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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,

Donná ∮acobs

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:	Tellook yn Vans	
	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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J	Manufacturers' Data Reports For Nuclear/Pressure Vessels

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	<u> </u>
3.	Plant Unit4. Owner Certificate of Authorization (if required)	N/A
5.	Commercial Service Date <u>03/13/86</u> 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	Westinghouse		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	
				ı	

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)

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

1. Owner Pac	ific Gas & Electric Company,	77 Beale St., San Fr	ancisco, CA 9410	6								
2. Plant Dia	blo Canyon Power Plant, P.O.	Box 56, Avila Beac	h, CA 93424									
3. Plant Unit4. 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 Cla	ass 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	Ņ/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.

FORM NIS-1 (back)

9. Inspection Period Identification:	8.	Examination Dates to to
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 16. 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 S/17/66 20 OG Signed Engineering Manager By Owner Susan Vestcott 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 Od/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 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 in accordance with the Inspection Plan and as required by the ASME Code, Section XI. His period of the ASME Code of the ASME Code of the ASME Co	9.	Inspection Period Identification:
12. Date/Revision of Inspection Plan:	10.	Inspection Interval Identification: Second
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 16. Abstract of Corrective Measures. Refer to ISI Report 17. 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. 18. Certificate of Authorization No. (if applicable) N/A Expiration Date N/A 19. Date 20.06 Signed Engineering Manager By Owner Susa Vestcott 19. CERTIFICATE OF INSERVICE INSPECTION 19. 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 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. 19. 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. Commissions CA 1828, NB 9990 A.N.I.C. Harspector's Signature/Kenny Kim	11.	Applicable Edition of Section XI 1989 Addenda None
Certificate of Authorization No. (if applicable) 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 that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures or implied, concerning the examinations and tests, and corrective measures described in this Owners' Report in accordance with the Inspector or his employer makes any warranty, expressed or implied, concerning the examinations and tests, and corrective measures described in this Owners' Report in accordance with the Inspector nor his employer measures described in this Owners' Report 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 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 in accordance with the Inspector or 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. Commissions CA 1828, NB 9990 A.N.I.C. Inspector's Signature/Kenny Kim National Board, State, Province and, endorsements.	12.	Date/Revision of Inspection Plan:
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 20 OG Signed Engineering Manager By Owner Susan Vestcott 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. Commissions CA 1828, NB 9990 A.N.I.C. Inspector's Signature/Kenny Kim National Board, State, Province and, endorsements.	13.	
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)	14.	Abstract of Results of Examinations and Tests. Refer to ISI Report
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)	15.	Abstract of Corrective Measures. Refer to ISI Report
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 O4/06 to O5/06, 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. Commissions CA 1828, NB 9990 A.N.I.C. Hispector's Signature/Kenny Kim National Board, State, Province and, endorsements.	taken co Certifica	nform to the rules of the ASME Code, Section XI. Ite of Authorization No. (if applicable) N/A Expiration Date N/A
Inspectors and the State or Province of		CERTIFICATE OF INSERVICE INSPECTION
Date 8 -1 -4 20 06	Inspecto Harford, 04/06 examina the Inspector or implie Report. I injury or	rs and the State or Province of <u>California</u> and employed by <u>HSB-CT</u> of <u>CT</u> have inspected the components described in this Owners' Report during the period <u>105/06</u> , and state that to the best of my knowledge and belief, the Owner has performed tions and tests and taken corrective measures described in this Owners' Report in accordance with ection Plan and as required by the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed ed, concerning the examinations and tests, and corrective measures described in this Owners' Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal property damage or a loss of any kind arising from or connected with this inspection. Commissions <u>CA</u> 1828, NB 9990 A.N.I.C.

SECTION C CLASS ONE COMPONENTS

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT (2R13) ASME SECTION XI SYSTEMS - CLASS 1						MAJOR ITEM: REACTOR VESSEL	
.						PAGE 1 of 7	-
CATEG ITEM	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-A		····		<u></u>			
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		
CATEG	ORY	COMPONENT/	WELD OR	EXAM	EXAM			
ITEM	DESCRIPTION	LINE .	COMPONENT NO.	TYPE	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	

(2R13)	D INTERVAL, THI SECTION XI SYST	·	MAJOR ITEM: REACTOR VESSEL				
					•	PAGE 3 of 7	
CATEG	ORY	COMPONENT/	WELD OR	EXAM	EXAM		
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	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

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

MAJOR ITEM: REACTOR VESSEL

ÀSMÉ SECTION XI SYSTEMS - CLASS 1

						PAGE 4 of 7	
CATEO ITEM	GORY 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
		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
	Inlet Nozzle to Vessel Weld	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)
ACMÉ SECTION VI SVSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

						PAGE 5 of 7	
CATEG	ORY	COMPONENT / WELD OR	EXAM	M EXAM			
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE .	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

(2R13)	•	·	OND REFUELING OU	TAGE RE	PORT	MAJOR ITEM: REACTOR VESSEL	
ASME S	SECTION XI SYST	EMS - CLASS 1	, , , , , , , , , , , , , , , , , , ,			PAGE 6 of 7	
CATEG ITEM	ORY 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	VT-1	5-17-06	6 Bolts	NRI

F-12

(2R13)	D INTERVAL, THI SECTION XI SYST	·	OND REFUELING OU	MAJOR ITEM: REACTOR VESSEL			
	-					PAGE 7 of 7	
CATEG	ORY	COMPONENT /	WELD OR	EXAM	EXAM		
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	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)

MAJOR ITEM: STEAM GENERATORS

ASMÉ SECTION XI SYSTEMS - CLASS 1

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 Ubends)	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.

(2R13)	D INTERVAL, THI SECTION XI SYST		OND REFUELING OUT	MAJOR ITEM: BOLTING			
						PAGE 1 of 2	
CATEG ITEM	ORY DESCRIPTION	COMPONENT /	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	VT-1	4-25-06	4 Studs & Nuts	NRI

(2-RO-562)

(2R13)	D INTERVAL, THI SECTION XI SYSTE	•	MAJOR ITEM: BOLTING				
	<u> </u>					PAGE 2 of 2	
CATEG ITEM	ORY 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

(2R13)	OND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT MAJOR ITEM: VALVES 13) 16 SECTION XI SYSTEMS - CLASS 1						
						PAGE 1 of 1	
CATEG ITEM	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
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 (2R13)

MAJOR ITEM: PIPING

ASME SECTION XI SYSTEMS - CLASS	AS	SME	SECTIO	ON XIS	YSTEMS	- CLASS
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						PAGE 1 of 3	
CATEG	ORY 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
(12)	2		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	РТ	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	<u>-</u>
CATEG ITEM	ORY 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

SECOND INTERVAL, THIRD PERIOD, SECOND REFUELING OUTAGE REPORT MAJOR ITEM: PIPING (2R13) ASME SECTION XI SYSTEMS - CLASS 1							
	-			·		PAGE 3 of 3	
CATEG	ORY	COMPONENT /	WELD OR	EXAM	EXAM		
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	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

(2R13)	D INTERVAL, THI SECTION XI SYST	·	OND REFUELING OU	TAGE RE	PORT	MAJOR ITEM: PIPING	
			·			PAGE 1 of 1	
CATEG	ORY	COMPONENT /	WELD OR	EXAM	EXAM		
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	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

(2R13)	D INTERVAL, THI SECTION XI SYST		OND REFUELING OU	MAJOR ITEM: PIPING INTEGRAL ATTACHMENTS, PUMPS			
PAGE 1 of 2					PAGE 1 of 2	· · · · · · · · · · · · · · · · · · ·	
CATEG	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-C		<u> </u>		· · · · · · · · · · · · · · · · · · ·			
C3.20	Welded Attachment	2K15-226-28V	2026-IV 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
	·	286-45-4	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

(2R13)	D INTERVAL, THI SECTION XI SYSTI	RD PERIOD, SECO EMS - CLASS 2	MAJOR ITEM: PIPING INTEGRAL ATTACHMENTS, PUMPS				
						PAGE 2 of 2	·
CATEG		COMPONENT /	WELD OR	EXAM	EXAM		
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	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	1	
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	ŊŖĬ
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

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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

DIABLO CANYON POWER PLANT - UNIT 2

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

MAJOR ITEM:Containment Penetration Appendix J

ASME SECTION XI SYSTEMS - CONTAINMENT

P	Δ	GE	1	Λf	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

DIABLO CANYON POWER PLANT - UNIT 2

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

MAJOR ITEM: Containment Penetration
Pressure Test

ASME SECTION XI SYSTEMS - CONTAINMENT

PAGE 2 of 2

PEN S	STP	Results	EXAM	PEN	STP	Results	EXAM	PEN	STP	Results	EXAM
NO.	NO.		DATE	NO.	NO.		DATE	NO.	NO.		DATE
	B-683	Acceptable		The second secon		mental section of the		A Shire Buth land in	ng panggandang ang panggang a panggang panggang ang panggang ang panggang pangganggang ang panggang ang pangg		
				The second secon							

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

(2R13) ASME	D INTERVAL, THI SECTION XI SYST ENTED		ND REFUELING OU	TAGE RE	PORT	MAJOR ITEM: AUGMENTED EXAMINATIONS	
						PAGE 1 of 1	
CATEO	GORY	COMPONENT /	WELD OR	EXAM	EXAM		
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	DATE	COMMENTS	RESULTS
Augmen	nted						<u></u> _
	RC Pump 2-4 Flywheel	RC Pump 2-4 Flywheel	Flywheel Inner Half Radius	UT	4-26-06	•	NRI

