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March 11, 2005

PG&E Letter DCL-05-022

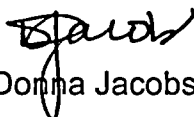
U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Docket No. 50-323, OL-DPR-82
Diablo Canyon Power Plant Unit 2
Inservice Inspection Report for Unit 2 Twelfth Refueling Outage

Dear Commissioners and Staff:

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

Sincerely,



Donna Jacobs

ddm/469/R0248063

Enclosure

cc: Diablo Distribution
cc/enc: Bruce S. Mallett
David L. Proux
Girija S. Shukla
State of California, Pressure Vessel Unit

A047

Enclosure
PG&E Letter DCL-05-022

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

Diablo Canyon Power Plant

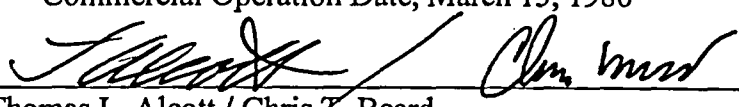
Unit 2

USNRC Docket No. 50-323

Operating License No. DPR-82

Commercial Operation Date, March 13, 1986

Prepared By:


ISI Specialists: Thomas L. Alcott / 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 twelfth refueling outage from October through December, 2004. The DCPP Unit 2 twelfth refueling outage (2R12) was the first outage in the third period within the second 10-year ISI interval.

In addition to the ASME Code examinations reported here, a 100% ultrasonic examination and bare metal visual examination was conducted on the reactor vessel top head penetration nozzles. The reactor bottom head penetration nozzles also received a 100 % bare metal 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. This introduction is 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 2R11, and up to and including 2R12, 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 2R12 work packages closed prior to or on January 16, 2005 and for any pre-2R12 work packages closed after April 25, 2003. NIS-2 reports for 2R12 work packages that are closed after January 16, 2005 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 68101	12962-85	21359
Pressurizer	Westinghouse	1171	N/A	68-106
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
RCP 2-1	Westinghouse	711	N/A	N/A
RCP 2-4	Westinghouse	714	N/A	N/A
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 1/2 in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-1 (back)

- 8. Examination Dates 10/04 to 12/04
- 9. Inspection Period Identification: Third
- 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 March 1 20 05 Signed Engineering Manager By Patrick Nugent
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 10/04 to 12/04, 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 March 1 2005

FORM NIS-1 (back)

- 8. Examination Dates 10/04 to 12/04
- 9. Inspection Period Identification: Third
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- 11. Applicable Edition of Section XI 1989 Addenda None
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- 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 March 1 2005 Signed Engineering Manager By Patrick Nugent
 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 10/04 to 12/04, 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 S. Kim Commissions CA 1828, NB 9990 A.N.I.C.
 Inspector's Signature/Kenny Kim National Board, State, Province and, endorsements.

Date March 1 2005

SECTION C

CLASS ONE COMPONENTS

 SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12) MAJOR ITEM: REACTOR VESSEL

ASME SECTION XI SYSTEMS - CLASS 1

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-G-1							
B6.10	RPV2 Closure Head Nuts	RPV Bolting > 2" dia.	RPV2 Nuts 37 to 54	MT	11-18-04		NRI
B6.30	RPV2 Closure Head Studs (Removed)	RPV Bolting > 2" dia.	RPV2 Studs 37 to 54	MT	11-17-04		NRI
	RPV2 Closure Head Studs (Removed)	RPV Bolting > 2" dia.	RPV2 Studs 37 to 54	UT	11-17-04		NRI
B6.50	RPV2 Closure Washers	RPV Bolting > 2" dia.	RPV2 Washer 37 to 54	VT-1	11-18-04		NRI

