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February 5, 2001

PG&E Letter DCL-01-009

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Docket No. 50-275, OL-DPR-80  
Diablo Canyon Unit 1  
Inservice Inspection Report for Unit 1 Tenth Refueling Outage

Dear Commissioners and Staff:

In accordance with ASME Section XI, paragraph IWA 6230, enclosed is the Diablo Canyon Inservice Inspection Report. This report provides the results of the Unit 1 tenth refueling outage inservice inspections of Class 1 and 2 components and supports.

Sincerely,

Lawrence F. Womack

cc: Ellis W. Merschoff  
David L. Proux (w/o enc.)  
Girija S. Shukla  
State of California  
Diablo Distribution (w/o enc.)

Enclosure

DDM/469/A0500043

A047

**INSERVICE INSPECTION REPORT FOR  
DCPP UNIT 1 TENTH REFUELING OUTAGE**

Diablo Canyon Power Plant

Unit 1

USNRC Docket No. 50-275

Operating License No. DPR-80

Commercial Operation Date, May 7, 1985

Prepared By: \_\_\_\_\_

ISI Specialists: Thomas L. Alcott, and Terry G. Carraher

Reviewed By: \_\_\_\_\_

James Hill, Lead ISI Specialist

Approved By: \_\_\_\_\_

Jacqueline Hinds, Director Technical Support Engineering

This report is submitted as required by ASME Boiler and Pressure Vessel Code, Section XI, to the United States Nuclear Regulatory Commission.

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**SECTION A**  
**INTRODUCTION**

## SECTION A

### INTRODUCTION

Inservice inspection (ISI) of scheduled ASME Section XI Class 1 and 2 components and their supports at Pacific Gas and Electric Company's Diablo Canyon Power Plant (DCPP) Unit 1 was completed during the tenth refueling outage from October through November, 2000. The DCPP Unit 1 tenth refueling outage (1R10) was the first outage in the second period within the second 10-year ISI interval.

This report is submitted as required by ASME Section XI, paragraph IWA-6220, and is organized in several sections. An introduction is provided in Section A. Section B contains the completed ASME Code Data Report Form NIS-1 for Class 1 and 2 components. Sections C and D detail the Class 1 and 2 examinations performed, date of examination (for group items or for more than one type of examination performed, the date provided is the most recent examination date), any unusual conditions noted, corrective actions if required, and explanatory remarks. A number of welds were selected for examination this period to facilitate phase-in of a Risk-Informed ISI program, scheduled for submittal under separate cover during 2001.

System pressure tests on Class 1 and 2 systems conducted during 1R10 are reported in Section E.

Preservice inspections were performed on certain components, as required after repairs or replacements. These items are detailed in Section F.

Section G of this report, Repairs and Replacements, contains the completed ASME Code Data Report Form NIS-2 for those 1R10 work packages closed prior to December 18, 2000 and for any pre-1R10 work packages closed after April 15, 1999. NIS-2 reports for 1R10 work packages that are closed after December 17, 2000 will be included in the next outage report. Corrective actions and work order package documentation are on file at DCPP and are referenced by work order number in the NIS-2 reports.

Containment exams are reported in Section H.

**SECTION B**

**ASME CODE DATA NIS-1 FORMS**

**FORM NIS-1 OWNER'S DATA REPORT FOR INSERVICE INSPECTIONS**  
**As required by the Provisions of the ASME Code Rules**

1. Owner Pacific Gas & Electric Company, 77 Beale St., San Francisco, CA 94106
2. Plant Diablo Canyon Power Plant, P.O. Box 56, Avila Beach, CA 93424
3. Plant Unit One 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 05/07/85 6. National Board Number for Unit N/A
7. Component Inspected ASME Code Class 1 Items

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering Westinghouse	CE 66104	11475-76	20760
Steam Gen 1-1	Westinghouse	1041	N/A	68-12
Steam Gen 1-2	Westinghouse	1042	N/A	68-13
Steam Gen 1-3	Westinghouse	1043	N/A	68-14
Steam Gen 1-4	Westinghouse	1044	N/A	68-15
Class 1 Valves	Various	N/A	N/A	N/A
Class 1 Supports	Various	N/A	N/A	N/A
Class 1 Piping	Wismer & Becker/Kellog	N/A	N/A	N/A
Pressurizer	Westinghouse	1051	N/A	68-30

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (back)

8. Examination Dates 10/00 to 11/00 9. Inspection Interval from 9<sup>th</sup> to 10<sup>th</sup>
10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Refer to ISI Report
11. Abstract of Conditions Noted. Refer to ISI Report
12. Abstract of Corrective Measures Recommended and Taken. Refer to ISI Report

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date January 31 20 01 Signed Technical Support Manager By Jacqueline R. Girib  
Owner

Certificate of Authorization No. (if applicable) \_\_\_\_\_ Expiration Date \_\_\_\_\_

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of California and employed by H. S. B. I. & I. Co. of Harford, CT have inspected the components described in this Owners' Data Report during the period 10/00 to 11/00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Jan. 31, 20 01  
Kenny L. Kim Commissions CA 1828, NB 9990 A.N.I.C.  
Inspector's Signature/Kenny Kim National Board, State, Province and No.