SECTION I REPAIRS AND REPLACEMENTS

1. Owner		Gas and Elect		100						e 30, 2006
	11 Bea	lie Street, San i	Francisco, CA 941	100				•	neet1_	of <u>2</u>
2. Plant		Canyon Power							Jnit	2
	P.O. B	ox 56, Avila Be	ach, CA 93424							
3. Work Pe	rformed l	bу	Owner							
			See Abov	'e				Repair Org. P.O	. No., Job No	., etc.
4. Identifica	ation of S	System		Feedwater	System (03)		-			
5. (a) Applicable Construction Code (See Work Order) 19 Edition Addenda, Code Cases										N/A
			XI Utilized for Re	pairs or Rep	lacements -	1989, No	Addend	la, Code Case	1	N-416-1
6. Identifica	ation of c	omponents Rep	paired or Replaced,	and Replace	ment Componer	nts.				
Name o Compon		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-2-3	69	Flowserve	AV879	N/A	C0183654	Line-569	N/A	Replaced (1)		Yes
FW-2-3	71	Flowserve	AV876	N/A	C0183655	Line-570	N/A	Replaced (1)		Yes
FW-2-3		Flowserve	AV880	N/A	C0183656	Line-576	N/A	Replaced (1)	\boxtimes	Yes
Line-5	57	PG&E	N/A	N/A	C0200367	Line-557	N/A	Replaced (2)		No
Line-55	55	PG&E	N/A	N/A	C0203985	Line-555	N/A	Repaired (3)		No
7. Descripti	on of Wo	ork <u>(1)</u>	Installed New Valv	e, (2) Repla	aced Attachmen	t Weld to FW-2-5	31 (3) R	epaired Indic	ation by G	rinding
8. Tests Cor Pressure	nducted: > 960	Hydrostati PSIG T	c Pneu:		_	erating Pressure Conducted IAW C		empt [Other	
_			<u> </u>			onducted IAW C	ouc Cas	511-410-1		
9. Remarks		See Section-J	for attached Manu	factuer's Dat	ta Sheets					
									•	
··········										·
of the ASMI	E Code.	Signed	in this report are co		E OF COMPLES Repair	IANCE r/Replacment Engineering N	-	orms to Section	n XI 8/16	/0g
((Owner or O	wner's Designee)		Westcott	E OF INSPEC	(Title)			/ (Dat	e)
I, the unders	•	•	ommission issued b					spectors	of	•
	ord, CT			air/Replacm	ent described	l in this Report or		-17	$\frac{\overline{20}}{\overline{0}}$	
			ledge and belief, th			-				of the
			cate, neither the Ins							
repair or rep	lacement	t described in th	is Report. Furtherr	nore, neither	the Inspector n	or his employer s	hall be li			
personal inju	iry or pro	1.4.	or loss of any kind a							
	<u></u>	2 genn	Inspec	···	8-17-5			CA 1828 - N		
		sheets in the for	(Titl) rm of lists, sketches ded on each sheet, a	, or drawing		rovided (1) size i	s 8 1/2 x		formation	in items 1

1. Owner		Gas and Electric							_		30, 2006
	77 Beald	e Street, San Fra	ancisco, CA 94	106			· · · -		Sheet _		of
2. Plant		Canyon Power P							Unit _		2
	P.O. Bo	x 56, Avila Beac	h, CA 93424								
3. Work Po	erformed 1	by	Owner								
			See Above					Repair Org	g. P.O. No.	, Job No.	, etc.
1. Identific	cation of S	ystem	Feed	lwater Sy	stem (03)						
i. (a) Appl	licable Co	nstruction Code	See Work C			Adde	enda, Co	de Case	S Colo	N	/A
		ition of Section 2 omponents Repa					NO_	Addeno	ia, Code	Case	N-416-
Name Compo		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repl	paired aced, or acement	Pressure Test	ASME Co Stamped (Yes or N
Line-	557	PG&E	N/A	N/A	C0203986	Line-557	N/A	Repaired	d (3)		No
FW-2-	531	Atwood & Morrill	NF	N/A	R0176998	Line-557	N/A	Replace	d (4)		No
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. Remarks	s (3) R	Repaired Indication	on by Grinding,	(4) Replac	eed Disc						

1. Owner		Gas and Election	ric Company Francisco, CA 94	106				Da		e 30, 2006 of 1		
2. Plant		Canyon Powe						 U	nit			
			ach, CA 93424									
3. Work Pe	rformed	by	Owner									
			See Abov	/e				Repair Org. P.O. 1	No., Job N	o., etc.		
4. Identifica	ation of S	System _	Turbi	ne Steam S	upply System ((04)	_					
5. (a) Appli	cable Co	onstruction Code	(See Work O	order) 19	Edition	Addenda, (Code Cas	es		N/A		
, , .			XI Utilized for Re					la, Code Case		N-416-1		
6. Identifica	ation of c	components Rep	aired or Replaced,	and Replace	ment Compone	nts.						
Name o Compon		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-PC	V-22	Copes Vulcan	6910.95009	N/A	C0190774	Line-225	N/A	Replaced (1)		Yes		
MS-2-RV	/- 59	Dresser Ind Valve	BM 7857	BM 7857 N/A C0203730 Line-1066 N/A Replaced (1) □								
MS-2-FC	V-44	Schutte and Koerting	N690557	N/A	N/A	Replaced (1)		No				
MS-2-FC	V-41	Schutte and Koerting	NF	N/A	R0202682	Line-228	N/A	Replaced (2)		No		
7. Descripti	on of W	ork <u>(1)</u>	Replaced Internals	(2) Replace	ed Bonnet Boltin	ng						
			· D -									
8. Tests Cor Pressure	nducted:		c 🔲 Pneu est Temp.		-	erating Pressure Conducted IAW C			Other _	_		
9. Remarks					•							
We certify th	hat the st	atements made	in this report are co		E OF COMPLE S Re	Placement	comfo	rms to Section	XI,	,		
of the ASMI	E Code.	Signed		a		Engineering 1	Manager	3	7/16/	06		
(0	Owner or O	wner's Designee)		Westebit ERTIFICAT	E OF INSPEC	(Title) CTION		/	(Dat	e)		
•	•	•	mmission issued b	y the Nation		ler and Pressure \		spectors		_		
and the State	or Prov ord, CT		California, empl	oyed by Replacement	described	H in this Report or	SB-CT	-1 7 ,2	0 06	– ^{of}		
			ledge and belief, th							of the		
			cate, neither the Ins is Report. Furthern									
		perty damage o	r loss of any kind a					aoie in any ma	iniei ioi	any		
		y com	- Inspec					CA 1828 - NB				
		sheets in the for	(Titl m of lists, sketches led on each sheet, a	, or drawing		provided (1) size i	s 8 1/2 x		rmation	in items 1		

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1. Owner		Gas and Elect		106	_					ne 30, 2006
0.701.4	-		Francisco, CA 94°	100					heet 1	_ of _1_
2. Plant		Canyon Power	r Plant ach, CA 93424					-	Unit	
3. Work Pe	•		Owner							
5. WOIR 10			See Abov	⁄e				Repair Org. P.C	. No., Job 1	No., etc.
4. Identifica	ation of S	ystem	Turbi	ne Steam S	upply System ((04)	_			·
		nstruction Code	(See Work O		Edition	Addenda, (ses la, Code Case		N/A N-416-1
			aired or Replaced,	-			Addend	ia, Code Cast	; 	14-410-1
Name o Compon		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, o Replacemen		ASME Code Stamped (Yes or No)
2033-25	SSL	Pacific Scientific	2366	N/A	C0187288	Line-1066	N/A	Replaced (1)		No
		Berentific								
			(
										+
7. Descripti8. Tests CorPressure9. Remarks	nducted:	Hydrostati	Replaced Load Pin C Pneur est Temp.	matic 🔲	•	erating Pressure Conducted IAW C		empt	Other .	
_										
of the ASMI	E Code. S		n this report are co	rrect and thi Westcott		placement Engineering M (Title)	Manager	rms to Section	n XI 3/16	106 nte)
I the unders	ioned hol	lding a valid co	mmission issued by		E OF INSPEC		Zeccel In	cnantora		
and the State		nce of	California, empl	oyed by Replacement	•		SB-CT	<u> </u>	20 Od	of of
and state tha ASME Code repair or rep	t to the be . By sign lacement	est of my knowl ning this certific described in thi	ledge and belief, the cate, neither the Instite Report. Furthern r loss of any kind a	is repair or r pector nor hi nore, neither rising from o	eplacement has is employer mal the Inspector n	been constructed kes any warranty, or his employer so th this inspection.	in accor expresse hall be li	dance with S ed or implied	ection XI , concern nanner for	of the ing the r any
		heets in the for	(Titlem of lists, sketches led on each sheet, a	, or drawing		rovided (1) size is	s 8 1/2 x		formation	in items 1

1. Owner		Gas and Elect	ric Company Francisco, CA 94	106					ate Ju	of 1
2. Plant		Canyon Power	· · ·						nit	
Z. Flam			ach, CA 93424			<u> </u>			·IIII	2
2 West De	-		Owner							
3. Work Pe	rionned		See Abov	/e			-	Repair Org. P.O.	No., Job	No., etc.
4. Identifica	ation of S	 System	Re	eactor Coola	int System (07					
		<u> </u>					-			
5. (a) Appli	cable Co	nstruction Code	e (See Work O	order) 19	Edition	Addenda, (Code Cas	es		N/A
			XI Utilized for Re			1989, No	-			N-416-1
6. Identifica	ation of c	omponents Rep	aired or Replaced,	and Replace	ment Compone	nts.			-	
Name o		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-		Crosby Valve	U12S1	N/A	R0269617	Line-729	N/A	Replaced (1)	Ø	Yes
RCS-2-RV-		Crosby Valve	U2A	N/A	R0269618	Line-728	N/A	Replaced (1)		Yes
RCS-2-RV-		Crosby Valve	U12S2	N/A	R0269619	Line-727	N/A	Replaced (1)	×	Yes
Reactor C Suppor		Combustion Engineering	68101	21359	C0202702	RV1	1973	Replaced (2)		Yes
7. Description	on of Wo	ork (1)	Replaced Valve,	(2) Internals	Up-flow Modi	fications for Temp	erature]	Reduction Des	ign Ch	ange
8. Tests Cor	aduatad.	Hydrostation	c	matia 🗆	Nominal On	onetina Droggues	⊠ r	t	Other	
	2235	•	est Temp. N/A		-	erating Pressure Conducted IAW C		empt	Other	
9. Remarks		1510 1	ost 10mp		Tressure rest (onducted IMW C	ouc Case	. 11-410-1		
							-			
-					•					·
•••••			CE	RTIFICATI	E OF COMPL	IANCE				
We certify th	nat the sta	atements made i	in this report are co	rrect and thi	s Re	placement	comfo	rms to Section	XI	
of the ASME		_				Engineering N			<u> 8/1</u>	6/06
(C	Owner or O	wner's Designee)		Westcott	E OF INSPEC	(Title)			/ (D	até)
I. the undersi	igned, ho	lding a valid co	mmission issued by				essel In:	spectors		
and the State				oyed by			SB-CT			, of
	ord, CT		•	Replacement		l in this Report on		 ′	0 0	
			ledge and belief, th							
			eate, neither the Ins is Report. Furthern							
			r loss of any kind a					able in any ma	inner ic	or any
porozing.		XOU	Inspec					CA 1828 - NE	9990 4	A.N.I.C
	Kenny D		(Titl	,	(Date)	(3	State or 1	rovince, Natio	nal Boa	rd)
			m of lists, sketches led on each sheet, a							
										

