



*Pacific Gas and
Electric Company*

James R. Becker
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August 21, 2001

PG&E Letter DCL-01-085

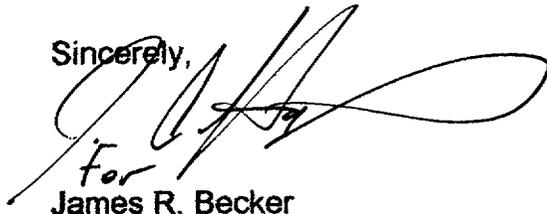
U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Docket No. 50-323, OL-DPR-82
Diablo Canyon Unit 2
Inservice Inspection Report for Unit 2 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 2 tenth refueling outage inservice inspections of Class 1 and 2 components and supports.

Sincerely,



For
James R. Becker

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

Enclosure

DDM/469

A047

**INSERVICE INSPECTION REPORT FOR
DCPP UNIT 2 TENTH REFUELING OUTAGE**

Diablo Canyon Power Plant

Unit 2

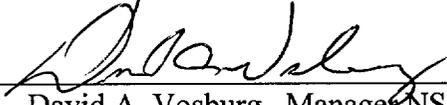
USNRC Docket No. 50-323

Operating License No. DPR-82

Commercial Operation Date, March 13, 1986

Prepared By: David Gonzalez For TLA 
ISI Specialists: Thomas L. Alcott, Terry G. Carraher

Reviewed By: _____
James E. Hill, Lead ISI Specialist

Approved By: 
David A. Vosburg, Manager NSSS 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 2 was completed during the tenth refueling outage from April through May, 2001. The DCPP Unit 2 tenth refueling outage (2R10) 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 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.

System pressure tests on Class 1 and 2 systems conducted during 2R10 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 Report Form NIS-2 for those 2R10 work packages closed prior to July 11, 2001 and for any pre-2R10 work packages closed after November 28, 1999. NIS-2 reports for 2R10 work packages that are closed after July 11, 2001 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.

Augmented Examinations, i.e. reactor coolant pump flywheels, are reported in Section H.

Containment examinations are reported in Section I.

Diablo Canyon's 2R10 outage continues the phase-in of Risk-Informed ISI. RIISI Examinations are reported in Section J.

SECTION B

ASME CODE REPORT FORM NIS-1

FORM NIS-1 OWNER'S 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 Two 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/13/86 6. National Board Number for Unit N/A
7. Components 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 68201	12962-85	21359
Steam Gen 2-1	Westinghouse	1161	N/A	68-89
Steam Gen 2-2	Westinghouse	1162	N/A	68-90
Steam Gen 2-3	Westinghouse	1163	N/A	68-91
Steam Gen 2-4	Westinghouse	1164	N/A	68-92
Pressurizer	Westinghouse	1171	N/A	68-106
Class 1 Valves	Various	N/A	N/A	N/A
Class 1 Supports	Various	N/A	N/A	N/A
Class 1 Piping	M.W. Kellogg/ Pullman	N/A	N/A	N/A

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 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 4/01 to 5/01
- 9. Inspection Period Identification: Second
- 10. Inspection Interval Identification: Second
- 11. Applicable Edition of Section XI: 1989 Addenda: None
- 12. Date/Revision of Inspection Plan: December 18, 1998, Revision 1
- 13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan: Refer to ISI Report
- 14. Abstract of Results of Examinations and Tests: Refer to ISI Report
- 15. Abstract of Corrective Measures: Refer to ISI Report

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and, c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A
Date August 3, 20 01 Signed Engineering Manager By David A. Vosburg
Owner

CERTIFICATE OF INSERVICE 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 and employed by H. S. B. I. & I. Co. of Harford, CT have inspected the components described in this Owners' Report during the period 4/01 to 5/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owners' Report in accordance with the Inspection Plan and as required by 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 tests, and corrective measures described in this Owners' 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.

Kenny D. Kim Commissions CA 1828, NB 9990 A.N.I.C.
Inspector's Signature/Kenny Kim National Board, State, Province and, endorsements.

