

James M. Welsch Station Director Diablo Canyon Power Plant Mail Code 104/5/502 P. O. Box 56 Avila Beach, CA 93424

805.545.3242 Internal: 691.3242 Fax: 805.545.4234 Internet: JMW1@pge.com

June 13, 2013

PG&E Letter DCL-13-063

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 Seventeenth Refueling Outage

In accordance with ASME Code Section XI, Paragraph IWA-6240(b), enclosed is the Diablo Canyon Power Plant Unit 2 Seventeenth Refueling Outage Inservice Inspection (ISI) Report. This report provides the results of our ISI examination of Class 1 and 2 components and supports. Also included is a listing of the preservice inspection items and the ASME Code Report Form NIS-2 reports for Class 1, 2 and 3 repair/replacement activities completed since the last Unit 2 refueling outage report submittal.

There are no new or revised regulatory commitments (as defined by NEI 99-04) in this report.

If you have any questions regarding the information enclosed, or other ISI program activities, please contact Mr. Patrick Nugent, Manager, Technical Support Engineering, at (805) 545-4701.

Sincerely,

<del>Jam</del>es M. Welsch

wrl8/6980/64055282

Enclosure

cc/encl:

Thomas R. Hipschman, NRC Senior Resident Inspector

Arthur T. Howell, III, NRC Region IV

James T. Polickoski, NRC Senior Project Manager

State of California, Pressure Vessel Unit

#### Pacific Gas and Electric Company

Diablo Canyon Power Plant

Inservice Inspection Report for the Unit 2 Seventeenth Refueling Outage

#### Diablo Canyon Power Plant

Unit 2

USNRC Docket No. 50-323

Operating License No. DPR-82

Commercial Operation Date, March 13, 1986

Prepared By:

Thomas L. Alcott, ISI Specialist

Reviewed By:

James Hill, Lead ISI Specialist

Approved By:

Patrick Nugent, 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.

Document Date: 5/20/2013

Pacific Gas and Electric Company 77 Beale Street, San Francisco, CA 94106

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

#### TABLE OF CONTENTS

SECTION	TITLE						
A.	Introduction						
В.	ASME Code Report Form NIS-1 (Basis of Summary)						
	1. Class 1 2. Class 2						
C.	Class 1 Components						
	<ol> <li>Vessels         <ul> <li>a. Reactor Vessel</li> <li>b. Pressurizer</li> </ul> </li> <li>Bolting         <ul> <li>Pumps</li> </ul> </li> <li>Welded Attachments</li> <li>Piping</li> <li>Supports</li> </ol>						
D.	Class 2 Components						
	<ol> <li>Vessels         <ul> <li>a. Steam Generators</li> <li>b. Heat Exchangers</li> </ul> </li> <li>Piping         <ul> <li>Welded Attachments</li> </ul> </li> <li>Supports</li> </ol>						
E.	Containment (IWE / IWL) Exams						
F.	System Pressure Tests						
G.	Containment Penetration - Appendix J						
Н.	Preservice Inspection Items						
I.	Repairs and Replacements						
	1. ASME Code Report Form NIS-2 (Indexed by System) (Class-1, 2 & 3) (Manufacturers' Data Reports for 'New Items' are attached behind the applicable NIS-2)						

## SECTION A INTRODUCTION

#### **SECTION A**

#### INTRODUCTION

Inservice inspection (ISI) of scheduled ASME Section XI components and their supports at Pacific Gas and Electric Company's Diablo Canyon Power Plant (DCPP) Unit 2 was completed during the seventeenth refueling outage from February to March, 2013.

The DCPP Unit 2 seventeenth refueling outage (2R17) was the second outage in the second period within the third 10-year ISI interval.

2R17 exams were scheduled and performed as required by ASME XI, 2001 Edition thru 2003 addenda, as modified by 10CFR 50.55a.

This report is submitted as required by ASME Section XI, paragraph IWA-6240, 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.

Containment (IWE / IWL) exams are reported in section E

System pressure tests on Class 1 and 2 systems conducted during the period following Unit 2 sixteenth refueling outage (2R16), up to and through 2R17, are reported in Section F.

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

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

Section I of this report, Repairs and Replacements (Class 1, 2 & 3), contains the completed ASME Code Report Form NIS-2 for those 2R17 work packages closed prior to or on April 22, 2013 and for any work packages closed after July 05, 2011. NIS-2 reports for 2R17 work packages that are closed after April 22, 2013 will be included in the next outage report. Corrective action and Order package documentation are on file at DCPP and are referenced by Order number in the NIS-2 reports.

Manufacturers' Data Reports for 'New Items' are attached behind the applicable NIS-2.

## SECTION B

**ASME CODE REPORT FORM NIS-1** 

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

1.	Owner Pacific Gas & Electric Company, 77 Beale St., San Francisco, CA 94106	
2.	Plant Diablo Canyon Power Plant, P.O. Box 56, Avila Beach, CA 93424	
3.	Plant 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 InspectedASME Code Class 1 Items	

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering/ Westinghouse	CE 68101	12962-85	21359
Pressurizer	Westinghouse	1171	N/A	68-106
Class 1 Pumps RCP 2-1	Westinghouse	711	N/A	N/A
Class 1 Piping	M.W. Kellogg/ Pullman	N/A	N/A	N/A
Class 1 Supports	M.W. Kellogg/ Pullman	N/A	N/A	N/A

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

#### FORM NIS-1 (back)

8.	Examination Dates to to					
9.	Inspection Period Identification: <u>Second</u>					
10.	Inspection Interval Identification: Third					
11.	Applicable Edition of Section XI <u>2001</u> Addenda <u>2002 - 2003</u>					
12.	Date/Revision of Inspection Plan:December 2011, Revision 1					
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					
taken co Certifica	et the Inspection Plan as required by the ASME Code, Section XI, and, c) corrective measures inform to the rules of the ASME Code, Section XI.  Attention of Authorization No. (if applicable) N/A Expiration Date N/A  Patrick Nugent Engineering Manager					
	CERTIFICATE OF INSERVICE INSPECTION					
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						

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

1.	Owner Pacific Gas & Electric Company, 77 Beale St., San Francisco, CA 94106	
2.	Plant Diablo Canyon Power Plant, P.O. Box 56, Avila Beach, CA 93424	
3.	Plant 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.	Components Inspected ASME Code Class 2 Items	

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Class 2 Piping	M.W. Kellogg/ Pullman	N/A	N/A	N/A
Class 2 Piping Supports	Various	N/A	N/A	N/A
Steam Gen 2-1	Westinghouse / ENSA	SG2-1/DC2RSG-1 / 1PA2	N/A	94 / 142
U2 Containment Bolted Connections	Pittsburgh - Des Moines Steel & PG&E	N/A	N/A	N/A
U2 Containment Liner	PG&E	N/A	N/A	N/A
RHR Heat Exchanger 2-1	Engineers and Fabricators Co.	S-15588-C	N/A	1112

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

#### FORM NIS-1 (back)

8.	Examination Dates	2/2013 t	o3	/2013			
9.	Inspection Period Identifie	cation: <u>Second</u>	1			_	
10.	Inspection Interval Identif	ication:Third				=	
11.	Applicable Edition of Sec	tion XI <u>2001</u>		Addenda _	2002 - 2003	=	
12.	Date/Revision of Inspection	on Plan:Dece	mber, 2011, 1	Revision 1			
13.	Abstract of Examinations concerning status of work					·	
14.	Abstract of Results of Exa	aminations and T	ests. <u>F</u>	Refer to ISI Repo	ort	_	
15.	Abstract of Corrective Mea	asures	Ref	er to ISI Report		_	
taken c	eet the Inspection Plan as reconform to the rules of the A cate of Authorization No. (if	quired by the ASSME Code, Sect	SME Code, S cion XI. N/A	Expirat	ion Date N/A		
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							

#### **SECTION C**

#### **CLASS 1 COMPONENTS**

Pacific Gas and Electric Company						DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86		
	INTERVAL, SECON	,	MAJOR ITEM: VESSEL REACTOR PRESSURE VESSEL (RPV)					
ASME S	ECTION XI SYSTEM	WIS - CLASS I				PAGE 1 of 1	Alaka ang panananan ana ang ang ang ang ang	
CATEGO ITEM	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS	
Augment	red							
	RPV Lower Head BMI Visual Exam	RPV2	RPV Lower Head / BMI Visual Exam	VT	3-15-13	Remote / Crawler exam	NRI	
	RPV Hot Leg Nozzle-to-Pipe Connections	RPV2	Hot Leg Nozzle-to- Pipe Connections	VT	2-05-13		NRI	

PG&E						DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86	
THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)					MAJOR ITEM: PRESSURIZER		
ASME SECTION XI SYSTEMS - CLASS 1				PAGE 1 of 1			
	CATEGORY COMPONENT / WELD OR EXAM EXAM						
ITEM	DESCRIPTION	LINE	COMPONENT NO.	ТҮРЕ	DATE	COMMENTS	RESULTS
B-D							
B3.110	Safety Line Nozz to Vessel Weld	Pzr 2 to 2S6-729-6SPL	WIB-368 (N-V)	UT	2/18/13	65.2% Coverage. Examined 2R14, re-examined during 2R17 with	NRI

						DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86	
THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)					MAJOR ITEM: BOLTING		
ASME S	ASME SECTION XI SYSTEMS - CLASS 1				PAGE 1 of 1		
CATEG		COMPONENT /	WELD OR	EXAM	EXAM	COMMENTE	
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	DATE	COMMENTS	RESULTS
B-G-1							
B6.180	RCP 2-1 Main Flange Bolts	Pump Bolting > 2" diam.	RCP 2-1 Bolts 1-24	UT	2-08-13		NRI

PG&E  THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)  ASME SECTION XI SYSTEMS - CLASS 1					DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86 MAJOR ITEM: PUMPS PAGE 1 of 1		
CATEG	GORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
Augmen	nted						
	RCP 2-2 Flywheel UT Exam	RCP 2-2 Flywheel	RCP 2-2 Flywheel Inner Half Radius	UT	2-23-13		NRI

PG&E						DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86	
THIRD	INTERVAL, SECO	ND PERIOD, FIRS	T REFUELING OUTA	GE REPO	PRT (2R17)	MAJOR ITEM: WELDED ATTACHMENTS	11 M
ASME	SECTION XI SYSTI	EMS - CLASS 1				PAGE 1 of 1	
CATEC	GORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-K							
211							
	SIS to RCS Lp 1 HL: Welded Att.	2S6-2575-8	70-38SL	PT	2-19-13		NRI
	RHR Pp 2-1 Inj CL 1: Welded Att.	2S6-3844-6SPL	92-41V	PT	2-25-13		NRI
	RHR Pp 2-1 Inj CL 2: Welded Att.	2S6-3845-6SPL	71-5SL	PT	2-25-13		NRI

PG&E

#### **DIABLO CANYON POWER PLANT - UNIT 2** SERVICE DATE: 03/13/86

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17) MAJOR ITEM: PIPING

**ASME SECTION XI SYSTEMS - CLASS 1** 

PAGE 1 of 2

CATE	GORY	COMPONENT /	WELD OR	EXAM	EXAM		
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	DATE	COMMENTS	RESULTS
RI-ISI (RB)							
	Boron Inj Tk Out Loop 4 Cold	2S6-1994-1- 1/2SPL+	WIB-736-04	PT	2-15-13		NRI
	Boron Inj Tk Out Loop 4 Cold	2S6-1994-1- 1/2SPL+	WIB-735	PT	2-15-13		NRI
	Loop 1 Cold Leg RTD Conn	2S6-1140-2SPL	WIB-975H	PT	2-8-13		NRI
	Loop 2 RTD Manifold Ret Hdr	2S6-1147-3SPL	WIB-124A	UT	2-19-13		NRI
	Pressurizer PWR RV PCV 474	2S6-1171-3SPL+	WIB-410	UT	2-19-13		NRI
	Pressurizer PWR RV PCV 455C	2S6-1172-3SPL+	WIB-402	UT	2-19-13		NRI
	Pressurizer RV 8010B Inlet	2S6-728-6SPL+	WIB-425	UT	2-16-13		NRI
	Hot Leg Recirc Before V-8702	2S6-109-14SPL	WIB-251A	UT	2-26-13		NRI
	Accumulator Injection Loop 2	2S6-254-10SPL+	WIB-168	UT	2-18-13		NRI

PG&E	
THIRD	)

### DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17) MAJOR ITEM: PIPING

ASME SECTION XI SYSTEMS - CLASS 1

PAGE 2 of 2

CATE(	GORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
Augmei	nted (weld overlays)						
Relief R REP-1 I	Request U2 Rev.1						
	Pressurizer RV 8010B Inlet	2S6-728-6SPL+	WIB-423/WIB- 423(SE) (OL)	UT	2-14-13	Fabrication flaws exceeding relief request acceptance criteria identified. Scope expanded per sub Article Q-4310	RI*
Expand	ed Scope						
	Pressurizer RV 8010A Inlet	S6-729-6SPL+	WIB-369/WIB- 369(SE) (OL)	UT	2-21-13	Expanded scope	RI*
	Pressurizer RV 8010C Inlet	2S6-727-6SPL+	WIB-359/WIB- 359(SE) (OL)	UT	2-22-13	Expanded scope	RI*
	Pressurizer Power RV Inlet	S6-730-6SPL+	WIB-380/WIB- 380(SE) (OL)	UT	2-23-13	Expanded scope	NRI
	Pressurizer Spray Line	2S6-15-4SPL	WIB-345/WIB- 345(SE) (OL)	UT	2-27-13	Expanded scope	RI*
	Pressurizer Surge Line	2*-16-14SPL	WIB-438/WIB- 439(SE) (OL)	UT	2-27-13	Expanded scope	NRI
					NRC verb	ions dispositioned in Relief Request REP-1 U2 Rev.2 al approval for single cycle implementation received on MF0880)	