	ic Gas and Elec						Da		30, 2006
	eale Street, San	Francisco, CA 941	106				She	et <u>1</u>	of $\frac{2}{}$
-	o Canyon Powe Box 56, Avila Be				-		Un	it	2
3. Work Performe		Owner							
5. Work Ferformer		See Abov	/e			-	Repair Org. P.O. N	o., Job No	., etc.
4. Identification of	System	Chemical	and Volum	e Control Syste	em (08)	-			
5. (a) Applicable (b) Applicable I		(See Work O		Edition	Addenda, C		es la, Code Case		N/A I-416-1
6. Identification of	components Rep	aired or Replaced,	and Replace	ment Componer	nts.				
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)		No
CVCS-2-8393C	Anchor Darling	EB018-3-6	N/A	C0190917	Line-56	N/A	Replaced (2)	⊠(a)	Yes
CVCS-2-8393D	Anchor Darling	ET315-1-2	N/A	C0190918	Line-57	N/A	Replaced (2)	⊠ (a)	Yes
Line-4532	PG&E	NF	N/A	C0196260	Line-4532-2"	N/A	Replaced (3)	⊠ (b)	No
7. Description of V	/ork <u>(1)</u>	Attached Jacking B	olts by Wel	ding, (2) Replac	ed Valve, (3) Rep	laced Pi	ping		
8. Tests Conducted	: Hydrostati	c 🗌 Pneur	matic 🔲	Nominal Op	erating Pressure	⊠ Exe	empt 🔲 (Other	
Pressure (a) 265 (b) 223		est Temp. N/A	°F 🛛	Pressure Test C	onducted IAW Co	ode Case	N-416-1	_	
9. Remarks	See Section J	for attached Manuf	acturer's Da	ta Reports					
We certify that the softhe ASME Code.	Signed	in this report are co	rrect and this	E OF COMPLI	placement Engineering N		rms to Section 2	(I 9/16/	66
(Owner or	Owner's Designee)		Westcott RTIFICAT	E OF INSPEC	(Title)			/ (Date)
I, the undersigned, I and the State or Pro Hartford, CT	vince of	California, emple	y the Nationa oyed by Replacement	-		SB-CT	spectors ,20	06	of of
and state that to the ASME Code. By si repair or replacement	best of my know gning this certific at described in the	ledge and belief, the cate, neither the Insp is Report. Furthern	is repair or re pector nor hi nore, neither	eplacement has is employer mak the Inspector no	been constructed kes any warranty, or his employer sh	in accord	dange with Sect	ion XI o	f the g the
personal injury or p	roperty/damage o	or loss of any kind a Inspec	•		th this inspection. -2006 Com	nissions	CA 1828 - NB 9	9990 A.N	ı.i.c
Note: Supplementa through 4 on this da form.	D. Kim I sheets in the for	(Title m of lists, sketches,	e) , or drawings	(Dare) s may be used p	(S) rovided (1) size is	State or I 8 1/2 x	Province, Nation 11 in., (2) infor	al Board mation i	n items 1

1. Owner		Gas and Electric		400					Date _		30, 200	
•	77 Beald	e Street, San Fra	ancisco, CA 94	106				`	neet _	2	_ of	
2. Plant		Canyon Power F x 56, Avila Beac							Unit _		2	
3. Work Pe	erformed l	by	Owner									
	•		See Above	•			F	Repair Org.	P.O. No.,	Job No.,	etc.	
4. Identific	ation of S	System	Chemical and	Volume C	Control System	n (08)						
5. (a) Appl	licable Co	nstruction Code	See Work C					de Cases	-	N /.	A .	
		lition of Section I omponents Repa		_	_		, No	Addenda	, Code	Case	N-4	16-1
Name		Name of	Manufacturer	National	Work	Other	Year	Repai		Pressure Test	ASN Coo	
Compo		Manufacturer	Serial No.	Board No.	Order No.	Identification Line No	Built	Replace Replace		sure	Stam (Yes o	ped
CVCS-2-	8388B	Flowserve	E-644A-1-2	N/A	C0198594	Line-3678	N/A	Replaced	(2)	⊠ (a)	Ye	s
CVCS-2-	8388C	Flowserve	E-644A-1-1	N/A	C0198596	Line-3678	N/A	Replaced	(2)	⊠ (a)	Ye	:s
Centrif Charging	_	Pacific Pumps	49189	N/A	C0198694	CCP1	N/A	Replaced	(4)		No)
Centrif Charging	•	Pacific Pumps	49189	N/A	C0199725	CCP1	N/A	Replaced	(5)		No)
Centriff Charging	ugal	Pacific Pumps	49189	·N/A	C0201313	CCP1	N/A	Replaced	(6)		No	·
Centriff Charging	ugal	Pacific Pumps	49189	N/A	C0201295	CCP1	N/A	Replaced	(7)		No)
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		<u> </u>					<u> </u>	<u> </u>				
7. Remarks	(2) F	Replaced Valve,	(4) Drilled Holes	s in Drip P	late, (5) Repla	aced Hold Down	n Nut, (6) Installed	Stiffer	ner Plate	2	
7) Replace	d IB and (OB Mechanical S	eal Housings									
								-				

1. Owner																
2. Plant Diablo Canyon Power Plant P.O. Box 55, Avila Beach, CA 93424 See Above See Above Repair Org. F.O. No., Jeb No., etc. 3. Work Performed by Owner See Above See Above Repair Org. F.O. No., Jeb No., etc. 4. Identification of System Safety Injection 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	1. Owner	Pacific	Gas and Elect	ric Company						Date	June	30, 2006				
A Identification of System Safety Injection System (99)		77 Bea	ale Street, San I	Francisco, CA 941	06					Sheet	1	of 2				
3. Work Performed by See Above Safety Injection System (09)	2. Plant	Diablo	Canyon Power	Plant						Unit		2				
See Above Safety Injection System (09)		P.O. B	ox 56, Avila Be	ach, CA 93424												
Safety Injection System (08) Safety Injection System (08)	3. Work Pe	rformed	by	Owner												
(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				See Abov	<u>'e</u>			1	Repair Org. 1	P.O. No.	, Job No	., etc.				
(b) Applicable Edition of Section XI Utilized for Replaced, and Replacements 6. Identification of components Repaired or Replaced, and Replacement Components. Name of Component	4. Identifica	ation of S	System	Sa	afety Injectio	on System (09)	1	-								
6. Identification of components Repaired or Replaced, and Replacement Components. Name of Component																
Name of Component Name of Manufacturer Serial Board No. No. No. No. Identification Year Replaced, or Replaced, or No. No. No. Identification Year Replaced, or Replacement Stamped Stamped Stamped No.					_			Addend	ia, Code Ca	ase		1-416-1				
Si-2-8821A Velan Valve NF N/A C0191609 Line-3839 N/A Replaced (1) Yes Si-2-8821B Velan Valve NF N/A C0191609 Line-3830 N/A Replaced (1) Yes Si-2-88021B Velan Valve NF N/A C0191610 Line-255 N/A Replaced (1) Yes Si-2-8808D Velan Valve NF N/A C0191610 Line-255 N/A Replaced (1) Yes Si-2-8808D Velan Valve NF N/A C0191610 Line-255 N/A Replaced (1) Yes Velan Valve NF N/A C0191610 Line-255 N/A Replaced (1) Yes Velan Valve NF N/A C0191610 Line-255 N/A Replaced (1) Yes Line-7077/7076 (ECCS Void Hdr) PG&E N/A N/A C019214 Line-4296 N/A Replaced (2) Yes Velan Valve N/A N/A C019214 Line-4296 N/A Replaced (2) Yes Velan Valve N/A N/A C019214 Line-4296 N/A Replaced (2) Yes Velan Valve N/A N/A C019214 Line-4296 N/A Replaced (2) Yes N/A N/A C019214 Line-4296 N/A Replaced (2) Xes N/A N/A N/A N/A C019214 Line-4296 N/A Replaced (2) N/A N/A C019214 Line-4296 N/A Replaced (2) N/A N/A C019214 Line-4296 N/A Replaced (2) N/A N/A C019214 Line-4296 N/A Replaced (2) N/A N/A C019214 Line-4296 N/A N/A C019214 Line-4296 N/A N/A C019214 L	6. Identifica	ation of c	omponents Rep	aired or Replaced,	and Replace	ment Compone	nts.									
SI-2-8821B Velan Valve NF N/A C0191609 Line-3850 N/A Replaced (1)			•	Serial	Board		Identification		Replaced	, or		Code Stamped (Yes or				
SI-2-8808C Velan Valve 0017 N/A C0191610 Line-255 N/A Replaced (1)	SI-2-882	21A	Velan Valve			!		+	Replaced	(1)		Yes				
SI-2-8808D Velan Valve NF N/A C0191610 Line-256 N/A Replaced (1)		8821B Velan Valve NF N/A C0191609 Line-3850 N/A Replaced (1) Yes 8808C Velan Valve 0017 N/A C0191610 Line-255 N/A Replaced (1) Yes 8808D Velan Valve NF N/A C0191610 Line-256 N/A Replaced (1) Yes														
Line-7077/7076 (ECCS Void Hdr) PG&E N/A N/A C0199214 Line-4296 N/A Replaced (2) \(\text{ May} \) Yes (1) Welded Yoke to Pressure Boundry, (2) Installed New Vent Header 8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure (a) 190 (b) 2235 PSIG Test Temp. N/A Pressure Test Conducted IAW Code Case N-416-1 9. Remarks CERTIFICATE OF COMPLIANCE Signed (Owner or Owner's Designee) Susan Westcott 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 Alfatonial Board of Boiler and Pressure Vessel Inspectors 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 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. No		-	Velan Valve 0017 N/A C0191610 Line-255 N/A Replaced (1) ☐ Yes													
CECTS Void Hdr) PG&E N/A N/A CU199214 Line-4296 N/A Replaced (2) Eg(a) Yes			Velan Valve	NF	N/A	C0191610	Line-256	N/A	Replaced	(1)	<u> </u>	Yes				
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure (a) 190			PG&E	N/A	N/A	C0199214	Line-4296	N/A	Replaced	(2)	⊠(a)	Yes				
Pressure (a) 190 (b) 2235 PSIG Test Temp. N/A Pressure Test Conducted IAW Code Case N-416-1 9. Remarks CERTIFICATE OF COMPLIANCE	7. Descripti	on of Wo	ork (1)	Welded Yoke to Pr	essure Boun	dry, (2) Installe	ed New Vent Head	ler								
Pressure (a) 190 (b) 2235 PSIG Test Temp. N/A Pressure Test Conducted IAW Code Case N-416-1 9. Remarks CERTIFICATE OF COMPLIANCE COMPLIANCE	8 Tests Cor	nducted:	Hydrostatio	r 🗍 Preu	matic \square	Nominal Or	perating Pressure	⊠ Ex	emnt [7 O:	her					
We certify that the statements made in this report are correct and this Replacement comforms to Section XI of the ASME Code. Signed Engineering Manager (Owner or Owner's Designee) 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 S-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. 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	Pressure	(a) 190	•	ect Temn	oE	•	•		•	, 0,						
We certify that the statements made in this report are correct and this of the ASME Code. Signed (Owner or Owner's Designee) Susan Festcott (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 S-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 (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		(0) 2233	_													
We certify that the statements made in this report are correct and this of the ASME Code. Signed (Owner or Owner's Designee) Susant Setcott (Owner or Owner's Designee) 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 S-/7, 20 6 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. Inspector S-/7-206 Commissions CA 1828 - NB 9990 A.N.I.C Kenny D. Kim (Title) (Date) (State or Province, National Board) Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 4 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this	9. Remarks					· · · · · · · · · · · · · · · · · · ·						•				
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I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by HSB-CT of Hartford, CT have inspected the Replacement described in this Report on S-/7, 20 O6 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. 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	-				2		*			8/	16/	06				
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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	,,/			•	,	()										
	through 4 on															