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12) MAJOR ITEM: PRESSURIZER

ASME SECTION XI SYSTEMS - CLASS 1

PAGE 1 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-B							
B2.11	Shell to Bottom Head Circ Weld (1/3)	Pressurizer 2	Girth 1 - one third	UT	11-5-04		NRI
	Shell to Upper Head Circ Weld (1/3)	Pressurizer 2	Girth 5 - one third	UT	10-30-04		NRI
B-D							
B3.110	Pzr 2 Safety Line Nozzle to Vessel Weld	Pzr 2 to 2S6-727- 6SPL	WIB-358 (N-V)	UT	11-4-04		NRI
	Pzr 2 Relief Line Nozzle to Vessel Weld	Pzr 2 to 2S6-730- 6SPL	WIB-379 (N-V)	UT	11-16-04		NRI
B3.110	Pzr 2 Safety Line Nozzle Inside Radius	Pzr 2 to 2S6-728- 6SPL	Inside Radius Section	UT	11-4-04		NRI

 SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12) MAJOR ITEM: PRESSURIZER

ASME SECTION XI SYSTEMS - CLASS 1

 PAGE 2 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-H							
B8.20	Support Skirt Weld (1/3)	Pressurizer 2	Girth 10 - one third	MT	11-5-04		NRI
	Support Skirt Weld (1/3)	Pressurizer 2	Girth 10 - one third	UT	11-10-04		NRI

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12)

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 10 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%
≥ 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 1.7 bobbin volts	100% of DOS greater than 1.7 bobbin volts	100% of DOS greater than 1.7 bobbin volts
Distorted ID bobbin signals (DIS) at TSP intersections	Plus Point	100%	100%	100%	100%
≥ 5 volt free span dings	Plus Point	20%	20%	20%	20%
≥ 2 volt dings at AVB structures	Plus Point	20%	20%	20%	20%
Baseline TSP ligament indications	Plus Point	100%	100%	100%	100%
Deplugged tube plug expansion zone (PEZ)	Plus Point	100%	100%	100%	100%
Tubes unplugged		10	19	5	17

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

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12)

MAJOR ITEM: PIPING, PUMPS

ASME SECTION XI SYSTEMS - CLASS 1

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-J	See RI-ISI						
B-L-1							
B12.10	RC Pump 2-4: Pump Casing Weld	RCP 2-4 Girth Weld	RCP 2-4 Girth Weld (external)	VT-1	11-10-04	Code Case N-481. VT-2 exam performed with system pressure test. WCAP-13044 and WCAP- 13045 demonstrate compliance to Code Case N- 481 for Westinghouse primary loop pump casings.	

 SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12) MAJOR ITEM: PIPING

ASME SECTION XI SYSTEMS - CLASS 1

PAGE 1 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
RI-ISI	Reac Coolant Out Loop 2	2*-2-29SPL	WIB-RC-2-3	UT	11-12-04	Substitution for WIB-RC-2-8	NRI
	Reac Coolant Pp Disch Loop 2	2*-10-27-1/2SPL	WIB-RC-2-13	UT	11-8-04	Substitution for WIB-RC-2-9	NRI
	Pressurizer RV PCV-455C In	2S6-4081-4SPL	WIB-393	UT	11-4-04		NRI
	Pressurizer RV PCV-455C In	2S6-4081-4SPL	WIB-394	UT	11-4-04		NRI
	Pressurizer RV 8010C Inlet	2S6-727-6SPL+	WIB-360	UT	10-30-04		NRI
	Reac Cool Pp 1 Seal Wtr In	2S6-54-2	WIB-848	PT	11-2-04		NRI
	Reac Cool Pp 2 Seal Wtr In	2S6-55-2	WIB-864	PT	10-29-04		NRI
	Reac Cool Pp 2 Seal Wtr In	2S6-5398-1-1/2	WIB-858N	PT	10-29-04		NRI
	Reac Cool Pp 2 Seal Wtr In	2S6-5398-1-1/2	WIB-858I	PT	10-29-04		NRI
	Reac Cool Pp 3 Seal Wtr In	2S6-56-2	WIB-875	PT	10-29-04		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
RI-ISI	Reac Cool Pp 3 Seal Wtr In	2S6-56-2	WIB-870W	PT	10-29-04		NRI
	Reac Cool Pp 3 Seal Wtr In	2S6-56-1-1/2	WIB-870S	PT	10-29-04		NRI
	Reac Cool Pp 3 Seal Wtr In	2S6-56-1-1/2	WIB-870J	PT	10-29-04		NRI
	Reac Cool Pp 4 Seal Wtr In	2S6-57-1-1/2	WIB-883K	PT	11-4-04		NRI
	Hot Leg Recirc Before V-8702	2S6-109-14SPL	WIB-245	UT	11-20-04	Substitution due to WIB-246 Obstruction	NRI
	Hot Leg Recirc Before V-8702	2S6-109-14SPL	WIB-248	UT	11-3-04	Substitution due to WIB-249 Obstruction	NRI