FORM NIS-1 (back)

- 8. Examination Dates 10/00 to 11/00 9. Inspection Interval from 9<sup>th</sup> to 10<sup>th</sup>
- 10. Abstract of Examinations. Include a list of examinations and a statement concerning status of work required for current interval. Refer to ISI Report
- 11. Abstract of Conditions Noted. Refer to ISI Report
- 12. Abstract of Corrective Measures Recommended and Taken. Refer to ISI Report

We certify that the statements made in this report are correct and the examinations and corrective measures taken conform to the rules of the ASME Code, Section XI.

Date January 31, 20 01 Signed Technical Support Manager By Jacqueline P. Hinds  
Owner

Certificate of Authorization No. (if applicable) \_\_\_\_\_ Expiration Date \_\_\_\_\_

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of California and employed by H. S. B. I. & I. Co. of Harford, CT have inspected the components described in this Owners' Data Report during the period 10/00 to 11/00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owners' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Jan. 31 2001  
Kenny L. Kim Commissions CA 1828, NB 9990 A.N.I. C.  
Inspector's Signature/Kenny Kim National Board, State, Province and No.

**SECTION C**  
**CLASS ONE COMPONENTS**

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
 (1R10)  
 ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-A							
B1.22	Head Welds - Meridional	RPV 1 Closure Hd	1-446C	UT	10-17-00	53% coverage due to lifting lugs. Relief Request NDE-3, R1 granted 10-15-98	NRI
	Head Welds - Meridional	RPV 1 Closure Hd	1-446D	UT	10-17-00	42% coverage due to lifting lugs. Relief Request NDE-3, R1 granted 10-15-98	NRI
B1.40	Head to Flange Weld (1/3)	RPV 1	6-446A	MT	10-17-00	Exam from stud hole 18 thru 36.	NRI
	Head to Flange Weld (1/3)	RPV 1	6-446A	UT	10-17-00	76% coverage due to lifting lugs and flange configuration. Exam from stud hole 18 thru 36. Relief Request NDE-5 granted 10-15-98.	NRI
B-G-1							
B6.10	RPV1 Closure Head Nuts	RPV Bolting > 2" diam.	RPV1 Nuts 19 to 36	MT	10-19-00		NRI
B6.30	RPV1 Closure Hd Studs (Removed)	RPV Bolting > 2" diam.	RPV1 Studs 19 to 36	MT	10-19-00		NRI
B6.50	RPV1 Closure Washers	RPV Bolting > 2" diam.	RPV1 Washer 19 to 36	VT-1	10-18-00		NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
(1R10)  
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PRESSURIZER

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-B							
B2.11	Shell to Upper Hd. Circ Weld (1/3)	Pressurizer 1	Girth 5 - one third	UT	10-16-00	Examined 96" (1/3) from tap for 8053B to TE454.	NRI
B2.12	Shell to Upper Hd. Long'l Weld (12")	Pressurizer 1	Long'l 9 - twelve inches	UT	10-16-00	Examined 12" from intersection with Girth 5.	NRI
B-D							
B3.120	Pzr1 Safety Nozz Inside Radius	Pzr 1 to S6-727-6SPL	Inside Radius Section	UT	10-14-00		NRI
	Pzr1 Relief Nozz Inside Radius	Pzr 1 to S6-730-6SPL	Inside Radius Section	UT	10-14-00		NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
 (1R10)  
 ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: STEAM GENERATORS

PAGE 1 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-B							
B2.40	Tubesheet to Head Weld (1/3)	Steam Gen. 1-1	Channel W 1-1 - one third	UT	10-28-00	Examined 12' (1/3) cw from 1st welded pad cw of ID plate.	NRI
	Tubesheet to Head Weld (1/3)	Steam Gen. 1-1	Channel W 1-1 - one third	UT	10-28-00	Supplemental: Examined 12' (1/3) ccw from 1 <sup>st</sup> welded pad cw of ID plate using new cal block.	NRI
B-G-2							
B7.30	Stm Gen 1-2 Inlet Manway	SG Bolting < 2" diam.	SG1-2 Inlet Manway Bolting	VT-1	10-10-00		NRI
	Stm Gen 1-2 Outlet Manway	SG Bolting < 2" diam.	SG1-2 Outlet Manway Bolting	VT-1	10-10-00		NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING  
OUTAGE REPORT (1R10)  
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: STEAM GENERATORS

CAT B16.20

STEAM GENERATOR TUBING

PAGE 2 of 2

The following percentages apply to inservice tubes.

