



**Pacific Gas and
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August 23, 2006

PG&E Letter DCL-06-101

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 Thirteenth Refueling Outage

Dear Commissioners and Staff:

In accordance with ASME Section XI, paragraph IWA 6230, enclosed is the Diablo Canyon Power Plant Unit 2 Thirteenth Refueling Outage Inservice Inspection (ISI) Report. This report provides the results of the ISI inspections of Class 1 and 2 components and supports. There are no new or revised regulatory commitments as defined by the Nuclear Energy Institute 99-04, "Guidelines for Managing NRC Commitment changes," dated July 1999, in this report.

If you have any questions regarding the information enclosed or other ISI Program activities, please contact Susan Westcott, Manager Technical Support Engineering, at (805) 545-3815.

Sincerely,

Donna Jacobs

ddm/469/R0272299

Enclosure

cc: Diablo Distribution
cc/enc: Terry W. Jackson, NRC Senior Resident
Bruce S. Mallett, NRC Region IV
Alan B. Wang, NRC Project Manager
State of California, Pressure Vessel Unit

A047

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

Diablo Canyon Power Plant


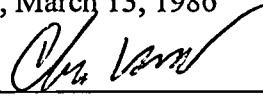
Unit 2

USNRC Docket No. 50-323

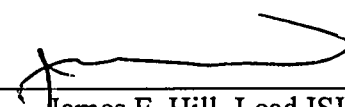
Operating License No. DPR-82

Commercial Operation Date, March 13, 1986

Prepared By:

 
Thomas L. Alcott / Chris T. Beard, ISI Specialists

Reviewed By:


James E. Hill, Lead ISI Specialist

Approved By:


Susan Westcott, Manager Technical Support Engineering

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

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SECTION A
INTRODUCTION

SECTION A

INTRODUCTION

Inservice inspection (ISI) of scheduled ASME Section XI Class 1 and 2 components and their supports at Pacific Gas and Electric Company's Diablo Canyon Power Plant (DCPP) Unit 2 was completed during the thirteenth refueling outage from April through May, 2006. The DCPP Unit 2 thirteenth refueling outage (2R13) was the second 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 examination was conducted on the reactor vessel top head penetration nozzles. No evidence of damage or boric acid leakage was found. The 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 2R12, up to and including 2R13, are reported in Section E.

Appendix J, Containment penetration pressure tests are reported in Section F.

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

Augmented examinations are reported in Section H.

Section I of this report, Repairs and Replacements, contains the completed ASME Code Report Form NIS-2 for those 2R13 work packages closed prior to or on June 30, 2006 and for any pre-2R13 work packages closed after January 16, 2006. NIS-2 reports for 2R13 work packages that are closed after June 30, 2006 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.

Manufacturers' Data Reports for Nuclear/Pressure Vessels are reported in Section J.

SECTION B

ASME CODE REPORT FORM NIS-1

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

1. Owner Pacific Gas & Electric Company, 77 Beale St., San Francisco, CA 94106
2. Plant Diablo Canyon Power Plant, P.O. Box 56, Avila Beach, CA 93424
3. Plant Unit Two 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 03/13/86 6. National Board Number for Unit N/A
7. 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
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 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.

FORM NIS-1 (back)

8. Examination Dates 04/06 to 05/06
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 8/17 20 06 Signed Engineering Manager By Susan Westcott
 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 HSB-CT of Harford, CT have inspected the components described in this Owners' Report during the period 04/06 to 05/06, 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 8-17 20 06

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
Class 2 Pumps CCP 2-2	Pacific Pumps	45611	N/A	N/A

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

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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 8/17/06 20 06 Signed Engineering Manager By Susan Westcott
 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 HSB-CT of Harford, CT have inspected the components described in this Owners' Report during the period 04/06 to 05/06, 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 8-17 20 06

SECTION C
CLASS ONE COMPONENTS

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

PAGE 1 of 7

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-A							
B1.11	Shell Welds - Circumferential	RPV 2	8-201 Upper-Intermed	UT	4-28-06		NRI
			9-201 Intermed-Lower	UT	4-29-06		NRI
			10-201 Lower-Bott Hd	UT	4-30-06	Exam limited to 75.36%, Relief Request NDE- LSL, Submitted Separately	NRI
B1.12	Shell Welds - Longitudinal	RPV 2	1-201A Upper Course	UT	5-1-06		NRI
			1-201B Upper Course	UT	5-1-06		NRI
			1-201C Upper Course	UT	5-1-06		NRI
			2-201A Interm Course	UT	4-29-06		NRI
			2-201B Interm Course	UT	4-29-06		NRI
			2-201C Interm Course	UT	4-29-06		NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

PAGE 2 of 7

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B1.12 cont'd			3-201A Lower Course	UT	4-29-06	Exam limited to 80.01%, Relief Request NDE-LSL, Submitted Separately	NRI
			3-201B Lower Course	UT	4-29-06	Exam limited to 80.01%, Relief Request NDE-LSL, Submitted Separately	NRI
			3-201C Lower Course	UT	4-29-06	Exam limited to 80.01%, Relief Request NDE-LSL, Submitted Separately	NRI
B1.21	Head Welds - Circumferential	RPV 2	4-202 Bottom Head	UT	5-1-06	Exam limited to 67.68%, Relief Request NDE-2 Granted 10/15/98	NRI
B1.22	Head Welds - Meridional	RPV 2 Bottom Hd	1-202A	UT	4-30-06		NRI
			1-202B	UT	4-30-06	Exam limited to 70.0%, Relief Request NDE-3, R1 Granted 10/15/98	NRI
			1-202C	UT	4-30-06		NRI
			1-202D	UT	4-30-06		NRI
			1-202E	UT	4-30-06		NRI
			1-202F	UT	4-30-06	Exam limited to 79.5%, Relief Request NDE-3, R1 Granted 10/15/98	NRI

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

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CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B1.22 cont'd	Head Welds - Meridional	RPV 2 Closure Hd	1-205E	UT	5-13-06		NRI
			1-205F	UT	5-13-06		NRI
B1.30	Shell to Flange Weld from flange	RPV 2	7-201 Holes 15-41 (cw)	UT	4-21-06		NRI
	Shell to Flange Weld from wall		7-201	UT	5-1-06		NRI
B1.40	Head to Flange Weld (1/3)	RPV 2	6-205A	UT	5-15-06	Exam limited to 87.17% (near surface 80.72%), Relief Request NDE-5 Granted 10/15/98	NRI
				MT	5-12-06		NRI
B-D							
B3.90	Outlet Nozzle to Vessel Weld	RPV 2 to 2*1-29SPL	202° (from Bore)	UT	4-29-06		NRI
			202° (from Shell)	UT	4-30-06	Exam limited to 84.07%, Relief Request NDE-6B Granted 10/15/98	NRI

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DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

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CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B3.90 cont'd		RPV 2 to 2*2-29SPL	158° (from Bore)	UT	4-30-06		NRI
			158° (from Shell)	UT	4-30-06	Exam limited to 84.07%, Relief Request NDE-6B Granted 10/15/98	NRI
		RPV 2 to 2*3-29SPL	22° (from Bore)	UT	4-30-06		NRI
			22° (from Shell)	UT	4-30-06	Exam limited to 84.07%, Relief Request NDE-6B Granted 10/15/98	NRI
	Inlet Nozzle to Vessel Weld	RPV 2 to 2*4-29SPL	338° (from Bore)	UT	4-29-06		NRI
			338° (from Shell)	UT	4-30-06	Exam limited to 84.07%, Relief Request NDE-6B Granted 10/15/98	NRI
		RPV 2 to 2*9-27.5SPL	247° (from Bore)	UT	4-29-06		NRI
			247° (from Shell)	UT	4-30-06		NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

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CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B3.90 cont'd		RPV 2 to 2*10-27.5SPL	113° (from Bore)	UT	4-30-06		NRI
			113° (from Shell)	UT	4-30-06		NRI
		RPV 2 to 2*11-27.5SPL	67° (from Bore)	UT	4-30-06		NRI
			67° (from Shell)	UT	4-30-06		NRI
		RPV 2 to 2*12-27.5SPL	293° (from Bore)	UT	4-29-06		NRI
			293° (from Shell)	UT	4-30-06		NRI
B3.100	Outlet Nozzle Inside Radius	RPV2 to 2*1-29SPL	202°	VT-1	5-2-06	Code Case N-648-1	NRI
		RPV2 to 2*2-29SPL	158°	VT-1	5-2-06	Code Case N-648-1	NRI
		RPV2 to 2*3-29SPL	22°	VT-1	5-2-06	Code Case N-648-1	NRI
		RPV2 to 2*4-29SPL	338°	VT-1	5-2-06	Code Case N-648-1	NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