PG&E	DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86
THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)	MAJOR ITEM: SUPPORTS
ASME SECTION XI SYSTEMS - CLASS 1	
	PAGE 1 of 1

**CATEGORY** 

F-A

**SUPPORTS** 

F1.10 TO F1.70 SUPPORT COMPONENTS

The required inservice inspections were performed on 1 Class 1 support during the seventeenth refueling outage between the dates of 02-05-13 and 02-05-13. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
Reactor Vsl 2-1	Support Structure						
			-				
		p					
				***************************************			

## SECTION D CLASS 2 COMPONENTS

PG&E THIRD	INTERVAL, SECO	OND PERIOD, FIRS	T REFUELING OUTA	GE REPO	ORT (2R17)	SERVICE DATE	ON POWER PLANT - UNIT 2 : 03/13/86 STEAM GENERATORS	The second se
ASME	SECTION XI SYST	EMS - CLASS 2					·	
						PAGE 1 of 1		
CATE(	GORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS		RESULTS
C-B								
C2.21	Nozzle-to-Shell Weld	RSG 2-1 to 2K16-554-16IV	Feedwater Nozzle- to-Shell Weld	MT	2-09-13			NRI
			Feedwater Nozzle- to-Shell Weld	UT	2-12-13	81.6% coverage	(50033145 task 70)	NRI
			Nozzle Inside Radius Section	UT	2-25-13			NRI

### DIABLO CANYON POWER PLANT - UNIT 2

						SERVICE DATE: 03/13/86	
THIRD	INTERVAL, SECO	OND PERIOD, FIRS	T REFUELING OUTA	GE REPO	RT (2R17)	MAJOR ITEM: HEAT EXCHANGERS	
ASME	SECTION XI SYST	EMS - CLASS 2					
						PAGE 1 of 1	
CATE(	GORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-A							
C1.10	Shell Circ.Welds	RHR Heat Exchanger 2-1	Girth Weld Item 21 (Shell-to-Flange)	VT-2	6-01-11	Code Case N-706-1 allows use of VT-2 in-lieu of PT exam.	NRI
С-В							
C2.21	Nozzle-to-Shell Weld	RHR HX 2-1 to 2S1-112-8	Inlet Nozzle- to-Shell Weld # 24	VT-2	6-01-11	Code Case N-706-1 allows use of VT-2 in-lieu of UT and PT exams.	NRI

#### **DIABLO CANYON POWER PLANT - UNIT 2** SERVICE DATE: 03/13/86

PG&E

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17) MAJOR ITEM: PIPING

#### ASME SECTION XI SYSTEMS - CLASS 2

		=				PAGE 1 of 1	
CATEG ITEM	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
RI-ISI (RB)							
	Res Ht Exchanger 1 Outlet	2S1-118-8III	WIC-57C	UT	1-29-13		NRI
			WIC-57G	UT	1-29-13		NRI
			WIC-57H	UT	1-29-13		NRI
	RHR Exchs Outlet Cross-Tie	2S1-2458-8III	WIC-125	UT	1-29-13		NRI
	RHR to SIS Pp 1- 2 & Cont Spr	2S1-735-8IIIP	WIC-269	UT	1-29-13		NRI
	·		WIC-270	UT	1-29-13		NRI
	RC Pps Barrier CCW Ret Hdr	2K17-1357-6	WIC-1357B	UT	2-14-13		NRI
			WIC-1357C	UT	2-14-13		NRI

PG&E						DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86				
	INTERVAL, SECO	ŕ	T REFUELING OUTA	GE REPO	PRT (2R17)	MAJOR ITEM: WELDED ATTACHMENTS				
						PAGE 1 of 1				
CATE(	GORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS			
C-C										
C3.20	Stm Gen 2-3 Fw Welded Attach.	2K16-557-16IV	2042-9V Attachment	MT	2-16-13		NRI			
	CCP 2-2 Seal Inj. Welded Attach.	286-1475-3	23-37R Attachment Lugs	PT	2-09-13		NRI			
	Spray Hdrs 1 & 3 Welded Attach.	Line S2-2520-8	50-126A Attachment	PT	2/28/13		NRI			

DIABLO CANYON POWER PLANT - UNIT 2

SERVICE DATE: 03/13/86

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)

MAJOR ITEM: PIPING SUPPORTS

**ASME SECTION XI SYSTEMS - CLASS 2** 

PAGE 1 of 1

#### **CATEGORY**

F-A

**SUPPORTS** 

F1.10 TO F1.70

SUPPORT COMPONENTS

The required inservice inspections were performed on 41 Class 2 hangers during the seventeenth refueling outage between the dates of 1-31-13 and 3-03-13. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
RHR Hx 2-1	2 Support Legs	226	413-252R	508	412-163R	1988	23-72R
RHR Hx 2-1	4 mid-level braces	262	947-3R	512	46-1V	2033	413-17R
RHR Hx 2-1	4 top-level braces	265	413-221R	557	2042-9V	2520	50-127R
48	24-47R	314	50-9V	569	413-406R	3844	71-1R <sup>1</sup>
48	413-73R	315	414-49R	571	413-296V	2520	50-126A
53	23-43R	316	414-285R	734	23-25R		
54	2216-19	317	8-16V	746	414-314R		
54	2216-5	318	50-12V	985 ·	7-153R		
54	564-65	319	8-6V	1466	923-48		
110	47-140R	321	404-30R	1475	23-37R		
118	414-607R	322	73-16R	1663	77-7SL		
224	75-17R	322	414-399A	1982	413-539R		

<sup>&</sup>lt;sup>1</sup> Notification # 50543918

## SECTION E CONTAINMENT EXAMS

(IWE/IWL)

PG&E THIRD	INTERVAL, SECO	OND PERIOD, FIRS	T REFUELING OUTA	ORT (2R17)	DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86 MAJOR ITEM: CONTAINMENT		
ASME S	SECTION XI SYST	EMS, CONTAINM	ENT			PAGE 1 of 1	
CATEO ITEM	GORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
E-A							
E1.11	Containment Liner	Containment Liner	Containment Liner	General VT	3-17-13		NRI
	Penetration #58	Mini Equipment	12 Studs, 24 Nuts	General VT	3-04-13	Examined in assembled state	NRI
	Penetration #60	Mini Equipment	12 Studs, 24 Nuts	General VT	3-04-13	Examined in assembled state	NRI
	Penetration #63	Vacuum Pressure Relief	12 Bolts	General VT	3-04-13	Examined in assembled state	NRI
	Penetration #64	Fuel Transfer Tube	20 Bolts	General VT	2-04-13	All but 2 bolts examined in assembled state	NRI
	Equipment Hatch	Equipment Hatch	48 Bolts	VT-3	3-04-13	Examined in disassembled state Partial exam. (all but upper 12 bolts)	NRI

L-A None

## SECTION F PRESSURE TESTS

### DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)

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	3-20-13	Outage Frequency, STP-R8A	NRI
2	1	Excess Letdown between 8166 & 8167	3-20-13	Outage Frequency, STP-R8A	NRI
3	1	Pressurizer Auxiliary Spray	3-20-13	Outage Frequency, STP-R8A	NRI
4	1	Alternate Charging	3-20-13	Outage Frequency, STP-R8A	NRI
5	1 .	RHR & SI to Cold Legs	3-20-13	Outage Frequency, STP-R8A	NRI
6	1	Charging Injection Inside Cont.	3-20-13	Outage Frequency, STP-R8A	NRI
7	1	Safety Injection Inside Cont, From 8905A-D to 8949A-D	3-20-13	Outage Frequency, STP-R8A	NRI
8	1	RHR Between 8702 & 8701	3-20-13	Outage Frequency, STP-R8A	NRI
	1	RPV Flange Leak-off Lines	3-14-13	Outage Frequency, (partial 3-6-13)	NRI
1	2	Steam Generators and Connected Piping	6-04-11	Period-2 Exam	NRI
4	2	RCS Loops 1 & 4 Hot Leg Sample Lines	3-20-13	Period-2 Exam	NRI
5	2	Pressurizer Sample Lines	3-20-13	Period-2 Exam	NRI

#### DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 2 of 3

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
6	2	XS Ltdn HX & Piping from 8167 to HCV-123	3-20-13	Period-2 Exam	NRI
7	2	RCP Hi Press Seal Water Out & XS Ltdn HX Outlet Piping	10-12-12	Period-2 Exam	NRI
8	2	Charging Pumps Discharge Piping	1-23-13	Period-2 Exam	NRI
8a	2	Charging Pumps Discharge Piping between CVCS 929, CVCS 8387B, CVCS 8387C and CVCS 931	1-24-13	Period-2 Exam	NRI
10	2	Alt Charging Between 8483, 8147 & 8379A	3-20-13	Period-2 Exam	NRI
11	2	Charging Injection 8803A & B to 8801A & B	3-07-13	Period-2 Exam	NRI
13	2	Charging Pumps & Suction Piping	1-03-13	Period-2 Exam	NRI
14	2	Regenerative HX and Letdown Piping	10-12-12	Period-2 Exam	NRI
15	2	Boric Acid Pumps Disch Piping	2-06-13	Period-2 Exam	NRI
15a	2	Boric Acid Pumps Disch Piping Between 8104 and 8445	1-24-13	Period-2 Exam	NRI
16	2	Boric Acid Tanks to Pump Disch Iso Valves	10-03-12	Period-2 Exam	NRI
18	2	Accumulator, RHR & Charging Test Lines	3-07-13	Period-2 Exam	NRI
19	2	RWST & Supply to RHR, Cont Spray, SI, Refueling Wtr Purification Pumps & Recirc Line to RHR HX	1-08-13	Period-2 Exam	NRI
20	2	RWST Supply to Chg Pp Suction, 8805A & B to 8924	3-11-13	Period-2 Exam	NRI

#### **DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86**

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 3 of 3

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
21	2	Safety Injection Pump Discharge to 8802A & B and Cold Legs	3-20-13	Period-2 Exam	NRI
23	2	RHR Pumps and Discharge Piping	3-09-13	Period-2 Exam	NRI
24	2	RHR Hot Leg injection from 8703 to 8740A & B	3-20-13	Period-2 Exam	NRI
25	2	Spray Additive Tank and Unisolable piping	1-07-13	Period-2 Exam	NRI
26	2	RWST Supply to Eductors	2-09-13	Period-2 Exam	NRI
41	2	Refueling Canal Water Inlet (pen 46)	2-12-13	Period-2 Exam	NRI
46	2	RHR Suction from RCS	3-03-13	Period-2 Exam	NRI
47	2	Refueling Canal Water Outlet (pen 47)	2-12-13	Period-2 Exam	NRI

#### **SECTION G**

### **Containment Penetration - Appendix J**

Note: <u>All</u> Appendix J penetrations were performed during the Unit-2 fourteenth refueling outage (2R14). The Appendix J penetrations listed here are only the penetrations that received an LLRT during 2R17.