SCOPE	PROBE TYPE	SG 11	SG 12	SG 13	SG 14
Full length (except Rows 1 and 2 U-bends)	Bobbin	100%	100%	100%	100%
Rows 1 and 2 U-bends	Plus Point	100%	100%	100%	100%
Hot Leg top-of tubesheet	Plus Point	100%	100%	100%	100%
≥ 5 volt dented TSP intersections	Plus Point	100% from 1H to 4H, 20% (50 min) from 5H to 7H	100% from 1H to 6H, 20% (50 min) at 7H	20% (50 min) from 1H to 7H	100% from 1H to 3H, 20% (50 min) from 4H to 7H
< 5 volt dented TSP intersections	Plus Point	100% from 1H to 4H, 20% at 5H	100% from 1H to 6H, 20% at 7H	20% at 1H	100% from 1H to 3H, 20% at 4H
Hot leg roll plugs	Plus Point	20%	N/A	100%	100%
Distorted OD bobbin signals at TSP intersections	Plus Point	Per voltage-based repair criteria	Per voltage-based repair criteria	Per voltage-based repair criteria	Per voltage-based repair criteria
Distorted ID bobbin signals at TSP intersections	Plus Point	100%	100%	100%	100%
Free span dings	Plus Point	20% TSH to 3H	20% TSH to 6H	20% TSH to 1H	20% TSH to 3H
Baseline TSP ligament indications	Plus Point	N/A	100%	100%	N/A
Tubes unplugged		13	30	N/A	N/A
Tubes plugged		21	54	14	19
Net tubes plugged		8	24	14	19

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
(1R10)  
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING

PAGE 1 of 3

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-G-2							
B7.50	Flange Bolting (12 Studs & Nuts)	Pipe Bolting < 2" diam.	S6-728-6 RV-8010B Inlet Flg	VT-1	10-13-00		NRI
	Flange Bolting (4 Studs & Nuts)	Pipe Bolting < 2" diam.	S6-55-1.5 (WIB-980/WIB-981)	VT-1	10-21-00		NRI
	Flange Bolting (4 Studs & Nuts)	Pipe Bolting < 2" diam.	S6-1992-1.5 (FE-925)	VT-1	10-21-00		NRI
	Flange Bolting (4 Studs & Nuts)	Pipe Bolting < 2" diam.	S6-1992-1.5 (RO 560)	VT-1	10-21-00		NRI
B7.60	RC Pump 1-3 Seal House Bolts	Pump Bolting < 2" diam. (12)	4 Bolts	VT-1	10-26-00	All 12 bolts examined, credit taken for 4.	NRI
B7.70	Lp4 HL to V-8701 Bolts < 2" diam	S6-1665-14SPL	V-8701: 16 Studs & Nuts	VT-1	10-21-00		NRI
	Accum Inj. Lp1: Bolts < 2" diam	S6-253-10SPL+	V-8948A: 16 Studs & Nuts	VT-1	10-24-00		NRI
	Accum Inj. Lp2: Bolts < 2" diam	S6-254-10SPL+	V-8956B: 16 Studs & Nuts	VT-1	10-21-00		NRI
	Accum Inj. Lp4: Bolts < 2" diam	S6-256-10SPL+	V-8956D: 16 Studs & Nuts	VT-1	10-21-00		NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
 (1R10)  
 ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING

PAGE 2 of 3

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B7.70 cont'd	SI Loop 2 HL: Bolts <2" diam	S6-236-6SPL+	V-8949B: 12 Studs & Nuts	VT-1	10-16-00		NRI
	RHR Pp 1-1 Inj: Bolts <2" diam	S6-3845-6SPL+	V-8818B: 12 Studs & Nuts	VT-1	10-24-00		NRI
	Pzr RV-8010B In: Bolts <2" diam	S6-728-6	RV-8010B: 8 Bonnet Studs & Nuts	VT-1	10-13-00		NRI
	Lp 1 Spray Line: Bolts <2" diam	S6-13-4SPL+	V-8033D: 12 Studs & Nuts	VT-1	10-20-00		NRI
	Lp 2 Spray Line: Bolts <2" diam	S6-14-4SPL+	V-8033B: 12 Studs & Nuts	VT-1	10-20-00		NRI
B-J							
B9.11	SI Lp 2 HL: Pipe Welds > 4" diam	S6-236-6SPL+	WIB-77	UT	10-14-00	Part of RI-ISI	NRI
	SI Lp 2 HL: Pipe Welds > 4" diam	S6-236-6SPL+	WIB-74	UT	10-14-00	Part of RI-ISI	NRI
	Lp 1 Spray: Pipe Welds > 4" diam	S6-13-4SPL	WIB-416B	UT	10-18-00	Part of RI-ISI	NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
(1R10)  
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING

PAGE 3 of 3

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B9.11 cont'd	Lp 1 Spray: Pipe Welds > 4" diam	S6-13-4SPL	WIB-416A	UT	10-18-00	Part of RI-ISI	NRI
	Lp 2 Spray: Pipe Welds > 4" diam	S6-14-4SPL	WIB-430	UT	10-18-00	Part of RI-ISI	NRI
	Lp 2 Spray: Pipe Welds > 4" diam	S6-14-4SPL	WIB-428	UT	10-14-00	Part of RI-ISI	NRI
	Lp 2 Spray: Pipe Welds > 4" diam	S6-14-4SPL	WIB-427	UT	10-14-00	Part of RI-ISI	NRI
	Pzr Spray: Pipe Welds > 4" diam	S6-15-4SPL	WIB-387	UT	10-13-00	Part of RI-ISI	NRI
	Pzr Spray: Pipe Welds > 4" diam	S6-15-4SPL	WIB-384	UT	10-13-00	Part of RI-ISI	NRI
	Pzr Spray: Pipe Welds > 4" diam	S6-15-4SPL	WIB-386	UT	10-14-00	Part of RI-ISI	NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
 (1R10)  
 ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: INTEGRAL  
 ATTACHMENTS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-K-1							
B10.10	Accum Inj Lp2: Welded Attach.	S6-254-10SPL	52-24V Paramount	PT	10-20-00		NRI
	Lp1 Spray: Welded Attach.	S6-13-4SPL	52-33A X408B	PT	10-18-00		NRI
	Lp1 Spray: Welded Attach.	S6-13-4SPL	42-71A X409B	PT	10-18-00		NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING  
 OUTAGE REPORT (1R10)  
 ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING SUPPORTS

PAGE 1 of 1

CATEGORY

F-A SUPPORTS

F1.10 TO F1.70 SUPPORT COMPONENTS

The required inservice inspections were performed on 67 Class 1 hangers during the tenth refueling outage between the dates of 10/12/00 and 10/25/00. All supports found acceptable. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
6	Support B	51	22-398R	727	11-42SL	1976	12-69SL	2576	10-31R
14	52-18R	51	22-70R	728	11-43SL	1976	12-70SL	3845	11-79SL
14	11-19R	51	181-31	729	11-44SL	1665	12-2SL	3845	11-80SL
14	42-62R	51	2185-19	730	11-21SL	1665	12-146SL	3845	11-81SL
14	10-41R	51	22-399R	730	11-130SL	1992	23-12A	3845	11-82SL
15	42-3R	51	22-62R	1140	23-283R	1992	2155-68	3845	42-43V
15	42-75R	51	23-1A	1171	11-14SL	1992	2156-86	3857	2156-37
15	43-1R	54	22-211SL	1171	11-96SL	1992	2169-25	3857	2157-8
15	11-142SL	55	47-11	1171	11-97SL	1992	2182-40	4081	11-22SL
16	51-23V	109	56N-7V	1171	11-153SL	1992	2182-44	Steam Generator 1-2	Support Structure
24	52-31R	235	10-25SL	1172	48-29A	1995	12-94SL		
51	181-29	236	10-22R	1195	11-95SL	1995	57N-35R		
51	181-35	253	10-5SL	1195	11-124SL	1995	57N-76R		
51	181-30	253	10-6SL	1195	11-125SL				
51	2152-19	254	52-24V						

**SECTION D**

**CLASS TWO COMPONENTS**

PG&E

DIABLO CANYON POWER PLANT - UNIT 1

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
(1R10)  
ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: STEAM GENERATORS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-A							
C1.30	Tubesheet-to-Shell Weld	Steam Generator 1-1	Girth W1-2 - one third	UT	10-27-00	Examined 12' (1/3) cw from 1 <sup>st</sup> welded pad cw of ID plate plus 2' ccw from same pad.	NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
 (1R10)  
 ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: PIPING