1. O	wner		Gas and El			400						Date _	June	30, 2006
					ncisco, CA 94	106					s	heet _	2	_ of _
2. Pl	lant		Canyon Pov									Unit _		2
	•	P.O. Bo	x 56, Aviia	Beacr	n, CA 93424									
3. W	Jork Pe	erformed l	by _		Owner									
			-		See Above					I	Repair Org.	P.O. No.	., Job No., (etc.
4. Id	lentific	ation of S	ystem _		Safety	Injection	System (09)							
5. (a	ı) Appl	icable Co	nstruction C	Code	See Work C	rder 19	Edition	1	Adde	nda, Co	de Cases	•	N/A	
(b	o) Appl	licable Ed	lition of Sec	tion X	I Utilized for F	Lepairs or	Replacements		1989,	No	Addenda	Code	Case	N-416
5. Id	lentific	ation of c	omponents	Repair	red or Replaced	l, and Rep	lacement Con	ponents.						
	Name Compo		Name o Manufacti		Manufacturer Scrial No.	National Board No.	Work Order No.	Other Identifics Line N	tion	Year Built	Repair Replace Replace	d, or	Pressure Test	ASME Code Stampe (Yes or N
S	SI-2-89	49A	Velan Va		NF	N/A	C0202936	Line-2		1985	Replaced (⊠(b)	No
	SI-2-89		Velan Va		NF	N/A	C0202936	Line-2		1985	Replaced (⊠ (b)	No
S	SI-2-89	49B	Velan Va	lve	NFNF	N/A	C0203125	Line-2	36	1985	Replaced (4)	⊠(b)	No
			-											-
				_										
		· ·										-		
<u> </u>								<u>-</u>						
-														-
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			·—·			-								
												•		
]								
'. Re	emarks	(3) F	Replaced Bo	nnet I	Bolting, (4) Rep	laced Inte	rnals							
		_												

<i>:</i>														
1. Owner	Pacific	Gas and Elect	ric Company						Date	June	30, 2006			
	77 Bea	le Street, San I	rancisco, CA 941	106					Sheet	1	of <u>1</u>			
2. Plant		Canyon Power							Unit	-	2			
	P.O. Bo	ox 56, Avila Be	ach, CA 93424											
3. Work Pe	rformed b	у	Owner					<u> </u>	<u> </u>					
		_	See Abov	<u>'e </u>			1	Repair Org. P.	.O. No.,	Job No	., etc.			
4. Identifica	ation of S	ystem	Sa	afety Injectio	on System (09)		_							
5. (a) Appli	icable Cor	nstruction Code	(See Work O	rder) 19	Edition	Addenda, O	Code Cas	es			N/A			
			XI Utilized for Re		lacements -	1989, No	Addend	la, Code Ca	se —	١	I-416-1			
6. Identifica	ation of co	omponents Rep	aired or Replaced,	and Replace	ment Componer	nts.								
						T			Ī					
Name o Compon		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, Replaceme	or	Pressure Test	ASME Code Stamped (Yes or No)			
414-83		PG&E	N/A	N/A	C0199281	Line-7077	N/A				No			
24-41	41R PG&E N/A N/A C0199282 Line-4296 N/A Replaced (2) No													
326-32	8R	PG&E	N/A	N/A	C0199794	Line-3855	N/A	Replaced (1)	<u> </u>	No			
										旹				
7. Descripti8. Tests CorPressure9. Remarks	nducted:	Hydrostatio	Installed New Supp	matic	Nominal Op	erating Pressure Conducted IAW C		- —	Oth	er				
									_					
of the ASMI	E Code. S		n this report are co	rrect and this	E OF COMPLES Re	placement Engineering I (Title)	Manager	rms to Sect	ion XI	/6 (Date	106			
and the State		nce of	mmission issued by California, emplespected the				SB-CT		, 20	<u> 8</u> E	of			
and state tha ASME Code repair or rep	t to the bee. By sign lacement ary or pro	est of my knowl hing this certific described in thi perty damage of	edge and belief, th ate, neither the Ins s Report. Furthern r loss of any kind a Inspec	is repair or repector nor himore, neither rising from cotor	eplacement has is employer mal the Inspector n	been constructed kes any warranty, or his employer s th this inspection	in accordexpresses thall be limited.	dance with ed or implie able in any CA 1828 -	Section d, cond manne NB 999	XI cerning for a contract of the contract of t	of the g the any			
		heets in the for	(Titlem of lists, sketches led on each sheet, a	, or drawing		rovided (1) size i	s 8 1/2 x		nforma	ition i	n items 1			

1. Owner		Gas and Elect	tric Company Francisco, CA 941	106					ate Ju	ne 30, 2006 of 2				
2. Plant	-	Canyon Power		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·	Jnit					
2. 114111			ach, CA 93424											
3. Work Per	rformed	by	Owner											
		_	See Abov	'e				Repair Org. P.O.	No., Job ì	No., etc.				
4. Identifica	ation of S	System	Resid	ual Heat Re	moval System	(10)	-							
		nstruction Code	(See Work O		Edition _	Addenda, (1989, No		es a, Code Case	c	N/A N-416-1				
			aired or Replaced,	-		<u> </u>	Addella	a, Code Case		14-410-1				
Name o Compone	-	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-2-87		Flowserve	AY777	N/A	C0194616	Line-119	N/A	Replaced (1)	Ø	Yes				
	RHR-2-990 Flowserve AY777 N/A C0194616 Line-119 N/A Replaced (1) ☑ Yes													
	9-119 PG&E N/A N/A C0194616 Line-119 N/A Replaced (2) No													
RHR PP S	Браге — — — — — — — — — — — — — — — — — — —	Rand	037050	N/A	C0193993	RHRP1	N/A	Replaced (3)		No				
RHR PP S	Spare	Ingersoll - Rand	037050	N/A	C0193993	RHRP1	N/A	Replaced (4)		No				
7. Description	on of Wo		Replaced Valve, (2 Replaced Gland Pl		Piping, (3) Mod	ified Suffing Box	Extension	on Plate						
8. Tests Cor Pressure	nducted: 515	Hydrostati		matic 🔲	-	erating Pressure Conducted IAW C		empt	Other					
9. Remarks		See Section J	for Manufacturer's	Data Repor	ts									
of the ASME	E Code.	Signed	in this report are co	rrect and thi	E OF COMPL s Re	placement Engineering l	Manager	rms to Section	XI 8/16	/oc				
(C	Owner or O	wner's Designee)	~ 17	XVestcott CRTIFICAT	E OF INSPEC	(Title)) (D/a	ite)				
and the State	_	ince of	mmission issued by California, empl		al Board of Boi	ler and Pressure V	SB-CT	····	20 06	of				
and state that ASME Code repair or repl personal inju	t to the be By sign lacement ry or pro	est of my knowledge of the certific described in the operty damage of the certific damage o	ledge and belief, the cate, neither the Ins is Report. Furthern r loss of any kind a	is repair or r pector nor h nore, neither rising from o ctor	eplacement has is employer ma the Inspector nor connected wi 8-/7	been constructed kes any warranty, for his employer s ith this inspection —2004 Com	in accord expresses hall be li missions	dance with Seed or implied, able in any m	ction XI concern anner for	ing the rany				
Note: Supple		sheets in the for	(Titl m of lists, sketches led on each sheet, a	, or drawing		provided (1) size i	s 8 1/2 x		ormation	in items 1				

