



**Pacific Gas and
Electric Company**

James R. Becker
Vice President-Diablo Canyon
Operations and Station Director

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

805.545.3462
Fax: 805.545.4234

June 21, 2003

PG&E Letter DCL-03-074

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 Eleventh 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 eleventh refueling outage inservice inspections of Class 1 and 2 components and supports.

Sincerely,



James R. Becker

ddm/469/R0224756

cc/enc: Thomas P. Gwynn
David H. Jaffe
David L. Proulx
State of California, Pressure Vessel Unit
cc: Diablo Distribution

A047

Enclosure
PG&E Letter DCL-03-074

**INSERVICE INSPECTION REPORT FOR
DCPP UNIT 2 ELEVENTH 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: 
ISI Specialists: Thomas L. Alcott, Terry G. Carraher, and Chris T. Beard

Reviewed By: 
James E. Hill, Lead ISI Specialist

Approved By: 
Patrick Nugent, 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 eleventh refueling outage from February through March, 2003. The DCPP Unit 2 eleventh refueling outage (2R11) was the second outage in the second period within the second 10-year ISI interval.

In addition to the ASME Code examinations reported here, a 100% bare metal examination was conducted on the reactor vessel top head penetration nozzles. The reactor bottom head penetration nozzles also received a visual examination. No evidence of boric acid leakage was found. These examinations were reviewed by regional NRC staff, and results are on file at the plant site.

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 the period following 2R10, and up to and including 2R11, 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 2R11 work packages closed prior to April 26, 2003 and for any pre-2R11 work packages closed after July 11, 2001. NIS-2 reports for 2R11 work packages that are closed after April 25, 2003 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 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. 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 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 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.

8. Examination Dates 02/03 to 03/03
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 2002, Revision 2
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for current interval. 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

Date 6/4/03 20 Signed Engineering Manager By Dw S Kelly for
Owner Patrick Nugent

Date June 6 2003

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 2 Items

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Class 2 Piping Supports	Various	N/A	N/A	N/A
Class 2 Piping	M.W. Kellog/ Pullman Power	N/A	N/A	N/A
Steam Generator 2-1	Westinghouse	1161	N/A	68-89
RHR Heat Exchanger 2-1	Engineers and Fabricators Company	S-15588-C	N/A	1112

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 02/03 to 03/03
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 2002, Revision 2
13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for current interval. 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 6/4/03 20 Signed Engineering Manager By DWS for
Owner Patrick Nugent

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 2/03 to 3/03, 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 June 6 20 03

SECTION C
CLASS ONE COMPONENTS

**SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
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 2 Closure Hd	1-205C	UT	2-14-03	* Acceptable In-Accordance-With IWB-3510	RI*
	Head Welds - Meridional	RPV 2 Closure Hd	1-205D	UT	2-14-03		NRI
B1.40	Head to Flange Weld (1/3)	RPV 2	6-205A	MT	2-13-03		NRI
	Head to Flange Weld (1/3)	RPV 2	6-205A	UT	2-14-03	68% Weld Coverage (Relief Request #NDE-5, PGE Letter DCL-96-199)	NRI
B-G-2							
B7.80	CRD Housings: Bolts <2" diam	RPV2	Part Length CRDM K-4, 6 Bolts	VT-1	2-21-03		NRI
	CRD Housings: Bolts <2" diam	RPV2	Part Length CRDM F-4, 6 Bolts	VT-1	2-21-03		NRI

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
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 Btm Head Circ Weld (1/3)	Pressurizer 2	Girth 1	UT	2-10-03		NRI
B-H							
B8.20	Support Skirt Weld (1/3)	Pressurizer 2	Girth 10	MT	2-9-03	50% Coverage (MT Performed on Surface Exam Area A-B of IWB-2500-13 IAW Relief Request #NDE-26, R1). See Below for remaining coverage.	NRI
	Support Skirt Weld (1/3)	Pressurizer 2	Girth 10	UT	2-10-03	50% Coverage (UT Performed on Surface Exam Area C-D of IWB-2500-13 IAW Relief Request #NDE-26, R1). Completing 100% Coverage.	NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (2R11)