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-F-1							
C5.11	RHR to Spr Hdrs 1 & 3: Circ Welds	S1-279-8IIP	WIC-22	UT	10-11-00	Part of RI-ISI	NRI
	RHR to Spr Hdrs 1 & 3: Circ Welds	S1-279-8IIP	WIC-23	UT	10-11-00	Part of RI-ISI	NRI
C-F-2							
C5.51	SG 1-4 FW Sup: Circ Welds	K16-556-16V	WICG94-4B	UT	10-24-00	Part of RI-ISI	NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
 (1R10)  
 ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: PIPING SUPPORTS

PAGE 1 of 1

CATEGORY

F-A

SUPPORTS

F1.10 TO F1.70

SUPPORT COMPONENTS

The required inservice inspections were performed on 32 Class 2 hangers during the tenth refueling outage between the dates of 10/07/00 and 10/24/00. Results were found acceptable. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
56	22-291SL	508	42-46R	927	12-7SL	S/G 1-3	SG-01-03-NE
110	72-41R	508	42-81R	927	12-133R	S/G 1-3	SG-01-03-NW
226	1033-1SL	512	54S-3A	927	12-136R	S/G 1-3	SG-01-03-SE
227	1025-16SL	512	72-12R	927	12-145SL	S/G 1-3	SG-01-03-SW
227	1032-20SL	556	1049-14SL	985	12-34SL	S/G 1-4	SG-01-04-NE
		556	1049-16SL	985	12-228SL	S/G 1-4	SG-01-04-NW
		557	1049-2SL	985	40-44R	S/G 1-4	SG-01-04-SE
				985	40-50R	S/G 1-4	SG-01-04-SW
				985	57N-151R		
				985	57S-24V		
				985	57S-68R		
				RHR HX 1-1	Two support legs		

**SECTION E**  
**SYSTEM PRESSURE TESTS**

PG&E

DIABLO CANYON POWER PLANT -  
UNIT 1

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (1R10)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 1 of 2

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
1	1	Reactor Coolant System and Connected Piping	11-4-00	Includes S/G's 1-1 thru 1-4 primary manways & Pzr Sfty vlv's 8010A, B, & C IAW Code Case N-533-1.	NRI
2	1	Excess Letdown between 8166 & 8167	11-4-00		NRI
3	1	Auxiliary Pressurizer spray	11-4-00		NRI
4	1	Alternate Charging	11-4-00		NRI
5	1	RHR & SI to Cold Legs	11-4-00		NRI
6	1	Charging Injection Inside Cont.	11-4-00		NRI
7	1	Safety Injection Inside Cont, From 8905A-D to 8949A-D	11-4-00		NRI
8	1	RHR Between 8702 & 8701	11-4-00		NRI
9	1	Pzr. Piping from 8052 to 8064 A, B, C	11-4-00		NRI

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
2	2	Auxiliary Feedwater Pumps X-2 & X-3 Discharge	11-14-00		NRI
3	2	Auxiliary Feedwater Pump X-1 Discharge	11-17-00		NRI
11	2	Charging Injection 8803A & B to 8801A & B	10-23-00		NRI
18	2	Accumulator, RHR & Charging Test Lines	10-12-00		NRI
24	2	RHR Hot Leg injection from 8703 to 8740A & B	11-4-00		NRI
25	2	Spray Additive Tank and Unisolable piping	10-31-00		NRI
26	2	RWST Supply to Eductors	10-30-00		NRI
27	2	Cont Spray Pump Disch Piping to 9015A & B	10-30-00		NRI
28	2	Cont Spray Pump Disch Piping from 9015A & B to 9006A & B	10-29-00		NRI
32	2	RX Vessel Level Indication and Vent System	11-4-00		NRI

**SECTION F**

**PRESERVICE INSPECTION ITEMS**

**SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
(1R10)  
ASME SECTION XI SYSTEMS - CLASS 1 & 2 PRESERVICE INSPECTION ITEMS**