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12)

MAJOR ITEM: INTEGRAL ATTACHMENTS

ASME SECTION XI SYSTEMS - CLASS 1

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-K-1							
B10.10	Accumulator Injection Lp 3: Welded Attachment	2S6-255-10SPL	7-4V	PT	11-12-04		NRI
	Accumulator Injection Lp 4: Welded Attachment	2S6-256-10SPL	7-2V	PT	11-12-04		NRI
	RHR Pp 2-1 Inj Cold Leg 2: Welded	2S6-3845-6SPL	92-44V	PT	11-2-04		NRI
B10.20	RC Pump 2-1: Welded Attachment	RCP 2-1 Support Lug	Lug Weld No. 3	PT	11-19-04		NRI

SECOND INTERVAL, THIRD PERIOD, FIRST
REFUELING OUTAGE REPORT (2R12)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING SUPPORTS

PAGE 1 of 1

CATEGORY

F-A

SUPPORTS

F1.10 TO F1.70

SUPPORT COMPONENTS

The required inservice inspections were performed on 68 Class 1 hangers during the twelfth refueling outage between the dates of 10/25/04 and 12/16/04. All supports found acceptable. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
16	70-27SL	109	6-7V	13	2-15V	51	2212-28V
16	70-59SL	109	6-8V	13	92-70R	51	2212-91V
109	72-20SL	1665	6-4R	15	412-83R	51	898-4
1665	72-23SL	253	2-23V	15	92-5R	51	2212-87
1665	72-95SL	253	2-22V	15	93-1R	51	2212-90
253	70-58SL	235	70-62R	15	71-19R	54	2730-72V
255	72-84SL	235	412-130	15	92-75R	1140	326-270R
3854	71-8SL	3844	92-59R	1995	7-34R	1991	2734-23
3854	71-6SL	3844	71-72R	24	2-9V	1991	2734-39
729	71-12SL	729	414-591R	24	412-111R	1991	2217-32
13	70-26SL	729	989-1R	24	412-116R	1991	2734-37
24	412-113SL	13	2-14V	1172	989-28R	1991	2734-41
1171	412-171SL	13	92-73R	51	2212-21	1991	2734-22
1172	412-168SL	13	2-32R	51	2212-22	1991	2734-42
1195	412-153SL	13	412-110R	51	2212-25		
1195	412-154SL	13	412-45R	51	2212-29		
3858	78-77SL	13	92-10R	51	2212-88		
Pressurizer 2-1	Support Skirt	13	92-9R	51	2212-24		

SECTION D

CLASS TWO COMPONENTS

 SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12) MAJOR ITEM: HEAT EXCHANGERS

ASME SECTION XI SYSTEMS - CLASS 2

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-A							
C1.20	Head Circumferential Welds	RHR Heat Exchanger 2-1	Girth Weld Item 22 (Head-to-Shell)	PT	10-20-04	Surface examinations performed in-lieu of 100% volumetric as specified in Relief Request NDE#17, R1	NRI
C-B							
C2.21	Nozzles in Vessels >1/2" wall: Nozzle-to-Shell Weld	RHR HX 2-1 to 2S1-3551-14	Outlet Nozzle-to- Shell Weld Item 23	PT	10-20-04	Surface examinations performed in-lieu of 100% volumetric as specified in Relief Request NDE#18, R1	NRI