MAJOR ITEM: STEAM
GENERATORS

ASME SECTION XI SYSTEMS - CLASS 1

CAT
B16.20

STEAM GENERATOR TUBING

PAGE 1 of 1

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 to 46 U-bends	Plus Point	100%	100%	100%	100%
Repeat PWSCC indications at dents and top of tubesheet	Plus Point	100%	100%	100%	100%
Hot Leg top-of tubesheet	Plus Point	100%	100%	100%	100%
Cold Leg top-of tubesheet	Plus Point	20%	20%	20%	100%
≥ 5 volt dented TSP intersections	Plus Point	100%	100%	100%	100%
> 2 and < 5 volt dented TSP intersections	Plus Point (Note-1)	20% at 1H	100% at 1H to 5H, 20% at 6H	100% at 1H to 3H, 20% at 4H	100% at 1H to 3H, 20% at 4H
Distorted OD bobbin signals (DOS) at TSP intersections	Plus Point	100%	100% of DOS greater than 1.2 bobbin volts	100% of DOS greater than 1.2 bobbin volts	100% of DOS greater than 1.2 bobbin volts
Distorted ID bobbin signals (DIS) at TSP intersections	Plus Point	100%	100%	100%	100%
> 5 volt free span dings	Plus Point	100%	100%	100%	100%
Baseline TSP ligament indications	Plus Point	100%	100%	100%	100%
Tubes plugged		29	91	10	10
Tubes unplugged		NA	150	NA	NA

Note 1: For each 20% sample, inspected at least 50 dents, or else inspected 100% if there were less than 50 dents.

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
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-J	Pressurizer Surge Line	*-16-14SPL	WIB-434	UT	2-18-03		NRI
	Pressurizer Surge Line	*-16-14SPL	WIB-436	UT	2-12-03		NRI
	Pressurizer Surge Line	*-16-14SPL	Elbow From WIB- 436 to WIB-437	UT	2-12-03		NRI
	Charging Line Aux Spray	S6-51-2SPL+	WIB-790	PT	2-13-03		NRI
	Boron Inj Tk Out Loop 2 Cold	S6-1992-1½ SPL+	WIB-564	PT	2-18-03		NRI
	Boron Inj Tk Out Loop 2 Cold	S6-1992-1½ SPL+	WIB-563	PT	2-18-03		NRI
	Boron Inj Tk Out Loop 3 Cold	S6-1993-1½ SPL+	WIB-660	PT	2-19-03		NRI
	Boron Inj Tk Out Loop 3 Cold	S6-1993-1½ SPL+	WIB-659	PT	2-19-03		NRI
	Boron Inj Tk Out Loop 4 Cold	S6-1994-1½ SPL+	WIB-736	PT	2-19-03		NRI
	Boron Inj Tk Out Loop 4 Cold	S6-1994-1½ SPL+	WIB-735	PT	2-19-03		NRI

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
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
B-J cont'd.	Pressurizer PWR RV PCV 474	S6-1171-3SPL+	WIB-410	UT	2-18-03		NRI
	Pressurizer RV 8010B Inlet	S6-728-6SPL+	WIB-425	UT	2-18-03		NRI
	Accumulator Injection Loop 2	S6-254-10SPL+	WIB-168	UT	2-20-03		NRI

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
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
<hr/>							
B-K-1							
B10.10	HL Recirc bef 2V- 8702: Weld. Att.	2S6-109-14SPL	72-20SL	PT	2-18-03		NRI
	Accum. Injection Lp 2: Weld. Att.	2S6-254-10SPL	2-24V	PT	2-20-03		NRI
	Pzr PRV 2PCV- 455C: Weld. Att.	2S6-1172-3SPL	989-29R	PT	2-18-03		NRI
B10.20	RC Pump 2-1: Welded Attachment	RCP 2-1 Support Lug	Lug Weld No. 1	PT	2-19-03		NRI

SECTION D

CLASS TWO COMPONENTS

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
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							
C1.10	Shell Circ. Welds	Steam Generator 2-1	Girth W1-4	UT	2-12-03		NRI