1. Owner Pacific			406					Date _		30, 20	_
	e Street, San Fra		106					Sheet _		of of	_2
	Canyon Power P							Unit _		2	
	x 56, Avila Beac	<u> </u>									
3. Work Performed		Owner			 -	D	engir Org	P.O. No., J	oh No	etc.	
		See Above	<u> </u>			IV.	cpan Oig.	1.0. 110., 3		cic.	
4. Identification of S	System	Residual H	eat Remo	val System (10)						
5. (a) Applicable Co	nstruction Code	See Work C	order 19	Edition	n Add	lenda, Co	de Case	s	N/	'A	
(b) Applicable Ed								la, Code		N-4	16-1
5. Identification of c	omponents Repa	ired or Replaced	l, and Rep	lacement Con	nponents.						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repl	paired aced, or acement	Pressure Test	ASN Coo Stam (Yes o	de ped
RHR PP 2-1	Ingersoll - Rand	69F46532- 2S-70	N/A	C0201499	RHRP1	1985	Replace	d (4)		No)
RHR PP 2-1 Spare	Ingersoll - Rand	Spare	N/A	C0203575	RHRP1	1985	Replace	d (3)		No	<u> </u>
RHR-2-RV-8707	N72387-00						No	,			
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									18		
7. Remarks (3) N	Modified Stuffing	Box Extenstion	n Flange, (4) Replaced S	tuffing Box Ex	tension, (5) Repla	iced Valv			

						•				
1. Owner		Gas and Elec				· - · · - · · - · · · · · · · · · · · ·				30, 2006
	77 Bea	le Street, San	Francisco, CA 94	106				Shee	t <u>1</u>	of <u>1</u>
2. Plant		Canyon Powe						Un	it	2
		· · · · · · · · · · · · · · · · · · ·	each, CA 93424							
3. Work Pe	rformed	by	Owner					Repair Org. P.O. N	o Joh No	eta
		_	See Abov	re				rcpail Oig. 1.0. IV	o., 300 IV	., 0.0.
4. Identifica	ation of S	System	R	esidual Hea	t Removal (10)		_	•		
5 (a) Annli	iaabla Ca	enstruction Code	e (See Work O	rder) 19	Edition	Addenda, C	rode Cos	90		N/A
			XI Utilized for Re					a, Code Case		I-416-1
` '			paired or Replaced,	-				•		
			1	<u> </u>	<u> </u>	1	T T	 		I
Name o Compon		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)
77-218	SL	Pacific Scientific	6871	N/A	C0204057		N/A	Replaced (1)		No
			<u> </u>							
7. Descripti	ion of Wo	ork (1)	Modify Clevis for	Snubber						l
7. Descripti	ion or we	<u>(1)</u>	Woding Cievis 101	<u> </u>						
8. Tests Con	nducted:	Hydrostati	c Pneu	matic \square	Nominal Or	erating Pressure	☐ Exc	empt [] (Other	
Pressure		•	est Temp.		_	Conducted IAW C		• —	-	
9. Remarks										
We cortify th	hat the st	otamanto moda	CE in this report are eq		E OF COMPL	IANCE placement	comfo	rms to Section 2	ZT.	
of the ASMI			in this report are co) I pect and the	- Itt	Engineering N	_		16/0	, ()
		wner's Designee)	Susan	Westcott	T OF MICHIG	(Title)		./	(Date	e)
I, the unders	igned, ho	olding a valid co	ommission issued b		E OF INSPECT AND ADDRESS TO SERVING THE SERVING TO SERVING THE SERVING TO SERVING THE SERVING TO SERVING THE SERVING		essel In	spectors		
and the State	or Prov	ince of	California, empl	oyed by		H	SB-CT	-		of
	ord, CT		rispected the Filedge and belief, the	Replacement		l in this Report on		, 20		<u>.</u>
			cate, neither the Ins							
repair or rep	lacement	described in th	is Report. Furthern	nore, neither	the Inspector n	or his employer s	hall be li			
personal inti	ury or pro	operty damage of	or loss of any kind a		-	_		CA 1828 - NB 9	9990 A.I	N.I.C
	Kenny I). Kim	(Titl	e)	(Date)	(State or 1	Province, Nation	al Board)
			rm of lists, sketches ded on each sheet, a							
form.	i iiiis uala	report is more		(J) Cacil				is recorded a	. ше юр	or mis

1. Owner		Gas and Elec				 = · ·				June	30, 2006		
•			Francisco, CA 9410	06					heet	_1	of _1		
2. Plant		Canyon Powe	r Plant each, CA 93424						Unit	•	2		
		· · · · · · · · · · · · · · · · · · ·				<u> </u>							
3. Work Pe	rtormed		Owner See Above				-	Repair Org. P.0). No	Job No	etc.		
									,		.,		
4. Identifica	ation of S	System —	Compone	ent Cooling	g Water Systen	n (14)	_						
,,		enstruction Code	(See Work Ord		Edition _	Addenda, (<u>.</u>		N/A I-416-1		
` ,			•	-			Addend	la, Code Cas	E		1-410-1		
6. Identifica	ation of c	omponents Rep	paired or Replaced, as	nd Replace	ment Componer	nts. 	····						
Name o Compon		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Repaired Replaced, o Replacemen		Pressure Test	ASME Code Stamped (Yes or No)		
CCW-2-R	V-52	Lonergan,	NY8802100-9-1	N/A	R0223091	Line-3292	2006	Replaced (1)		Yes		
	J.E. N18802100-9-1 N/A R0223091 Line-3292 2000 Replaced (1)												
								-					
									-				
7. Description 8. Tests Corpressure		Hydrostati	Replaced Valve c Pneum est Temp.		•	erating Pressure		empt	Oth				
9. Remarks							•						
of the ASME	E Code.		CER in this report are corr	rect and this	E OF COMPL s Re	IANCE placement Engineering N	Manager	rms to Section	on XI	()210	56		
			CEF	RTIFICAT	E OF INSPEC	TION				(Date			
and the State		ince of	ommission issued by California, employ espected the Re				SB-CT		20	06	of		
and state that ASME Code repair or rep	t to the be. By sig	ning this certific described in th	ledge and belief, this cate, neither the Inspo is Report. Furthermor or loss of any kind ari Inspecto	ector nor hi ore, neither ising from o	eplacement has is employer mal the Inspector n or connected wi	been constructed kes any warranty, or his employer si	in accord expresse hall be li	dance with Sed or implied able in any r	ection , cond nanne	ernin r for a	g the iny		
		sheets in the for	(Title) m of lists, sketches, ded on each sheet, an	or drawings		rovided (1) size is	8 1/2 x		forma	ition i	n items 1		

	Gas and Elect	ric Company Francisco, CA 941	106				Dat Shee		of 1
	Canyon Power		<u> </u>	· ··			Uni		2
P.O. Bo	x 56, Avila Be	ach, CA 93424							
3. Work Performed b	у	Owner					-		
·		See Abov	<u>'e</u>		· ·	1	Repair Org. P.O. No	o., Job No	., etc.
4. Identification of Sy	/stem	Compo	nent Cooling	g Water Systen	n (14)	_			
5. (a) Applicable Con				Edition _	Addenda, C		-		N/A
(b) Applicable Edi				,	1989, No	Addend	la, Code Case		I-416-1
6. Identification of co	mponents Rep	aired or Replaced,	and Replace	ment Componer	nts.	_			
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)		No
				<u> </u>					
						 		旹	<u> </u>
7. Description of Wor	rk (1)	Modified Support							
8. Tests Conducted:	Hydrostatio			-	erating Pressure		. —	ther _	
Pressure	PSIG T	est Temp.	°F 🗌	Pressure Test C	Conducted IAW C	ode Case	e N-416-1		
9. Remarks			<u> </u>						
· · · · · · · · · · · · · · · · · · ·									
		CE)	DTITIOAT	C OF COMPL	YANGE				
We certify that the stat	tements made i			E OF COMPLE s Re	placement	comfo	rms to Section 2	α,	,
of the ASME Code. S					Engineering N		8	1161	06
(Owner or Ow	mer's Designee)		Dyestcott CRTIFICAT	E OF INSPEC	(Title)		•	(Date	e)
I, the undersigned, hol	-	mmission issued by	y the Nation		ler and Pressure V		spectors		
and the State or Provin	-		oyed by Replacement	dagaribad		SB-CT	-/-7 20	06	_ of
Hartford, CT and state that to the be		•			l in this Report or been constructed				of the
ASME Code. By sign	ing this certific	ate, neither the Ins	pector nor h	is employer mal	kes any warranty,	expresse	ed or implied, co	ncernir	g the
repair or replacement of personal injury or prop							able in any man	ner for	any
personal injury of prop	Total Contract of the second	Inspec	_	8-17-3			CA 1828 - NB 9	990 A .1	N.I.C
Kenny D.		(Titl	•	(Date)			Province, Nation		
Note: Supplemental sl through 4 on this data									
form.								·P	