### DIABLO CANYON POWER PLANT - UNIT 2 SERVICE DATE: 03/13/86

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)

MAJOR ITEM: Containment Penetration Appendix J

ASME SECTION XI SYSTEMS - CONTAINMENT

PAGE 1 of 1

PEN NO.	STP NO.	Results	EXAM DATE	PEN NO.	STP NO.	Results	EXAM DATE	PEN NO.	STP NO.	Results	EXAM DATE
20	V-620	Acceptable	2-26-13	54	V-654	Acceptable	2-14-13	78B	V-678	Acceptable	2-9-13
30	V-630	Acceptable	2-25-13	59A	V-659A	Acceptable	3-6-13	79	V-679	Acceptable	2-22-13
31	V-631	Acceptable	2-26-13	61	V-661	Acceptable	3-17-13	81	V-681	Acceptable	3-1-13
46	V-646	Acceptable	2-4-13	62	V-662	Acceptable	3-17-13	82A	V-682A	Acceptable	2-7-13
47	V-646	Acceptable	2-4-13	63	V-663	Acceptable	3-11-13	82B	V-682B	Acceptable	2-11-13
49	V-649	Acceptable	3-1-13	68	V-668	Acceptable	2-16-13	82C	V-682B	Acceptable	2-11-13
50	V-650	Acceptable	2-28-13	69	V-668	Acceptable	2-16-13	83B	V-683	Acceptable	2-15-13
51B	V-651B	Acceptable	2-25-13	70	V-670	Acceptable	2-9-13				
51C	V-651C	Acceptable	2-10-13	71	V-671	Acceptable	3-1-13				
51D	V-651D	Acceptable	2-7-13	52E	V-678	Acceptable	2-9-13				
52B	V-652B	Acceptable	2-21-13	52F	V-678	Acceptable	2-9-13				
52D	V-652D	Acceptable	2-6-13	78A	V-678	Acceptable	2-9-13				

# SECTION H PRESERVICE INSPECTION ITEMS (Class 1, 2 & 3)

#### DIABLO CANYON POWER PLANT – UNIT 2 SERVICE DATE: 03/13/86

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)

MAJOR ITEM: PSI

ASME SECTION XI SYSTEMS – CLASS 1, 2, & 3 PRESERVICE INSPECTION ITEMS

#### PAGE 1 of 2

CATEGORY	Name of Component	System	Ехат Туре	Work Order No.	Other Ident. Line No	Notes
Pressure Tests Fo	llowing Repair/Replacements		-			
				600000000000000000000000000000000000000		
	FW-2-LCV-106	03	VT-2	60002220-0100	LINE-569-3"	Replaced Bonnet
	FW-2-LCV-107	03	VT-2	60002221-0100	LINE-570-3"	Replaced Bonnet
	MS-2-FCV-151	04	VT-2	60043253-0010	LINE-1040-2.5"	Replace Bonnet
	MS-2-FCV-151	04	VT-2	60043253-0080	LINE-1040-2.5"	Weld & Machine gasket seating face
	MS-2-FCV-157	04	VT-2	60051165-0010	LINE-1042-2.5"	Replace Bonnet
	MS-2-FCV-41	04	VT-2	60054811-0020	LINE-228-28"	Weld damaged threads and rethread
	MS-2-FCV-41	04	VT-2	60054811-0030	LINE-228-28"	Drill, Tap and install new Helicoil
	MS-2-RV-58	04	VT-2	64014898-0200	LINE-1066-6"	Replace RV & inlet bolting
	MS-2-RV-59	04	VT-2	64014899-0200	LINE-1066-6"	Replace RV, inlet bolting & spacer
	MS-2-RV-60	04	VT-2	64014900-0200	LINE-1066-6"	Replace RV, inlet bolting & spacer
	MS-2-RV-61	04	VT-2	64014901-0200	LINE-1066-6"	Replace RV, inlet bolting & spacer
	MS-2-RV-225	04	VT-2	64014902-0200	LINE-1066-6"	Replace RV, inlet bolting & spacer
	RCS-2-RV-8010A	07	VT-2	64051300-0200	LINE-729-6"	Replaced RV with tested spare
	RCS-2-RV-8010B	07	VT-2	64047440-0200	LINE-728-6"	Replaced RV with tested spare
	RCS-2-RV-8010C	07	VT-2	64047384-0200	LINE-727-6"	Replaced RV with tested spare
	CVCS-2-8487B	08	VT-2	60054100-0010	LINE-71-2"	Replace Valve
	CVCS-2-8463A	08	VT-2	60055132-0010	LINE-71-2 LINE-70-2"	Replace Bonnet
	CVCS-2-8402A	08	VT-2	68022222-0010	LINE-48-3"	Replace Valve
	CVCS-2-8402A	08	VT-2	68022224-0010	LINE-48-3"	Replace Valve

#### PG&E

#### DIABLO CANYON POWER PLANT – UNIT 2 SERVICE DATE: 03/13/86

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R17)

MAJOR ITEM: PSI

ASME SECTION XI SYSTEMS - CLASS 1, 2, & 3 PRESERVICE INSPECTION ITEMS

#### PAGE 2 of 2

CATEGORY	Name of Component	System	Exam Type	Work Order No.	Other Ident. Line No	Notes
Pressure Tests Fo	ollowing Repair/Replacements,	continued:	•			
	RHR-2-RV-8707	10	VT-2	64025604-0200	LINE-1167-3"	Replaced RV with tested spare
	CS-2-RV-930	12	VT-2	64023729-0200	Spray Add Tnk 2-1	Replaced RV with tested spare
	CS-2-RV-931	12	VT-2	64023885-0200	Spray Add Tnk 2-1	Replaced RV with tested spare
	CCW Pump 2-3	14	VT-2	60029035-0011	CCWP3	Replace mechanical seal Gland Plate
	CCW Pump 2-3	14	VT-2	60029035-0031	CCWP3	Replace mechanical seal Gland Plate
	CCW Pump 2-1	14	VT-2	60033750-0031	CCWP1	Replace mechanical seal Gland Plate
	CCW Pump 2-1	14	VT-2	60033750-0040	CCWP1	Replace mechanical seal Gland Plate
	CCW-2-RV-45	14	VT-2	64004506-0200	Surge Tank	Replaced RV with tested spare
·						
	SW-2-185	17	VT-2	60054191-0010	LINE-687-24"	Replace Valve
	ASW Pump 2-2	17	VT-2	60048070-0010	ASWP2	Replace Pump
						·

# SECTION I REPAIRS AND REPLACEMENTS (NIS-2)

(Class 1, 2 & 3)

1. Owner	Dosific Cos and El							<b></b>	5/20/2013
	Pacific Gas and El 77 Beale Street, Sa	n Francisco, CA 9	4106					Date . heet	1 of 1
-	· · · · · · · · · · · · · · · · · · ·	W. C.					AND	-	
-	Diablo Canyon Po	Wer Plant Beach, CA 93424						Unit _	2
	1.0. Box 30, Avna						×3.000 × 17.000		
3. Work Perfo	rmed by	Owner			· · · · · · · · · · · · · · · · · · ·			NT. T	1.31
	,	See Abo	ove			Ke	pair Org. P.O.	No., J	ob No., etc.
4. Identification	on of System		Feedwate	er System (03)					
(b) Application (c) Application	able Construction C able Edition of Sect ble Section XI Cod on of components.	ion XI Utilized for R			Addenda, Add	_ C	Code Case,		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
FW-2-LCV-106	Control Components Inc.	1242821	N/A	60002220-0100	Line-569-3"	1985	Installed, (1)		No
FW-2-LCV-107	Control Components Inc.	1242822							No
413-423R	PG&E	N/A	N/A	60055260-0010	Line-570-3"	1985	Installed, (2)		No
413-420R	PG&E	N/A	N/A	60055261-0010	Line-569-3"	1985	Installed, (2)		No
<ul><li>7. Description of</li><li>8. Tests Conduct</li><li>9. Remarks</li></ul>	eted: Hy	drostatic	Pneumatic Pressure see	t, (2) Replaced support  Nomina	l Operating Pressure Test Temp.	amb_	Exempt		
I certify that the Type Code Sym				TE OF COMPLIA ms to the requirements of	of the ASME Code,	Section X Expiration		Α	
Sign	ed	Ke II			Engineering M	lanager		6/3	13
(Owner or Own	er'sDesignee)	Patr	ick Nugent		(Title)			(	Bate)
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, And employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 7/05, 2011 to 4/22, 2013, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or									
				s Owner's Report. Furt	with this inspection.	Inspecto	r nor his employe	er shall	be liable in
195	3 Ken		Inspector	6-3-20 (Date)	/3 Cor		s CA 1828 - NE		
				(Date) used provided (1) size is ets is recorded at the top	8 1/2 x 11 in., (2) ii	-	Province, Nation		

1. Owner	Pacific Gas and El	ectric Company	4106					 Date _ heet	5/20/2013 1 of 2
2 Plant			4100					-	
2. Plant	P.O. Box 56, Avila	Wer Plant Beach, CA 93424						Unit _	2
2 W-4-D- (				CHARLES CONTROL OF THE PARTY OF			nago contrato de la contrato del contrato del contrato de la contrato del contrato del contrato de la contrato del contrato de la contrato del contrato de la contrato del contrato de la contrato del co		
3. Work Perf	ormed by	Owner See Abo	ove			Re	pair Org. P.O.	No., J	ob No., etc.
4. Identificat	ion of Crystom							,	•
4. Identificat	ion of System	11	irbine Steam	Supply System (0	14)				
5. (a) Applicable Construction Code (See R/R Plans) Edition, Addenda, Code Case, (b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity - 2001 Addenda, 02 / 03 (c) Applicable Section XI Code Case(s), None  6. Identification of components.									
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
MS-2-PCV-22	Copes - Vulcan Inc.	6910.95009	N/A	60036899-0100	Line-225-8"	1985	Installed, (1)		. No
MS-2-RV-3	Dresser Ind. Vlv Div	BN1739	N/A	60037146-0010	S/C D957853	1985	Installed, (2)		No
MS-2-RV-4	Dresser Ind. Vlv Div	BN01744	N/A	60037147-0010	S/C D957854	1985	Installed, (2)		No
MS-2-RV-5	Dresser Ind. Vlv Div	BM7850	N/A	60037148-0010	S/C D967001	1985	Installed, (2)		No
7. Description	of Work (1	) Replaced one Bonnet	Bolt and Trim Se	et, (2) Replaced disc as	sembly,				
8. Tests Condu	octed: Hyd	drostatic   er	_	Nomina	1 Operating Pressure Test Tempse	e 🛛	Exempt $\square$		
9. Remarks	U-2 in Mode-3 w	ith Main Steam at abou	at 1000 psig. and a	about 549 deg F.					
I certify that the		-		TE OF COMPLIA ms to the requirements of the requirement of the re		Section X		Ą	
Sign	1	1/2)	MA		Engineering N	•		0/2/	1/2
(Owner or Own		Patr	ick Nagent		(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, And employed by HSB-CT of Hartford, CT									
have inspected the components described in this Owner's Report during the period 7/05, 2011 to 4/22, 2013, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the Owner's Report in accordance with the requirements of 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 corrective measures described in this Owner's 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.									
_K=	5 Kim		Inspector	6-3-20	5/3 Con		s CA 1828 - NE		
	Inspector 6 - 3 - 26/3 Commissions CA 1828 - NB 9990 A.N.I.C  Kenny B. 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 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.								

1. Ov	wner		Gas and Electric						Date		5/20/2013
	•	77 Beal	e Street, San Fra	ncisco, CA 9410	)6	encome, in			Sheet	2	of _2_
2. Pla	ant .		Canyon Power P x 56, Avila Beacl						Unit		2
3. W	ork Perf	formed by		Owner							
		·		See Abov	e			Rep	air Org. P.O. No	., Job N	o., etc.
4. Ide	entificat	ion of Sys	stem	Turbine S	Steam Sup	pply System (04	·)				
(b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity - 2001 Addenda, 0 (c) Applicable Section XI Code Case(s), None								Code Case, 02 / 03		·	
6. Ide	entificat	ion of cor	nponents.								
	Name o Compon		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
	MS-2-RV	V-6	Dresser Ind. Vlv Div	BN1452	N/A	60037149-0010	S/C D957856	1985	Installed, (2)		No
N	4S-2-RV	-222	Dresser Ind. Vlv Div	BN1456	N/A	60037150-0010	S/C D957857	1985	Installed, (2)		No
М	S-2-FCV	7-151	Fisher Controls Co Inc.	4933090	N/A	60043253-0010	Line-1040- 2.5"	1985	Installed, (3)	×	No
М	IS-2-FCV	7-151	Fisher Controls Co Inc.	4933090	N/A	60043253-0080	Line-1040- 2.5"	1985	Corrected, (4)	$\boxtimes$	No
M	IS-2-FCV	7-157	Fisher Controls Co Inc.	4933092	N/A	60051165-0010	Line-1042- 2.5"	1985	Installed, (3)	☒	No
	413-464	SL	Pacific Scientific Co	684	N/A	60054445-0300	Line-3916-3"	1985	Installed, (5)		Yes
N	4S-2-FCV	V-41	Schutte and Koerting Co	N/F	N/A	60054811-0010	Line-228-28"	1985	Installed, (6)		No
N	4S-2-FCV	V-41	Schutte and Koerting Co	N/F	N/A	60054811-0020	Line-228-28"	1985	Corrected, (7)		No
N	4S-2-FCV	V-41	Schutte and Koerting Co	N/F	N/A	60054811-0030	Line-228-28"	1985	Installed, (8)	⊠	No
	MS-2-51	167	Anchor-Darling	EA998-3-1	N/A	60055244-0010	Line-594-4"	1990	Installed, (9)		Yes
N	AS-2-FC	V-15	Byron Jackson /Dresser-Rand	Т36566	N/A	60055308-0010	Terry Turbine steam lead	1985	Installed, (9)		No
M	AS-2-FC	V-15	Byron Jackson /Dresser-Rand	Spare Bonnet	N/A	60055478-0010	S/C D934604	1985	Corrected, (10)		No
1	MS-2-RV	7-58	Dresser Ind. Vlv Div	BM07851	N/A	64014898-0200	Line-1066-6"	1984	Installed, (11)	×	No
1	MS-2-RV	7-59	Dresser Ind. Vlv Div	BN1747	N/A	64014899-0200	Line-1066-6"	1984	Installed, (12)	☒	No
1	MS-2-RV	7-60	Dresser Ind. Vlv Div	BM07861	N/A	64014900-0200	Line-1066-6"	2006	Installed, (12)	☒	No
1	MS-2-RV	7-61	Dresser Ind. Vlv Div	BM7865	N/A	64014901-0200	Line-1066-6"	1984	Installed, (12)	⊠	No
N	AS-2-RV	-225	Dresser Ind. Vlv Div	BN1743	N/A	64014902-0200	Line-1066-6"	1985	Installed, (12)		No
7. R	emarks		Replaced disc assem					.,			
		(6)	Replaced Bolting / I	HELI-COIL repair,	(7) Weld bu	ild-up thread holes	and re-thread, (8) I	Drill, tap a	nd install new HE	LI <b>-</b> COIL,	
			Replace internals, () Replaced RV, inle				d KV and inlet bol	ting,			