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: HEAT EXCHANGERS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-A							
C1.10	Shell Circ. Welds	RHR Heat Exchanger 2-1	Girth Weld Item 21 (Shell-to-Flange)	PT	1-28-03	Surface examinations performed in-lieu of 100% volumetric as specified in Relief Request NDE#17	NRI
C-B							
C2.21	Nozzles in Vessels NozzleShell Weld	RHR HX 2-1 to 2S1-112-8	Inlet Nozzle-to-Shell Weld Item 24	PT	1-28-03	Surface examinations performed in-lieu of 100% volumetric as specified in Relief Request NDE#18	NRI

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: INTEGRAL
ATTACHMENTS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-C							
C3.20	S/G Stm Out 2-2: Weld. Attachment	Line 2K15-227- 28V	2025-15R Attachment	MT	2-18-03		NRI
	S/G Stm Out 2-2: Weld. Attachment	Line 2K15-227- 28V	2022-1V Attachment	MT	2-14-03		NRI
	Chg Pp 2-1 Disch: Weld. Attachment	Line 2S6-45-4	23-35R Attachment Lugs	PT	1-29-03		NRI
	Chg Pp 2-2 BP Sup: Weld. Att.	Line 2S6-1475-3	23-37R Attachment Lugs	PT	1-29-03		NRI

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
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-2	RC Pps Barrier CCW Ret Hdr	K17-1357-6	WIC-1357B	UT	2-10-03		NRI
	RC Pps Barrier CCW Ret Hdr	K17-1357-6	WIC-1357C	UT	2-10-03		NRI
C-F-1	Cent Chrg Pump 2 Discharge	S6-46-4	WIC-46A	UT	1-29-03		NRI
	Residual Ht Rem Pp 2 Disch	S1-113-8III	RB-113-4	UT	1-29-03		NRI
	Residual Ht Rem Pp 2 Disch	S1-113-8III	RB-113-5	UT	1-29-03		NRI

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CANYON

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (2R11)

MAJOR ITEM: SUPPORTS

ASME SECTION XI SYSTEMS - CLASS 2

PAGE 1 of 1

CATEGORY

F-A

SUPPORTS

F1.10 TO F1.70

SUPPORT COMPONENTS

The required inservice inspections were performed on 28 Class 2 hangers during the eleventh refueling outage between the dates of 02/06/03 and 02/16/03. Results were found acceptable. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
53	23-43R	54	564-109	746	49-110R	1466	923-48
53	24-30A	54	564-155	746	49-113R	1466	923-61
53	414-621R	54	564-199	746	49-191R	1477	949-194
54	564-18	54	564-205	746	414-314R	2046	413-97A
54	564-25	54	1548-45	746	949-28R		
54	564-33	54	2216-5	1357	7-29V		
54	564-37	54	2216-19	1464	923-55		
54	564-65	554	2048-15R	1464	923-91		

SECTION E
SYSTEM PRESSURE TESTS

PG&E

DIABLO CANYON POWER PLANT -
UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (2R11)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 1 of 4

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
1	1	Reactor Coolant System and Connected Piping	3/15/03	STP R-8A	NRI
3	2	Auxiliary Feedwater Pump X-1 Discharge	3/26/2003		NRI
4	2	RCS Loops 1 & 4 Hot Leg Sample Lines	3/15/2003		NRI
5	2	Pressurizer Sample Lines	3/15/2003		NRI
6	2	XS Ltdn HX & piping from 8167 to HCV-123	3/15/2003		NRI
7	2	RCP Hi Press Seal Water out & XS Ltdn HX outlet piping	3/15/2003		NRI
8	2	Charging Pumps Discharge Piping	3/26/2003		NRI
9	2	Recip Chg Pump & Disch Piping to 8475	4/11/2003		NRI
10	2	Alt Charging Between 8483, 8147 & 8379A	3/15/2003		NRI
11	2	Charging Injection 8803A & B to 8801A & B	2/20/2003		NRI

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DIABLO CANYON POWER PLANT -
UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (2R11)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 2 of 4