Date August 7 20 01

FORM NIS-1 (back)

- 8. Examination Dates 4/01 to 5/01
- 9. Inspection Period Identification: Second
- 10. Inspection Interval Identification: Second
- 11. Applicable Edition of Section XI: 1989 Addenda: None
- 12. Date/Revision of Inspection Plan: December 18, 1998, Revision 1
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- 14. Abstract of Results of Examinations and Tests: Refer to ISI Report
- 15. Abstract of Corrective Measures: Refer to ISI Report

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and, c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable) N/A Expiration Date N/A

Date August 3 20 01 Signed Engineering Manager By David A. Vosburg
Owner

CERTIFICATE OF INSERVICE 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 and employed by H. S. B. I. & I. Co. of Harford, CT have inspected the components described in this Owners' Report during the period 4/01 to 5/01, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owners' Report in accordance with the Inspection Plan and as required by 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 tests, and corrective measures described in this Owners' 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.

Kenny Kim Commissions CA 1828, NB 9990 A.N.I.C.
Inspector's Signature/Kenny Kim National Board, State, Province and, endorsements.

Date August 7 20 01

SECTION C
CLASS ONE COMPONENTS

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
 (2R10)
 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-G-1							
B6.10	Closure Head Nuts	RPV Bolting > 2" diam.	RPV2 Nuts 19 to 36	MT	5-10-01		NRI
B6.30	Closure Head Studs	RPV Bolting > 2" diam.	RPV2 Studs 19 to 36	MT	5-8-01		NRI
	Closure Head Studs	RPV Bolting > 2" diam.	RPV2 Studs 19 to 36	UT	5-10-01		NRI
B6.50	Closure Washers	RPV Bolting > 2" diam.	RPV2 Washer 19 to 36	VT-1	5-11-01		NRI
B-N-1							
B13.10	Reactor Vessel 2 Interior	Reactor Vessel 2 Interior	Reactor Vessel 2 Interior	VT-3	5-14-01		NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
(2R10)
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 Head	Pressurizer 2	Girth 5 - one third	UT	5-4-01		NRI
B2.12	Shell to Upper Head Long'l Weld	Pressurizer 2	Long'l 9 - twelve inches	UT	5-4-01	Examined 12" from girth weld #5	NRI
B-D							
B3.110	Spray Line Nozzle to Vessel Weld	Pzr 2 to 2S6-15-4SPL	WIB-346 (N-V)	UT	5-4-01		NRI
	Safety Line Nozzle to Vessel	Pzr 2 to 2S6-728-6SPL	WIB-422A (N-V)	UT	5-4-01		NRI
B3.120	Safety Line Nozz. Inside Radius	Pzr 2 to 2S6-727-6SPL	Inside Radius Section	UT	5-4-01		NRI
	Relief Line Nozz. Inside Radius	Pzr 2 to 2S6-730-6SPL	Inside Radius Section	UT	5-4-01		NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
 (2R10)
 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	Steam Gen. 2-1	Channel W 1-1 - one third	UT	5-8-01		NRI
B-G-2							
B7.30	Inlet Manway Studs & Nuts	SG Bolting < 2" diam.	SG2-2 Inlet Manway Bolting	VT-1	5-15-01		NRI
	Outlet Manway Studs & Nuts	SG Bolting < 2" diam.	SG2-2 Outlet Manway Bolting	VT-1	5-15-01		NRI

The following percentages apply to inservice tubes.