1. Owner	Pacific Gas and El		opposition	– – – Date heet	5/20/2013 1 of 2				
-	77 Deale Street, Sa	iii Francisco, CA 3	7100					-	
2. Plant	P.O. Box 56, Avila	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						Unit <sub>-</sub>	
	P.O. Box 50, Avna	Beach, CA 93424							
3. Work Perf	formed by	Owner					' O . DO	<b>NT T</b>	1.37
		See Ab	ove			Re	pair Org. P.O.	No., J	ob No., etc.
4. Identificat	ion of System		Reactor Coo	olant System (07)					
5. (a) Applicable Construction Code (See R/R Plans) Edition, Addenda, Code Case, (b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity - 2001 Addenda, 02 / 03 (c) Applicable Section XI Code Case(s), None  6. Identification of components.							Code Case,		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
RCS-2-8051	Dragon Valve	TA3407 *	N/A	60009355-0010	Line-117075"	1988	Installed, (1)		No
SG 02-02SL S	E Paul Munroe	1691	N/A	60014658-0100	SG2-2 SE snubber	1984	Installed, (2)		No
RPV Head Vent Spool	AREVA & Target Rock	SOV-1 (s/n 7 & 8)	N/A	60037293-0010	RCS-2- 8078A&B 1"	2011	Installed, (3)		Yes
RPV Head Vent Spool	AREVA & Target Rock	SOV-6 (s/n 9 &12)	N/A	60037293-0020	RCS-2- 8078C&D 1"	2011	Installed, (3)		Yes
7. Description	of Work (1	) Replace valve and as	soc piping by wel	ding, (2) Replaced snu	bber sample valve,	valve adar	oter & tubing,		
•		) Replaced RPV Head			1		<u> </u>		
Tests Condu     Remarks	Otho	drostatic   er   's Code Data Report at	Pressure	□ Nomina PSIG	Il Operating Pressur Test Temp.	re 🔲	Exempt  or		
•	e statements made in th	•	d that this comfort	•	of the ASME Code				
Type Code Syr			ertificate of Auth	lorization No.	N/A	Expiration	on Date N/	A	/ · _
Sign (Owner or Own		Paty	jek Nugent	0.00.00	Engineering (Title		£	2/3/	Date)
		<i>V</i> .	CERTIFIC	ATE OF INSPECT	ION				
	ned, holding a valid con				=				
State or Provin	the components describ		And employed by		HSB-CT 7/05 , 2011	of		tford, ( 4/22	, 2013 ,
and state that to accordance wit implied, conce	to the best of my knowle th the requirements of the ming the examinations any personal injury or	edge and belief, the Ow he ASME Code, Section and corrective measure	wner has performe on XI. By signing es described in thi	d examinations and tak this certificate, neither is Owner's Report. Fur	en corrective measure the Inspector nor he thermore, neither the	ures describ is employe ne Inspecto	bed in the Owner er makes any war	's Repo	rt in xpressed or
_6	2 Kim		Inspector	<u> </u>	13 c		s CA 1828 - NI		
Note: Sunnlan	Kenny D. Kim nental sheets in the form	n of lists skatches or	(Title)				Province, Nation		•
	tental sneets in the form th sheet, and (3) each s					miorinauc	n m nems i uifoi	agu o o	ans report is

-		Gas and Electric	Company	06				Date Sheet		5/20/2013 of 2
2. Plant	Diablo (	Canyon Power I x 56, Avila Beac	Plant					Unit		2
3. Work Perfo			Owner See Abov	e			Rep	air Org. P.O. N	o., Job N	o., etc.
4. Identification	on of Sys	stem	Reacto	or Coolan	t System (07)					
	able Editi able Secti	ion of Section XI ion XI Code Case	See R/R Pla Utilized for Repa		tion, ement Activity -	Addenda, 2001 A	ddenda,	Code Case, 02 / 03		
Name of Componer		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
RPV Head Vent	it Spool	AREVA & Target Rock	SOV-2 (s/n 5 & 6)	N/A	60040020-0010	S/C D962038	2010	Installed, (5)		Yes
RPV Head Vent	t Spool	AREVA & Target Rock	SOV-2 (s/n 5)	N/A	60040020-0030	S/C D962038	2010	Installed, (6)		Yes
RPV Head Vent	it Spool	AREVA & Target Rock	SOV-2 (s/n 6)	N/A	60040020-0040	S/C D962038	2010	Installed, (6)		Yes
RPV Head Ven	nt Spool	AREVA & Target Rock	SOV-1 (s/n 7 & 8)	N/A	60040021-0010	S/C D962038	2010	Installed, (5)		Yes
RPV Head Ven	nt Spool	AREVA & Target Rock	SOV-6 (s/n 9&12)	N/A	60042280-0010	RHV Spool	2010	Installed, (4)		Yes
RPV Head Vent	nt Spool	AREVA & Target Rock	SOV-4 SOV-5	N/A	60042281-0010	RHV Spools	2010	Installed, (4)		Yes
RPV Head Vent	nt Spool	AREVA & Target Rock	SOV-6 (s/n 9&12)	N/A	60047412-0010	S/C D967012	2010	Installed, (5)		Yes
RPV Head Ven	nt Spool	AREVA & Target Rock	SOV-6 (s/n 9)	N/A	60047412-0050	S/C D967012	2010	Installed, (6)		Yes
RPV Head Ven	nt Spool	AREVA & Target Rock	SOV-6 (s/n 12)	N/A	60047412-0070	S/C D967012	2010	Installed, (6)		Yes
78-322SL RCS-2-802		ANVIL Anchor Darling	38796 ** 9810-3/70	N/A N/A	60049529-0200 64005549-0200	Line-63-1" Line-2998-4"	2003 1993	Installed, (7) Installed, (8)	- - - -	Yes No
									岸	
									H	
7. Remarks	(7)	Replaced A/D snul	relding, (5) Replace ober with an ANVIL of Compliance attac	snubber, (8)					[]	

# FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUMBERS PUMPS OR VALVES" As Required by the Previsions of the ASME Code, Section III, Div. 1

11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		n <u>Valves, înc.</u> Name and Address of	M Certificate He	ddee\			Parkiting()
		ic Gas & Elect lame and Address of Pu	whates on Chemical				
	10	ablo Canyon Pw					
Pump o	r Valve	Valve	Nominal I	nlet Size3	24 Out	llet Sizo3	/4
		Certificate Holder's		1**	1641/		f11117111
٤	Series No.	Serial	Registration	(d) Drawing	_	(I) Nat'l.	(g) Ye
	or Type	No.	No.	No.	(e) Class	Bd. No.	Built
1)	17070N-11SW	TA3407	N/A	17070	1	N/A	1994
[2]		Thru TA3410		Rev. A			
(3)		TA3410				The same of the sa	
(4) _						**************************************	-
(5)							
(6) _ (7) _		V					·
(7) (8)							to a function of the section of the
(9) _							**************************************
(10)							
		om 44 b					
	Packless Val			ch equipment was o	·	4 Pcs. )	
Cold Wa		Pressure) 4100 psi at		°F or Valve F	ressure Class	1700	
Cold Wo	(forking Pressure e Retaining Pieces	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		ks
Cold Wo	orking Pressure e Retaining Pieces  Mark No.		100°F.	F or Valve f	· · · · · · · · · · · · · · · · · · ·	1700 Remar	
Cold Wo	orking Pressure e Retaining Pieces  Mark No.	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
Cold Wo	orking Pressure e Retaining Pieces  Mark No.	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
Cold Wo	orking Pressure e Retaining Pieces  Mark No.	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
Cold Wo	orking Pressure e Retaining Pieces  Mark No.	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
Cold Wo	orking Pressure e Retaining Pieces  Mark No.	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
Cold Wo	orking Pressure e Retaining Pieces  Mark No.	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
Cold Wo	orking Pressure e Retaining Pieces  Mark No.	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
Cold Wa	orking Pressure e Retaining Pieces  Mark No.	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
Cold Wo	orking Pressure e Retaining Pieces  Mark No.	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
Cold Wo	orking Pressure — e Retaining Pieces  Mark No.  ings N/A	4100 psi at	100°F.		· · · · · · · · · · · · · · · · · · ·		
(a) Casti	orking Pressure — e Retaining Pieces  Mark No.  ings N/A	4100 psi at	ioo°f.		clurer		
(a) Casti	orking Pressure — Retaining Pieces  Mark No.  Ings N/A	Material S	ioo°f.	Manufac	clurer	Remark	
(a) Casti	orking Pressure — Retaining Pieces  Mark No.  Ings N/A	Material S	ioo°f.	Manufac	clurer	Remark	
(a) Casti	orking Pressure — Retaining Pieces  Mark No.  Ings N/A	Material S	ioo°f.	Manufac	clurer	Remark	
(a) Casti	orking Pressure — Retaining Pieces  Mark No.  Ings N/A	Material S	ioo°f.	Manufac	clurer	Remark	
(a) Casti	orking Pressure — Retaining Pieces  Mark No.  Ings N/A	Material S	ioo°f.	Manufac	clurer	Remark	
(a) Casti	orking Pressure — Retaining Pieces  Mark No.  Ings N/A	Material S	ioo°f.	Manufac	clurer	Remark	

(10/77)

This form (E00037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

93424

<sup>(1)</sup> 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.



160 Frenchtown Rd. Precision Park North Kingstown, RI 02852 QA (401) 886-3030 QA (401) 886-3105 Fax (401) 886-3024

#### CERTIFICATE OF COMPLIANCE

January 30, 2012

Page 1 of 2

Pacific Gas & Electric Diablo Canyon Power Plant Avila Beach, CA 93424

Reference: P.O.# 3500932065 Rev.0

Anvil S.O.#41-105400

Item Nos.:

See attached

We Anvil International, LP dba Anvil EPS certify that the material supplied on the referenced order complies with the applicable requirements of ASME Section III, Subsection NF Class 1, 2001 Edition, 2003 Addenda, ASME Section II,

DRS 3306 Rev.2, PE-188-5 Rev.0 and the referenced purchase order. We further certify that seal material is of approved Ethylene-Propylene compounds and have been fully qualified for nuclear service in hydraulic snubbers.

Seals have a 5 year shelf life at 90 Degrees F starting at there 7/26/12 assembly date. In service seals Have a service life of twenty five (25) years at 157 Degrees F starting at their installation date.

We also certify to the best of our knowledge and belief that the contents of the report are correct and accurate and that all test results and operations performed by Anvil or our approved suppliers are in compliance with the applicable material specifications.

A marking code may be utilized to identify material specification, grade, class and heat treated condition. See reverse side for material identification codes.

No weld repair has been performed by Anvil or Anvil's suppliers.

All materials were manufactured and/or supplied in accordance with the referenced purchase order, the ASME approved Anvil EPS Quality Assurance Program/Manual, Second Issue Rev.4 dated 10/17/11, and the Anvil ASME NS Certificate of Accreditation Number N-3054 which expires 9/29/13.

Attachments: Functional Test Reports Serial# 38794 Thru 38802

ිව්ll Weis, QA Manager S.C. Miller, QC Group Leader

COC36

160 Frenchtown Rd. Precision Park North Kingstown, RI 02852

QA (401) 886-3030 QA (401) 886-3105 Fax (401) 886-3024

#### CERTIFICATE OF COMPLIANCE

January 30, 2012

Page 2 of 2

Pacific Gas & Electric Diablo Canyon Power Plant Avila Beach, CA 93424

Reference: P.O.# 3500932065 Rev.0

Anvil S.O.#41-105400

#### Item Nos.:

- 1, FIG3307N 1/2k x 4" W = 6 5/16", CPS = 2 11/16", DESC# D964216

  2, FIG3307N 1k x 4" W = 8 3/8", CPS = 3 5/16", DESC# D964217

  3, FIG3307N 1/4k x 4" W = 45 5/16", CPS = 3 3/16"", DESC# D964218

  4, FIG3307N 1/4k x 4" W = 35 1/16", CPS = 2 9/16", DESC# D964219

  5, FIG3307N 1/4k x 4" W = 27 13/16", CPS = 2 11/16", DESC# D964220

  (38796)

  6, FIG3307N 1/2k x 4" W = 22 1/8", CPS = 2 3/16", DESC# D9642221
- 7, FIG3307N 1k x 4" W = 32 %, CPS = 2 1/16", DESC# D964222 \( \)
- 8, FIG3307N 1/4k x 4" W = 10 3/8", CPS = 2 11/16", DESC# D964223
- 9, FIG3307N 1/4k x 4" W = 29 3/16", CPS = 2 9/16", DESC# D964224