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
12	2	Charging Injection 8801A & B to 8820	3/15/2003		NRI
13	2	Charging Pumps & Suction Piping	1/31/2003		NRI
15	2	Boric Acid Pumps Disch Piping	3/15/2003		NRI
15A	2	Boric Acid Pumps Disch Piping Between 8104 and 8445	1/8/2003		NRI
16	2	Boric Acid Tanks to Pump Disch Iso Valves	3/15/2003		NRI
17	2	Accumulator Injection Loops 1-4, Sample Lines to 9352A-D, Test & Fill lines to 8878A-D	3/15/2003		NRI
19	2	RWST & Supply to RHR, Cont Spray, SI, Refueling Wtr Purification Pumps & Recirc Line to RHR HX	3/10/2003		NRI
21	2	Safety Injection Pump Discharge to 8802A & B and Cold Legs	3/15/2003		NRI
22	2	Safety Injection Pumps Discharge to Hot Legs from 8802A & B to 8904A-D	3/15/2003		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (2R11)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 3 of 4

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
23	2	RHR Pumps and Discharge Piping	3/10/2003		NRI
24	2	RHR Hot Leg injection from 8703 to 8740A & B	3/15/2003		NRI
25	2	Spray Additive Tank and Unisolable piping	2/5/2003		NRI
30	2	CCW Supply & Return to Cont Fan Coolers, RCPs and XS Letdown Heat Exchanger	1/16/2003		NRI
31	2	Steam Generator Nitrogen Supply	2/8/2003		NRI
34	2	PZR Relief Tank Nitrogen Supply (pen 52)	2/8/2003		NRI
35	2	Primary Water Supply to PZR Relief Tank (pen 52)	2/8/2003		NRI
36	2	Accumulator Tanks N2 Supply Header. (pen 51)	2/11/2003		NRI
37	2	Accumulators Sample Header	3/15/2003		NRI
38	2	Fuel Transfer Tube to Refueling Canal	2/17/2003		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (2R11)**MAJOR ITEM: PRESSURE TESTS****ASME SECTION XI SYSTEMS - CLASS 1 & 2**

PAGE 4 of 4

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
39	2	Auxiliary Steam Containment Penetration	2/10/2003		NRI
40	2	Firewater Supply Before Containment (pen 79)	3/4/2003		NRI
41	2	Refueling Canal Water Inlet (pen 46)	2/25/2003		NRI
42	2	Reactor Coolant Drain Tank N2 Sup. (pen 52)	2/8/2003		NRI
43	2	Reactor Coolant Drain Pumps Disch Header. (pen 50)	2/27/2003		NRI
44	2	Inside Cont Inst Air Supply Header. (pen 54)	2/11/2003		NRI
45	2	Service Air (pen 56)	2/8/2003		NRI

SECTION F
PRESERVICE INSPECTION ITEMS

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

**SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
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
<hr/> B-G-2 <hr/>							
B7.70	Safety Inj Lp 1 HL: Bolts <2" diameter	S6-235-6SPL+	2V-8949A: 12 Studs & Nuts	VT-1	8-14-02		NRI
B7.70	Safety Inj Lp 1 HL: Bolts <2" diameter	S6-235-6SPL+	2V-8949B: 12 Studs & Nuts	VT-1	1-23-03		NRI
B7.70	Safety Inj Lp 1 HL: Bolts <2" diameter	S6-235-6SPL+	2V-8949C: 12 Studs & Nuts	VT-1	1-23-03		NRI
Aug	RCP Flywheel	RCP 2-1	RCP Flywheel	UT	2-18-03	Augmented – following replacement	NRI

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

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 pre-service inspections were performed on 8 supports during the eleventh refueling outage. Results were acceptable.

SUPPORT	LINE
7-4V	255
412-143SL	1171
75-15SL	223
78-520SL	56
23-67R	2994
Support Structure RCP 2-4	
78-419SL	57
UBOC Support	RCP 2-2

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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 2
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)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
FW-2-369	Weston	N/F	N/A	C0172541	569	N/A	Replaced (3)	<input type="checkbox"/>	No
FW-2-533	Rockwell	456065	N/A	C0176118	By-Pass	N/A	Replaced (4)	<input checked="" type="checkbox"/>	Yes
FW-2-370	Anchor Darling	N/F	N/A	C0182321	575	N/A	Replaced (4)	<input checked="" type="checkbox"/>	No
FW-2-377	Anchor Darling	N/F	N/A	C0182368	569	N/A	Replaced (4)	<input checked="" type="checkbox"/>	No
								<input type="checkbox"/>	