SCOPE	PROBE TYPE	SG 21	SG 22	SG 23	SG 24
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%	100%	100%	100%
> 2 and < 5 volt dented TSP intersections	Plus Point	20% at 1H	100% from 1H to 5H, 20% at 6H	100% from 1H to 3H, 20% at 4H	100% from 1H to 3H, 20% at 4H
Hot leg roll plugs	Plus Point	NA	100% of 2R7 plugs	NA	100% of 2R7 plugs
Distorted OD bobbin signals at TSP intersections	Plus Point	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 1H	20% TSH to 5H	20% TSH to 3H	20% TSH to 3H
Baseline TSP ligament indications	Plus Point	NA	NA	100%	100%
Tubes plugged		6	25	9	24

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

MAJOR ITEM: PIPING

PAGE 1 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-G-1							
B6.180	RCP 2-1 Main Flange Bolts	Pump Bolting > 2" diam.	RCP 2-1 Bolts 7-14 (cw)	UT	5-7-01		NRI
B-G-2							
B7.50	Flange Bolting (12 Studs & Nuts)	Pipe Bolting < 2" diam.	2S6-728-6 2RV- 8010B Inlet Flg	VT-1	5-6-01		NRI
	Flange Bolting (4 Studs & Nuts)	Pipe Bolting < 2" diam.	2S6-5398-1.5 (WIB- 857/WIB-858A)	VT-1	5-8-01		NRI
	Flange Bolting (4 Studs & Nuts)	Pipe Bolting < 2" diam.	2S6-5398-1.5 (WIB- 858S/WIB-858T)	VT-1	5-8-01		NRI
	Flange Bolting (4 Studs & Nuts)	Pipe Bolting < 2" diam.	2S6-1992-1.5 (2-FE-925)	VT-1	5-8-01		NRI
	Flange Bolting (4 Studs & Nuts)	Pipe Bolting < 2" diam.	2S6-1992-1.5 (2-RO-560)	VT-1	5-8-01		NRI
B7.60	Seal House Bolts	Pump Bolting <2" diam.	RCP 2-1 (4 Bolts)	VT-1	5-5-01		NRI
B7.70	Loop 4 HL before 2V-8701	2S6-1665-14SPL	2V-8701: 16 Studs & Nuts	VT-1	5-9-01		NRI

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

MAJOR ITEM: PIPING

PAGE 2 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B7.70 cont'd.	Accumulator Inj. Loop 1	2S6-253-10SPL+	2V-8948A: 16 Studs & Nuts	VT-1	5-5-01		NRI
	Accumulator Inj. Loop 2	2S6-254-10SPL+	2V-8956B: 16 Studs & Nuts	VT-1	5-9-01		NRI
	Accumulator Inj. Loop 4	2S6-256-10SPL+	2V-8956D: 16 Studs & Nuts	VT-1	5-3-01		NRI
	Safety Inj Loop 2 Hot Leg	2S6-236-6SPL+	2V-8949B: 12 Studs & Nuts	VT-1	5-18-01		NRI
	RHR Pump 2-1 Inj CL 2	2S6-3845-6SPL+	2V-8818B: 12 Studs & Nuts	VT-1	5-9-01		NRI
	Pzr 2RV-8010B Inlet	2S6-728-6SPL	2RV-8010B: 8 Bonnet Studs & Nuts	VT-1	5-6-01		NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
 (2R10)
 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	RHR Pp 2-1 Inj Cold Leg 1	2S6-3844-6SPL	92-41V	PT	5-12-01		NRI
	Loop 1 Spray Line	2S6-13-4SPL	2-33R	PT	5-4-01		NRI
	Loop 1 Spray Line	2S6-13-4SPL	92-71R	PT	5-4-01		NRI
	Hot Leg Recirc bef 2V-8702	2S6-109-14SPL	6-6V	PT	5-7-01		NRI

SECTION D

CLASS TWO COMPONENTS

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
 (2R10)
 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 2-1	Girth W1-2 - one third	UT	5-8-01		NRI
C-B							
C2.21	Nozzle-to-Shell Weld	SG 2-1 to 2K16-554-16IV	Feedwater Nozzle-to-Shell Weld	UT	5-4-01		NRI
	Nozzle-to-Shell Weld	SG 2-1 to 2K16-554-16IV	Feedwater Nozzle-to-Shell Weld	MT	5-3-01		NRI
C2.22	Nozzle Inside Radius Section	SG 2-1 to 2K16-554-16IV	Feedwater Nozzle Inside Radius	UT	5-4-01		NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R10)