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CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B3.100 cont'd	Inlet Nozzle Inside Radius	RPV2 to 2*9-27.5SPL	247°	VT-1	5-2-06	Code Case N-648-1	NRI
		RPV2 to 2*10-27.5SPL	113°	VT-1	5-2-06	Code Case N-648-1	NRI
		RPV2 to 2*11-27.5SPL	67°	VT-1	5-2-06	Code Case N-648-1	NRI
		RPV2 to 2*12-27.5SPL	293°	VT-1	5-2-06	Code Case N-648-1	NRI
B-G-1							
B6.40	Threads in Flange	RPV Bolting > 2" diam.	RPV2 Ligament 15 to 41 (cw)	UT	4-21-06		NRI
B-G-2							
B7.80	CRD Housings: Bolts <2" diam	RPV2	Part Length CRDM D-6	VT-1	5-17-06	6 Bolts	NRI
			Part Length CRDM D-10	VT-1	5-17-06	6 Bolts	NRI
			Part Length CRDM F-12	VT-1	5-17-06	6 Bolts	NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

PAGE 7 of 7

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-N							
B13.10	Reactor Vessel 2 Interior	Reactor Vessel 2 Interior	Reactor Vessel 2 Interior	VT-3	5-2-06		NRI
B13.60	Reactor Vessel 2 Interior	RV2 Interior Attachments	RV2 Interior Attachments	VT-3	5-2-06		NRI
B13.70	RPV 2 Core Support Structure	RPV 2 Core Support	RPV 2 Core Support Structure	VT-3	5-2-06		NRI
B-O							
B14.10	RPV 2: Welds in CRD Housing	RV2 CRDM D-4	RV2 CRDM 41 Weld	PT	5-12-06		NRI
		RV2 CRDM D-2	RV2 CRDM 72 Weld	PT	5-12-06		NRI
		RV2 CRDM B-4	RV2 CRDM 73 Weld	PT	5-12-06		NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: STEAM GENERATORS

CAT
B16.20

STEAM GENERATOR TUBING

PAGE 1 of 1

The following percentages apply to inservice tubes.

2R13 SG Eddy Current Inspection Scope

SCOPE	PROBE TYPE	SG 2-1	SG 2-2	SG 2-3	SG 2-4
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% 1H	100% 1H to 5H 20% 6H	100% 1H to 3H 20% 4H	100% 1H to 3H 20% 4H
≥ 1.7 volt distorted OD bobbin signals (DOS) at TSP intersections	Plus Point	100%	100%	100%	100%
Distorted ID bobbin signals (DIS) at TSP intersections	Plus Point	100%	100%	100%	100%
> 5 volt free span dings	Plus Point	100%	100%	20%	20%
TSP ligament indications	Plus Point	100%	100%	100%	100%
Bobbin "I" codes	Plus Point	100%	100%	100%	100%
Tubes plugged		6	23	6	35

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

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: BOLTING

PAGE 1 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-G-1							
B6.180	RCP 2-1 Main Flange Bolts	Pump Bolting > 2" diam.	RCP 2-1 Bolts 15-22 (cw)	UT	5-3-06		NRI
B-G-2							
B7.50	Pipe Flange Bolting	Pipe Bolting < 2" diam.	2S6-727-6 2RV- 8010C Inlet Flg	VT-1	4-21-06	12 Studs & Nuts	NRI
			2S6-56-1.5 (WIB- 869/WIB-870A)	VT-1	4-21-06	4 Studs & Nuts	NRI
			2S6-57-1.5 (WIB- 882/WIB-883A)	VT-1	4-21-06	4 Studs & Nuts	NRI
			2S6-1993-1.5 (2-FE-926)	VT-1	4-25-06	4 Studs & Nuts	NRI
			2S6-1993-1.5 (2-RO-561)	VT-1	4-25-06	4 Studs & Nuts	NRI
			2S6-1994-1.5 (2-FE-927)	VT-1	4-25-06	4 Studs & Nuts	NRI
			2S6-1994-1.5 (2-RO-562)	VT-1	4-25-06	4 Studs & Nuts	NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: BOLTING

PAGE 2 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B7.60	RC Pump 2-1 Seal House Bolts	Pump Bolting <2" diam.	4 Bolts	VT-1	5-2-06	12 bolts examined, credit taken for 4	NRI
B7.70	Valve Bolts <2" diam	2S6-254-10SPL+	2V-8948B	VT-1	4-27-06	16 Studs & Nuts	NRI
		2S6-255-10SPL+	2V-8948C	VT-1	4-22-06	16 Studs & Nuts	NRI
		2S6-256-10SPL+	2V-8948D	VT-1	4-22-06	16 Studs & Nuts	NRI
		2S6-2576-8	2V-8740B	VT-1	5-5-06	16 Studs & Nuts	NRI
		2S6-237-6SPL+	2V-8949C	VT-1	4-28-06	12 Studs & Nuts	NRI
		2S6-238-6SPL+	2V-8949D	VT-1	4-21-06	12 Studs & Nuts	NRI
		2S6-3846-6SPL+	2V-8818C	VT-1	4-22-06	12 Studs & Nuts	NRI
		2S6-3847-6SPL+	2V-8818D	VT-1	4-23-06	12 Studs & Nuts	NRI
		2S6-727-6SPL	2RV-8010C	VT-1	4-23-06	8 Bonnet Studs & Nuts	NRI

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: VALVES

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
<hr/>							
B-M-2							
B12.50	Valve Interior	2S6-236-6SPL+	2V-8949B Interior	VT-3	5-4-06	Ref. AR# A0666284 (disc and seat erosion; replaced disc and resurfaced seat)	RI
		2S6-728-6SPL+	2RV-8010B Interior	VT-3	4-20-06		NRI
		S6-2576-8	V-8740B	VT-3	5-5-06		NRI
		2S6-235-6SPL+	2V-8949A Interior	VT-3	5-6-06	Examined per procedure ISI ADD SUCCESS due to RI on 2V-8949B (ref. AR# A0666284-01)	NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT

MAJOR ITEM: PIPING

(2R13)

ASME SECTION XI SYSTEMS - CLASS 1

PAGE 1 of 3

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
RI-ISI (RB)	Pressurizer Spray Line	2S6-15-4SPL	WIB-342	UT	4-18-06		NRI
			WIB-343	UT	4-18-06		NRI
	Pressurizer Surge Line	2*-16-14SPL	WIB-433A	UT	4-29-06		NRI
			WIB-435	UT	4-26-06		NRI
	Charging Line Loop 3	2S6-50-3SPL+	WIB-187	UT	4-21-06		NRI
			WIB-186	UT	4-21-06		NRI
	Charging Line Aux Spray	2S6-51-2SPL+	WIB-789	PT	4-20-06		NRI
	Reac Coolant Pp Disch Loop 1	2*-9-27-1/2SPL	WIB-RC-1-15	UT	4-28-06	Examined with Westinghouse Automated tool	NRI
			WIB-RC-1-16(SE)	UT	4-28-06	Examined with Westinghouse Automated tool	NRI
	Reac Coolant Pp Disch Loop 2	2*-10-27-1/2SPL	WIB-RC-2-15	UT	4-29-06	Examined with Westinghouse Automated tool	NRI
			WIB-RC-2-16(SE)	UT	4-29-06	Examined with Westinghouse Automated tool	NRI
	Reac Coolant Pp Disch Loop 3	2*-11-27-1/2SPL	WIB-RC-3-15	UT	4-29-06	Examined with Westinghouse Automated tool	NRI
			WIB-RC-3-16(SE)	UT	4-29-06	Examined with Westinghouse Automated tool	NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING

PAGE 2 of 3

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
RI-ISI cont'd	Reac Coolant Pp Disch Loop 4	2*-12-27-1/2SPL	WIB-RC-4-15	UT	4-28-06	Examined with Westinghouse Automated tool	NRI
			WIB-RC-4-16(SE)	UT	4-28-06	Examined with Westinghouse Automated tool	NRI
	Reactor Coolant Out Loop 1	2*-1-29SPL	WIB-RC-1-1(SE)	UT	4-28-06	Examined with Westinghouse Automated tool	NRI
			WIB-RC-1-2	UT	4-28-06	Examined with Westinghouse Automated tool	NRI
	Reactor Coolant Out Loop 2	2*-2-29SPL	WIB-RC-2-1(SE)	UT	4-29-06	Examined with Westinghouse Automated tool	NRI
			WIB-RC-2-2	UT	4-29-06	Examined with Westinghouse Automated tool	NRI
	Reactor Coolant Out Loop 3	2*-3-29SPL	WIB-RC-3-1(SE)	UT	4-29-06	Examined with Westinghouse Automated tool	NRI
			WIB-RC-3-2	UT	4-29-06	Examined with Westinghouse Automated tool	NRI
	Reactor Coolant Out Loop 4	2*-4-29SPL	WIB-RC-4-1(SE)	UT	4-29-06	Examined with Westinghouse Automated tool	NRI
			WIB-RC-4-2	UT	4-29-06	Examined with Westinghouse Automated tool	NRI
	Loop 1 Cold Leg Drain RCDT	2S6-958-2SPL+	WIB-503	PT	4-20-06		NRI
	Letdown Line Loop 2	2S6-24-3SPL+	WIB-143A	UT	4-19-06		NRI
			WIB-143B	UT	4-19-06		NRI