7. Description of Work (3) Replaced Valve Internals (4) Replaced Valve

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other _____
 Pressure _____ PSIG Test Temp. _____ °F ☒ Pressure Test Conducted IAW Code Case N-416-1

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 Don Shelly Engineering Manager 6/6/03
 (Owner or Owner's Designee) Patrick Nugent (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 6-6, 2003 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 June 6, 2003 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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 2
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 Feedwater System (03)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
413-307R	PG&E	N/A	N/A	C0182368	569	N/A	Replaced (17)	<input type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (17) Modified Support

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other
 Pressure PSIG Test Temp. °F ☐ Pressure Test Conducted IAW Code Case N-416-1

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 Dw Shelly for Engineering Manager 6/4/03
 (Owner or Owner's Designee) Patrick Nugent (Title) (Date)

CERTIFICATE OF INSPECTION

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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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

2. Plant Diablo Canyon Power Plant Unit 2
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 (04)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
MS-2-2056	Flowserve Corp	N/F	N/A	C0181569	1041	N/A	Replaced (4)	<input checked="" type="checkbox"/>	No
MS-2-PCV-22	Copes-Vulcan	N/F	N/A	C0173293	1066	N/A	Replaced (3) (5)	<input type="checkbox"/>	No
MS-2-PCV-21	Copes-Vulcan	N/F	N/A	C0173650	1065	N/A	Replaced (3) (5)	<input type="checkbox"/>	No
MS-2-PCV-19	Copes-Vulcan	N/F	N/A	C0174252	228	N/A	Replaced (6)	<input type="checkbox"/>	No
MS-2-PCV-20	Copes-Vulcan	N/F	N/A	C0174253	227	N/A	Replaced (6)	<input type="checkbox"/>	No

7. Description of Work (3) Replaced Valve Internals (4) Replaced Valve (5) Replaced Bonnet Bolting (6) Replaced Flange Bolting

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other
Pressure PSIG Test Temp. °F ☒ Pressure Test Conducted IAW Code Case N-416-1

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 Shelly for Engineering Manager 6/6/03
(Owner or Owner's Designee) Patrick Nugent (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 / Replacement described in this Report on 6-6, 2003 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 June 6, 2003 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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1
2. Plant Diablo Canyon Power Plant Unit 2
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 Turbine Steam Supply System (04)
5. (a) Applicable Construction Code (See Work Order) 19 ___ Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Case N-416-1
6. Identification of components Repaired or Replaced, and Replacement Components.

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
49-20R	PG&E	N/A	N/A	C0181569	1041	N/A	Replaced (18)	<input type="checkbox"/>	No
413-422R	PG&E	N/A	N/A	C0178103	1042	N/A	Replaced (19)	<input type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (18) Install Splice Plates (19) Removed Reinstalled Parts By Welding
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other _____
Pressure _____ PSIG Test Temp. _____ °F ☐ Pressure Test Conducted IAW Code Case N-416-1
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 Patrick Nugent for Engineering Manager 6/4/03
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2
2. Plant Diablo Canyon Power Plant Unit 2
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 Reactor Coolant System (07)
5. (a) Applicable Construction Code (See Work Order) 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Case N-416-1
6. Identification of components Repaired or Replaced, and Replacement Components.

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
RCS-2-8000A	Velan Valve	N/F	N/A	C0178091	1171	Unk	Replaced (5)	<input type="checkbox"/>	Yes
RCS-2-8000B	Velan Valve	N/F	N/A	C0178092	1172	Unk	Replaced (5)	<input type="checkbox"/>	Yes
RCS-2-8000C	Velan Valve	N/F	N/A	C0178093	1195	Unk	Replaced (5)	<input type="checkbox"/>	Yes
RCS-2-RV-8010A	Crosby	U2C	N/A	R0222938	729	1998	Replaced (4)	<input checked="" type="checkbox"/>	Yes
RCS-2-RV-8010B	Crosby	UIB	N/A	R0223172	728	1998	Replaced (4)	<input checked="" type="checkbox"/>	Yes