MAJOR ITEM: PSI

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B6.30	RPV Closure Hd Studs (Removed)	RPV Bolting > 2" diam.	RPV Stud #45	MT	8-24-87	Manufacturer's original NDE report	NRI
	RPV Closure Hd Studs (Removed)	RPV Bolting > 2" diam.	RPV Stud #45	UT	7-20-87	Manufacturer's original NDE report	NRI
B7.50	Flange Bolting (12 Studs & Nuts)	S6-729-6 RV- 8010A Inlet Flg	12 body/flange studs 24 nuts.	VT -1	10-25-00		NRI
	Flange Bolting (12 Studs & Nuts)	S6-728-6 RV- 8010B Inlet Flg	12 body/flange studs 24 nuts.	VT -1	10-25-00		NRI
	Flange Bolting (12 Studs & Nuts)	S6-727-6 RV- 8010C Inlet Flg	12 body/flange studs 24 nuts.	VT -1	10-25-00		NRI
B7.70	Pzr RV-8010A In: Bolts <2" diam	S6-729-6	RV-8010A: 8 Bonnet Studs & Nuts	VT-1	10-25-00		NRI
	Pzr RV-8010B In: Bolts <2" diam	S6-728-6	RV-8010B: 8 Bonnet Studs & Nuts	VT-1	10-25-00		NRI
	Pzr RV-8010C In: Bolts <2" diam	S6-727-6	RV-8010C: 8 Bonnet Studs & Nuts	VT-1	10-25-00		NRI
	Lp 2 Spray Line: Bolts <2" diam	S6-14-4SPL+	V-8033A: 12 Studs & Nuts	VT-1	10-20-00		NRI

**SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
(1R10)  
ASME SECTION XI SYSTEMS - CLASS 1 & 2 PRESERVICE INSPECTION ITEMS**

**MAJOR ITEM: PSI SUPPORTS**

**CATEGORY**

**FA                                      SUPPORTS**  
 F1.10 TO F1.70                      SUPPORT COMPONENTS

The required preservice inspections were performed on 8 supports during the tenth refueling outage.

LINE	SUPPORT
42	73-20R
54	22-212SL
105	14-73SL
106	14-18SL
253	10-5SL
746	15-40SL
1171	48-25V
1994	2156-111

**SECTION G**  
**REPAIRS AND REPLACEMENTS**

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Feedwater (03)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Line 554	Pullman Kellogg			C0169336	554		1. Repair	No

7. Description of Work 1. Arc strike removal

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure          Other MT  
Pressure          psi Test Temp          °F

9. Remarks           
          
        

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Repair conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/19/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Repair described in this Report on 1/26, 2001 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector Jan 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Main Steam (04)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
PCV-22	Copes Vulcan	691095009		C0159522	225		1. Replaced	No
Stm Gen 1-1	Westinghouse	1041	68-12	C0161006	R15C59,	1968	2. Repaired	Yes
"					R16C52,			
"					R17C38,			
"					R18C46.			
Stm Gen 1-2	Westinghouse	1042	68-13	C0161013	R16C57,	1968	2. Repaired	Yes

7. Description of Work 1. Replaced bonnet stud & nut, replaced trim 2. Welded tube plugs

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure          Other           
Pressure          psi Test Temp          °F

9. Remarks Items 2 performed by Framatome FTI

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Repair, Replacement conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/19/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

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Kenny D. Kim Inspector Jan. 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Reactor Coolant (07)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Reactor Vsl Hd	Westinghse/CE	CE 66204	20760	R0194441	CETNA		1. Replaced	Yes
RCS-1-8033A	Velan			C0166618	Line 14		2. Replaced	No
Line 59 Flange	PG&E			C0169393	Line 59		3. Replaced	No
Reactor Vessel	Westinghs/CE	CE 66104	20760	C0169501	Stud 45		4. Replaced	Yes
RV-8010B	Crosby	U2C		R0194285	Line 728		5. Replaced	Yes
RV-8010A	Crosby	U12S		R0194286	Line 729		5. Replaced	Yes

7. Description of Work 1. Replaced instrument port swing bolt, 2. Replaced 2 body to bonnet studs,

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure X Other X  
Pressure          psi Test Temp          °F

9. Remarks STP R-8a primary system pressure test

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/19/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

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Kenny D. Kim Inspector Jan. 26, 2001 Commissions CA 1828-NB 9990 A.N.I.C.  
(Title) (Date) (State or Province, National Board)

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**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
**As Required by the Provisions of ASME Code Section XI**

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Chemical & Volume Control (08)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RV-8117	Crosby	-00-0004		R0186318	Ln 4002		1. Replaced	No
Line 58 flange	PullmanKellog			C0168279	Line 58		2. Replaced	No
Line 45 flange	PullmanKellog			C0165101	Line 45		2. Replaced	No
Line 42 spool pc	PullmanKellog			C0165632	Line 42		3. Replaced	No
FCV-110A	Copes-Vulcan	-187-2		C0166728	Line 736		4. Replaced	No
HCV-142	Masoneilan			C0167153	Line 48		4. Replaced	No