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT

MAJOR ITEM: PIPING

(2R13)

ASME SECTION XI SYSTEMS - CLASS 1

PAGE 3 of 3

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
RI-ISI cont'd		2S6-24-3SPL+	WIB-147	UT	4-19-06		NRI
			WIB-148	UT	4-19-06		NRI
	Loop 2 Cold Leg Drain RCDT	2S6-959-2SPL+	WIB-1009	PT	4-20-06		NRI

SECTION D

CLASS TWO COMPONENTS

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
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
RI-ISI cont'd	Res Ht Exchanger 2 Outlet	2S1-119-8III	RB-119-11	UT	4-12-06	Ref. AR# A0663750 (indication determined to be construction related lack-of-fusion)	RI
			RB-119-12	UT	4-12-06		NRI
			RB-119-13	UT	4-14-06	Examined per procedure ISI ADD SUCCESS due to RI on RB-119-11 (ref. AR# A0663750)	NRI
			RB-119-14	UT	4-14-06	Examined per procedure ISI ADD SUCCESS due to RI on RB-119-11 (ref. AR# A0663750)	NRI
			RB-119-17	UT	4-14-06	Examined per procedure ISI ADD SUCCESS due to RI on RB-119-11 (ref. AR# A0663750)	NRI
			RB-119-18	UT	4-14-06	Examined per procedure ISI ADD SUCCESS due to RI on RB-119-11 (ref. AR# A0663750)	NRI
			RB-119-19	UT	4-14-06	Examined per procedure ISI ADD SUCCESS due to RI on RB-119-11 (ref. AR# A0663750)	NRI
			RB-119-20	UT	4-14-06	Examined per procedure ISI ADD SUCCESS due to RI on RB-119-11 (ref. AR# A0663750)	NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: PIPING INTEGRAL
ATTACHMENTS, PUMPS

PAGE 1 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-C							
C3.20	Welded Attachment	2K15-226-28V	2026-1V Attachment	MT	4-28-06		NRI
			413-252R Attachment	MT	5-3-06		NRI
			2030-15R Attachment	MT	4-28-06		NRI
		2K15-225-28V	2028-1V Attachment	MT	4-28-06		NRI
		2K16-554-16V	2037-7V Attachment	MT	4-28-06		NRI
		2K16-555-16V	2039-9V Attachment	MT	4-28-06	Ref. AR# A0665543 (indication ground out)	RI
		2K16-557-16V	2042-9V Attachment	MT	4-28-06	Ref. AR# A0665547 (indication ground out)	RI
		2K16-556-16V	2044-7V Attachment	MT	4-28-06		NRI
		2S6-45-4	23-35R	PT	4-30-06	Examined per procedure ISI ADD SUCCESS due to RI on 2039-9V (ref. AR# A0665543)	NRI
		2S6-509-8	7-5R	PT	4-30-06	Examined per procedure ISI ADD SUCCESS due to RI on 2039-9V (ref. AR# A0665543)	NRI
		2S6-1454-6	23-36R	PT	4-30-06	Examined per procedure ISI ADD SUCCESS due to RI on 2039-9V (ref. AR# A0665543)	NRI
		2S6-1474-3	23-34R	PT	4-30-06	Examined per procedure ISI ADD SUCCESS due to RI on 2039-9V (ref. AR# A0665543)	NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: PIPING INTEGRAL
ATTACHMENTS, PUMPS

PAGE 2 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C3.20 cont'd		2K15-227-28	2025-15R	MT	5-2-06	Examined per procedure ISI ADD SUCCESS due to RI on 2039-9V (ref. AR# A0665543)	NRI
			2022-1V	MT	5-2-06	Examined per procedure ISI ADD SUCCESS due to RI on 2039-9V (ref. AR# A0665543)	NRI
		2K15-228-28	2024-15R	MT	5-2-06	Examined per procedure ISI ADD SUCCESS due to RI on 2039-9V (ref. AR# A0665543)	NRI
			2020-1V	MT	5-2-06	Examined per procedure ISI ADD SUCCESS due to RI on 2039-9V (ref. AR# A0665543)	NRI
		2K16-555-16V	2039-9V	MT	5-1-06	Examination after indication removal. (A0665543)	NRI
		2K16-557-16V	2042-9V	MT	5-1-06	Examination after indication removal. (A0665543)	NRI
C-G							
C6.10	Centrifugal Charging 2-2 Casing Welds	CCP 2-2 Drive End	Casing End Section Weld	PT	6/2/2000		NRI

SECOND INTERVAL, THIRD PERIOD, SECOND
REFUELING OUTAGE REPORT (2R13)
ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: PIPING SUPPORTS

PAGE 1 of 1

CATEGORY

F-A SUPPORTS

F1.10 TO F1.70 SUPPORT COMPONENTS

The required inservice inspections were performed on 63 Class 2 hangers during the thirteenth refueling outage between the dates of 04/14/06 and 06/07/06.
All supports found acceptable. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
48	47-90R	54	564-16	746	414-332R	2044	413-95A
48	47-93R	54	564-19	1016	413-84V	3673	949-192
48	47-97R	54	564-20	1065	413-305R	52	949-192V
48	47-136R	54	564-21	1065	414-441R	3678	23-47A
48	413-74R	54	564-26	1357	404-35R	3844	92-36R
48	413-137R	54	564-35 location A	1357	413-534R	3844	92-38R
48	949-6R	54	564-58	1464	923-56	3844	92-39R
48	949-9R	54	564-66	1464	949-302	3844	92-66R
48	949-190V	54	2215-3	1466	923-50	1466	923-45
48	949-196R	54	2216-2	1466	923-89		
52	414-249R	54	2730-73	1466	923-119		
52	414-261R	228	413-338R	1474	23-21R		
52	929-192V	228	413-548R	1474	413-566R		
52	949-197R	554	413-267R	1477	949-195		
53	23-44R	554	2037-7V	1973	46-21R		
53	24-48R	746	49-111R	2032	46-11V		
54	564-12	746	49-114R	2033	48-50R		
54	564-15	746	49-192R	2033	414-558A		

SECTION E

PRESSURE TESTS

End of 2nd Interval System Hydrostatic Test
Performed at NOP IAW Code Case N-498-1

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT (2R13)

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	5/23/2006	End of Interval Exam, STP-R8A	NRI
2	1	Excess Letdown between 8166 & 8167	5/23/2006	End of Interval Exam, ISI X-101	NRI
3	1	Auxillary Pressurizer spray	5/23/2006	End of Interval Exam, ISI X-101	NRI
4	1	Alternate Charging	5/23/2006	End of Interval Exam, ISI X-101	NRI
5	1	RHR & SI to Cold Legs	5/23/2006	End of Interval Exam, STP-R8A	NRI
6	1	Charging Injection Inside Cont.	5/23/2006	Outage Frequency, STP-R8A	NRI
7	1	Safety Injection Inside Cont, From 8905A-D to 8949A-D	5/23/2006	Outage Frequency, STP-R8A	NRI
8	1	RHR Between 8702 & 8701	5/21/2006	End of Interval Exam, ISI P-RHR-8	NRI
4	2	RCS Loops 1 & 4 Hot Leg Sample Lines	5/23/2006	End of Interval Exam	NRI
5	2	Pressurizer Sample Lines	5/23/2006	End of Interval Exam	NRI
6	2	XS Ltdn HX & piping from 8167 to HCV-123	5/23/2006	End of Interval Exam	NRI
7	2	RCP Hi Press Seal Water out & XS Ltdn HX outlet piping	5/23/2006	End of Interval Exam	NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT (2R13)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 2 of 3

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
8	2	Charging Pumps Discharge Piping	5/23/2006	End of Interval Exam	NRI
9	2	Recip Chg Pump & Disch Piping to 8475	5/25/2006	End of Interval Exam	NRI
10	2	Alt Charging Between 8483, 8147 & 8379A	5/23/2006	End of Interval Exam	NRI
14	2	Regenerative HX and Letdown Piping	5/23/2006	End of Interval Exam	NRI
15	2	Boric Acid Pumps Disch Piping	5/23/2006	End of Interval Exam	NRI
15a	2	Boric Acid Pumps Disch Piping Between 8104 and 8445	3/29/2006	End of Interval Exam	NRI
16	2	Boric Acid Tanks to Pump Disch Iso Valves	4/11/2006	End of Interval Exam	NRI
21	2	Safety Injection Pump Discharge to 8802A & B and Cold Legs	5/23/2006	End of Interval Exam	NRI
24	2	RHR Hot Leg injection from 8703 to 8740A & B	5/23/2006	End of Interval Exam	NRI
25	2	Spray Additive Tank and Unisolable piping	3/29/2005	End of Interval Exam	NRI
31	2	Steam Generator Nitrogen Supply	4/24/2006	End of Interval Exam	NRI
32	2	RX Vessel Level Indication and Vent System	5/23/2006	End of Interval Exam	NRI