MAJOR ITEM: SUPPORTS

ASME SECTION XI SYSTEMS - CLASS 2

CATEGORY

F-A
F1.10 TO F1.70

SUPPORTS
SUPPORT COMPONENTS

The required inservice inspections were performed on 60 Class 2 hangers during the tenth refueling outage between the dates of 04/19/01 and 05/11/01. Results were found acceptable. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
S/G 2-2	Support Structure	52	414-241R	512	46-1V	1974	46-14R
S/G 2-2	SG-02-02-NE	52	414-257R	554	2048-22SL	2032	413-68R
S/G 2-2	SG-02-02-NW	52	949-106R	556	2049-4SL	2033	413-17R
S/G 2-2	SG-02-02-SE	52	949-1R	556	2049-5SL	2033	47-59R
S/G 2-2	SG-02-02-SW	110	47-7V	927	72-90R	2575	70-55SL
RHR HX 2-1	Two support legs	110	47-140R	985	7-153R	2575	90-26V
45	23-65R	110	22-11R	985	90-44R	3678	23-46R
48	24-47R	225	2031-9SL	985	90-47R	3844	71-1R
48	413-73R	228	2032-1SL	985	6-79R	RHR Pump 2-1	77-20SL
48	47-121V	282	48-52R	985	7-151R	RHR Pump 2-1	77-21SL
48	47-89R	508	71-46SL	985	72-25SL		
48	47-92R	508	72-31SL	985	72-44SL		
48	47-96A	508	412-163R	1357	72-60SL		
48	948-78R	508	92-52R	1454	46-16R		
48	949-194A	508	92-76R	1474	23-40R		
48	949-1R	508	92-45R				
48	949-94R	508	92-67R				
		508	92-68R				

SECTION E
SYSTEM PRESSURE TESTS

PG&E

DIABLO CANYON POWER PLANT -
UNIT 2

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R10)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 1 of 1

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
1	1	Reactor Coolant System and Connected Piping	5-24-01	STP R-8A	NRI
1	2	Steam Generators and Connected Piping	5-25-01	STP R-8A	NRI
2	2	Auxiliary Feedwater Pumps X-2 & X-3 Discharge	5-25-01	STP R-8A	NRI
14	2	Regenerative HX and Letdown Piping	5-24-01	STP R-8A	NRI
18	2	Accumulator, RHR & Charging Test Lines	5-15-01		NRI
20	2	RWST Supply to Chg Pp Suction, 8805A & B to 8924	5-2-01		NRI
26	2	RWST Supply to Eductors	5-16-01		NRI
27	2	Cont Spray Pump Disch Piping to 9015A & B	5-16-01		NRI
28	2	Cont Spray Pump Disch Piping from 9015A & B to 9006A & B	5-18-01		NRI
32	2	RX Vessel Level Indication and Vent System	5-24-01	STP R-8A	NRI

SECTION F
PRESERVICE INSPECTION ITEMS

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
 (2R10)
 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
B7.70	Accumulator Inj. Loop 4: Bolts <2" diam	S6-256-10SPL+	V-8948D	VT-1	5-11-01	1 new stud and nut	NRI
B7.70	Pzr 2RV-8010A Inlet: Bolts <2" diam	2S6-729-6SPL	2RV-8010A: 8 Bonnet Studs & Nuts	VT-1	5-11-01		NRI
B7.70	Pzr 2RV-8010B Inlet: Bolts <2" diam	2S6-728-6SPL	2RV-8010B: 8 Bonnet Studs & Nuts	VT-1	5-11-01		NRI
B7.70	Pzr 2RV-8010C Inlet: Bolts <2" diam	2S6-727-6SPL	2RV-8010C: 8 Bonnet Studs & Nuts	VT-1	5-11-01		NRI
C5.51	Steam Gen 2-1 Feed Wtr Sup	2K16-554-16V	WICG-01-1A	MT	5-9-01		NRI
C5.51	Steam Gen 2-1 Feed Wtr Sup	2K16-554-16V	WICG-01-1A	UT	5-19-01		NRI
E8.10	Containment Equipment Hatch	Containment	Equipment Hatch	VT-1	5-20-01	4 new swing bolt pins	NRI

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

MAJOR ITEM: PSI SUPPORTS

PAGE 1 of 1

CATEGORY

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

The required preservice inspections were performed on 2 supports during the tenth refueling outage.