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12)

MAJOR ITEM: INTEGRAL ATTACHMENTS

ASME SECTION XI SYSTEMS - CLASS 2

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-C							
C3.20	RHR Pp 2-1 Inj Cold Leg 1&2: Welded Attachment	Line 2S6-508-8III	8-52A Attachment	PT	11-4-04		NRI
	RHR Pp 2-1 Inj Cold Leg 1&2: Welded Attachment	Line 2S6-508-8III	8-49R Attachment	PT	11-4-04		NRI
	Recip Chg Pp 2-3 Disch: Welded Attachment	Line 2S6-47-3	23-50R Attachment Lugs	PT	10-27-04		NRI

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12) MAJOR ITEM: PIPING, PUMPS

ASME SECTION XI SYSTEMS - CLASS 2

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-F-2	See RI-ISI						
C-F-1	See RI-ISI						
RI-ISI	RHR Injection to Hot Leg 1&2	2S1-985-12IIP	WIC-127	UT	10-21-04		NRI
	RHR Injection to Hot Leg 1&2	2S1-985-12IIP	WIC-128	UT	10-21-04		NRI
	Res Ht Exchanger 1 Outlet	2S1-118-8III	WIC-68	UT	11-19-04		NRI

PG&E

DIABLO
CANYON

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12)

MAJOR ITEM: SUPPORTS

ASME SECTION XI SYSTEMS - CLASS 2

PAGE 1 of 1

CATEGORY

F-A
F1.10 TO F1.70

SUPPORTS
SUPPORT COMPONENTS

The required inservice inspections were performed on 50 Class 2 hangers during the twelfth refueling outage between the dates of 10/25/04 and 12/16/04. Results were found acceptable. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
SG 2-3	SG-02-03-NE	RHR PP 2-2 Motor	77-18SL	508	413-213SL	1066	2033-25SL
SG 2-3	SG-02-03-NW	RHR PP 2-2 Motor	77-19SL	509	413-204SL	557	2049-13SL
SG 2-3	SG-02-03-SE	927	72-77SL	282	413-11SL	557	2049-2SL
SG 2-3	SG-02-03-SW	110	413-101SL	746	413-533SL	556	2049-14SL
SG 2-4	SG-02-04-NE	110	413-281SL	55	78-395SL	927	412-78R
SG 2-4	SG-02-04-NW	985	412-127SL	226	2033-1SL	927	6-1V
SG 2-4	SG-02-04-SE	985	412-92SL	225	2033-2SL	3551	414-563R
SG 2-4	SG-02-04-SW	985	72-75SL	1066	2033-16SL	110	22-13V
110	413-100R	110	47-141A	512	413-4R	512	22-12R
985	49-12V	985	412-98R	985	90-46A	985	90-50R
508	8-49R	508	8-52A	508	8-53R	508	6-120R
508	8-51R	508	92-51R	508	6-122R	508	92-49R
1454	23-41R	1454	46-18R				

SECTION E

SYSTEM PRESSURE TESTS

PG&E

DIABLO CANYON POWER PLANT -
UNIT 2

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 1 of 3

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
1	1	Reactor Coolant System and Connected Piping	12/8/04	STP R-8A	NRI
6	1	Charging Injection Inside Containment	12/8/04	STP R-8A and P-SI-12	NRI
7	1	Safety Injection Inside Containment, From 8905A-D to 8949A-D	12/8/04	STP R-8A and P-SI-22	NRI
1	2	Steam Generators and Connected Piping	12/14/04		NRI
2	2	Auxiliary Feedwater Pumps X-2 & X-3	12/10/04		NRI
3	2	Auxiliary Feedwater Pump X-1 Discharge	12/16/04		NRI
11	2	Charging Injection 8803A & B to 8801A & B	11/23/04		NRI
12	2	Charging Injection 8801A & B to 8820	12/8/04		NRI
13	2	Charging Pumps & Suction Piping	11/22/04		NRI