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT (2R13)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 3 of 3

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
33	2	Class 2 Containment Penetrations for Non-Safety Related Systems	See Sect. F	End of Interval Exam	NRI
34	2	PZR Relief Tank Nitrogen Supply (pen 52)	5/19/2006	End of Interval Exam	NRI
36	2	Accumulator Tanks N2 Supply Header. (pen 51)	5/19/2006	End of Interval Exam	NRI
37	2	Accumulators Sample Header	5/23/2006	End of Interval Exam	NRI
38	2	Fuel Transfer Tube to Refueling Canal	4/28/2006	End of Interval Exam	NRI
39	2	Auxiliary Steam Containment Penetration	4/26/2006	ISI P-AXS-39 End of Interval Exam	NRI
42	2	Reactor Coolant Drain Tank N2 Sup. (pen 52)	5/19/2006	End of Interval Exam	NRI
43	2	Reactor Coolant Drain Pumps Disch Header. (pen 50)	5/19/2006	End of Interval Exam	NRI

SECTION F

APPENDIX- J CONTAINMENT PENETRATION PRESSURE TEST

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT (2R13)

MAJOR ITEM: Containment Penetration
Appendix J

ASME SECTION XI SYSTEMS - CONTAINMENT

PAGE 1 of 2

PEN NO.	STP NO.	Results	EXAM DATE	PEN NO.	STP NO.	Results	EXAM DATE	PEN NO.	STP NO.	Results	EXAM DATE
19	V-619	Acceptable	4/20/2006	51A	V-651A	Acceptable	5/16/2006	65	V-665	Acceptable	7/23/2005
20	V-620	Acceptable	4/20/2006	51B	V-651B	Acceptable	5/3/2006	68	V-668	Acceptable	5/11/2006
21	V-621	Acceptable	4/20/2006	51C	V-651C	Acceptable	5/11/2006	69	V-668	Acceptable	5/11/2006
22	V-623	Acceptable	4/28/2006	52A	V-652A	Acceptable	5/8/2006	70	V-670	Acceptable	4/20/2006
23	V-623	Acceptable	4/28/2006	52B	V-652B	Acceptable	4/22/2006	71	V-671	Failed / Acceptable	5/10/2006 / 5/10/2006
30	V-630	Acceptable	4/20/2006	52D	V-652D	Acceptable	5/2/2006	52E	V-678	Acceptable	5/19/2006
31	V-631	Acceptable	4/20/2006	54	V-654	Acceptable	5/4/2006	52F	V-678	Acceptable	5/19/2006
41	V-641	Acceptable	4/22/2006	56	V-656	Acceptable	5/13/2006	78A	V-678	Acceptable	5/19/2006
42	V-641	Acceptable	4/22/2006	57	V-657	Acceptable	5/15/2006	78B	V-678	Acceptable	5/19/2006
43	V-641	Acceptable	4/22/2006	59C	V-659C	Acceptable	4/21/2006	81	V-681	Acceptable	5/9/2006
44	V-641	Acceptable	4/22/2006	61	V-661	Acceptable	5/19/2006	82A	V-682A	Acceptable	4/22/2006
45	V-645	Acceptable	4/21/2006	62	V-662	Acceptable	5/19/2006	82B	V-682B	Acceptable	5/6/2006
49	V-649	Acceptable	5/4/2006	63	V-663	Acceptable	5/15/2006	82C	V-682B	Acceptable	5/6/2006

SECTION G
PRESERVICE INSPECTION ITEMS

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)

MAJOR ITEM: PSI

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

PAGE 1 of 1

The required preservice inspections were performed on 4 components and 12 supports during the thirteenth refueling outage.

CATEGORY	Name of Component	System	Exam Type	Work Order No.	Other Ident. Line No
B-G-2					
	RCS-2-RV-8010A	7	VT-1	R0269617	729
	RCS-2-RV-8010B	7	VT-1	R0269618	728
	RCS-2-RV-8010C	7	VT-1	R0269619	727
	SI-2-8949A	9	VT-1	C0202936	235
F-A					
	CCP 2-1	8	VT-3	C0199725	N/A
	CCP 2-1	8	VT-3	C0198694-1	N/A
	CCP 2-1	8	VT-3	C0201314-2	N/A
	CCP 2-1	8	VT-3	C0201313-2	N/A
	414-838	9	VT-3	C0199281	7077
	2046-6RT	4	VT-3	C0200374	554
	RCP 2-4 UBOC	14	VT-3	C0204127	N/A
	28-44R	17	VT-3	C0204019	ASW Pp 2-1
	412-130R	9	VT-3	C0199798-2	235
	404-25R	14	VT-3	C0204511	121 & 123
	25-1V	14	VT-3	C0204419	121 & 123
	77-21SL	10	VT-3	C0204057	RHR Pp 2-1

SECTION H
AUGMENTED EXAMINATIONS

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI SYSTEMS -
AUGMENTED

MAJOR ITEM: AUGMENTED
EXAMINATIONS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
Augmented							
	RC Pump 2-4 Flywheel	RC Pump 2-4 Flywheel	Flywheel Inner Half Radius	UT	4-26-06		NRI

SECTION I
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 June 30, 2006
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 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-2-369	Flowserve	AV879	N/A	C0183654	Line-569	N/A	Replaced (1)	<input checked="" type="checkbox"/>	Yes
FW-2-371	Flowserve	AV876	N/A	C0183655	Line-570	N/A	Replaced (1)	<input checked="" type="checkbox"/>	Yes
FW-2-372	Flowserve	AV880	N/A	C0183656	Line-576	N/A	Replaced (1)	<input checked="" type="checkbox"/>	Yes
Line-557	PG&E	N/A	N/A	C0200367	Line-557	N/A	Replaced (2)	<input type="checkbox"/>	No
Line-555	PG&E	N/A	N/A	C0203985	Line-555	N/A	Repaired (3)	<input type="checkbox"/>	No

7. Description of Work (1) Installed New Valve, (2) Replaced Attachment Weld to FW-2-531 (3) Repaired Indication by Grinding

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other
Pressure > 960 PSIG Test Temp. 68 °F ☒ Pressure Test Conducted IAW Code Case N-416-1

9. Remarks See Section-J for attached Manufacturer's Data Sheets

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 Susan Westcott Engineering Manager 8/16/06
(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 HSB-CT of Hartford, CT have inspected the Repair/Replacement described in this Report on 8-17, 20 06 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 8-17-2006 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 June 30, 2006
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 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)
MS-2-PCV-22	Copes Vulcan	6910.95009	N/A	C0190774	Line-225	N/A	Replaced (1)	<input type="checkbox"/>	Yes
MS-2-RV-59	Dresser Ind Valve	BM 7857	N/A	C0203730	Line-1066	N/A	Replaced (1)	<input type="checkbox"/>	Yes
MS-2-FCV-44	Schutte and Koerting	N690557	N/A	R0181994	Line-225	N/A	Replaced (1)	<input type="checkbox"/>	No
MS-2-FCV-41	Schutte and Koerting	NF	N/A	R0202682	Line-228	N/A	Replaced (2)	<input type="checkbox"/>	No

7. Description of Work (1) Replaced Internals, (2) Replaced Bonnet Bolting

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ 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 _____ Engineering Manager 8/16/06
(Owner or Owner's Designee) Susan Westcott (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 HSB-CT of Hartford, CT have inspected the Replacement described in this Report on 8-17, 20 06 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 8-17-2006 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 June 30, 2006
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 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)
2033-25SL	Pacific Scientific	2366	N/A	C0187288	Line-1066	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) Replaced Load Pin
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ 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 Stephen Westcott Engineering Manager 8/16/06
(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 HSB-CT of Hartford, CT have inspected the Replacement described in this Report on 8-17, 20 06 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 8-17-2006 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 June 30, 2006
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 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-RV-8010A	Crosby Valve	U12S1	N/A	R0269617	Line-729	N/A	Replaced (1)	<input checked="" type="checkbox"/>	Yes
RCS-2-RV-8010B	Crosby Valve	U2A	N/A	R0269618	Line-728	N/A	Replaced (1)	<input checked="" type="checkbox"/>	Yes
RCS-2-RV-8010C	Crosby Valve	U12S2	N/A	R0269619	Line-727	N/A	Replaced (1)	<input checked="" type="checkbox"/>	Yes
Reactor Core Support	Combustion Engineering	68101	21359	C0202702	RV1	1973	Replaced (2)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	