SUPPORT	LINE
71-3SL	3845
413-533SL	746

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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 (system 03)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
Line 2-554	PG&E	N/A	N/A	C0166249	554	2001	Replaced	No (15) *
Line 2-555	PG&E	N/A	N/A	C0166250	555	2001	Replaced	No (15) *
Line 2-557	PG&E	N/A	N/A	C0166251	557	2001	Replaced	No (15) *
Line 2-556	PG&E	N/A	N/A	C0166252	556	2001	Replaced	No (15) *

7. Description of Work 15) Replace Line Segment * Pressure Test IAW Code Case N-416-1 NOP

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) (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 August 7, 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 August 7, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.
(Kenny D. Kim) (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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 Turbine Steam Supply System (System 04)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
MS-2-PCV-20	Copes-Vulcan	6910.95009	N/A	C0163535	0227	Unknown	Replacement	No (07) (08)
MS-2-PCV-21	Copes-Vulcan	6910.95009	N/A	C0171218	0226	Unknown	Replacement	No (07)
MS-2-5166	Anchor Darling	EA998-1-3	N/A	C0164230	0593	Unknown	Replacement	Yes (07)
Stm Gen 2-1	Westinghouse	PEGT-1161	68-89	C0164395	N/A	1972	Replacement	Yes (17)
Stm Gen 2-2	Westinghouse	PEGT-1162	68-90	C0172132	N/A	1972	Replacement	Yes (17)
MS-2-FCV-42	Schutte&Koert	N690555	N/A	R0127640	0227	Unknown	Replacement	No (08)

7. Description of Work 07) Replace Valve Internals 08) Replace Bonnet Bolting 17) Replace Manway 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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) David A. Vosburg (Title) 8/3/01 (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 August 7, 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 August 7, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) August 7, 2001 (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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 (System 07)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
Canopy Seal H-10	CombustionEng	CE68201	21359	C0172045	RPV	1973	Repaired	Yes (22) *
CETNA Port 74	CombustionEng	CE68201	21359	R0182623	RPV	1973	Replaced	Yes (23) *
RCS-2-RV-8010A	Crosby	V1251	N/A	R0202822	0729	1998	Replaced	Yes (5) *
RCS-2-RV-8010B	Crosby	V2A	N/A	R0202825	0728	1998	Replaced	Yes (5) *
RCS-2-RV-8010C	Crosby	V12S1	N/A	R0202834	0727	1998	Replaced	Yes (5) *

7. Description of Work 22) Repaired Canopy Seal Weld 23) Replaced CETNA clamp 5) Replace Valve

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

9. Remarks * Pressure Tested at NOP IAW Code Case N-416-1

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) David A. Vosburg (Title) 8/3/01 (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/Replacement described in this Report on August 7, 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 August 7, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) August 7, 2001 (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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

2. Plant Diablo Canyon Power Plant Unit Two
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 And Volume Control System (System 08)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
CVCS-2-HCV-142	Masoneilan Intl	NF	N/A	C0163532	0048	Unknown	Replacement	No (07)
Line 2-46	PG&E	NF	N/A	C0164120	0046	N/A	Replaced	No (15) *
Line 2-42	PG&E	NF	N/A	C0164269	0042	N/A	Replaced	No (13)(15)
Line 2-43	PG&E	NF	N/A	C0164270	0043	N/A	Replaced	No (13)(15)
CCP 2-1	Dresser	49189	N/A	C0168519	N/A	N/A	Replacement	No (11) *
CCP 2-1	Dresser	49189	N/A	C0172073	N/A	N/A	Replacement	No (11) *