Bill Weis, QA Manager S.C. Miller, QC Group Leader COC36

1. Owner	Pacific Gas and El	ectric Company					ī	Date	5/20/2013
-		n Francisco, CA 9	4106					-	1 of 1
-	, , Beare Street, St	Trancisco, Cir y	1100					-	
2. Plant	Diablo Canyon Pov	wer Plant					١	Unit	2
_	P.O. Box 56, Avila				·				
_						****	The state of the s		
3. Work Perfo	rmed by	Owner							
	•	See Abo	ve			Re	pair Org. P.O.	No., Jo	ob No., etc.
	•								
4. Identification	on of System	Chem	ical and Volu	me Control Syster	n (08)				
	•				<u></u>				
5. (a) Applica	ble Construction Co	ode (See R/I	R Plans)	Edition,	Addenda,	C	Code Case,		
(b) Applica	ble Edition of Secti	on XI Utilized for R	epair / Replace	ement Activity -	2001 Ad	denda,	02 / 03		
(c) Applica	ble Section XI Code	e Case(s), None							
6. Identification	on of components.								
							<del>                                     </del>		
					0.0			Pressure	ASME
Name of	Name of	Manufacturer Serial	National	Work Order	Other Identification	Year	Corrected, Removed,	Sur	Code
Component	Manufacturer	No.	Board No.	No.	Line No	Built	or Installed	e Test	Stamped (Veg or No.)
								st	(Yes or No)
78-419SL	ANVIL	38797 **	N/A	60049448-0200	Line-57-1.5"	2009	Installed (1)		Yes
78-278SL	ANVIL	38795 **	N/A	60049528-0200	Line-61-2"	1987	Installed (1)		Yes
78-336SL	ANVIL	38802 **	N/A	60049530-0200	Line-403-2"	1985	Installed (1)		Yes
CVCS-2-8487B	Velan Valve	061026-4 *	N/A	60054100-0010	Line-71-2"	2008	Installed (2)a	M	Yes
CVCS-2-8463A CVCS-2-8402A	ITT Grinnell Velan Valve	N/F 74BQP *	N/A N/A	60055132-0030 68022222-0010	Line-70-2" Line-48-3"	1985 1985	Installed (3)b Installed (4)c	$\boxtimes$	No No
CVCS-2-8402B	Velan Valve	75BQP *	N/A	68022224-0010	Line-48-3"	1985	Installed (4)c		No
0.10020							· · · · · · · · · · · · · · · · · · ·		
7. Description of	f Work (1)	Replaced A/D snubbe	er with an ANVII	snubber, (2) Replaced	valve, (3) Replace	d Bonnet,	(4) Replaced val	ve by v	welding,
8. Tests Conduc	ted: Hyd	drostatic	Pneumatic	☐ Nominal	Operating Pressure		Exempt		
	Othe			rmks PSIG	-	e rmks	°F		
			•		•				
9. Remarks				id Storage tank head pre					
				d temperature was ambie					
	* = Manufacturer	s Code Data Report at	tached. ** AN	VIL Certificate of Comp	pliance attached.				
			CERTIFICA	TE OF COMPLIA	NCE				
I certify that the	statements made in the	e report are correct and		ms to the requirements of		Section X	I		
Type Code Sym	ool Stamp	NA C	Certificate of Autl	norization No.	N/A	Expiration	on Date N/A	A	
0.	. )			Marketon-		r.		1/	2/12
Signe (Owner or Owner)		Patr	icl/Nugent		Engineering M (Title)			- /	Date)
(Owner or Own	i sbesignee)	Tatt	ich vugent		(Title)			,	Date)
			/ CERTIFIC	ATE OF INSPECTI	ON				
I, the undersigned	d, holding a valid con	mission issued by the	National Board o	of Boiler and Pressure Ve	essel Inspectors and	the			
State or Provinc	e of Cal	lifornia, A	And employed by	<u> </u>	HSB-CT	of _	. Har	tford, C	T
		oed in this Owner's Rep			05 , 2011	to		/22	, 2013 ,
				d examinations and take					
				this certificate, neither to is Owner's Report. Further					
				sing from or connected v		•			
S	DA.	_	Inspector	1	a la Co	nmission	s CA 1828 - NE	0000	ANIC
-	Vanary D. Vi			6-3-2 (Date)	2013				
Noto: Santa	Kenny D. Kim	a afliata alestaban 1	(Title)	, ,		•	Province, Natio		•
				used provided (1) size is ets is recorded at the top		шоннацю	n ni items i tiilot	gn o oi	i uns report is



160 Frenchtown Rd. Precision Park North Kingstown, RI 02852 QA (401) 886-3030 QA (401) 886-3105 Fax (401) 886-3024

#### CERTIFICATE OF COMPLIANCE

January 30, 2012

Page 1 of 2

Pacific Gas & Electric Diablo Canyon Power Plant Avila Beach, CA 93424

Reference: P.O.# 3500932065 Rev.0

Anvil S.O.#41-105400

Item Nos.:

See attached

We Anvil International, LP dba Anvil EPS certify that the material supplied on the referenced order complies with the applicable requirements of ASME Section III, Subsection NF Class 1, 2001 Edition, 2003 Addenda, ASME Section II.

DRS 3306 Rev.2, PE-188-5 Rev.0 and the referenced purchase order. We further certify that seal material is of approved Ethylene-Propylene compounds and have been fully qualified for nuclear service in hydraulic snubbers.

Seals have a 5 year shelf life at 90 Degrees F starting at there 7/26/12 assembly date. In service seals Have a service life of twenty five (25) years at 157 Degrees F starting at their installation date.

We also certify to the best of our knowledge and belief that the contents of the report are correct and accurate and that all test results and operations performed by Anvil or our approved suppliers are in compliance with the applicable material specifications.

A marking code may be utilized to identify material specification, grade, class and heat treated condition. See reverse side for material identification codes.

No weld repair has been performed by Anvil or Anvil's suppliers.

All materials were manufactured and/or supplied in accordance with the referenced purchase order, the ASME approved Anvil EPS Quality Assurance Program/Manual, Second Issue Rev.4 dated 10/17/11, and the Anvil ASME NS Certificate of Accreditation Number N-3054 which expires 9/29/13.

Attachments: Functional Test Reports Serial# 38794 Thru 38802

র্ভামি Weis, QA Manager S.C. Miller, QC Group Leader

COC36



160 Frenchtown Rd. Precision Park North Kingstown, RI 02852 QA (401) 886-3030 QA (401) 886-3105 Fax (401) 886-3024

#### CERTIFICATE OF COMPLIANCE

January 30, 2012

Page 2 of 2

Pacific Gas & Electric Diablo Canyon Power Plant Avila Beach, CA 93424

Reference: P.O.# 3500932065 Rev.0

Anvil S.O.#41-105400

ti Ni .	
<u>!tem_Nos.:</u>	TIGGGGTN 4/01 4" NA 0.5/46" ODG = 2.41/46" DESC# D06/216
1,	FIG3307N 1/2k x 4" W = 6 5/16", CPS = 2 11/16", DESC# D964216
2,	FIG3307N 1k x 4" W = 8 3/8", CPS = 3 5/16", DESC# D964217
3,	FIG3307N $1/4k \times 4^{\circ}$ W = 45 5/16". CPS = 3 3/16", DESC# D964218 $^{\circ}$
4,	FIG3307N $1/4k \times 4^{\circ}$ W = 35 $1/16^{\circ}$ . CPS = 2 $9/16^{\circ}$ DESC# D964219 $\checkmark$ (38/75)
5,	$\Gamma$
6,	FIG3307N 1/2k x 4" W = 22 1/8", CPS = 2 3/16", DESC# D9642221 (38604)
7,	FIG3307N 1k x 4" W = 32 $\frac{3}{4}$ ", CPS = 2 1/16", DESC# D964222 $\frac{1}{4}$
8,	FIG3307N 1/4k x 4" W = 10 3/8", CPS = 2 11/16", DESC# D964223 (3879 /)
9,	FIG3307N 1/4k x 4" W = 29 3/16", CPS = 2 9/16", DESC# D96 $\overline{4224}$ $\checkmark$

Bill Weis, QA Manager S.C. Miller, QC Group Leader COC36

DATA PACKAGE NO. 061026

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

1.	Manufactured an	d certified	d byV							L.QUEE	EC CAI	NADA	H4M1T6
2.	Manufactured fo	rPacific Ga	as&Electri				N Certific			PO.box	.56 A	vila	Beach,
					(name an	d address	s of purchas	ser)					
3.	Location of ins	tallation [	Diablo Car					s N.V	W of	Avila	Beach	CA	93424 U
4.	Model No., Seri	es No., or	Type: PI		(name an rawin			-N34		Rev _A	_ CRN		N/A
5.	ASME Code, Sect	ion III, Di	ivision 1:	1	989		NON	E		1			N/A
	Pump or valve _		_ Nominal	(edi	tion) size		(addenda o 2		Outle	(class) t size	1	(Co 2	de Case no.)
7.	Material: Body	SA-182, F3	316 Bonne	t SA-	182,		in.) Disk	UNS	-N996	44	(in.) Bolt:		N/A
	_			-			•					•	
	(a)	(b)			(c)				(d)				(e)
	Cert.	Nat			Body				Bonne	_			Disk
	Holder's	Boar	= "		Seria	1		8	Seria	1		8	Serial
	Serial No.	No	•		No.				No.				No.
	061026-1	N/2	A	H/C:	MMRM	U1	H,	/C:	1DOA	· · · · · · · · · · · · · · · · · · ·	H/	c:	2CDV
	061026-2	N/2		H/C:				/c:	1DOA			'C:	2CDV
_	061026-3	N/2	***************************************	H/C:				/c:	1DOA			<u>′C:</u>	2CDV
	061026-4	N/2		H/C:				/C:	1DOA			<u>/C:</u>	2CDV
	061026-5 061026-6	N/2		H/C:				/C: /C:	1DOA			<u>/c:</u> /c:	2CDV 2CDV
	061026-7	N/2		H/C:				/c:	1DOA			c:	2CDV
								, <u>u.                                    </u>			/	<u> </u>	
			<del></del>										
					<del></del>								
·					<del></del>								
												<del></del>	
													· · · · · · · · · · · · · · · · · · ·
					· ·								***************************************
				-				<del></del>					

(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 LAW DRIVE, Box 2300, Fairfield, NJ 07007-2300.

FORM NPV-1 (Back - Pg. 2 of \_\_2\_)

PAGE 3 OF 26

			D DCLLGE NO. O	2020
8. Design conditions 6430	psi 100	oF or valve pressu	re class 2680	(1)
(pressure)	(temperature)			_ ()
9. Cold working pressure 6430	psi at 100°F			
10. Hydrostatic test 9650 p	si. Disk different	ial test pressure _	7075	psi
11. Remarks: MATERIALS MEET ASME	SECTION II EDITIO	N: 1989 ADDENDA:	NONE	
	•			
	CERTIFICATE OF DES	TCN		
	CERTIFICATE OF DES	1 GM		1
Design Specification certified by	M. LAVIGNE	P.E. State QUE	Reg. no. 40052	- 1
Design report certified by				
A THE STATE OF THE				
Ċ	ERTIFICATE OF COMPL	IANCE		
			•	
We certify that the statements made				
valve conforms to the rules for cor N Certificate of Authorization No.				
***	N-2/3/-1	Expires	APR 20,2007	1
Date NOV 2 9 2006 Name VEI	AN INC.	Signed \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(U/1692)	.
И)	Certificate Holder)	(authorized r	epresentative)	
				,
			<u> </u>	
CI	ERTIFICATE OF INSPE	CTION		
			n	
I, the undersigned, holding a vali Pressure Vessel Inspectors and the				
REGIE DU BATIMENT OF QUEBE	C have in	spected the numb. of	r valve described	in
this Data Report on November 30	296, and stat	e that to the best	of my knowledge	and
belief, the Certificate Holder has	constructed this	pump, or valve, in	accordance with	the
ASME Code, Section III, Division 1.	!			1
De digning this couldings and	haw the immedia-	non his ammlass	malesa ana	1
By signing this certificate, neit expressed or implied, concerning t	<del>-</del>		_	- 1
neither the inspector nor his employed				
or property damage or a loss of any				
/	10	JP.I	FACHINETŤI QC#1	1381\$
Date Nov. 30/2×16 signed CO		ssions QUEBEC	MIDAYSTERY NUMBER	_(Y)_
(Authorized	Inspector)	(Nat'l. Bd. (incl. endo	rsements) and state of prov. an	d of
no.)				

(1) For manually operated valves only.