PG&E

DIABLO CANYON POWER PLANT -
UNIT 2

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 2 of 3

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
17	2	Accumulator Injection Loops 1-4, Sample Lines to 9352A-D, Test & Fill lines to 8878A-D	12/8/04		NRI
18	2	Accumulator, RHR, and Charging Test Line	10/28/04		NRI
19	2	RWST & Supply to RHR, Cont Spray, SI, Refueling Wtr Purification Pumps & Recirc Line to RHR HX	12/2/04		NRI
20	2	RWST Supply to Charging Pump Suction, 8805A & B to 8924	10/28/04		NRI
22	2	Safety Injection Pumps Discharge to Hot Legs from 8802A & B to 8904A-D	12/8/04		NRI
23	2	RHR Pumps and Discharge Piping	12/1/04		NRI
26	2	RWST Supply to Eductors	12/2/04		NRI
27	2	Containment Spray Discharge Piping to 9015A & B	11/30/04		NRI

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 3 of 3

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
28	2	Containment Spray Pump Discharge Piping from 9015A & B to 9006A & B	11/30/04		NRI
29	2	Containment Spray Ring Piping, Spec S3	11/20/04		NRI
30	2	CCW Supply & Return to Cont Fan Coolers, RCPs and XS Letdown Heat Exchanger	12/8/04		NRI
35	2	Primary Water Supply to PZR Relief Tank (pen 52)	11/30/04		NRI
40	2	Firewater Supply Before Containment (pen 79)	11/17/04		NRI
41	2	Refueling Canal Water Inlet (pen 46)	11/2/04		NRI
44	2	Inside Cont Inst Air Supply Header. (pen 54)	11/2/04		NRI
45	2	Service Air (pen 56)	11/2/04		NRI

SECTION F

PRESERVICE INSPECTION ITEMS

 SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12) MAJOR ITEM: PSI

ASME SECTION XI SYSTEMS - CLASS 1 & 2 PRESERVICE INSPECTION ITEMS

 PAGE 1 of 1

The required preservice inspections were performed on 9 components and 3 supports during the twelfth refueling outage.

CATEGORY	Name of Component	System	Exam Type	Work Order No.	Other Ident. Line No
B-G-2 (B7.70)	RCS-1-8010A	7	VT-1	R0245222-2	729
	RCS-1-8010B	7	VT-1	R0245224-2	728
	RCS-1-8010C	7	VT-1	R0245225-2	727
B-J (9.20)	WIB-563-04	9	PT	C0191724-1	1992
	WIB-564-04	9	PT	C0191724-1	1992
	WIB-565-04	9	PT	C0191724-1	1992
	WIB-736-04	9	PT	C0191726-1	1994
	WIB-737-04	9	PT	C0191726-1	1994
	WIB-738-04	9	PT	C0191726-1	1994
F-A (F1.10 - F1.70)	413-418R		VT-3	C0182773	575
	2033-25SL		VT-3	C0188604	1066
	78-99SL		VT-3	C0188398	55

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 January 16, 2005
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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
FW-2-380	Anchor Darling	E6871-6-3	N/A	R0224247	Line-572	N/A	Replace (1)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1) Replaced 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 Mgent Engineering Manager 3/1/05
 (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 HSBCT of Hartford, CT have inspected the Replacement described in this Report on March 1, 2005 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 March 1, 2005 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 January 16, 2005
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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
413-418R	PG&E	N/A	N/A	C0192478	Line-575	N/A	Replaced (1)	<input type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1) 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 3/1/05
 (Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector March 1, 2005 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 January 16, 2005
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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
SG 2-1	Westinghouse	PEGT-1161	68-89	C0181199-2	N/A	1968	Replaced (3)	<input type="checkbox"/>	Yes
SG 2-2	Westinghouse	PEGT-1162	68-90	C0181199-3	N/A	1968	Replaced (3)	<input type="checkbox"/>	Yes
SG 2-4	Westinghouse	PEGT-1164	68-92	C0181199-1	N/A	1968	Replaced (3)	<input type="checkbox"/>	Yes
MS-2-FCV-43	Schutte & Koerting	N690556	N/A	C0181324	226	N/A	Repair (4)	<input type="checkbox"/>	No
MS-2-5398	Velan Valve	901105-1	N/A	C0182814	227	N/A	Replaced (5)	<input checked="" type="checkbox"/>	Yes