1. Owner		Gas and Elec	tric Company Francisco, CA 94°	106		 -		Dar		of 1				
2. Plant	Diablo	Canyon Powe	r Plant					Un	 it	2				
			each, CA 93424											
3. Work Pe	rformed	by	Owner											
			See Abov	/e			1	Repair Org. P.O. N	o., Job No	o., etc.				
4. Identifica	ation of S	System	С	ontainment	Structure (45)		_							
		onstruction Code	e <u>(See Work O</u> 1 XI Utilized for Re		Edition	Addenda, (es la, Code Case		N/A N-416-1				
.,			paired or Replaced,				Addend	a, Code Case		4-410-1				
Name o Compon		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		PG&E	N/A	N/A	C0192964	Line-3937	N/A	Replaced (1)	Ø	No				
	Penetration 83A PG&E N/A N/A C0192965 Line-3936 N/A Replaced (1) No													
Penetration		PG&E	N/A	N/A	C0192966	Line-3937	N/A	Replaced (1)		No				
Penetration	n 83A	PG&E	N/A	N/A	C0192967	Line-3936	N/A	Replaced (1)		No				
7. Descripti8. Tests CorPressure9. Remarks	nducted:	Hydrostati PSIG T	Isolated system from the property of the prope	matic [Nominal Op Pressure Test C	perating Pressure Conducted IAW C		· —	Other _	LLRT				
of the ASMI	E Code. Owner or O	Signed owner's Designee)	in this report are co	westoon CRTIFICAT	TE OF INSPEC	eplacement Engineering N (Title)	Manager	rms to Section 2	XI //// (Dat	(06 e)				
and the State	or Prov	ince of		oyed by		Н	SB-CT		- A /	_ of				
	ord, CT		rispected the Friedge and belief, the	Replacement		d in this Report on				the				
ASME Code repair or rep	e. By sig lacement	ning this certificed in the	cate, neither the Ins is Report. Furthern or loss of any kind a	pector nor h nore, neither rising from	is employer ma the Inspector n	kes any warranty, for his employer s ith this inspection -2006 Com	expresse hall be li missions	ed or implied, co able in any man CA 1828 - NB	oncernir iner for 9990 A.I	ng the any				
		sheets in the for	(Titlerm of lists, sketches ded on each sheet, a	, or drawing		provided (1) size i	s 8 1/2 x		mation	in items 1				

1. Owner	Pacific	: Gas and Elect	ric Company					Г	ate Ju	ne 30, 2006				
	77 Bea	le Street, San I	Francisco, CA 94°	106				Sł	eet 1	of 1				
2. Plant		Canyon Power						τ	Init	2				
	P.O. B	ox 56, Avila Be	ach, CA 93424											
3. Work Per	rformed	by _	Owner			 								
		_	See Abov	/e]	Repair Org. P.O.	No., J ob 1	No., etc.				
4. Identifica	ation of S	System —	Inco	re Flux Map	ping System (4	18)	_							
		enstruction Code	(See Work O		Edition	Addenda, (es la, Code Case		N/A N-416-1				
.,			aired or Replaced,	-			Addend	ia, Code Case		14-410-1				
U. Identifica	ition of c	omponents Rep	aned of Replaced,	T Teplace	r Componer	115.								
Name o Compone		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 .		Westinghouse	NF	N/A	C0203983	U2 - RVST	N/A	Replaced (1)	⊠	No				
	Thimbles B-13 Westinghouse NF N/A C0203983 U2 - RVST N/A Replaced (1) No													
Thimbles	L-13	Westinghouse	NF	N/A	C0203983	U2 - RVST	N/A	Replaced (1)		No				
				<u> </u>						 				
7. Description	on of Wo	ork (1)	Shorten Incore Flu	x Thimbles										
8. Tests Cor		Hydrostation Telephone	c Pneus		-	erating Pressure Conducted IAW C		empt [Other					
	2235	FSIG I	est Temp. NA	, r 🖂	riessuie iesi C	conducted IAW C	oue Case	3 IN-410-1						
9. Remarks														
-														
of the ASME	E Code.	Signed	in this report are co	rrect and this	E OF COMPLE Re	placement Engineering l	Manager	rms to Section	XI, 3/16/	106				
(0	Owner or O	wner's Designee)	•	Westcott	E OF INSPEC	(Title)	1		(D	ate)				
and the State		ince of	mmission issued b California, empl		al Board of Boi	ler and Pressure \	SB-CT	-	20 0	of				
and state that ASME Code	t to the b . By sig	est of my know ning this certific	ledge and belief, the cate, neither the Ins	is repair or r	eplacement has is employer mal	been constructed kes any warranty,	in accor	dance with Se	ction X	of the				
			is Report. Furthern r loss of any kind a					able in any m	anner fo	r any				
personal viju	y or pro	Series delinage of	Inspec	-		2006 Com	missions	CA 1828 - N						
		sheets in the for	(Titl m of lists, sketches led on each sheet, a	, or drawing		rovided (1) size i	s 8 1/2 x		ormatio	n in items 1				

1. Owner		Gas and Elec								June	30, 2006				
			Francisco, CA 94°	106			<u>-</u>		Sheet	1	of <u>2</u>				
2. Plant		Canyon Powe	r Plant ach, CA 93424						Unit		2				
4 W 1 D		`	· · · · · · · · · · · · · · · · · · ·												
3. Work Pe	riormea		Owner See Abov	/e				Repair Org. P	O. No.,	Job No	., etc.				
4. Identifica	ation of S	System		·-	e Stock (85)		_								
		nstruction Code	See Work O		Edition _	Addenda, (1989, No		ses la, Code Ca	se		N/A I-416-1				
6. Identifica	ation of c	omponents Rep	aired or Replaced,	and Replace	ment Componer	nts.									
Name o Compone		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Replaced,	or	Pressure Test	ASME Code Stamped (Yes or No)				
MS-2-RV	7-59	Dresser Ind Valve													
SI-2-890	00A		Replaced ((2)		No									
SI-2-890	00C		Unknown	N/A	C0201786	SC 95-2429	N/A	Replaced ((2)		No				
MSSV S	pare	Dresser	NF	N/A	C0202171	SC 93-7965	N/A	Replaced ((1)		No				
7. Description	on of Wo	ork (1)	Replaced Disk and	Returned to	Stock, (2) Weld	ded Pipe to Valve	and Ret	urned to Sto	ock						
8. Tests Cor Pressure 9. Remarks	nducted:	Hydrostati PSIG T	c Pneum		_	erating Pressure Conducted IAW C		empt e N-416-1] Oth	er _					
of the ASME	E Code.		in this report are co	rfect and this Westcott		placement Engineering I (Title)	Manager	orms to Sect	tion XI	/16 _/	164				
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 S-/7, 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 repair or repl	. By signal	ning this certific described in th	ledge and belief, the cate, neither the Ins is Report. Furthern r loss of any kind a Inspec	pector nor hi nore, neither rising from o	is employer mal the Inspector n or connected wi	kes any warranty, or his employer s	expresso hall be li	ed or implicable in any	ed, cond manne	ernin r for a	g the any				
Note: Supple		sheets in the for	(Titl m of lists, sketches led on each sheet, a	, or drawing		rovided (1) size i	s 8 1/2 x		informa	ition i	n items 1				

1. Owner				Company ncisco, CA 94	106					Date Sheet		30, 200	
2. Plant	Diablo (Canyon Po	ver P	lant					·	Unit _			
	P.O. Bo	x 56, Avila	Beacl	h, CA 93424									
3. Work Po	erformed l	by _		Owner									
		-		See Above				Re	pair Org	. P.O. No., J	ob No.,	etc.	
4. Identific	ation of S	ystem -		War	ehouse S	tock (85)	· · · · · · · · · · · · · · · · · · ·						
5. (a) Appl	licable Co licable Ed	nstruction (Code	See Work C	epairs or	Edition	Adde	enda, Co No	de Cas Adden	es da, Code (N/Case	A N-41	6-1
				red or Replaced									
Name . Compos		Name o Manufacti		Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Rep	epaired blaced, or lacement	Pressure Test	ASN Cod Stam (Yes or	le ped
MS-2-FC	CV-44	Schutte a Koertin		NF	N/A	C0194677	SC 95-5443	N/A	Rep	olaced (4)		No	,
MS-1-FC	CV-44	Schutte a Koertin	nd	NF	N/A	C0202623	SC 95-7625	N/A	Rep	placed (3)		No)
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7. Remarks	(3) 1	Refurbished	Disk	and Tail Assen	ibly and R	Leturned To Si	ock,						
(4) Replace	d Anti-Ro	tation Pin a	nd Re	turned to Stock						**			
							-				· ·- · · ·		

SECTION J

MANUFACTURERS' DATA REPORTS FOR NUCLEAR/PRESSURE VESSELS

PG&E

DIABLO CANYON POWER PLANT - UNIT 2

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

MAJOR ITEM:
MANUFACTURER DATA REPORTS

ASME SECTION XI - NIS-2 Attachments

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>	Qty.	Description	Part Number
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.

NAME

. /

DATE

LE · 2

Section J Page-2 of 19

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

Pa. 1 of 2

***									. 9. /	
۱.	Manufacti	ired and o	ertified by Flowser	ve Corpoi	ration, 1900 S. Saune (Name and Address of N Certi	ders Street,	Raleigh, NC	27603		_
2.	Manufactu	red for _	Pacific Gas & Elec	tric. Co., 1	P. O. Box 7760, San	Francisco,	CA 94120			
3.	Location o	of Installati	ion Pacific Gas &)	Electric. C	(Name and Address of Pu o., Diablo Canyon N	luclear Plan	t, P. O. Box 50	5, Avila B	each, CA 93424	
4.	Model No.	., Series N	lo., or Type900# :	Swing Che	(Name and Address)	•	22515	Rev -	B CRN	_
5.	ASME Co	de, Secti	on III, Division 1:	1989		No	2	_		
	•			(edition)	•	nda date)	(class)		· (Code Case no.)	_
6.	Pump or V	/alve	Valve		Nominal Inlet Size	3"	Out	llet Size		•
_						(inch)			(inch)	
7.	Material:	Body	SA216, WCB	Bonnet	SA515, Gr. 70	Disk —	SA105	Bolting —	SA193, B7	_
	(a)		(b)		(c)		(d)		(e)	
	Cert.		Nat'I		Body		Bonnet		· = Disk	
	Holder	S	Board		Serial		Serial		Serial	
	Serial N	0	No.		No.		No.		No.	
	AV870	5	N/A		03225-T1170		C3405-1		20450-1-4	
	AV87	7	N/A		03225-T1171		C3405-2		20450-1-5	_
	AV878	3	N/A		03225-T1172		C3405-3		20450-1-6	
	AV879)	N/A		03225-T1173		C3405-4		20450-1-7	_
	AV880)	N/A		03225-T1174		C3405-5		20450-1-8	
										_
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^{*}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, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