PAGE 4 OF 26

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

•				Pg. 1 of
1. Manufactured and certified by	lowserve Corporation,	1900 South Saunders St. Rale	eigh, NC 27603	
2. Manufactured for Pacific Gas 8	& Electric Company, P.			
3. Location of installation Diablo				
5. Location of instanation	· · · · · · · · · · · · · · · · · · ·	(name and ad	dress)	
4. Model No., Series No., or Type <sup>32</sup>	X2X3,1816# Y-GLOBE	Drawing 06-38136-01	RevA	CRN N/A
5. ASME Code, Section III, Division	1: 1989	NO NO	2	N/A
	(edition)	(addenda date)	(class) ·	(Code Case no.)
6. Pump or valve	Nominal inlet size	Outlet size	3 (in.)	
7. Material: (a) valve Body SA351-CF8M	1 Bonnet SA479-316	SA479-S34700 W/ NOREM Disk Bolt	ing N/A	
(b) pump Casing	Cover	Bolting	.mg <u>.v </u>	
(a) Cert. Holder's Serial No.	Nat'l Board No.	(c) Body/Casing Serial No.	(d) Bonnet/Cover Serial No.	(e) Disk Serial No.
72BQP	N/A	GCWA-10X400-1 .	33617-2-7	20654-1
73BQP	N/A	GCWA-10X400-2	33617-2-8	20654-2
74BOP	N/A .	GCWA-10X400-3	33617-2-9	. 20654-3
75BQP	N/A	GCWA-10X400-4	33617-2-10	20654-4
	N/A	GCWA-10X400-5	33617-2-11	20654-5
76BQP	19/4	GCWA-10X-100-3	33017-2-11	20034-3
	- Anna anna anna anna anna anna anna ann		•	
	Stranger of the Stranger of the Stranger		a	,
manage of a second and a second a second and			den the control of the obtains against as an as again	THE REAL PROPERTY CONTRACTOR CONT
		-0+- /		, the desire a second of the

<sup>\*</sup> Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

### FORM NPV-1 (Back — Pg. 2 of \_\_\_\_)

Certificate Holder's Serial No. 12BQP-70	P
8. Design conditions 2735 psi 597 °F or valve pressure class 1816	
9. Cold working pressure 4358 psi at 100°F	
10. Hydrostatic test 6550 psi. Disk differential test pressure 4794	psi
11. Remarks: S.O. 57878  GASKET RETAINER - MAT'L: SA564-630-1100, HEAT: BHS, S/N: 1 THRU 5	
CERTIFICATION OF DESIGN	
	590
Design Specification certified by N/A Reg. no. M-166  P.E. State CA Reg. no. M-166  P.E. State N/A Reg. no. N/A	
CERTIFICATE OF COMPLIANCE	
We certify that the statements made in this report are correct and that this pump or valve conforms to the rules for construction	of the
ASME Code, Section III, Division 1.  N Certificate of Authorization No N-1562 Expires Expires 11-26-12	
N Certificate of Authorization NoExpiresExpires	
Date 8/6/10 Name Flowserve Corporation Signed (authorized representative)	
(N Certificate Holder) (authorized representative)	
CERTIFICATE OF INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or P	rovince
of Hartford, CT have inspected the pump, or valve, described in this Data Re	
in accordance with the ASME Code, Section III, Division 1.	
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component de	scribed
in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property of	damage
or a loss of any kind arising from or connected with this inspection.	
Date Signed Signed Commissions Commissions (Nuthorized Nuclear Inspector) Commissions (Nuthorized Nuclear Inspector)	no.]

1. Owner	Pacific Gas and El		4106					 Date _ Sheet _	5/20/2013 1 of 1
2. Plant	Diablo Canyon Po	wer Plant						- Unit	2
	P.O. Box 56, Avila							-	
3. Work Per	formed by	Owner							
		See Abo	ove			Re	pair Org. P.O.	No., Jo	ob No., etc.
4. Identifica	ion of System		Safety Inject	tion System (09)					
(b) Appli	cable Construction Cocable Edition of Section XI Code	ion XI Utilized for R			Addenda, Addenda, Addenda	C Idenda,	ode Case, 02 / 03		
6. Identifica	tion of components.								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
72-83SL	Pacific Sientific	13632	N/A	60048296-0300	Line-237-6"	1985	Installed, (1)		Yes
SI PP 2-2	Pacific Pumps	JN51890-01	N/A	60055912-0010	SIP2	1996	Installed, (2)		No
<u> </u>								H	
7. Description	of Work (1)	Replaced Snubber, (2	2) Replaced Seal	cover bolting,					
<ul><li>8. Tests Cond</li><li>9. Remarks</li></ul>	ucted: Hy Othe	drostatic	•	□ Nomina rmks PSIG	ll Operating Pressur Test Temp. <u>s</u>	re   ee rmks	Exempt		
I certify that the	e statements made in th					, Section X		A	
-	ned	R D.1			Engineering 1			6/3	/13
Owner or Ow	ner'sDesignee)	Patr	ick Hugent		(Title	:) ·			Date)
State or Provin		lifornia, Z	National Board o	]	essel Inspectors an HSB-CT	of _		tford, C	
and state that t accordance wi implied, conce	the components described the best of my knowle the the requirements of the trining the examinations the transportation of the transp	dge and belief, the Owne ASME Code, Section and corrective measures	ner has performe n XI. By signing as described in thi	d examinations and take this certificate, neither s Owner's Report. Furt	the Inspector nor h thermore, neither th	is employe ne Inspecto	ed in the Owner r makes any war	ranty, e	xpressed or
	9 9 Ki	m	Inspector	6-3- (Date)	20/3 C		S CA 1828 - NI		
	Kenny D. Kim nental sheets in the form ch sheet, and (3) each sl			ised provided (1) size is	s 8 1/2 x 11 in., (2)	-	Province, Nation in items 1 through		

1. Owner	Pacific Gas and El	ectric Company in Francisco, CA 9	4106					Date Sheet	5/20/2013 1 of 1
2. Plant	Diablo Canyon Po	wer Plant						Unit	2
-	P.O. Box 56, Avila							-	
3. Work Perf	ormed by	Owner							
		See Abo	ove			Re	pair Org. P.O.	No., J	ob No., etc.
4. Identificat	on of System	Re	sidual Heat F	Removal System (	10)				
(b) Applic	able Construction C able Edition of Sect able Section XI Cod	ion XI Utilized for R		·	Addenda,  2001 Add	_ C denda,	Code Case,		·
6. Identificat	on of components.								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
RHR-2-8728E	Crane Co.	N/F	N/A	60027069-0010	Line-113-8"	1988	Installed, (1)		No
								H	
<ul><li>7. Description</li><li>8. Tests Condu</li><li>9. Remarks</li></ul>		drostatic	Pneumatic	□ Nomina rmks PSIG	nl Operating Pressure Test Temp. se	e 🗆 e rmks	Exempt  oF		
I certify that th Type Code Syr		-		TE OF COMPLIA ms to the requirements horization No.		Section X Expiration		Ά	
Sign		Pa D	1		Engineering M			6/3	3/13
(Owner or Own	er'sDesignee)	Patr	ick Nygent		(Title)				Date)
State or Provin have inspected and state that to accordance wit implied, conce	the components descripthe best of my knowled the requirements of the training the examinations	bed in this Owner's Redge and belief, the Owner ASME Code, Section and corrective measure	National Board of And employed by port during the perner has performe on XI. By signing the state of the stat		HSB-CT //05 , 2011 en corrective measure the Inspector nor his thermore, neither the	of to to es describes employed Inspecto	bed in the Owner or makes any war	ranty, e	, 2013 , rt in xpressed or
K.	Just in	<u>-</u>	Inspector	i,			s CA 1828 - N	3 9990	A.N.I.C
				(Date)  used provided (1) size is ets is recorded at the top	s 8 1/2 x 11 in., (2) i	•	Province, Nation in items 1 thro		*

	ECO 100 100 100 100 100 100 100	200 Em pay, para 200 Dec Disc Emis pay in		- 200 200 100 100 100 100 100 100 100 100					
-	Pacific Gas and El							Date _	
	77 Beale Street, Sa	n Francisco, CA 9	4106				S	heet _	1 of 1
2. Plant	Diablo Canyon Po	wer Plant						Unit	2
	P.O. Box 56, Avila	Beach, CA 93424						_	
3. Work Perfo	armad by	Owner							
5. WOIR FEIR	inled by	See Abo	)Ve			Re	pair Org. P.O.	No. J	ob No., etc.
		See Ab	, , , , , , , , , , , , , , , , , , ,				pun 018. 1101		70 1 (01, 000)
4. Identificati	on of System	(	Containment	Spray System (12	)				
5 (a) Applic	able Construction C	ode (See R/	R Plane)	Edition,	Addenda,	(	Code Case,		
		ion XI Utilized for F			-		02 / 03		
	able Section XI Cod					ŕ			
6 Idantificati	an af aammananta								
o. identificati	on of components.								
								Pro	ASME
Name of	Name of	Manufacturer Serial	National	Work Order	Other Identification	Year	Corrected, Removed,	Pressure	Code
Component	Manufacturer	No.	Board No.	No.	Line No	Built	or Installed	e Test	Stamped (Yes or No)
								f	(163 01 110)
CS-2-9006B	Aloyco Div / Walworth Co	70-A63-516	N/A	60035907-0030	Line-326-8"	1985	Installed, (1)		No
414-60	PG&E	N/A	N/A	68021795-0030	Line-270-10"	1985	Installed, (2)		No
414-65	PG&E	N/A	N/A	68021796-0030	Line-271-10"	1985	Installed, (2)		No
								H	
		X.							
7. Description	of Work (1	) Replaced body/bonne	et bolting, (2) Mo	dified support,					
•			2, ( )						
			10-02-03						
8. Tests Condu	cted: Hy	drostatic	Pneumatic [	☐ Nomina	l Operating Pressure	: 🗆	Exempt		
	Oth	er 🔲	Pressure see	rmks PSIG	Test Tempse	e rmks	°F		
9. Remarks									
<u></u>									
			CERTIFICA	TE OF COMPLIA	NCE				
		-		ms to the requirements					
Type Code Sym	ibol Stamp	N/A	Certificate of Auth	iorization No.	N/A	Expiration	on Date N/	A	-
Sign		fe 2.	7 /		Engineering M			6/3	<u> </u>
(Owner or Own	er'sDesignee)	Patr	ick Nagent		(Title)			(	Date)
				ATE OF INSPECT					
	•	•		f Boiler and Pressure V	-		II	461 C	ידיר
State or Province		lifornia, Abed in this Owner's Re	And employed by port during the pe		HSB-CT /05 , 2011	- of to		tford, C	, 2013
and state that to	the best of my knowle	edge and belief, the Ow	ner has performe	d examinations and take	en corrective measur	es descril	bed in the Owner'	s Repo	rt in
				this certificate, neither s Owner's Report. Furn					
				sing from or connected					
x-	58Kim	J	Inspector	6-3	-20/3 Cor	nmission	s CA 1828 - NE	3 9990	A.N.I.C
-/>	Kenny D. Kim		(Title)	(Date)	-20/3 Cor	(State or	Province, Natio	nal Bo	ard)
Note: Supplem	ental sheets in the form	n of lists, sketches, or c	lrawings may be ι	used provided (1) size is	s 8 1/2 x 11 in., (2) in				
included on eac	n sneet, and (3) each s	neet is numbered and the	ne number of shee	ets is recorded at the top	or this form.				

1. Owner	Pacific Gas and El	 ectric Company		. NOTE THE THE GOOD GAME BANK TOOK THE CO.				– – – Date	5/20/2013
		n Francisco, CA 9	4106					Sheet	1 of 1
2. Plant	Diablo Canyon Por P.O. Box 56, Avila							Unit _	2
2 Work Part				***************************************			400000		
3. Work Peri	offiled by	Owner See Abo	ove			Re	pair Org. P.O.	No., J	ob No., etc.
4. Identificat	ion of System		Spent Fuel l	Pool Cooling (13)					
(b) Applic (c) Applic	cable Construction C cable Edition of Sect able Section XI Cod	ion XI Utilized for F			Addenda, Add		dode Case,		
6. Identificat	ion of components.								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
SFS-2-8756	Crane Valve Services	N/F	N/A	60050641-0010	Line-154-10"	1986	Installed, (1)		No
								H	
<u></u>									
7. Description	of Work (1	) Replace Body/Bonne	t Bolting with 630	O mat'l,					
8. Tests Condu	•	drostatic   cr	Pneumatic   Pressure	□ Nomina PSIG	1 Operating Pressure Test Temp.	: 🗆	Exempt  or		
9. Remarks						270			<del></del>
I certify that th Type Code Syr		•		TE OF COMPLIA ms to the requirements of the requirement of the re		Section X Expiration		'A	
Sig	ned	Ro.	/		Engineering M	lanager		6/3,	113
(Owner or Own	ner'sDesignee)	Patr	ick Magent		(Title)			(	(Date)
State or Provin	ce of Ca	lifornia,	National Board o			the of	На	rtford, (	CT_
and state that to accordance wit implied, conce	h the requirements of the rning the examinations	dge and belief, the Owne ASME Code, Section and corrective measures	ner has performed on XI. By signing es described in thi	eriod 7.0 d examinations and take this certificate, neither s Owner's Report. Furthing from or connected	the Inspector nor his thermore, neither the	s employe Inspector	ed in the Owner r makes any war	ranty, e	xpressed or
	Been	2	Inspector	6-3- (Date)	2 <i>0/3</i> Cor	nmissions	CA 1828 - N	В 9990	A.N.I.C
				(Date) used provided (1) size is ets is recorded at the top	8 1/2 x 11 in., (2) ii	•	Province, Nation in items 1 thro		•