7. Description of Work (1) Replaced Valve, (2) Internals Up-flow Modifications for Temperature Reduction Design Change

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other _____
Pressure 2235 PSIG Test Temp. N/A °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 _____ Engineering Manager 8/16/06
(Owner or Owner's Designee) Susan Westcott (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 HSB-CT of Hartford, CT have inspected the Replacement described in this Report on 8-17, 20 06 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 8-17-2006 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 June 30, 2006
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 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)
Boric Acid Xfer Pump - BATP1 (Pedestal)	Westinghouse	NF	N/A	C0187000	BATP1	N/A	Replaced (1)	<input type="checkbox"/>	No
CVCS-2-8393C	Anchor Darling	EB018-3-6	N/A	C0190917	Line-56	N/A	Replaced (2)	<input checked="" type="checkbox"/> (a)	Yes
CVCS-2-8393D	Anchor Darling	ET315-1-2	N/A	C0190918	Line-57	N/A	Replaced (2)	<input checked="" type="checkbox"/> (a)	Yes
Line-4532	PG&E	NF	N/A	C0196260	Line-4532-2"	N/A	Replaced (3)	<input checked="" type="checkbox"/> (b)	No

7. Description of Work (1) Attached Jacking Bolts by Welding, (2) Replaced Valve, (3) Replaced Piping

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other _____
Pressure (a) 2650 PSIG Test Temp. _____ °F ☒ Pressure Test Conducted IAW Code Case N-416-1
(b) 2235 N/A

9. Remarks See Section J for attached Manufacturer's Data Reports

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 _____ Engineering Manager 8/16/06
(Owner or Owner's Designee) Susan Westcott (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 HSB-CT of Hartford, CT have inspected the Replacement described in this Report on 8-17, 20 06 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 8-17-2006 Commissions CA 1828 - NB 9990 A.N.I.C
(Title) (Date) (State or Province, National Board)

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1. Owner	<u>Pacific Gas and Electric Company</u> <u>77 Beale Street, San Francisco, CA 94106</u>	Date	<u>June 30, 2006</u>
2. Plant	<u>Diablo Canyon Power Plant</u> <u>P.O. Box 56, Avila Beach, CA 93424</u>	Sheet	<u>2</u> of <u>2</u>
3. Work Performed by	<u>Owner</u> <u>See Above</u>	Unit	<u>2</u>
4. Identification of System	<u>Chemical and Volume Control System (08)</u>	Repair Org.	<u>P.O. No., Job No., etc.</u>
5. (a) Applicable Construction Code	<u>See Work Order</u>	19	<u>Edition</u>
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements -	<u>1989, No</u>	Addenda, Code Case	<u>N/A</u>
6. Identification of components Repaired or Replaced, and Replacement Components.		Addenda, Code Case	<u>N-416-1</u>

[illegible]

(7) Replaced IB and OB Mechanical Seal Housings

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 June 30, 2006
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 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)
SI-2-8821A	Velan Valve	NF	N/A	C0191609	Line-3839	N/A	Replaced (1)	<input type="checkbox"/>	Yes
SI-2-8821B	Velan Valve	NF	N/A	C0191609	Line-3850	N/A	Replaced (1)	<input type="checkbox"/>	Yes
SI-2-8808C	Velan Valve	0017	N/A	C0191610	Line-255	N/A	Replaced (1)	<input type="checkbox"/>	Yes
SI-2-8808D	Velan Valve	NF	N/A	C0191610	Line-256	N/A	Replaced (1)	<input type="checkbox"/>	Yes
Line-7077 / 7076 (ECCS Void Hdr)	PG&E	N/A	N/A	C0199214	Line-4296	N/A	Replaced (2)	<input checked="" type="checkbox"/> (a)	Yes

7. Description of Work (1) Welded Yoke to Pressure Boundry, (2) Installed New Vent Header
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other
Pressure (a) 190 PSIG Test Temp. °F ☒ Pressure Test Conducted IAW Code Case N-416-1
(b) 2235 N/A
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 Susan Westcott Engineering Manager 8/16/06
(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 HSB-CT of Hartford, CT have inspected the Replacement described in this Report on 8-17, 20 06 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 8-17-2006 Commissions CA 1828 - NB 9990 A.N.I.C.
(Title) (Date) (State or Province, National Board)

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1. Owner	<u>Pacific Gas and Electric Company</u> <u>77 Beale Street, San Francisco, CA 94106</u>	Date	<u>June 30, 2006</u>
2. Plant	<u>Diablo Canyon Power Plant</u> <u>P.O. Box 56, Avila Beach, CA 93424</u>	Sheet	<u>2</u> of <u>2</u>
3. Work Performed by	<u>Owner</u> <u>See Above</u>	Unit	<u>2</u>
4. Identification of System	<u>Safety Injection System (09)</u>	Repair Org. P.O. No., Job No., etc.	
5. (a) Applicable Construction Code	<u>See Work Order</u> 19 <u> </u> Edition <u> </u>	Addenda, Code Cases	<u>N/A</u>
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements -	<u>1989, No</u>	Addenda, Code Case	<u>N-416-1</u>
6. Identification of components Repaired or Replaced, and Replacement Components.			

[illegible]

7. Remarks (3) Replaced Bonnet Bolting, (4) Replaced Internals

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 June 30, 2006
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 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)
414-838A	PG&E	N/A	N/A	C0199281	Line-7077	N/A	Replaced (1)	<input type="checkbox"/>	No
24-41R	PG&E	N/A	N/A	C0199282	Line-4296	N/A	Replaced (2)	<input type="checkbox"/>	No
326-328R	PG&E	N/A	N/A	C0199794	Line-3855	N/A	Replaced (1)	<input type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1) Installed New Support, (2) Deleted Support
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ 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 Susan Westcott Engineering Manager 8/16/06
(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 June 30, 2006
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 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-2-8742B	Flowserve	AY777	N/A	C0194616	Line-119	N/A	Replaced (1)	<input checked="" type="checkbox"/>	Yes
RHR-2-990	Flowserve	AY777	N/A	C0194616	Line-119	N/A	Replaced (1)	<input checked="" type="checkbox"/>	Yes
Line-119	PG&E	N/A	N/A	C0194616	Line-119	N/A	Replaced (2)	<input checked="" type="checkbox"/>	No
RHR PP Spare	Ingersoll - Rand	037050	N/A	C0193993	RHRP1	N/A	Replaced (3)	<input type="checkbox"/>	No
RHR PP Spare	Ingersoll - Rand	037050	N/A	C0193993	RHRP1	N/A	Replaced (4)	<input type="checkbox"/>	No

7. Description of Work (1) Replaced Valve, (2) Replaced Piping, (3) Modified Suffing Box Extension Plate
(4) Replaced Gland Plate Bolting
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other
Pressure 515 PSIG Test Temp. N/A °F ☒ Pressure Test Conducted IAW Code Case N-416-1
9. Remarks See Section J for Manufacturer's Data Reports

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 Susan Westcott Engineering Manager 8/16/06
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector 8-17-2006 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 June 30, 2006
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 (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)
77-21SL	Pacific Scientific	6871	N/A	C0204057		N/A	Replaced (1)	<input type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1) Modify Clevis for Snubber

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ 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 Susan Westcott Engineering Manager 8/16/06
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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 June 30, 2006
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)
CCW-2-RV-52	Loneragan, J.E.	NY8802100-9-1	N/A	R0223091	Line-3292	2006	Replaced (1)	<input type="checkbox"/>	Yes
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1) Replaced Valve
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ 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 Susan Westcott Engineering Manager 8/16/06
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector 8-17-2006 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 June 30, 2006
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)
414-51R	PG&E	N/A	N/A	C0204139	Line-316	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 ☐ Exempt ☐ 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 _____ Engineering Manager 8/16/06
(Owner or Owner's Designee) Susan Westcott (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 HSB-CT of Hartford, CT have inspected the Replacement described in this Report on 8-17, 20 06 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 8-17-2006 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 June 30, 2006
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)
Penetration 82D	PG&E	N/A	N/A	C0192964	Line-3937	N/A	Replaced (1)	<input checked="" type="checkbox"/>	No
Penetration 83A	PG&E	N/A	N/A	C0192965	Line-3936	N/A	Replaced (1)	<input checked="" type="checkbox"/>	No
Penetration 82D	PG&E	N/A	N/A	C0192966	Line-3937	N/A	Replaced (1)	<input checked="" type="checkbox"/>	No
Penetration 83A	PG&E	N/A	N/A	C0192967	Line-3936	N/A	Replaced (1)	<input checked="" type="checkbox"/>	No
								<input type="checkbox"/>	

7. Description of Work (1) Isolated system from containment penetration
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ Other LLRT
Pressure PSIG Test Temp. °F ☐ Pressure Test Conducted IAW Code Case N-416-1
9. Remarks LLRT performed in lieu of other pressure test per RR PRS-2 R1.