7. Description of Work 07) Replace Valve Internals 15) Replace Line Segment (see remarks for others)

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

9. Remarks 13) Replace Line Flange Bolting 11) Replace Pump Internals (pump head and cut/reweld balancing line)

* Pressure Test IAW Code Case N-416-1 NOP

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) (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 August 7, 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, August 7, 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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 And Volume Control System (System 08)
(See Below - Code Stamp Column)

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

(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)
326-53R	PG&E	AN	N/A	C0164360	N/A	Unknown	Replacement	No (2)
413-533SL	AnchorDarling	36	N/A	C0168733	0746	N/A	Replaced	Yes (3)
78-321ASL	AnchorDarling	1326	N/A	C0172123	0026	N/A	Replaced	Yes (3)
413-2SL	AnchorDarling	97	N/A	C0172125	0048	N/A	Replaced	Yes (3)

7. Description of Work 2) Replace Support Parts 3) Replace Snubber

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) (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 August 7, 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, August 7, 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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

2. Plant Diablo Canyon Power Plant Unit Two
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 Safety Injection (System 09)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
SI-2-8803B	Velan	NF	N/A	C0169971	1975	N/A	Repair	No (10)
SI-2-8805B	AnchorDarling	9193-5/70	N/A	C0170240	1988	N/A	Replacement	No (8)
Accumulator 2-1	Delta Southern	NF	2687	C0171933	N/A	1969	R/R	Yes (22) *
SI-2-8954A	Velan	NF	N/A	C0171933	N/A	N/A	Replaced	No (5) *
Accumulator 2-2	Delta Southern	NF	2688	C0171936	N/A	1969	R/R	Yes (22) *
Accumulator 2-3	Delta Southern	NF	2689	C0171937	N/A	1969	R/R	Yes (22) *

7. Description of Work 10) Repair Valve (machine bonnet) 8) Replace Bonnet Bolting (see remarks for others)

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

9. Remarks 22) Replace nozzle and Repair base-metal 5) Replace Valve
* Pressure Test IAW Code Case N-416-1 NOP

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) David A. Vosburg (Title) 8/3/01 (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/Replacement described in this Report on August 7, 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 August 7, 2001, Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) August 7, 2001 (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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 (System 09)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
71-3SL	PSA	14572	N/A	C0168705	3845	N/A	Replacement	No (3)
564-77	PG&E	N/A	N/A	C0171950	N/A	N/A	Replacement	No (2)
2216-148	PG&E	N/A	N/A	C0171983	N/A	N/A	Replacement	No (2)

7. Description of Work 2) Replace Support Parts 3) Replace Snubber

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) David A. Vosburg (Title) 8/3/01 (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector August 7, 2001, Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) August 7, 2001 (Date) CA 1828 - NB 9990 A.N.I.C. (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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 Residual Heat Removal (System 10)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
Line 2-735	PG&E	N/A	N/A	C0164331	0735	N/A	Repaired	No 22*

7. Description of Work 22) Repaired 3/4" socollet weld with improper configuration

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

9. Remarks * Pressure Test IAW Code Case N-416-1 NOP

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) (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 August 7, 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, August 7, 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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 (System 12)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
CS-2-RV-931	ACF IND	N/A	N/A	R0158960	N/A	N/A	Replaced	No (5) *
CS-2-RV-930	ACF IND	N/A	N/A	R0158961	N/A	N/A	Replaced	No (5) *

7. Description of Work 5) Replace Valve * Pressure Test IAW Code Case N-416-1 NOP

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) David A. Vosburg (Title) 8/3/01 (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector August 7, 2001, Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) August 7, 2001 (Date) CA 1828 - NB 9990 A.N.I.C. (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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 (System 12)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
76-18SL	PSA	266	N/A	C0168708	0265	N/A	Replaced	Yes (3)

7. Description of Work 3) Replace Snubber

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) David A. Vosburg (Title) 8/3/01 (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 August 7, 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 August 7, 2001 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) August 7, 2001 (Date) CA 1828 - NB 9990 A.N.I.C. (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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 Component Cooling (System 14)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
414-258BSL	PSA	17856	N/A	C0162273	0321	N/A	Replaced	Yes (3)