1. Owner	Pacific Gas and El	ectric Company in Francisco, CA 9	4106					Date heet	5/20/2013 1 of 2
2. Plant	Diablo Canyon Po	wer Plant					1	Unit	2
	P.O. Box 56, Avila	Beach, CA 93424						-	
3. Work Perfe	ormed by	Owner							
5. WORLTCH	лией бу	See Abo	ove			Re	pair Org. P.O.	No., J	ob No., etc.
4. Identificati	on of System	(	Component C	cooling Water (14)	)				
(b) Applic	able Construction C able Edition of Sect	ion XI Utilized for R		·	Addenda, Addenda, Addenda,	C denda,	Code Case,	-	
6. Identificati	on of components.								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
CCW Pump 2-3	Bingham Int'l	290296	N/A	60029035-0011	CCWP3	1985	Installed, (1)	$\boxtimes$	No
CCW Pump 2-3		290296	N/A	60029035-0031	CCWP3	1985	Installed, (2)	M	No
CCW Pump 2-1		290294 290294	N/A N/A	60033750-0030 60033750-0040	CCWP1 CCWP1	1985 1985	Installed, (2) Installed, (1)	$\boxtimes$	No No
72-57SL	ANVIL	38799	N/A	60047901-0200	Line-2342-3"	2009	Installed, (3)		Yes
<ul><li>7. Description of</li><li>8. Tests Condu</li><li>9. Remarks</li></ul>	cted: Hy Oth	) Replaced A/D snubbe	Pressure see		l Operating Pressure	e 🛭	Exempt  or		
I certify that the Type Code Syn	bol Stamp			TE OF COMPLIANT of the requirements of the requirement of the req		Expiration		4 /3/	//3
(Owner or Own		Patri	ck Nugent		(Title)			(	Date)
State or Province have inspected and state that to	the components descri the best of my knowle	lifornia, Abed in this Owner's Repedge and belief, the Ow	National Board o And employed by port during the pener has performe		essel Inspectors and HSB-CT /05 , 2011 en corrective measure	of to res describ	oed in the Owner'		, 2013 , rt in
implied, concer	ning the examinations	and corrective measure	s described in thi	s Owner's Report. Furt	hermore, neither the with this inspection.	e Inspecto			
	9/2Ke	m	Inspector	(Date)	20/3 Con	mmissions	s CA 1828 - NE	9990	A.N.I.C
				(Date) used provided (1) size is ets is recorded at the top	8 1/2 x 11 in., (2) i		Province, Nation in items 1 throu		•

1. Owner	Pacific Gas a		Company ncisco, CA 9410	)		10 to 100 per per top 100 per des 100 to 100 to 100 to 100	00 Et 10 10 40 A4 A4 A4	ten ted tid ten ter tro ten eur	Date Sheet	2	5/20/2013 of 2
	// Deale Str	eet, San Fra	iicisco, CA 9410	<del>,                                    </del>					Silect -		01
2. Plant	Diablo Cany		lant h, CA 93424	· · · · · · · · · · · · · · · · · · ·		* *************************************			Unit -		2
	F.O. DOX 50,	, Avna Beaci	II, CA 93424								
3. Work Per	formed by		Owner			The second secon			D 0 11	× 1 37	
			See Abov	e			Rep	air Org.	P.O. No.	, Job N	o., etc.
4. Identificat	ion of System		Compo	nent Cool	ing Water (14)						
(b) Applie	able Construct cable Edition of cable Section X	f Section XI			tion, ement Activity -	Addenda, A	ddenda,		Case,		<u> </u>
6. Identificat	ion of compon	ents.									
Name ( Compon		Name of anufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corre Remov Insta	ed, or	Pressure Test	ASME Code Stamped (Yes or No)
73-27S		Pacific Scientific	7839	N/A	60048297-0300	Line-2305-4"	1998	Install	ed, (4)		Yes
71-51S		ANVIL	38801	N/A	60049403-0200	Line-2304-4"	2004	Install	ed, (5)		Yes
78-8S		ANVIL	38794	N/A	60049405-0200	Line-3040-1"	2004	Install			Yes
412-645	SL	ANVIL	38798	N/A	60049449-0200	Line-2300-3"	2003	Install	ed, (3)		Yes
										Ц_	
									1		
										Ħ	
			:								
										$\dashv$	
										旹	
	<del></del>									H	
7. Remarks			per with an ANVIL		Replaced snubber,	,					
	(5) Repla	nced PSA snub	ber with an ANVIL	snubber,							

1. Owner	Pacific Gas and El 77 Beale Street, Sa	ectric Company n Francisco, CA 9	4106					Date heet	5/20/2013 1 of 1
2. Plant	Diablo Canyon Po	wer Plant						Unit _	2
_	P.O. Box 56, Avila	Beach, CA 93424							
3. Work Perf	ormed by	Owner		_					
		See Abo	ove			Re	pair Org. P.O.	No., J	ob No., etc.
4. Identificat	on of System		Makeup	o Water (16)					
(b) Applic	able Section XI Cod	ion XI Utilized for R			Addenda, Ad		ode Case,		
6. Identificat	on of components.		www.			<i>**</i>			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
MUWTP 0-1	Ingersoll-Rand	1171-4169	N/A	60035397-0011	MUWTP1	1985	Installed, (1)		No
	·			:					
7. Description	of Work (1	) Replaced mech seal g	land plate,						
8. Tests Condu	cted: Hy	drostatic 🔲	Pneumatic [	□ Nomina PSIG	l Operating Pressure Test Temp.	: □ 	Exempt  or		
9. Remarks				-					
I certify that the	e statements made in th	e report are correct and		TE OF COMPLIA		Section X			
Type Code Syn	nbol Stamp	N/A S	ertificate of Auth	norization No.	N/A	Expiratio	on Date N/	A //	
Sign (Owner or Own		K 2.1	ick Nugent		Engineering N (Title)			6/3	113
(Owner or Own					(11116)				(Date)
I, the undersign State or Provin		•		ATE OF INSPECT  f Boiler and Pressure V		the of	Har	tford, (	CT
have inspected and state that to accordance wit implied, concer	the components describe the best of my knowled the requirements of the ning the examinations	bed in this Owner's Redge and belief, the Owne ASME Code, Section and corrective measure	port during the perner has performed in XI. By signing as described in this		/05 , 2011 en corrective measur the Inspector nor hi thermore, neither the	to to res describ s employe e Inspector	oed in the Owner r makes any warn	1/22 s Repo	, 2013 , rt in xpressed or
X	o I Ka	We_	Inspector	6-3	-20/3 Co	mmissions	S CA 1828 - NE	9990	A.N.I.C
				(Date) used provided (1) size is ets is recorded at the top	s 8 1/2 x 11 in., (2) i				

1. Owner	Pacific Gas and El- 77 Beale Street, Sa	ectric Company n Francisco, CA 9	4106					Date Liheet	5/20/2013 1 of 1
2. Plant	Diablo Canyon Pov	wer Plant						Unit	2
	P.O. Box 56, Avila							•	
3. Work Perf	formed by	Owner							
		See Abo	ove			Re	pair Org. P.O.	No., J	ob No., etc.
4. Identificat	ion of System		Saltwate	r System (17)		_			
(b) Appli	eable Construction Co cable Edition of Section able Section XI Code	ion XI Utilized for R			Addenda, Add	C denda,	ode Case,		
6. Identificat	ion of components.								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
CCWHE 2-2	Yuba	16406	N/A	60039884-0020	CCWHE2	1971	Installed, (1)		Yes
ASW PP 2-1 SW-2-185	Bingham Int'l Anchor Darling	290600 E3418-1-4 *	N/A N/A	60050239-0010 60054191-0010	ASWP1 Line-687-24"	2005 1998	Installed, (2) Installed, (3)		No No
ASW PP 2-1	Bingham Int'l	290600	N/A	64079301-0300	ASWP1	2005	Installed, (4)		No
ASW PP 2-1	Bingham Int'l	290600	N/A	64095193-0300	ASWP1	2005	Installed, (4)		No
<ol> <li>Description</li> <li>Tests Condu</li> <li>Remarks</li> </ol>	(3)	Replace Valve, (4) R	Pneumatic Pressure see	Nominal	Operating Pressure		Exempt	nd nuts	,
	* = Manufacturer	's Code Data Report at	tached.						
I certify that th		-		TE OF COMPLIANT of the requirements of the requirement of the req		Section X Expiration		A	
Sign	ned	R D. 1	1/1	•	Engineering M	1anager	6/	3/1:	?
(Owner or Own	ner'sDesignee)	Patr	ick Nugent		(Title)			(	(Date)
		and the state of the state of		ATE OF INSPECTI					
State or Provin			National Board of And employed by	of Boiler and Pressure Ve	esser inspectors and HSB-CT	of	Hai	tford, (	T
	the components describ				05 , 2011	to		4/22	, 2013 ,
and state that to accordance wit implied, conce	o the best of my knowle th the requirements of the rning the examinations	edge and belief, the Owne ASME Code, Section and corrective measure	mer has performe in XI. By signing as described in the	d examinations and take this certificate, neither is Owner's Report. Furt sing from or connected v	the Inspector nor hi hermore, neither the with this inspection.	s employe Inspecto	r makes any war	ranty, e	xpressed or
	/_/_	in	Inspector	6-3-3 (Date)	20/3 Con		s CA 1828 - NI		
				(Date) used provided (1) size is ets is recorded at the top	8·1/2 x 11 in., (2) i	•	Province, Nation in items 1 throu		•

Part of the second						
COMMAN AND	44 4 4 4 4	The Ate un	RESE PATA		BH MT SAR BL	albe co valves
	Act is final	REPLACED EN		AND CALL SOLD	CARCERSON C. C.	MILE ALL ALPARE.
			14000001	V 444 M 34 1		imps or valves. . 1
	An One	melmod has that f	leasulatane all bi	an ROSSE Pada	Residen M Ph	. 4
			TENERHOUSENEUS EST LI	in righting event	COUNTRY SEE FEE	. 1

I. Manufactured by Ancho	Name and Address of N C	ertificate Ho	ider)		41 17 61	025
	da Cee E Elanemin	CA P II	MAY //bil	there exist an end of		449 4 9
2. Manufactured for PALLE.  3. Location of Installation 8	5 Miles konthike	st of Avi	la Beach, CA	93424 (D	lablo Can	yon
	Name and Address	Nominal In	let Size	13g" Ou	eine Cien	14
or Laurib Or Aside management	Manage Line 1	. 1101111111111111	(lr	ich)	(18t 9128 mmm	line
(a) Model No., (b) N Series No.		Canadian Egistration	(d) Drawing		(f) Nat'l.	(g)
or Type	No.	No.	No.	(e) Cless	Bd. No.	18.
•	Trans.				eter positramentalismente entr	
(1) Flex Wedge Gat	e/E-3418-1-4	N/A	W8422102 R/	3	N/A	1
(2)						Marie Marie
4						
(6)						
(6)					The volume is a supplemental transfer of the	
(7)		of the the same of the last of		elbazili ili diliya dika peliku kandinga.	ingstructed and analysis and	17-m.t
(8)			The grant and the grant and the grant and the same of the same the		and the first work of the particular for the same of	econtributes
(10)						
		4 11 11	1.1		AN A SALES OF THE PARTY OF THE	e e de superior de septe
5. 1-1/2"	150# FW Gate Val					-
	to nestqueets term	ååunjåå per ment	a editiowew mee q	<del>seig</del> ned)		
			-		management of the second contract of the seco	The same of the sa
***************************************	A STATE OF THE PROPERTY OF THE					
	226	1/0			150	
6. Design Conditions	226	140	ff or Valve P	raggira Class	150	
	(Pressury)	empereture)	- F or Valve P	rėššiise Class	150	
7. Cold Working Pressure	(Pressury)	empereture)	- F or Valve P	rąggira Claca	150	-Martingania
	(Pressury)	empereture)	*F or Valve P	reggiire Class	150	<del>vilner til Gestala</del>
7. Cold Working Pressure	(Pressury)	(emperature) F.	T or Valve P		150	ırks
7. Cold Working Pressure	Pressure: (1 230 pei et 100°	(emperature) F.				irks
7. Cold Working Pressure 8. Pressure Retaining Pieces	Pressure) 230 pei at 100°  Material Spec.	fempereture) R. . No.		turer	Remu	irks
7. Cold Working Pressure	Pressure) 230 pei at 100°  Material Spec.	fempereture) R. . No.	Manufec	turer	Remu	irks
7. Calif Working Pressure —  8. Pressure Retaining Places  Mark No.  (a) Castings  Body HT. #8448  S/N 1	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	irks
7. Cold Working Pressure	Pressure   100°	femperature) F. . No.	Manufec	nze Produ	Remu	irks
7. Calif Working Pressure —  8. Pressure Retaining Places  Mark No.  (a) Castings  Body HT. #8448  S/N 1	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	Irks
7. Cold Working Pressure	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	irks
7. Cold Working Pressure	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	rks
7. Cold Working Pressure	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	rks
7. Cold Working Pressure	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	riss
7. Cold Working Pressure	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	Irks
7. Caid Working Pressure —  8. Pressure Retaining Pieces  Mark No.  (a) Castings  Body HT.#8448  S/N 1  Bonnet HT.#84  S/N 4	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	irks
7. Cald Working Pressure —  8. Pressure Retaining Pieces  Mark No.  (a) Castings  Body HT. #8448  S/N 1  Bonnet HT. #84  S/N 4	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	irks
7. Caid Working Pressure —  8. Pressure Retaining Pieces  Mark No.  (a) Castings  Body HT.#8448  S/N 1  Bonnet HT.#84  S/N 4	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	irks
7. Caid Working Pressure —  8. Pressure Retaining Pieces  Mark No.  (a) Castings  Body HT.#8448  S/N 1  Bonnet HT.#84  S/N 4	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	irks
7. Caid Working Pressure —  8. Pressure Retaining Pieces  Mark No.  (a) Castings  Body HT.#8448  S/N 1  Bonnet HT.#84  S/N 4	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	rks
7. Caid Working Pressure —  8. Pressure Retaining Pieces  Mark No.  (a) Castings  Body HT.#8448  S/N 1  Bonnet HT.#84  S/N 4	Pressure   100°	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	rks
7. Caid Working Pressure —  8. Pressure Retaining Pieces  Mark No.  (a) Castings  Body HT.#8448  S/N 1  Bonnet HT.#84  S/N 4	Meteriei Spec.	femperature) F. . No.	Manufac Federal Bro	nze Produ	Remu	rks

(10/77) This form (600037) may be obtained from the Order Dept., ASME, 345 E. 47th St., New York, N.Y. 10017

Supplémental 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 resorded at top of this form.