Certificate Holder's Serial No. AV876-AV880

8.	Design conditions		2220	psi	- 100	100	· °,	or valve pres	sure class	<u>.</u>	900
9.	Cold working pressure	_	(pressure) 2220		psi at 100			•			
10.	Hydrostatic test	3400	psi.	Disk Differ	rential test	pressure	230	0 psi.			••
11. <u>Co</u>	Remarks: Nuclea		check valve. G 2; Cover Nuts –								
	· · · · · · · · · · · · · · · · · · ·				 				S. O. 25	475	<u> </u>
			(CERTIFIC	CATION	OF DESI	GN				
Desi	gn specification certified	by	Kersi J. I	Dalal	P	.E. State	CA	Reg. no.		M-16	690
Desi	gn Report certified by		Ronald S. I	Farrell	F	.E. State	NC	Reg. no.		0286	56
		-								•	
conf Corr	certify that the state forms to the rules of components. Section III, ertificate of Authorization	onstructio Div. 1.	n of the ASME		or Nuclea		Plant	φires	Nov	26 200	,c
,,, 0,		-		11-130.				·,	NOV.	26, 200	<u> </u>
Date	1/16/04 Name		serve Corporati erlificale Holder)	ion Sign	ed	2),[(Au	thorized Repre	sentative)			
	• .							•		•	
		·	CE	RTIFICA	TE OF	NSPECT	ION				
Northave	undersigned, holding a th Carolina and emp inspected the pump, or the Certificate Holder I	loyed by _valve, de	escribed in this Da	HS ta Report o	BBCT	116	104.	and state that,	of <u>Harti</u> to the best	ford Co	or Province of onnecticut nowledge and
this i	gning this certificate, ne Data Report. Furthermo of any kind arising from a IIIGIOY	re, neither	r the Inspector nor	his employ							
Signe	o AIN	(Inspector)	ulf	Comm	nissions	NC142	(Nal'i Bd.,	State, Prov. and No	o.) ·		·

Section-J Page -4 of 19

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: ASPE Section III 1980 Edition, Summer	1982 /	Addenda, Class 1
This is to certify that the items on the above order has and prepared for shipment in accordance with the purchase		
Assurance Program and PG&E Specification No. 8179 requirements to continue that all testing improvious NVV as		in the second of the second

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.

ingele i mengeling traksitang padilah ililikan sing dan balah berhalik pada bilah balah dan period dapan propilat bilah

INCHOR/DARLING VALVE COMPANY

Q. A. Engineer

C.

Section J Page - 5 of 19

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I. Ingradiacean action co	4 12 2 14 15	expensed the first of		AN COMMENTAL PROPERTY.	Madan kwala wa	
2 Manufacturities of	Pacific Gas	& Electric	Co P.O.	Box 7760. San	Francisco.	CA 94120-7760
ST MAKE	850E2 #1045840		and addition of A	steer or Owner!	conditions 2	noiseO (8
3. Location of installation	n Diablo Ca	nyon Power	Plant. 9	fles N. W. of	vila Beach	CA 93424
10 gar	1.00 m	The state of the s	Table En	CONTRACTOR OF THE PARTY OF THE	rking proseule:	Ow blook 10. Cold wo
4. Model No., Series No.	., or Type and file	Draw	nng 1892303	5 NovA	CRN	
The second special and an appropriate and an appropriate and a	man and an age among property of the		ternaphicate are	2 (4) L	1.00	steorby 11
5. ASME Code, Section	III, Division 1: _	1980	_ Simer_1			A
a de la companya de l	anguli disabah di di sasa ang s	(edition)	(addenda de	iel (cless)	(Code Ci	igo na.)
6. Pump or valveYA	IVE N	lominal inlet stee	ne se 200 desaures	Outlet size	- 2"	
PELIS CA	351-CF8MA3	الأستنش	•	A747-GB7-CU1-	N/A	
7. Meterial: Body	60	lonnet		onald 0011H ar	Belting	0
A strangenium and a	Philips of the second s		16	92.	we bestance me	gaff noiseQ
(a) Cert.	(b) Nat'l		Body .	Bonnet	Disk	THE STATE OF THE SECOND
Holder's		·	Seriel	Serial	Series .	
Serial No.	No.	9 790m, 480#/11	North 20 31 42	· · · · · · · · · · · · · · · · · · ·	No.	PERSONAL STATE OF STA
EB018-3-1	N/A		3529	an/Asea	· Melia vit	NAME OF THE PARTY
EB018-3-1-	erio: #Y#1900 te		3538 (42) (42)		AND SERESTORIES	300
EB018-3-3			3537			MEA edifo
FR018-3-4	N/A)		3534			V. Caruffcay
EB018-3-6	· ANN III		3532	N/A	AVA IAA	EW-SE
EB018-3-7-	N/A		3535	THE TAX DESCRIPTION OF THE PARTY OF THE PART	NOTE VILLA NA	Deta
EB018-3-8	1/1		3528	1/A	N/A	\$2500 July 1
EB018-3-9	N/A		3531	N/A	N/A	
						AN ALBERT
The second secon	r Sisk Philipson, or compression and commerce of	<u> </u>				7/4 PC 0 Styr 1
		P. 044616	900HL 4G 374.4	ALL HARD	<u> </u>	<u> </u>
rindananii mara	WEIGHT THE THE	Service or market services	SUSTEEL BAS 18 1 .	to make the make a Markey		
Service Servic	- 2 Disapo			velic communion is		· ·
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This form (£00037) may be obtained from the Order Dept., ASME, 22 Lew Drive, Box 2300, Feirfield, NJ 07007-2300.

Section 5 Page 6 of 19

^{*}Supplemental information in form of liets, attaches, or drawings may be used provided (1) size is 8 % × 11. (2) information in form of liets, attaches, or drawings may be used provided (1) size is 8 % × 11. (2) information in form.

FORM NEV-1 CERTIFICATE HOLDERS: DATE ALEGANIZED NUCLEAR PUMPS OR VALVES! As Required by the Provisions of the ASME Code: Section III. Division: 1

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Section J ** Page 7 of 19

Anchor/Darling

Valve Company

TO PARET STREET P-O-BOM ROM WILLIALISMONT, PA. 17701-4430

CENTERCATE OF COMPLIANCE

CUSTOMER:	Pocific Gos & Flectric Company	P.O:	055273. C/Q J	Constant mantaness and heady year
LOCATION:	Diobio Convon Power Plant	_A/DV ITEM:	EDIA-1-1 mov-1-6	Druggerfrer faterfall en er van men gegete a
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Customer P	P.O. ITEM NO.: <u>01</u>	·		
PG&E COVE	: <u>94-3773</u>			

This is to centry that the Items on the above order have been manufactured, tested and prepared for shipment in occordance with the purchase order, A/DV's Quality Assurance Program and PGAE Specification No. 8179 Rev. 1 regularments.

This is to certify that all testing, inspection, NOT and welding performed on this contract have been conducted in accordance with the requirements of the applicable Contract, Code and appealmentation. This is to further certify that all required tests, inspections, NOT and welcling requirements have been performed by qualified personnel, using approved procedures and approved certified material.

This also contines that the materials and design of the terms above are equal to or better than the charnosy supposed forms.

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

NCHOR/DARURIG VALVE COMPANY

Section J

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Date: 159

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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: <u>Diablo Canyon Power Plant</u> S.O. ITEM: <u>E-644A-1</u>
ب	APPLICABLE CODE: ASME Section III 1989 Edition, No Addenda, Class 2
·····	VALVE SERIAL NUMBERS: <u>E-644A-1-1 and -1-2</u>
\Box	
-3 -	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 datc. 1/4/99, Specification 8179 Rev. 2N and other contract correspondence.
1 1 1	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 Ondewslage

D. A. Loudenslager Q. A. Engineer

Date: 6-29-99

Section J Page 11 of 19

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



Flowserve Corporation

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 SE	RIAL NO.: <u>E-644A-1-1 and -1-</u>
P.O. NO.:	097140	PROJECT: _	Diablo Canyon Power Plant
This is to certif	y that the above valve has been cleane	d, coated and pa	ckaged in accordance with the
 specification re ⇔	quirements and was performed utilizing	ig the following	procedures.
Cleaning - ME Painting - ME Packaging - M	5-49.5 R/A (Operator and C.S. parts)		
		FLOWSERVI Flow Control	E CORPORATION Division
**	•	D. Lou	denslager
,		D. A. Loudens Q. A. Enginee	slager
Date: 6-29	-99		

Section - J Page 12 05 19



FORM IN V.) CHITTECATE HOLDERS DATA REPORT FOR RUCKEAN PLANS OF VALVES! AS REMARKS IVAN TO VALUE OF SERVICE COLD. S CORD. M. DANSON I.