7. Description of Work 3) Replace Snubber

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 David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) David A. Vosburg (Title) 8/3/01 (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 August 7, 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, August 7, 2001, Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) August 7, 2001 (Date) CA 1828 - NB 9990 A.N.I.C. (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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 Structure (System 45)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
Penetration 25E	Conax Corp	3335	N/A	C0169718	N/A	N/A	Replacement	No (22 ¹)
Penetration 63	PG&E	N/A	N/A	C0171702	N/A	N/A	Replacement	No (22 ¹)
Equipment Hatch	PG&E	N/A	N/A	C0172311	N/A	N/A	Replacement	No (22 ²)
Equipment Hatch	PG&E	N/A	N/A	C0172243	N/A	N/A	Repaired	No (22 ³)

7. Description of Work 22¹) Replace Penetration Feedthrough Fitting 22²) Replace Bolting 22³) Repair 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 Repair/Replacement conforms to Section XI of the ASME Code. Signed *David A. Vosburg* Engineering Manager 8/3/01
(Owner or Owner's Designee) David A. Vosburg (Title) 8/3/01 (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/Replacement described in this Report on August 7, 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, August 7, 2001, Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) August 7, 2001 (Date) CA 1828 - NB 9990 A.N.I.C. (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 July 11, 2001
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit Two
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 Spare Parts (System 85)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases
(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)
MS-2-5167	Anchor Darling	EA998-3-1	N/A	C0165669	N/A	N/A	Repaired	No (10)
CS-2-RV-931	ACF IND	NF	N/A	C0164840	N/A	N/A	Replacement	No (7)
CS-2-RV-930	ACF IND	NF	N/A	C0164841	N/A	N/A	Replacement	No (7)
MS-2-5166	Anchor Darling	EA998-1-3	N/A	C0165854	N/A	N/A	Repaired	No (10)

7. Description of Work 10) Disc Repair for Return to Stock 7) Replace Valve Internals

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/Replacement conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 8/3/01
(Owner or Owner's Designee) David A. Vosburg (Title) 8/3/01 (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/Replacement described in this Report on August 7, 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, August 7, 2001, California Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) August 7, 2001 (Date) (State or Province, National Board)

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SECTION H
AUGMENTED EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
 (2R10)
 AUGMENTED EXAMS

MAJOR ITEM: AUGMENTED EXAMINATIONS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
	RC Pump 2-1 Flywheel: 100%	RC Pump 2-1 Flywheel	RC Pump 2-1 Flywheel & Keyway	UT	5-8-01		NRI
	RC Pump 2-2 Flywheel: 100%	RC Pump 2-2 Flywheel	RC Pump 2-2 Flywheel & Keyway	UT	5-10-01		NRI

SECTION I
CONTAINMENT EXAMINATIONS

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
(2R10)
CONTAINMENT EXAMS (CONCRETE)

MAJOR ITEM: CONTAINMENT EXAMINATIONS

PAGE 1 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
L1.11	CONCRETE U-2 EXTERIOR	Dome & Cylinder		VT-3C	07-11-01	Completed all accessible portions	NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
(2R10)
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	10-12-99	Completed in 2R9	NRI
E4.11	RHR Sump		Liner	VT -1	10-20-99	Completed in 2R9	NRI
E4.12	RHR Sump	Thickness Grid	Liner	UT	10-14-99	Completed in 2R9	NRI
E8.10	Equipment Hatch	Cover	Bolting	VT-1	5-12-01	Bolts examined (1/3 of total) * Indication recorded IAW Procedure N-VT-1 Rev. 6.	RI
	Mini-Equipment Hatch	Penetration 58	Bolting	VT-1	5-16-01	12 bolts examined, credit taken for 4.	NRI
	Mini-Equipment Hatch	Penetration 60	Bolting	VT-1	5-16-01	12 bolts examined, credit taken for 4.	NRI
	Vacuum/Pressure Relief	Penetration 63	Bolting	VT-1	5-16-01	12 bolts examined, credit taken for 4.	NRI
	Fuel Transfer Tube	Penetration 64	Bolting	VT-1	5-15-01	14 bolts examined, credit taken for 7.	NRI

*Indication documented on A0531657, acceptable after grind-out and engineering evaluation.