7. Description of Work (3) Welded Tube Plugs, (4) Weld Build Up on Disc, (5) 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 Repair / Replacement conforms to Section XI of the ASME Code. Signed *Patrick Nugent* Engineering Manager 3/1/05
 (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 HSBCT of Hartford, CT have inspected the Repair / Replacement described in this Report on March 1, 2005 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 March 1, 2005 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 January 16, 2005
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 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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
RCS-2-PCV-456	Masoneilan International Inc.	NF	N/A	C0187710	Line-1195	N/A	Replace (1)	<input type="checkbox"/>	No
Seal Table	Westinghouse	N/A	N/A	C0192893	L-13	N/A	Replace (2)	<input type="checkbox"/>	No
RCS-2-8000C	Velan Valve	NF	N/A	C0192523	Line-1195	N/A	Replace (3)	<input type="checkbox"/>	Yes
RCS-2-8000A	Velan Valve	NF	N/A	C0192521	1171	N/A	Replace (3)	<input type="checkbox"/>	Yes

7. Description of Work (1) Replaced Internals, (2) Removed 5" of Thimble Tube
(3) Seal Welded Body to Bonnet

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 3/1/05
 (Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector March 1, 2005 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 January 16, 2005
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 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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
CVCS-2-8387C	Anchor Darling	EB312-1-3	N/A	C0184027	Line-1475	N/A	Replaced (1)	<input checked="" type="checkbox"/>	Yes
BATP2	Westinghouse	7002	N/A	C0187002	N/A	N/A	Replaced (2)	<input type="checkbox"/>	No
CVCS-2-8446A	ITT Grinnell Valve	NF	N/A	C0192334	Line-73	N/A	Replaced (3)	<input type="checkbox"/>	No
CVCS-2-8379B	Velan Valve	NF	N/A	C0192934	Line-246	N/A	Repair (4)	<input type="checkbox"/>	Yes
CVCS-2-8379B	Velan Valve	NF	N/A	C0192962	Line-246	N/A	Replaced (3)	<input type="checkbox"/>	Yes

7. Description of Work (1) Replaced Valve, (2) Installed Jacking Bolt Plates By Welding, (3) Replaced Bolting
(4) Repaired Disc by Machining

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 3/1/05
 (Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector March 1, 2005 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 January 16, 2004
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 (8)

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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
78-99SL	Anchor Darling	118	N/A	C0187297	Line-55	N/A	Replace (1)	<input type="checkbox"/>	Yes
78-139SL	Anchor Darling	136	N/A	C0192409	Line-404	N/A	Replace (1)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1) 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 3/1/05
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1. Owner Pacific Gas and Electric Company Date January 16, 2005
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 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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
RO Skid Spool Pieces	PGE	N/A	N/A	C0182886	Line-3136	N/A	Replace (1)	<input type="checkbox"/>	No
SI-2-8923A	Alocyco Walworth	72N2784	N/A	C0190615	Line-1982	N/A	Replace (2)	<input type="checkbox"/>	Yes
SI-2-8923B	Alocyco Walworth	72N2786	N/A	C0182975	Line-1983	N/A	Replaced (2)	<input type="checkbox"/>	Yes

7. Description of Work (1) Installed Temporary Sect XI Spool Pieces, (2) Replaced Bonnet 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 that Replacement conforms to Section XI of the ASME Code. Signed Patrick Nugent Engineering Manager 3/1/05
 (Owner or Owner's Designee) (Title) (Date)

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1. Owner Pacific Gas and Electric Company Date January 16, 2005
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