7. Description of Work 1. Replaced valve for testing, 2. Replaced flange bolting,

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure X Other X  
Pressure          psi Test Temp          °F

9. Remarks           
          
        

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/25/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Replacement described in this Report on 1/26, 2001 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector Jan. 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
Kenny/D. Kim (Title) (Date) (State or Province, National Board)

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**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Safety Injection (09)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
FE-924, etc	Vickery Simms			C0157815	Ln 1991		1. Replaced	No
FE-925, etc.	Vickery Simms			C0157816	Ln 1992		1. Replaced	No
FE-926, etc.	Vickery Simms			C0157817	Ln 1993		1. Replaced	No
FE-927, etc.	Vickery Simms			C0157818	Ln 1994		1. Replaced	No
FE-974 & 2 ROs	Vickery Simms			C0157820	Ln 3855		2. Replaced	No
FE-975 & 2 ROs	Vickery Simms			C0157821	Ln 3856		2. Replaced	No

7. Description of Work 1. Replaced flow element, restricting orifice and throttle valve, added

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure X Other X  
Pressure          psi Test Temp          °F

9. Remarks FE-926 work included in-process repair of pipe weld.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/25/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

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Kenny D. Kim Inspector Jan. 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1
2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424
3. Work Performed by Owner Repair Org. P.O. No., Job No., etc.  
See Above
4. Identification of System Residual Heat Removal (10)  
(See Below - Code Stamp Column)
5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A
6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR Pump 1-2	Ingersoll-Rand	A69-36		C0166465			1. Replaced	No

7. Description of Work 1. Replaced pump case bolting
8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure          Other           
Pressure          psi Test Temp          °F
9. Remarks

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/19/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

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Kenny D. Kim Inspector Jan 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1
2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424
3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.
4. Identification of System Containment Spray (12)  
(See Below - Code Stamp Column)
5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A
6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-1-8994A	Aloyco	70D582-2		C0164769	2510		1. Replaced	No
CS-1-8994B	Aloyco	70D582-1		C0164770	2511		1. Replaced	No
CS-1-8994A	Aloyco	70D582-2		C0169055	2510		2. Repair	No
CS-1-8994B	Aloyco	70D582-1		C0169179	2511		2. Repair	No

7. Description of Work 1. Replaced valve bonnet bolting, 2. Weld build-up disc
8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure          Other X  
Pressure          psi Test Temp          °F
9. Remarks

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Repair & Replacement conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 01/19/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

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Kenny W. Kim Inspector Jan 26, 2001 Commissions CA 1828-NB 9990 A.N.I.C.  
Kenny W. Kim (Title) (Date) (State or Province, National Board)

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**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Spent Fuel Pool Cooling (13)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
SFP HX 1-1	Joseph Oat Corp	1817-3C	352	C0163497			1. Replacmnt	Yes

7. Description of Work 1. Upgraded Nameplate Temperature Rating of HX

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure          Other           
Pressure          psi Test Temp          °F

9. Remarks Class 3 component

**CERTIFICATE OF COMPLIANCE**

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**CERTIFICATE OF INSPECTION**

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Kenny D. Kim Inspector Jan 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
(Title) (Date) (State or Province, National Board)

Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner Repair Org. P.O. No., Job No., etc.  
See Above

4. Identification of System Component Cooling Water (14)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CCW-1-RV-52	Lonergan	..100-9-1		R0134560	1657		1. Replaced	No

7. Description of Work 1. Replaced valve

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure X Other           
Pressure          psi Test Temp          °F

9. Remarks           
          
        

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/19/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Replacement described in this Report on 1/26, 2001 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector Jan. 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Liquid Radwaste (19)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Suprt 2155-265	PG&E			C0158652	752		1. Replaced	No

7. Description of Work 1. Redesigned support for clearance

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure          Other           
Pressure          psi Test Temp          °F

9. Remarks           
          
        

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/19/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Replacement described in this Report on 1/26, 2001 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector Jan. 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Containment -concrete- (45)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment	PG&E	Unit 1		C0163058	(3416)		I. Replaced*	No

7. Description of Work 1. Drilled holes for pipe support anchor bolts

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure          Other           
Pressure          psi Test Temp          °F