SECTION J

RISK-INFORMED ISI EXAMINATIONS

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
(2R10)

MAJOR ITEM: RISK-INFORMED ISI

PAGE 1 of 2

DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
HL Recirc bef 2V-8702	2S6-109-14SPL	WIB-251A	UT	5-6-01	Risk category = 4. Degradation mechanisms = none	NRI
Loop 1 Cold Leg RCS Vent & Fill	2S6-1140-2SPL	WIB-975G	PT	5-5-01	Risk category = 4. Degradation mechanisms = none	NRI
Loop 1 Cold Leg RCS Vent & Fill	2S6-1140-2SPL	WIB-975H	PT	5-7-01	Risk category = 4. Degradation mechanisms = none	NRI
Loop 2 Crossover Stub	2S6-1147-3SPL	WIB-124A	UT	5-2-01	Risk category = 4. Degradation mechanisms = none	NRI
Pzr Power RV 2PCV-455C	2S6-1172-3SPL	WIB-402	UT	5-2-01	Risk category = 4. Degradation mechanisms = none	NRI
Loop 1 Spray Line	2S6-13-4SPL	WIB-65C	UT	5-2-01	Risk category = 4. Degradation mechanisms = none	NRI
Loop 1 Spray Line	2S6-13-4SPL	WIB-65D	UT	5-2-01	Risk category = 4. Degradation mechanisms = none	NRI
Loop 2 Spray Line	2S6-14-4SPL	WIB-91	UT	5-2-01	Risk category = 4. Degradation mechanisms = none	NRI
Pzr Spray Line	2S6-15-4SPL	WIB-332	UT	5-2-01	Risk category = 4. Degradation mechanisms = none	NRI
Pzr Spray Line	2S6-15-4SPL	WIB-335	UT	5-2-01	Risk category = 4. Degradation mechanisms = none	NRI
Pzr Spray Line	2S6-15-4SPL	WIB-336	UT	5-2-01	Risk category = 4. Degradation mechanisms = none	NRI

SECOND INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT
(2R10)

MAJOR ITEM: RISK-INFORMED ISI

PAGE 2 of 2

DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
Pzr Surge Line	2*16-14SPL	WIB-433B	UT	5-11-01	Risk category = 2. Degradation mechanisms = TASCs and TT	NRI
RHR Exchs Outlet Cross-Tie	2S1-2458-8	WIC-125	UT	4-20-01	Risk category = 4. Degradation mechanisms = none	NRI
Residual Ht Rem Pp 1 Disch	2S1-112-8	WIC-37	UT	4-17-01	Risk category = 4. Degradation mechanisms = none	NRI
Residual Ht Rem Pp 1 Disch	2S1-112-8	WIC-38	UT	4-17-01	Risk category = 4. Degradation mechanisms = none	NRI
RHR to SIS PP 2 & Cont Spr	2S1-735-8	WIC-269	UT	4-13-01	Risk category = 4. Degradation mechanisms = none	NRI
RHR to SIS PP 2 & Cont Spr	2S1-735-8	WIC-270	UT	4-13-01	Risk category = 4. Degradation mechanisms = none	NRI
Res Ht Exchanger 1 Outlet	2S1-118-8	WIC-57C	UT	4-17-01	Risk category = 4. Degradation mechanisms = none	NRI
Res Ht Exchanger 1 Outlet	2S1-118-8	WIC-57G	UT	4-17-01	Risk category = 4. Degradation mechanisms = none	NRI
Res Ht Exchanger 1 Outlet	2S1-118-8	WIC-57H	UT	4-17-01	Risk category = 4. Degradation mechanisms = none	NRI