7. Description of Work (5) Replaced Bonnet Bolting (4) Replaced Valve
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other
Pressure PSIG Test Temp. °F ☒ Pressure Test Conducted IAW Code Case N-416-1
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 Deo Shelly for Engineering Manager 6/14/03
(Owner or Owner's Designee) Patrick Nugent (Title) (Date)

CERTIFICATE OF INSPECTION

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1. Owner	Pacific Gas and Electric Company	Date	April 26, 2003
	77 Beale Street, San Francisco, CA 94106	Sheet	2 of 2

2. Plant	Diablo Canyon Power Plant	Unit	2
	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)

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

[illegible]

(Applicable Manufacturer's Data Reports to be Attached)

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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 2
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)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
412-143SL	Pacific Scientific	9098	N/A	C0178275	1171	N/A	Replaced (10)	<input type="checkbox"/>	No
RCP 2-4 Support	Westinghouse	N/F	N/A	C0181255	RCP 2-4	N/A	Replaced (17)	<input type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (10) Replaced Snubber (17) Modified Support

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other _____
Pressure _____ PSIG Test Temp. _____ °F ☐ Pressure Test Conducted IAW Code Case N-416-1

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 Patrick Nugent for Engineering Manager 6/6/03
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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As Required by the Provisions of ASME Code Section XI

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

2. Plant Diablo Canyon Power Plant Unit 2
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 Chemical and Volume Control System (08)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
Centrifugal Charging Pump 2-1	Pacific Pumps	49189	N/A	C0174767	CCP 2-1	N/A	Repaired (13)	<input type="checkbox"/>	No
Centrifugal Charging Pump 2-1	Pacific Pumps	49189	N/A	C0174848	CCP 2-1	N/A	Repaired (15)	<input type="checkbox"/>	No
CVCS-2-8378A	Velan Valves	N/F	N/A	C0179109	50	N/A	Replaced (3)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (3) Replaced Valve Internals (13) Weld Build-Up (15) Machined Seal Housing

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other
Pressure PSIG Test Temp. °F ☐ Pressure Test Conducted IAW Code Case N-416-1

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 Patrick Nugent Engineering Manager 6/6/03
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 2
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 (08)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
78-419SL	Anchor Darling	115	N/A	C0178251	57	N/A	Replaced (10)	<input type="checkbox"/>	Yes
78-520SL	Anchor Darling	147	N/A	C0178255	56	N/A	Replaced (10)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (10) Replaced Snubber

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other _____
Pressure _____ PSIG Test Temp. _____ °F ☐ Pressure Test Conducted IAW Code Case N-416-1

9. Remarks

CERTIFICATE OF COMPLIANCE

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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1
2. Plant Diablo Canyon Power Plant Unit 2
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)
5. (a) Applicable Construction Code (See Work Order) 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Case N-416-1
6. Identification of components Repaired or Replaced, and Replacement Components.

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
SI-2-8949A	Velan Valves	N/F	N/A	C0176755	235	N/A	Replaced (5)	<input type="checkbox"/>	No
SI-2-8949B	Velan Valves	N/F	N/A	C0176756	236	N/A	Replaced (5)	<input type="checkbox"/>	No
SI-2-8949C	Velan Valves	N/F	N/A	C0176757	237	N/A	Replaced (5)	<input type="checkbox"/>	No
SI-2-214	Contromatics	N/F	N/A	C0179417	3136	N/A	Replaced (7)	<input type="checkbox"/>	No
								<input type="checkbox"/>	

7. Description of Work (5) Replaced Bonnet Bolting (7) Extended ISI Boundary
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other _____
Pressure _____ PSIG Test Temp. _____ °F ☐ Pressure Test Conducted IAW Code Case N-416-1
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 Do Shelly for Engineering Manager 6/4/03
(Owner or Owner's Designee) Patrick Nugent (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 6-6, 2003 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 June 6, 2003 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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 2
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)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
7-4V	PG&E	N/A	N/A	C0181210	255	N/A	Replaced (17)	<input type="checkbox"/>	No
75-15SL	Anchor Darling	61	N/A	C0178262	223	N/A	Replaced (10)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (10) Replaced Snubber (17) Modified Support

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other
Pressure PSIG Test Temp. °F ☐ Pressure Test Conducted IAW Code Case N-416-1