9. Remarks \* Holes did not go to depth of rebar - reported for information only

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Replacement\* conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/19/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co.  
Hartford, CT. have inspected the Replacement\* described in this Report on 1/26, 2001  
and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector Jan. 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Containment-liner- (45)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Containment	PDM Steel	Unit 1		C0148300	EqpHtch		1. Repair *	No
Containment	PDM Steel	Unit 1		C0167280	Pen 63		2. Replaced	No

7. Description of Work 1. Recoating only, 2. Redesign Penetration Flange Temporary Refueling Cover

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure          Other           
Pressure          psi Test Temp          °F

9. Remarks \* Coating work reported for information only

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/19/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Replacement described in this Report on 01/26, 2001 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector Jan. 26, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.  
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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**FORM NIS-2 OWNER'S REPORT OF REPAIR OR REPLACEMENT**  
As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date December 17, 2000  
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Seal Table (48)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Thimble C-7	Westinghouse			C0169273	RPVI		1. Replaced	No
Thimble L-8	"			"	"		"	"
Thimble R-11	"			"	"		"	"
Thimble C-5	"			"	"		2. Replaced	"
Thimble J-1	"			"	"		3. Replaced	"

7. Description of Work 1. Shorten and repositioned thimble tube, 2. Reposition and cap thimble tube,

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure X Other           
Pressure          psi Test Temp          °F

9. Remarks (Description) 3. Cap thimble tube

**CERTIFICATE OF COMPLIANCE**

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(Owner or Owner's Designee) Jacqueline R. Hinds (Title) (Date)

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I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. Hartford, CT. have inspected the Replacement described in this Report on 1/26, 2001 of and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector Jan. 26, 2001 Commissions CA 1828-NB 9990 A.N.I.C.  
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1  
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner  
See Above Repair Org. P.O. No., Job No., etc.

4. Identification of System Warehouse Stock (85)  
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition          Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
S/C 94-7105	Anchor Darling	1		C0162435	disc		1. Repair	No
S/C 94-7105	Anchor Darling	2		C0162435	disc		1. Repair	No
S/C 94-3182	ACF IND INC.	None		C0161457	rv spring		2. Replace	No
S/C 94-3182	ACF IND INC.	None		C0161458	rv spring		2. Replace	No
S/C 93-7965	Dresser	ACU44		C0157452	disc		3. Replace	No
S/C 93-3507	Crane-Aloyco	Unk		C0165941	disc		1. Repair	No

7. Description of Work 1. Restore and hardface disc., 2. Replace spring, 3. Replace disc.

8. Tests Conducted: Hydrostatic          Pneumatic          Nominal Operating Pressure          Other           
Pressure          psi Test Temp          °F

9. Remarks         

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in this report are correct and this Repair conforms to Section XI of the ASME Code. Signed Jacqueline R. Hinds Technical Support Manager 1/24/01  
(Owner or Owner's Designee) Jacqueline R. Hinds (Title)          (Date)

**CERTIFICATE OF INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Repair described in this Report on 1/26, 2001 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

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Kenny D. Kim (Title)          (Date)          (State or Province, National Board)

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**SECTION H**  
**CONTAINMENT EXAMINATIONS**

PG&E

DIABLO CANYON POWER PLANT - UNIT 1

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SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
(1R10)  
CONTAINMENT EXAMS (CONCRETE)

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MAJOR ITEM: CONTAINMENT EXAMINATIONS

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PAGE 1 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
L1.11	CONCRETE U-1 EXTERIOR	Dome & Cylinder		VT-3C	12-17-00	60% Complete	NRI

**SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT  
(1R10)  
CONTAINMENT EXAMS (LINER)**

**MAJOR ITEM: CONTAINMENT EXAMINATIONS**

PAGE 2 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
E1.11	Containment Liner		Liner	General	3-8-99	Completed in 1R9	NRI
E4.11	RHR Sump		Liner	VT -1	10-12-00		NRI
E4.12	RHR Sump	Thickness Grid	Liner	UT	10-12-00		NRI
E8.10	Equipment Hatch	Cover	Bolting	VT-1	10-18-00	Bolts examined (1/3 of total)	NRI
	Mini-Equipment Hatch	Penetration 58	Bolting	VT-1	10-31-00	12 bolts examined, credit taken for 4.	NRI
	Mini-Equipment Hatch	Penetration 60	Bolting	VT-1	10-31-00	12 bolts examined, credit taken for 4.	NRI
	Vacuum/Pressure Relief	Penetration 63	Bolting	VT-1	10-31-00	12 bolts examined, credit taken for 4.	NRI
	Fuel Transfer Tube	Penetration 64	Bolting	VT-1	10-31-00	20 bolts examined, credit taken for 7.	NRI