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 Susan Westcott Engineering Manager 8/16/06
(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 HSB-CT of Hartford, CT have inspected the Replacement described in this Report on 8-17, 20 06 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 8-17-2006 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 June 30, 2006
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 Incore Flux Mapping System (48)

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)
Thimbles A-11	Westinghouse	NF	N/A	C0203983	U2 - RVST	N/A	Replaced (1)	<input checked="" type="checkbox"/>	No
Thimbles B-13	Westinghouse	NF	N/A	C0203983	U2 - RVST	N/A	Replaced (1)	<input checked="" type="checkbox"/>	No
Thimbles L-13	Westinghouse	NF	N/A	C0203983	U2 - RVST	N/A	Replaced (1)	<input checked="" type="checkbox"/>	No
								<input type="checkbox"/>	
								<input type="checkbox"/>	

7. Description of Work (1) Shorten Incore Flux Thimbles

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ Other _____
Pressure 2235 PSIG Test Temp. N/A °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 Susan Westcott Engineering Manager 8/16/06
(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 HSB-CT of Hartford, CT have inspected the Replacement described in this Report on 8-17, 20 06 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 8-17-2006 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 June 30, 2006
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 Warehouse Stock (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)
MS-2-RV-59	Dresser Ind Valve	BM 07866	N/A	C0203137	SC 93-7965	N/A	Replaced (1)	<input type="checkbox"/>	No
SI-2-8900A	Flowserve Corp.	Unknown	N/A	C0201785	SC 95-2429	N/A	Replaced (2)	<input type="checkbox"/>	No
SI-2-8900C	Flowserve Corp.	Unknown	N/A	C0201786	SC 95-2429	N/A	Replaced (2)	<input type="checkbox"/>	No
MSSV Spare	Dresser	NF	N/A	C0202171	SC 93-7965	N/A	Replaced (1)	<input type="checkbox"/>	No

7. Description of Work (1) Replaced Disk and Returned to Stock, (2) Welded Pipe to Valve and Returned to Stock
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ 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 Susan Westcott Engineering Manager 8/16/06
(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 HSB-CT of Hartford, CT have inspected the Replacement described in this Report on 8-17, 20 06 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 8-17-2006 Commissions CA 1828 - NB 9990 A.N.I.C.
(Title) (Date) (State or Province, National Board)

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1. Owner	Pacific Gas and Electric Company 77 Beale Street, San Francisco, CA 94106	Date	June 30, 2006
		Sheet	2 of 2
2. Plant	Diablo Canyon Power Plant P.O. Box 56, Avila Beach, CA 93424	Unit	2

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

4. Identification of System Warehouse Stock (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.

[illegible]

7. Remarks (3) Refurbished Disk and Tail Assembly and Returned To Stock,

(4) Replaced Anti-Rotation Pin and Returned to Stock

SECTION J

MANUFACTURERS' DATA REPORTS FOR NUCLEAR/PRESSURE VESSELS

**SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT
(2R13)
ASME SECTION XI -
NIS-2 Attachments**

**MAJOR ITEM:
MANUFACTURER DATA REPORTS**

PAGE 1 of 19

System	Component	Manufacturer	Manufacturer Serial Number	Work Order	Purchase Order	COMMENTS
Feedwater System (03)	FW-2-369	Flowserve	AV879	C0183654	PO# 115746	Manufacturer Data Reports Section J; Pages 2-4
Feedwater System (03)	FW-2-371	Flowserve	AV876	C0183655	PO# 115746	Manufacturer Data Reports Section J; Pages 2-4
Feedwater System (03)	FW-2-372	Flowserve	AV880	C0183655	PO# 115746	Manufacturer Data Reports Section J; Pages 2-4
CVCS System (08)	CVCS-2-8393C	Anchor Darling	EB018-3-6	C0190917	PO# 24506	Manufacturer Data Reports Section J; Pages 5-7
CVCS System (08)	CVCS-2-8393D	Anchor Darling	ET315-1-2	C0190918	PO# 55273	Manufacturer Data Reports Section J; Pages 8-10
CVCS System (08)	CVCS-2-8388B	Flowserve	E-644A-1-2	C0198594	PO# 97140	Manufacturer Data Reports Section J; Pages 11-14
CVCS System (08)	CVCS-2-8388C	Flowserve	E-644A-1-1	C0198596	PO# 97140	Manufacturer Data Reports Section J; Pages 11-14
RHR System (10)	RHR-2-8742B	Flowserve	AY777	C0194616	PO# 125492	Manufacturer Data Reports Section J; Pages 15-17
RHR System (10)	RHR-2-909	Flowserve	AY777	C0194616	PO# 125492	Manufacturer Data Reports Section J; Pages 18-19



CERTIFICATE OF CONFORMANCE

CUSTOMER: Pacific Gas & Electric Co.

PURCHASE ORDER: 115746

SALES ORDER: 25745

EQUIPMENT: 3" 900# SC Valve

<u>Item</u>	<u>Qty.</u>	<u>Description</u>	<u>Part Number</u>
01	5	3" Valve PG&E Code: 95 6929 Part: W8722515	04000409(2574501)

This is to certify that the valves supplied on the above order meet the requirements of the listed purchase order. The valves meet ASME Section III, 1989 Edition, No Addenda, Class 2 and have been manufactured in accordance with the applicable portions of Flowserve's QA Manual, Revision 31, dated 9/10/03.

J. A. [Signature]
NAME

Supv. QA Engineering
TITLE

1/16/04
DATE

Section J
Page - 2 of 19

[Signature]
1/16/04

As Required by the Provisions of the ASME Code , Section III, Div. 1

1.	Manufactured and certified by	<u>Flowserve Corporation, 1900 S. Saunders Street, Raleigh, NC 27603</u>			
		(Name and Address of N Certificate Holder)			
2.	Manufactured for	<u>Pacific Gas & Electric. Co., P. O. Box 7760, San Francisco, CA 94120</u>			
		(Name and Address of Purchaser)			
3.	Location of Installation	<u>Pacific Gas & Electric. Co., Diablo Canyon Nuclear Plant, P. O. Box 56, Avila Beach, CA 93424</u>			
		(Name and Address)			
4.	Model No., Series No., or Type	<u>.900# Swing Check</u>	Drawing	<u>W87-22515</u>	Rev <u>B</u> CRN <u>—</u>
5.	ASME Code, Section III, Division 1:	<u>1989</u>	<u>No</u>	<u>2</u>	<u>—</u>
		(edition)	(addenda date)	(class)	(Code Case no.)
6.	Pump or Valve	<u>Valve</u>	Nominal Inlet Size	<u>3"</u>	Outlet Size <u>3"</u>
			(inch)	(inch)	
7.	Material:	Body <u>SA216, WCB</u>	Bonnet <u>SA515, Gr. 70</u>	Disk <u>SA105</u>	Bolting <u>SA193, B7</u>

[illegible]

SECTION J
Page - 3 of 19

FORM NPV-1 (Back-Pg. 2 of 2)

Certificate Holder's Serial No. AV876-AV880

8. Design conditions 2220 psi 100 °F or valve pressure class 900
 (pressure) (temperature)

9. Cold working pressure 2220 psi at 100 °F

10. Hydrostatic test 3400 psi. Disk Differential test pressure 2300 psi.

11. Remarks: Nuclear swing check valve. Gasket Retainer Material – SA105, Heat Code 21001-1 thru 5; Hinge Pin Cover, SA105, Heat Code 21002; Cover Nuts – SA194, Gr. 2H, Heat Code 610W181. Cover Studs – Heat Code 9855F.

S. O. 25475

CERTIFICATION OF DESIGN

Design specification certified by	<u>Kersi J. Dalal</u>	P.E. State	<u>CA</u>	Reg. no.	<u>M-16690</u>
Design Report certified by	<u>Ronald S. Farrell</u>	P.E. State	<u>NC</u>	Reg. no.	<u>028656</u>

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1.

N Certificate of Authorization No. N-1562 Expires Nov. 26, 2006

Date 1/16/04 Name Flowserve Corporation Signed [Signature]
 (N Certificate Holder) (Authorized Representative)

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 North Carolina and employed by HSB CT of Hartford Connecticut have inspected the pump, or valve, described in this Data Report on 1/16/04, and state that, to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with ASME Code, Section III, Div. 1.

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

Date 1/16/04

Signed [Signature] Commissions NC1421
 (Inspector) (Nat'l Bd., State, Prov. and No.)

Section-J
 Page -4 of 19

Anchor/Darling

Valve Company

701 FIRST STREET
P. O. BOX 3428
WILLIAMSPORT, PA 17761-0428
(717) 327-4800
TELEX: 759983

CERTIFICATE OF COMPLIANCE

CUSTOMER: Pacific Gas & Electric Company P.O.: 024506, C/O 2

LOCATION: Diablo Canyon Power Plant A/DV ITEM: EB018-3-1 thru 3-4
EB018-3-6 thru 3-9

APPLICABLE CODE: ASME Section III 1980 Edition, Summer 1982 Addenda, Class 1

This is to certify that the items on the above order have been manufactured, tested and prepared for shipment in accordance with the purchase order, A/DV's Quality Assurance Program and PG&E Specification No. 8179 requirements.

