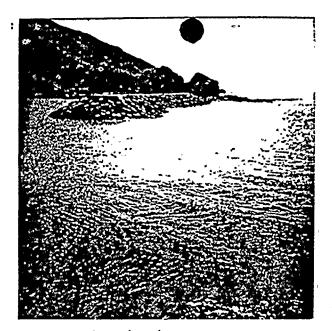
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Dreak meter Durvey Data

			,									
4		Theod.	Target Loc.	HINN	Hong	Horis Angle	Vert Angle	Slope Start	Horie. Dist	Vert Ost	Rid (Thitial)	(Write Grall)
-		A	О	533/16" 4.43	4.47	.0.	6/11/35	1506.04	150589	-21,26	JEA	START
7	RIA	G 1	W-2A	4.43	5.00	48-26	94-19 -39	44288	441.62	-33.42	JEA TLJ	
	z •	A. PT 4	WAK	4.43	5.00	48-26	265-40 -20	.ૡૡઌૢૢૢૢૢૢૹ	त्राहा.	-33,72	JED	-
		A <sup>PT 5</sup>	برا-3A	¥	5.06	49-16	93-43	519.38	518.27	-33.80	JEA TCJ	
	ගෙ	(2) A	W-3A		5.00	49-16	206-16 -05	519-37	518.27	-33.80	TCJ JGA	
-	2 3	PT7  D A	in-4A		4.76	52-57 -27	92-48 -23	676,88	674.06	-33.13	JEA TCJ	vibation due to
•	<u> </u>	2 A	W- 4A	1	4.76	307-02 -37	2157-11 -32	474.88	676.00	-33.16	TCJ JEA	
		. PT9	W-577		4.76	54-20 -14	92-18 _40	४८५.१०	824.23	-33.25	JEA tcs	
	cv.	2 A	W-54		1-1	54-20 -07	4267- 41-15	824.87	824.20	-33.27	TCJ JEA	
٢	<u></u>	15 H	IN-6A		7. 68	52-46 -49	91-59 45		951.56		JE4	
نى	· -	② A	1M-10A	*	11 1	52-45 -36	-15		951.50	-33.14	TCJ POT	Wind Publics Not used
j	<b>`</b>	3 PTIZ SHOT	W-10K		4.68	52-46 -41	91-59 - 49	952.14	951-56	- 33.15	Jon Tot	
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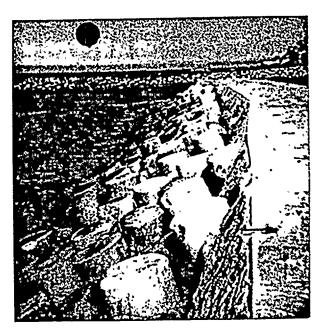
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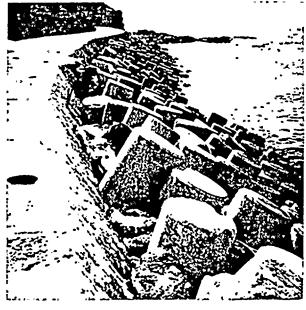


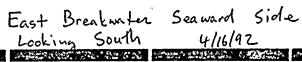
East Breakwater

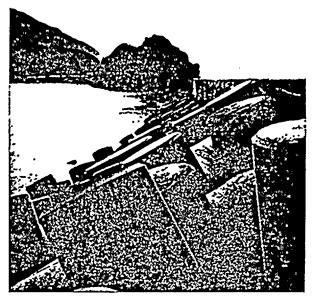
4/16/12



East Brenkwater Seward Side Looking North 4/16/92

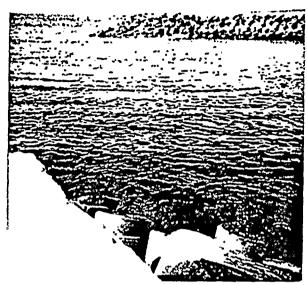




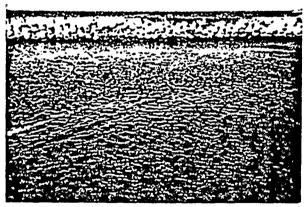


East Brenkwiter Shore side Looking South 4/16/92

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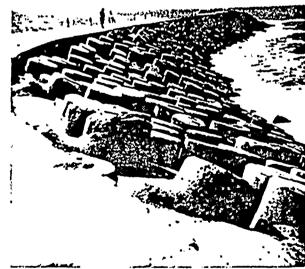


West Brenkwater, End 4/16/92



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West Breakwaln. Viow from shore 4/14/92



West Brenkwater Sea-nerd side 4/16/92

Spring market

Viow from shore 4/16/12



West Brankwater Shore Side Looking to shore 4/16/42

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