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 Patrick Nugent Engineering Manager 6/6/03
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector June 6, 2003 Commissions CA 1828 - NB 9990 A.N.I.C.
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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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 2
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)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
RHR-2-RV-8707	Crosby	RV-1-8707-PEG	N/A	R0223078	1167	N/A	Replaced (4)	<input checked="" type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (4) Replaced Valve

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other
Pressure PSIG Test Temp. °F ☒ Pressure Test Conducted IAW Code Case N-416-1

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 Patrick Nugent Engineering Manager 6/4/03
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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(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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 2
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)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
Containment Spray Pump 2-2	Goulds Pumps Inc.	221B174-2	N/A	C0181144	N/A	N/A	Replaced (8)	<input type="checkbox"/>	No
CS-2-RV-931	ACF IND	N/F	N/A	R0223097	N/A	N/A	Replaced (4)	<input checked="" type="checkbox"/>	No
CS-2-RV-930	ACF IND	N/F	N/A	R0223098	N/A	N/A	Replaced (4)	<input checked="" type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (4) Replaced Valve (8) Replaced Gland Plate Bolting

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☒ Nominal Operating Pressure ☐ Other _____
Pressure _____ PSIG Test Temp. _____ °F ☒ Pressure Test Conducted IAW Code Case N-416-1

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 Patrick Nugent Engineering Manager 6/4/03
(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 6-6, 2003 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.

Kerry D. Kim Inspector June 6, 2003 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 April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 2
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 Water System (14)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
414-258BSL	Pacific Scientific	13637	N/A	C0178277	321	N/A	Replaced (10)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (10) Replaced Snubber

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other
Pressure PSIG Test Temp. °F ☐ Pressure Test Conducted IAW Code Case N-416-1

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 Patrick Nugent Engineering Manager 6/6/03 (Date)
(Owner or Owner's Designee)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector June 6, 2003 Commissions CA 1828 - NB 9990 A.N.I.C
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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 April 23, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 2
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 System (19)

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

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

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
72-38SL	Pacific Scientific	7829	N/A	C0181507	3729	1976	Replaced (10)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (10) Replaced Snubber

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other
Pressure PSIG Test Temp. °F ☐ Pressure Test Conducted IAW Code Case N-416-1

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 Patrick Nugent Engineering Manager 6/6/03
(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 6-6, 2003 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 June 6, 2003 Commissions CA 1828 - NB 9990 A.N.I.C
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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date April 26, 2003
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1
2. Plant Diablo Canyon Power Plant Unit 2
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 Vent and Air Conditioning System (23)
5. (a) Applicable Construction Code (See Work Order) 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Case N-416-1
6. Identification of components Repaired or Replaced, and Replacement Components.

Name of Component	Name of Manufacture	Manufactures Serial No.	Nat'l bd. No	Work Order No.	Other Ident. Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
VAC-2-FCV-662	Fisher Controls	162028	N/A	C0181801	647	N/A	Replaced (3)	<input type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (3) Replaced Valve Internals
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Other _____
Pressure _____ PSIG Test Temp. _____ °F ☐ Pressure Test Conducted IAW Code Case N-416-1
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 Patrick Nugent Engineering Manager 6/4/03
(Owner or Owner's Designee) (Title) (Date)

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Kenny D. Kim
Kenny D. Kim

Inspector
(Title)

June 6, 2003
(Date)

Commissions CA 1828 - NB 9990 A.N.I.C
(State or Province, National Board)

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SECTION H
CONTAINMENT EXAMINATIONS

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(2R11)
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
E-A							
E1.11	Containment Liner		Liner	General	2-25-03		NRI
E-C							
E4.11	Containment Liner	RHR Sump	Visible Surfaces of Aug. Areas (1/3)	VT-1	2-17-03	* AR A0575603 Chipped paint - Maintenance work order R0222090 repaired chipped area. No material degradation.	NRI*
E4.12	Containment Liner	RHR Sump	Surface Area Grid	UT	2-17-03		NRI
E-G							
E8.10	Containment Liner	Bolted Connections	Pen #58 (Mini Equipment) (1/3)	VT-1	2-19-03		NRI
			Pen #60 (Mini Equipment) (1/3)	VT-1	2-19-03		NRI