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	Flows	erve Corp.	limmanaut ma	7701	
1. Manufactured and	1 certified by	rirst Street, Wil	Addres of N Carplicate Ho		
0 AA	Pacific Gas &	Electric Co., P.C	. Box 7760, San	Francia	всо, СА 94120
		Ineme and address	e of Purchaser or Owner)		
3. Location of install	ation Diablo Canyo	on Power Plant, 9	Miles NW of Av	lla Bea	ch, Avila Beach
		(nia	me and address!		make the following the second
4. Model No., Series	No., or Type Y-G10	Drawing W982	5186 Rev		CRNN/A
		1989 -	2		N/A
5. ASME Code, Sect		(adition) (adder	vda datel (class)	(Code Casé no.)
6. Pump or valve	Valve Non	ninel inlet size	Outlet size	3"	=
· •		(in.)		(in.)	
7. Material: Body	A351-CF8M Bor	Met 5A47,9-316	Disk SA479-S34700	. Bolting .	N/A
	•				.,
(a)	(b)	(c)	(d)		(e)
Cert.	Nat'i	Body	Bonnet		Disk
Holder's Serial No.	Boerd	Serial	Serial		Serial
्राज्ञा स्वसंस्था । स	No.	No.	No.		No.
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E-644A-1-2	N/A	<u> </u>			
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This form (E00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

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^{*}Susplamental information in form of lists, shatches, or drawings may be used provided (1) size is 8 % × 11, (2) information in Itims 1 through 4 on this Data Report is included an each sheet, (2) each sheet is numbered and the number of sheets is recorded at the top of this form,

COMMITTEE STATE

					
9. Design conditions 2735	pei 579 (temperature)	°F or vel	ve pressure	class	816
O. Cold working pressure 4358	psi at 100°F				
1. Hydrostatic test6550 psi. (Disk differential test p	ressure	4794		
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Design Specification certified byKersi Design Report certified byTheron_C. I	Bartlett II	P.E. State	PA	_ Reg. no.	PE-039036
We certify that the statements made in this rep	oort are correct and the	nt this pump or val	ve conforms	to the rules	for construction
of the ASME Code, Section III, Division 1. N Certificate of Authorization No	N1712	nt this pump or val	e conforms Expires	to the rules 4/15/0	
of the ASME Code, Section III, Division 1. N Certificate of Authorization No	N1712	t this pump or val	_		
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(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

CUSTOME	ER:	PACIFIC GAS & ELECTRIC COMPA	NY DATE: <u>01/23/2006</u>
CUSTOME	ER P.O. N	IO.: 125492	_ SALES ORDER NO.: 35306
EQUIPME	NT:	8"-600# Tilting Disc Check Valve with l DWG: W9023267 Rev. C	Inspection Port Valve
SO ITEM	<u>QTY</u>	DESCRIPTION	FLOWSERVE PART NUMBER
001	1 .	8"-600# Tilting Disc Check Valve PG&E CODE: 95 7402 P.O. LINE: 01	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

Section J. Page 15 of 19

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES*

'As Required by	the Provisions of the ASME Code, Section III, D	lv. 1
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1.	Manufactured by	Flowserve Co	propration, 1	900 S. Sal	inders St., Ra	leigh, NC 27603		
2.	Manufactured for Pacific C	Gas and Electr	ic PO Box 7760	San Fran	cisco, CA 94120	-7760	•	
3.	Location of Installation Diab	lo Canyon Po	wer Plant 800 P		chaser or Owner) on Rd. Pismo B	each, CA 93449		
4.	Pump of Valve Valve Nominal Inlet Size				8"	Outlet Size		8"
	(a) Model No. (l Series No. or Type	b) N Certificate Holder's Serial No.	(c) Canadian Registration No.	(d	(inch)) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year Built
	(1) 600#	AY777	N/A	W902	3267 Rev. C	2	N/A	2006
•	(2)							
	(3)							
	(4)							
	(5)							
	(6)					· .		
	(7)			-:				
	(9)							
	(10)						<u>·</u>	
	· · · · · · · · · · · · · · · · · · ·							
5.	8"-600# Tilting Disc Che	ck Valve with	Inspection Port	t Valve	•	•		
	<u> </u>		(Brief description (of service for wh	nich equipment was design	ned)	35306	
	• •	·- <u>-</u>						
6. 7. 8.	Design Conditions 14 (Pres Cold Working Pressure Pressure Retaining Pieces	40 I sero) 1440	psi at 100 °F.	00 ersture)	°F or Valve Press	ure Class	600	(1)
	Mark No.		Material Spec. No.		Manufactu	rer	Remark	5
	. 05260-X551		SA351 CF8M	 -	PRL		Body	
	05260-X552		SA351 CF8M		PRL		Disc	
			· · · · · · · · · · · · · · · · · · ·					
								
	(b) Forgings							
	25307		SA479-316		DuBose		Hinge Pin (Cover
								
			•					
			·		·			

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Pg. 1 of 2

⁽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.

Valve S/N AY777 through Material Spec. No. Mark No. Manufacturer Remarks (c) Bolting 25240 SA564-630-H1100 DuBose H.P. Cover Stud SA194-8M 43A Askew H.P. Cover Nut (d) Other Parts SA240-316 C5SP Consolidated Power Supply Bonnet 25507 SA240-316 DuBose Gasket Retainer Hydrostatic test Disk Differential test pressure Psl. 2175 . 1584 CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this pump, or valve, to the rules of construction conforms 1989 of the ASME Code for Nuclear Power Plant Components. Section III, Div. 1., **Edition** Addenda Date , Code Case No. No N/A 06 Signed Flowserve Corp. (N Certificate Holder) Our ASME Certificate of Authorization No. to use the symbol expires N-1562 11-26-06 (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 Reg. No. M-16690 Stress analysis certified by (1) R.S. Farrell PE State Reg. No. 028656 (1) Signature not required. List name only. CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boller 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 1.24 106, 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 s 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. 124106 Commissions NC142/ (Nat'l Bd., State, Prov. and No.) (Inspector)

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

		Claumann Camani	1000 C C	J C D-	Iniah NC 2760	2				
	installed and certified			Ineme and a	ddress of N or NA C		. .			
2.	Installed for Pacific G	as & Electric PO Box 770	50 San Francisco	neme and a	-7760 ddreas of Purchaser)					
3.	Location of installation	Diablo Canyon Power	Plant 800 Price	Canyon Rd.	Pismo Beach,		•			
4.	System identification	port valve AY	777 . rt. Holder's serial no.)	W9023267	R/C_N/A	(CRN)	N/A (Nati. Bd. 1	2006 no.) (year installed)		
5.	ASME Code, Section I	II. Division 1: 1989		No '	<u> </u>	2	N/	Α		
		ו wing overall responsibility	odition) Flowserve Co	огр. 1900 5	da dete) . Saunders St.	Raleigh, N		(Code Case no.)		
		parts, appurtenances, and s' Data Reports.):	_	lled (List eac	•	eme and addre ch copies o		ders' Data Reports and		
	(a) Comp. or Appurt. Valve	(b) Name of Certificate Holder Howserve	(c) Serial N AY777	lo.	(d) CRN No. N/A		Nat'l. Bd. No. N/A	. (f) Year Built 2006		
	Valve	Flowserve	76BEA	 _	N/A		N/A	2005		
	Piping and part install	(b) Name of Certificate					· · · · · · · · · · · · · · · · · · ·	(f) Year Built — Parts		
	Subassembly	Holder	(c) Serial N	lo.	(d) CRN No.	, (E	Nat'l. Bd. No.	Only		
•		· 								
		·		-				·		
	Support installation:									
	(a) Support No.	(b) Name of Certificate Holder (c)		i) Design Rept Capac. Data S		RN No.	(f) Nat'l Bd. No.	(g) Year Built		
	Additional material ex	cluding welding material:					•			
	(a) Nam DuBose	ne of Mfr.	(b SA312-316 (He) Material Spe at Code 257		Pine 1-	(c) Dimension 1/2" dia, Schedul			
	Energy & Process Cor	poration	SA182 Gr. F316				p 1-1/2" dia. 3000			
					•					
8.	Installation in accordan	nce with:	 ,			 .	-			
	W9023267 Rev. C- va	Procedure or Drawing No.		,	Howserve Corp		Prepared by			
	W9023267 REV. C- Va	ive a port valve			nowserve Corp	xorauon		`		
		2175	72			700		400		
	Hydrostatic test pressu Remarks:	re <u>2175</u> psi at t	temp. <u>//</u>	°F. Sys	tem design pres	ssure 700	psi at te	mp. <u>400 </u>		
٠.	port valve assembled	ort valve assembled in accordance with drawing 05-35306-01 Rev. A								
							· ·	<u>.</u>		
			•							
										

*Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is $8^{1}/2 \times 11$, (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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Certificate Holder's Serial No.

CERTIFICA	TION 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.	•			
CERTIFIC	ATE OF INSTALLATION	COMPLIANCE					
We certify that the statements made in this report are cor Section III, Division 1, and was performed in accordance to			e rules for constru	tion of the ASME Code,			
N or NA Certificate of Authorization No.	······································		Expires				
Data Name In a Na Na	Certificate Holder)	Signed	(mirthortzad ra	presentative)			
CERTIFIC	ATE OF INSTALLATION	INSPECTION		•			
I, the undersigned, holding a valid commission issued by	the National Board of B	oiler and Pressure \	Vessel Inspectors a	nd the State or Province			
ofhave inspected the installation				and			
etate that to the best of my knowledge and belief, the Cer ASME Code, Section III, Division 1.	rtificate of Authorization	Holder has perforn	ned this installation	in accordance with the			
By signing this certificate, neither the inspector nor his em	ployer makes any warra	nty, expressed or im	plied, concerning th	ne installation described			
In this Data Report, Furthermore, neither the inspector nor or a loss of any kind arising from or connected with this i.	• •	ble in any manner	for any personal inj	ury or property damage			
Date Signed IAuthorized	Nuclear Inspector)	_ Commissions	tet'i, B4. (Incl. endoraeme	nts) and state or prov. and no.)			
CERTIFICATE OF C	COMPLIANCE FOR OVE						
Following completion of the above, the Certificate of Autithe following statement:	horization Holder accept	ing overall responsi	bility for the piping	system shall complete			
We certify that the statements made by this report are co	present and that the piple	- ·		nstruction of the ASME			
Code, Section III, Division 1. N-1562 N Certificate of Authorization No		11-26-0 Expires	6				
/-23-06 Flowserve Corporation	on		18//				
Data Name	rtiBeate Holder)	Signed	(authorized re)	presentative)			
CERTIFICATE OF INSPECTION .							
t, the undersigned, holding a valid commission issued by the National Board of Boller 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		1/24/06	and			
state that to the best of my knowledge and ballef, the Cert Section III, Division 1.	tificate Holder has const	ructed this piping a	ystem in accordanc	e with the ASME Code,			
By signing this certificate, neither the inspector nor his emplo							
in this Data Report. Furthermore, neither the inspector nor or a loss of any kind arising from or connected with this in		ble in any manner f	or any personal inju	Iry or property damage			
Date 1/24/06 Signed Authorized	Nuclear inapectors	Commissions <u>k</u>	of Bd. (Incl. andersomer	its) and state or prov. and no.!			
				, p. v. i e. i e. i e. i			

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