This is to certify that all testing, inspection, NDT, and welding performed on this contract have been conducted in accordance with the requirements of the applicable Contract, Code and Specification. This is to further certify that all required tests, inspections, NDT and welding requirements have been performed by qualified personnel, using approved procedures and approved certified material.

Records of the aforementioned statements of certification are on file at Anchor/Darling Valve Company and available for review.

ANCHOR/DARLING VALVE COMPANY

J. P. Dwyer
J. P. Dwyer
Q. A. Engineer

Date: 10/27/89

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Page - 5 of 19

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W.

THE NEW YORK PUBLIC LIBRARY

No. 01

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(12/00)

This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

Section J
Page 6 of 19

8. Remarks for 2"-18789-68 Globe Valve w/14" Tee Handle

Anchor/Darling Valve Co., 701 First St., Waltham, MA 02154

9. Design conditions 2735 psi 680 °F or valve pressure class 1878

10. Cold working pressure 4505 psi at 300 °F

11. Hydrostatic test 6775 psi Disk differential test pressure 4958 psi

CERTIFICATION OF DESIGN

Design Specification certified by Andrew P. Arley P.E. State CA Reg. no. 014381
Design Report certified by Ronald S. Farrell P.E. State PA Reg. no. PE-035216-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712

Expiry 4/15/92

Date 11/23/89 Name Anchor/Darling Valve Company Signed [Signature]

(N Certificate Holder)

(Authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State Massachusetts of Pennsylvania and employed by Commercial Union Ins. Co.

of Boston, Mass. have inspected the pump, or valve, described in this Data Report on 10/30/89 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 10/30/89 Signed Charles Young Commissions Pennsylvania 2392

(Natl. Bd. (Incl. endorsements) state or prov. and no.)

(1) For manually operated valves only.

Section J
Page 7 of 19

Anchor/Darling

Valve Company

701 FIRST STREET
P.O. BOX 888
WILLIAMSPORT, PA. 17701-0888
(717) 837-4000
TELEX: 708883

CERTIFICATE OF COMPLIANCE

CUSTOMER: Pacific Gas & Electric Company P.O.: 053273, C/O J

LOCATION: Diablo Canyon Power Plant A/DV ITEM: RT318-1-1 IDV-1-8

APPLICABLE CODE: ASME Section II 1965 Edition, No Addenda, Class I

CUSTOMER P.O. ITEM NO.: 01

PG&E CODE: 94-3273

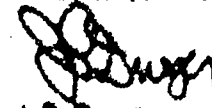
This is to certify that the items on the above order have been manufactured, tested and prepared for shipment in accordance with the purchase order, A/DV's Quality Assurance Program and PG&E Specification No. 8179 Rev 1 requirements.

This is to certify that all testing, inspection, NDT and welding performed on this contract have been conducted in accordance with the requirements of the applicable Contract, Code and Specification. This is to further certify that all required tests, inspections, NDT and welding requirements have been performed by qualified personnel, using approved procedures and approved certified material.

This also certifies that the materials and design of the items above are equal to or better than the originally supplied items.

Records of the aforementioned statements of certification are on file at Anchor/Darling Valve Company and available for review.

ANCHOR/DARLING VALVE COMPANY


J. P. Dwyer
S. A. Engineer

Section J
Page 8 of 19

Date: 2/5/93

ANI
W

As Required by the Provisions of the ASME Code, Section III, Division 1

Page 1 of 1

1. Manufactured and certified by Anchor/Darling Valve Co., 701 First St., Williamsport, PA 17701
(name and address of manufacturer)
2. Manufactured for Pacific Gas & Electric Co., P.O. Box 7760, San Francisco, CA 94120-7760
(name and address of Purchaser or Owner)
3. Location of installation Diablo Canyon Power Plant, 9 Mi. N.W. of Avila Beach, Avila Beach, CA
(name and address)
4. Model No., Series No., or Type Globe Drawing W8923036 Rev. C CRN N/A
93424
5. ASME Code, Section III, Division 1 1986 None 1 N/A
(edition) (edition date) (date) (Code Case no.)
6. Pump or valve Valve Nominal inlet size 2" Outlet size 2"
(in.) (in.)
7. Material: Body SA351-CFRM Bonnet N/A Disk AZ47-CB7-CU1-HB100 N/A

(a) Cort. Holder's Serial No.	(b) Nat'l Board No.	(c) Body Serial No.	(d) Service Serial No.	(e) Dist Serial No.
4115-01	N/A	4886	N/A	Heat 221860
4115-02	N/A	4887	N/A	Heat 221860
4115-03	N/A	4888	N/A	Heat 221860
4115-04	N/A	4889	N/A	Heat 221860
4115-05	N/A	4890	N/A	Heat 221860
4115-06	N/A	4891	N/A	Heat 221860

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11404

This form (5010-107) may be obtained from the Order Dept. ASDS, 22 Law Drive, Box 2300, Fairfield, NJ 07007-1300.

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Flowserve Corporation

Flow Control Division

701 FIRST STREET
P O BOX 3428
WILLIAMSPORT, PA 17701-0428
(570) 327-4800
FAX (570) 327-4805

CERTIFICATE OF COMPLIANCE

CUSTOMER: Pacific Gas & Electric Company P.O.: 097140

LOCATION: Diablo Canyon Power Plant S.O. ITEM: E-644A-1

APPLICABLE CODE: ASME Section III 1989 Edition, No Addenda, Class 2

VALVE SERIAL NUMBERS: E-644A-1-1 and -1-2

This is to certify that the items on the above order have been manufactured, tested and prepared for shipment in accordance with the purchase order, our Quality Assurance Program, Q.A. Manual, Issue #6, Rev. - dated 1/4/99, Specification 8179 Rev. 2N and other contract correspondence.

This is to certify that all testing, inspection, NDT and welding performed on this contract have been conducted in accordance with the requirements of the applicable Contract, Code and Specification. This is to further certify that all required tests, inspections, NDT and welding requirements have been performed by qualified personnel, using approved procedures and approved certified material.

Records of the aforementioned statements of certification are on file at Flowserve Corporation, Williamsport, Pennsylvania facility and available for review.

FLOWSERVE CORPORATION
Flow Control Division

D. Loudenslager

D. A. Loudenslager
Q. A. Engineer

Date: 6-29-99

ASME CERTIFICATE NO.: N1712
EXPIRATION DATE: 04/15/01

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Flowserve Corporation

Flow Control Division

701 FIRST STREET
P.O. BOX 3428
WILLIAMSPORT, PA 17701-0428
(570) 327-4800
FAX: (570) 327-4805

CERTIFICATE OF COMPLIANCE

CUSTOMER: Pacific Gas & Electric Company VALVE SERIAL NO.: E-644A-1-1 and -1-2

P.O. NO.: 097140 PROJECT: Diablo Canyon Power Plant

This is to certify that the above valve has been cleaned, coated and packaged in accordance with the specification requirements and was performed utilizing the following procedures.

Cleaning - MES-12.5 R/B
Painting - MES-49.5 R/A (Operator and C.S. parts)
Packaging - MES-33.1 R/B

FLOWSERVE CORPORATION
Flow Control Division

D. Loudenslager

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8. Remarks 3"x2"x3"-1816#-YGB Globe Valve w/B320-10 B.G. Actuator

9. Design conditions 2735 psi 579 °F or valve pressure class 1816 (1)
(pressure) (temperature)

10. Cold working pressure 4358 psi at 100°F

11. Hydrostatic test 6550 psi. Disk differential test pressure 4794 psi

CERTIFICATION OF DESIGN

Design Specification certified by Kersi J. Dalal P.E. State CA Reg. no. M-16690
Design Report certified by Theron C. Bartlett II P.E. State PA Reg. no. PE-039036-E

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction of the ASME Code, Section III, Division 1.

N Certificate of Authorization No. N1712 Expires 4/15/01

Date 6-29-99 Name Flowserve Corp. Signed [Signature]
(N Certificate Holder) (authorized representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Pennsylvania and employed by Commercial Union Ins. Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on 12712 6-30, 19 99, and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.

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

Date 6-30-99 Signed [Signature] Commissions Pennsylvania 2392
(Authorized Inspector) (Nat'l. Bd. Incl. endorsements) state or prov. and no.]
Charles Young

(1) For manually operated valves only.