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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 (Sec 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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
2213-18	PGE	N/A	N/A	C0191595	Line-3856	N/A	Replace (1)	<input type="checkbox"/>	N
2217-69	PGE	N/A	N/A	C0191599	Line-3858	N/A	Replace (1)	<input type="checkbox"/>	N
78-342R	PGE	N/A	N/A	C0191600	Line-3858	N/A	Replace (1)	<input type="checkbox"/>	N
2217-33	PGE	N/A	N/A	C0191601	Line-1991	N/A	Replace (1)	<input type="checkbox"/>	N
2217-11	PGE	N/A	N/A	C0191603	Line-1993	N/A	Replace (1)	<input type="checkbox"/>	N

7. Description of Work (1) Deleted 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

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 (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 HSBCT of Hartford, CT have inspected the Replacement described in this Report on March 1, 2005 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 March 1, 2005 Commissions CA 1828 - NB 9990 A.N.I.C.
 (Title) (Date) (State or Province, National Board)

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

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

1. Owner Pacific Gas and Electric Company Date January 16, 200
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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
RHR Pump 2-2	Ingersoll-Rand	2S-70	N/A	C0192591	RHRP2	N/A	Replace (1)	<input type="checkbox"/>	No
RHR-2-RV-8707	Crosby	62327	N/A	R0223078	Line-1167	N/A	Replace (2)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1) Replaced Stuffing Box Extension and Seal Plate, (2) 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 3/1/05
 (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 HSBCT of Hartford, CT have inspected the Replacement described in this Report on March 1, 20 05 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 March 1, 2005 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 January 16, 2005
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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
414-258BSL	Pacific Scientific	13637	N/A	C0178277	Line-321	N/A	Replaced (1)	<input type="checkbox"/>	Y
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1) 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 3/11/05
 (Owner or Owner's Designee) (Title) (Date)

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I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by HSBCT of Hartford, CT have inspected the Replacement described in this Report on March 1, 20 05 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 March 1, 2005 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 Januray 16, 2005
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 Structure (45)

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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
Containment Liner	N/A	N/A	N/A	C0191012	N/A	N/A	Replace (1)	<input type="checkbox"/>	No
QOTTC (Pen-64)	PG&E	NF	N/A	C0189389	FTC1	N/A	Replace (2)	<input type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1)Welded Angle Assembly to Containment Liner - 8 Places, (2) Replaced 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 3/1/05
 (Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector March 1, 2005 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 January 16, 2005
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 Warehouse Spare Parts (85)

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 Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, or Replacement	Pressure Test	ASME Code Stamped (Yes or No)
RHR Pump Spare	Ingersoll - Rand	037049	N/A	C0191936	N/A	N/A	Replace (1)	<input type="checkbox"/>	No
SC 95-5443	Schutte and Koerting	NF	N/A	C0179922	N/A	N/A	Replaced (2)	<input type="checkbox"/>	No
SC 95-7244	Fisher Controls	NF	N/A	C0190222	N/A	N/A	Replaced (3)	<input type="checkbox"/>	No
								<input type="checkbox"/>	

7. Description of Work (1) Modified Stuffing Box Extension (2) Refurbish Trim Set and Return to Stock
(3) Rebuild Valve and Return to Stock

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 3/1/05
 (Owner or Owner's Designee) Patrick Nugent (Title) (Date)

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Kenny D. Kim Inspector March, 1, 2005 Commissions CA 1828 - NB 9990 A.N.I.C.
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SECTION H
CONTAINMENT EXAMINATIONS

SECOND INTERVAL, THIRD PERIOD, FIRST REFUELING OUTAGE REPORT (2R12) MAJOR ITEM: CONTAINMENT EXAMINATIONS

CONTAINMENT EXAMS (LINER)

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
E-G							
E8.10	Containment Liner	Bolted Connections	Penetration #63 (Vacuum Pressure Relief) (1/3)	VT-1	11-24-04		NRI
		Bolted Connections	Penetration #64 (Fuel Transfer Tube) (1/3)	VT-1	11-30-04		NRI
		Bolted Connections	Equipment Hatch (1/3)	VT-1	12-16-04		NRI