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Flow Control Division - Raleigh Operations
1900 S. Saunders St. Raleigh, NC 27603
Phone: (919) 832-0525
Fax: (919) 831-3369

CERTIFICATE OF COMPLIANCE/CONFORMANCE

CUSTOMER: PACIFIC GAS & ELECTRIC COMPANY DATE: 01/23/2006

CUSTOMER P.O. NO.: 125492 SALES ORDER NO.: 35306

EQUIPMENT: 8"-600# Tilting Disc Check Valve with Inspection Port Valve
DWG: W9023267 Rev. C

<u>SO ITEM</u>	<u>QTY</u>	<u>DESCRIPTION</u>	<u>FLOWSERVE PART NUMBER</u>
001	1	8"-600# Tilting Disc Check Valve PG&E CODE: 95 7402 P.O. LINE: 01 VALVE S/N: AY777	04001011(3530601)

This is to certify that the valves listed above have been manufactured, inspected and prepared for shipment in accordance with the requirements of the purchase order, including all referenced documents and any other controlled correspondence. The valves meet the requirements of ASME Section III 1989 Edition, No Addenda, Class 2. The valves meet the requirements of Design Specification 8179 Rev. 2N. This is also to certify that the valves were processed in accordance with Flowserve Quality Assurance Manual, Revision 32 dated 1/15/05, which complies with the requirements of ASME Section III, NCA4000, latest Edition/Addenda, 10CFR50 Appendix B, and 10CFR21. The part number listed above is equivalent in fit, form and function to the item previously supplied.

FLOWSERVE CORPORATION
Flow Control Division

Benjamin J. Whysall
Quality Assurance Engineer Associate
(919) 831-3303
bwhysall@flowserve.com

Date: 1-24-06

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FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*
As Required by the Provisions of the ASME Code, Section III, Div. 1

Pg. 1 of 2

1. Manufactured by Flowserve Corporation, 1900 S. Saunders St., Raleigh, NC 27603
(Name and Address of N Certificate Holder)

2. Manufactured for Pacific Gas and Electric PO Box 7760 San Francisco, CA 94120-7760
(Name and Address of Purchaser or Owner)

3. Location of Installation Diablo Canyon Power Plant 800 Price Canyon Rd. Pismo Beach, CA 93449
(Name and Address)

4. Pump or Valve Valve Nominal Inlet Size 8" Outlet Size 8"
(inch) (inch)

	(a) Model No. Series No. or Type	(b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d) Drawing No.	(e) Class	(f) Nat'l Bd. No.	(g) Year Built
(1)	600#	AY777	N/A	W9023267 Rev. C	2	N/A	2006
(2)							
(3)							
(4)							
(5)							
(6)							
(7)							
(8)							
(9)							
(10)							

5. 8"-600# Tilting Disc Check Valve with Inspection Port Valve
(Brief description of service for which equipment was designed)

35306

6. Design Conditions 1440 psi 100 °F or Valve Pressure Class 600 (1)
(Pressure) (Temperature)

7. Cold Working Pressure 1440 psi at 100 °F.

8. Pressure Retaining Pieces

Mark No.	Material Spec. No.	Manufacturer	Remarks
05260-X551	SA351 CF8M	PRL	Body
05260-X552	SA351 CF8M	PRL	Disc
(b) Forgings			
25307	SA479-316	DuBose	Hinge Pin Cover

(1) For manually operated valves only

*Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

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Valve S/N AY777 through *****[illegible]

9. Hydrostatic test 2175 psi. Disk Differential test pressure 1584 Psi.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that this pump, or valve, conforms to the rules of construction

of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1., Edition 1989

Addenda	No	, Code Case No.	N/A	, Date
				7-22-06

Signed Flowserve Corp. by [Signature]
(N Certificate Holder)

Our ASME Certificate of Authorization No. N-1562 to use the N symbol expires 11-26-06
(N) (Date)

CERTIFICATION OF DESIGN

Design Information on file at _____	Flowserve Corporation Raleigh, NC
Stress analysis report (Class 1 only) on file at _____	Flowserve Corporation Raleigh, NC
Design specifications certified by (1) _____	K.J. Dalal
PE State <u>CA</u>	Reg. No. <u>M-16690</u>
Stress analysis certified by (1) _____	R.S. Farrell
PE State <u>NC</u>	Reg. No. <u>028656</u>

(1) Signature not required. List name only.

CERTIFICATE OF SHOP 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 North Carolina and employed by HSB CT of Hartford Connecticut have inspected the pump, or valve, described in this Data Report on 1 124 106, and state that, to the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with ASME Code, Section III. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 1/24/06

Signed J. L. McVall Commissions NC 1421
(Inspector) (Nat'l Bd., State, Prov. and No.)

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**FORM N-5 CERTIFICATE HOLDERS' DATA REPORT FOR INSTALLATION OR SHOP ASSEMBLY OF
NUCLEAR POWER PLANT COMPONENTS, SUPPORTS, AND APPURTENANCES***

As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1. Installed and certified by Flowserve Corporation 1900 S. Saunders St. Raleigh, NC 27603
(name and address of N or NA Certificate Holder)
2. Installed for Pacific Gas & Electric PO Box 7760 San Francisco, CA 94120-7760
(name and address of Purchaser)
3. Location of Installation Diablo Canyon Power Plant 800 Price Canyon Rd. Pismo Beach, CA 93449
(name and address)
4. System Identification port valve AY777 W9023267 R/C N/A N/A 2006
(system name) (Cert. Holder's serial no.) (drawing no.) (CRN) (Nat'l. Bd. no.) (year installed)
5. ASME Code, Section III, Division 1: 1989 No 2 N/A
(edition) (addenda date) (class) (Code Case no.)
6. N Certificate Holder having overall responsibility Flowserve Corp. 1900 S. Saunders St. Raleigh, NC 27603
(name and address)

7. Nuclear components, parts, appurtenances, and supports installed (List each item and attach copies of N Certificate Holders' Data Reports and NPT Certificate Holders' Data Reports.):
- Components:

(a) Comp. or Assemb.	(b) Name of Certificate Holder	(c) Serial No.	(d) CRN No.	(e) Nat'l. Bd. No.	(f) Year Built
Valve	Flowserve	AY777	N/A	N/A	2006
Valve	Flowserve	76BEA	N/A	N/A	2005

Piping and part installation:

(a) Piping or Part Subassembly	(b) Name of Certificate Holder	(c) Serial No.	(d) CRN No.	(E) Nat'l. Bd. No.	(f) Year Built — Parts Only

Support installation:

(a) Support No.	(b) Name of Certificate Holder	(c) Serial No.	(d) Design Rept./Load Capac. Data Sheet	(e) CRN No.	(f) Nat'l. Bd. No.	(g) Year Built

Additional material excluding welding material:

(a) Name of Mfr.	(b) Material Spec. No.	(c) Dimensions — Overall
DuBose	SA312-316 (Heat Code 25799)	Pipe 1-1/2" dia. Schedule 40
Energy & Process Corporation	SA182 Gr. F316 (Heat Code E41200-1)	Pipe Cap 1-1/2" dia. 3000#

8. Installation in accordance with:

Procedure or Drawing No.	Prepared by
W9023267 Rev. C- valve & port valve	Flowserve Corporation

9. Hydrostatic test pressure 2175 psi at temp. 72 °F. System design pressure 700 psi at temp. 400 °F.

10. Remarks:
port valve assembled in accordance with drawing 05-35306-01 Rev. A

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

(11/05)

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CERTIFICATION OF DESIGN FOR PIPING SYSTEM

Design information on file at _____

Design report on file at _____

Design specification certified by _____ P.E. State _____ Reg. no. _____

Design report certified by _____ P.E. State _____ Reg. no. _____

Design conditions of pressure piping _____ psi. Temp. _____ °F.

CERTIFICATE OF INSTALLATION COMPLIANCE

We certify that the statements made in this report are correct and that this installation conforms to the rules for construction of the ASME Code, Section III, Division 1, and was performed in accordance with the documents listed in B above.

N or NA Certificate of Authorization No. _____ Expires _____

Date _____ Name _____ (N or NA Certificate Holder) Signed _____ (authorized representative)

CERTIFICATE OF INSTALLATION 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 _____ and employed by _____ of _____ have inspected the installation of the items described in this Data Report on _____ and state that to the best of my knowledge and belief, the Certificate of Authorization Holder has performed this installation in accordance with the ASME Code, Section III, Division 1.

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

Date _____ Signed _____ (Authorized Nuclear Inspector) Commissions _____ (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)

CERTIFICATE OF COMPLIANCE FOR OVERALL RESPONSIBILITY

Following completion of the above, the Certificate of Authorization Holder accepting overall responsibility for the piping system shall complete the following statement:

We certify that the statements made by this report are correct and that the piping system conforms to the rules for construction of the ASME Code, Section III, Division 1.

N-1562

11-26-06

N Certificate of Authorization No. _____ Expires _____

Date 1-23-06 Name Flowserve Corporation Signed _____ (N Certificate Holder) _____ (authorized representative)

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 North Carolina and employed by HSB CT of Hartford, CT have inspected the piping system described in this Data Report on 1/24/06 and state that to the best of my knowledge and belief, the Certificate Holder has constructed this piping system in accordance with the ASME Code, Section III, Division 1.

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

Date 1/24/06 Signed [Signature] (Authorized Nuclear Inspector) Commissions NC#1421 (Nat'l. Bd. (incl. endorsements) and state or prov. and no.)