Merk No.	Material Spec. No.	Manufacturer	Remarks
c) Baking		THE PERSON OF STREET PROPERTY AND A STREET	
Bonnet Stud HT.#GRL	\$8150-630	Ronson Mfg., Inc.	
Bonnet Nut HT.#EVF	SB150-630	Vitço Nuclear Produc	s. Inc.
Uisc HT.#84465 S/N 1	00-N-288C	Federal Bronze Produc	ts, Inc.
Hydraetetia teet 350 pel.	Disk Differential test pressure	2.55	
netruction of the ASME Code Idende Summer 1982	for Nuclear Power Plant Co , Code Case NoN	net and that this pump, or veive, as imponents. Section III, Div. I., Edit. 33–1 Date	1980
nstruction of the ABME Codd Idende Summer 1982 (Date) gned Anchor/Darling Va tw Cartificate Helde	made in this report are corre for Nuclear Power Plant Co, Code Case NoNI	oct and that this pump, or veive, a imponents. Section III, Div. 1, Edit	1980
instruction of the ASME Code Idenda Summer 1982 [Date] Igned Anchor/Darling Va IM Certificate Helde ur ASME Certificate of Authoria eeign information on file at Al trees analysis report (Class 1 o	made in this report are corre for Nuclear Power Plant Co, Code Case NoNI	oct and that this pump, or veive, of imponents. Section III, Div. I, Edit 33-1 Date 2/2/ by R. L. Stommet.  To use the N symbol (N)	1980 185 expires 4/15/86
retruction of the ASME Code idenda Summer 1982 (Date) (Date) (Date) (Date) (Maria Inguillation of the Asme Certificate of Authorizations information on file at Altrees analysis report (Class 1 of the Asme CA Inguillation of the Cartificate of Authorization o	made in this report are correct for Nucleer Power Plant Company (1) CERTIFICATION (1) (1) (2) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	oct and that this pump, or veive, or imponents. Section III, Div. I. Edit 33-1 Date 2/2/ by R. L. Stammert. To use the N symbol (N)	1980 185 expires 4/15/86
netruction of the ASME Code dende Summer 1982 (Dete)  gned Anchor/Darling Value Certificate Helder ASME Certificate of Authorizate information on file at All rees analysis report (Class 1 or assign specifications certified by State CA Research Parks (Class 1 or assign specifications certified by State CA Research Parks (CA)	made in this report are correct for Nucleer Power Plant Company (1) CERTIFICATION (1) (1) (2) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	oct and that this pump, or veive, or imponents. Section III, Div. I. Edit 33-1 Date 2/2/ by R. L. Stammert. To use the N symbol (N)	1980 185 expires 4/15/86
pretruction of the ASME Code deende Summer 1982 (Date) gned Anchor/Darling Va tw Certificate holds ur ASME Certificate of Authoriz design information on file at Ar tress analysis report (Class 1 o	made in this report are correct for Nucleer Power Plant Company (1) CERTIFICATION (1) (1) (2) (1) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	oct and that this pump, or verve, as imponents. Section III, Div. I. Edit. 33-1 Date 2/2/1 by R.S. Stammet.  by R.S. Stammet.  o use the N symbol (N)  OF DESIGN  Co., 701 First St., William	1980 185 expires 4/15/86
construction of the ASME Code idenda Summer 1982 (Date)  gned Anchor/Darling Video (Microste Helder of Authorized Helder of Authorized Information on file at Altreas analysis report (Class 1 of Estate CA Research of Authorized Information on file at Altreas analysis report (Class 1 of Estate CA Research of Estate CA Research of Estate Information on file at Altreas analysis certified by (1) as Estate Information of Information on file at Altreas analysis report (Class 1 of Estate Information of I	certificate of series of the company	ict and that this pump, or veive, as imponents. Section III, Div. I., Edit. 33-1. Date 2/2/by R.S. Sommet.  To use the N. symbol (N)  OF DESIGN  Co., 701 First St., William of the pump, or valve, described is st of my knowledge and belief, the N C.	expires 4/15/86  Gassi  iamsport, PA 177  assure Vessel Inspector I Union Ins. Con this Data Report of
prestruction of the ASME Code deemde Summer 1982 (Date) gred Anchor/Darling Va IN Certificate Holder ur ASME Certificate of Authorize eeign information on file at Al trees analysis report (Class 1 of the state State CA R trees enelysis certified by (1) — E State R I) Signature not required. List r In the undersigned, holding a very state State SKRionities of R I) Signature not required. List r In the undersigned, holding a very state SKRionities of R I) Signature not required. List r III Signature not required. List r II Signature not required. List r	certificate of secondaries only.  CERTIFICATION  CERTIFICATION  CERTIFICATION  CERTIFICATION  CERTIFICATION  CERTIFICATION  COLOR 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ict and that this pump, or veive, as imponents. Section III, Div. I., Edit. 33-1. Date 2/2/by R.S. Sommet.  To use the N. symbol (N)  OF DESIGN  Co., 701 First St., William of the pump, or valve, described is st of my knowledge and belief, the N C.	expires 4/15/86  Cost  C

gr.

1. Owner Pacific Gas and Electric Company 77 Beale Street, San Francisco, CA 94106								Date .	5/20/2013 1 of 1	
	2. Plant Diablo Canyon Power Plant P.O. Box 56, Avila Beach, CA 93424								2	
3. Work Performed by Owner See Above Repair								No., J	ob No., etc.	
4. Identification	on of System		Liquid Radw	raste System (19)						
5. (a) Applicable Construction Code (See R/R Plans) Edition, Addenda, Code Case, (b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity - 2001 Addenda, 02 / 03 (c) Applicable Section XI Code Case(s), None										
6. Identification	on of components.									
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)	
LWS-2-FCV- 501	Contromatics Inc.	N/F	N/A	64014373-0100	Line-529-2"	1985	Installed, (1)		No	
7. Description of Work (1) Replaced internals,  8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt										
	Oth	er 🗌	Pressure	PSIG	Test Temp.		°F			
9. Remarks		70-70-70-70-70-70-70-70-70-70-70-70-70-7								
CERTIFICATE OF COMPLIANCE  I certify that the statements made in the report are correct and that this comforms to the requirements of the ASME Code, Section XI  Type Code Symbol Stamp  N/A  Certificate of Authorization No.  N/A  Expiration Date  N/A										
Sign	ed 🔏	7.//	PK.		Engineering N	lanager		6/	3/13	
(Owner or Owner	er'sDesignee)	Patr	ick Nugent		(Title)			(	(Date)	
CERTIFICATE OF INSPECTION  I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the  State or Province of California, And employed by HSB-CT of Hartford, CT										
have inspected the components described in this Owner's Report during the period 7/05, 2011 to 4/22, 2013, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the Owner's Report in accordance with the requirements of 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 corrective measures described in this Owner's 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.										
K	多男光	n	Inspector	6-3-2	20/3 Con	nmission	s CA 1828 - NE	3 9990	A.N.I.C	
	Inspector  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 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.									

							·		
1. Owner	Desific Cos and El	actric Company	100 100 200 100 100	. Total front short short start start start start short					5/20/2013
1. Owner	wner Pacific Gas and Electric Company 77 Beale Street, San Francisco, CA 94106							Date heet	1 of 1
-	77 Beate Street, Sa	ii Trancisco, CA 7	7100	A. III. 1974.	Administration				1 01 1
2. Plant	Diablo Canyon Po	wer Plant						Unit	2
	P.O. Box 56, Avila	Beach, CA 93424							
2 Worls Dord	amnad by	Owner							
3. Work Performed by Owner See Above Repair Org							pair Org. P.O.	No. I	oh No. etc
		See Abo	JYC			710	pun org. 1.0.	110., 5	30 110., etc.
4. Identification of System Diesel Engine Generator System (21)									
	•								
- ( ) h 11				T. III.					,
	cable Construction C			Edition,			Code Case,		
· / * *	able Section XI Cod		cepair / Replace	ment Activity -	AC	idenda,	02 / 03		
(c) rippiic	able Section At Coa	- rone							
6. Identificat	ion of components.								
		1			1	T		_	
		Manufacturer			Other		Corrected,	Pressure Test	ASME
Name of Component	Name of Manufacturer	Serial	National Board No.	Work Order No.	Identification	Year Built	Removed,	ure	Code Stamped
Component	Manufacturer	No.	Doura 140.	110.	Line No	Juni	or Installed	Test	(Yes or No)
	BASCO Div /					1			
DEG 2-3	American	900400-011	32798	60052448-0100	DEG3 LOHX	1990	Corrected,		Yes
DECAA	Precision	27/4	27/4	(4005101 0100	DEG2	77.1	(1)	57	3.7
DEG 2-3 DEG 2-2	Alco Power Inc. Alco Power Inc.	N/A N/A	N/A N/A	64005101-0100 64021160-0100	DEG3 RV-71	Unk Unk	Installed, (2) Installed, (3)		No No
DEG 2-1	Alco Power Inc.	N/A	N/A	64021302-0100	RV-72	Unk	Installed, (3)	古	No
DEG 2-3	Alco Power Inc.	N/A	N/A	64021304-0100	RV-75	Unk	Installed, (3)		No
7. Description	of Work (1	) Machine LOHX chan	nel head cover fla	at, (2) Replaced Jacket	Water Couplings, o	lamps and	bolting as neede	d,	
(3) Replaced expansion tank cap,									
8. Tests Condu	icted: Hy	drostatic	Pneumatic		l Operating Pressur		Exempt		
	Othe	er 🗌	Pressure	55 PSIG	Test Temp.	160	°F		
9. Remarks									
			CERTIFICA	TE OF COMPLIA	NCE				
I certify that th	e statements made in th	e report are correct and	I that this comfort	ms to the requirements	of the ASME Code	, Section X	II		
Type Code Syr	nbol Stamp	A C	Certificate of Auth	norization No.	N/A	Expiration	on Date N/	4	
Sign	ned /		V		Engineering l	Manager	6	12/	13
(Owner or Own	ner'sDesignee)	Patr	jc) Nugent		(Title	)		(	Date)
		<i>L</i>	CERTIFIC	ATE OF INSPECT	ION				
I, the undersign	ned, holding a valid con	nmission issued by the		of Boiler and Pressure V		d the			
State or Provin			And employed by		HSB-CT	of _	Har	tford, (	T
	the components describ				/05 , 2011	- to		1/22	, 2013 ,
				d examinations and take					
accordance with the requirements of 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 corrective measures described in this Owner's 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.									
	5 Kir	n_	Inspector	(Date)	20/3 C		s CA 1828 - NE		
	Kenny D. Kim	-	(Title)			•	Province, Natio		,
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 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.									

1. Owner Pacific Gas and Electric Company 77 Beale Street, San Francisco, CA 94106								ate heet	5/20/2013 1 of 1
-	77 Beate Street, St	in Francisco, CA 9	4100	and the state of t					1 01 1
2. Plant								Unit _	2
-	P.O. Box 56, Avila	Beach, CA 93424					****		
3. Work Perf	ormed by	Owner							
See Above Repair Org						pair Org. P.O.	No., J	ob No., etc.	
4. Identification of System HVAC System (23)									
5. (a) Applicable Construction Code (See R/R Plans) Edition, Addenda, Code Case,  (b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity - 2001 Addenda, 02 / 03  (c) Applicable Section XI Code Case(s), None									
6. Identificat	ion of components.								
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)
VAC-2-200	Mission Drilling Prod Div	D7679 *	N/A	64015060-0100	Line-4388-4"	1985	Installed, (1)	⊠	No
VAC-2-201	Mission Drilling Prod Div	D7678 *	N/A	64015061-0100	Line-4389-4"	1985	Installed, (1)	⊠	No
7. Description of Work (1) Replaced valve,									
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt Other Pressure see rmks PSIG Test Temp. see rmks °F									
9. Remarks	Pressure testing s	atisfied by LLRT							
	* = Manufacture	's Code Data Report at	tached.						
			CERTIFICA	TE OF COMPLIA	NCE				
-		-		ms to the requirements of					
Type Code Syr	abol Stamp		Certificate of Autl	horization No.	N/A	Expiration	***************************************	1- 1	
Sign		100.1	W		Engineering M		6	- / /	7
(Owner or Own	ner'sDesignee)	Patr	ick/Nugent		(Title)			,	(Date)
T 414				ATE OF INSPECTI		41			
, .	, ,	•		of Boiler and Pressure V	•	of	Har	tford, (	CT ·
have inspected and state that to accordance wit implied, conce	State or Province of California, And employed by HSB-CT of Hartford, CT have inspected the components described in this Owner's Report during the period 7/05, 2011 to 4/22, 2013, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the Owner's Report in accordance with the requirements of 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 corrective measures described in this Owner's 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.								
te	Ken	<u> </u>	Inspector	6-3-2 (Date)	<u> ව/3</u> Con	nmission	s CA 1828 - NE	3 9990	A.N.I.C
7	Kenny D. Kim		(Title)	` ,		`	Province, Natio		,
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 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 NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES\* As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

٠ 1.	Manufactured and cert	tified by	CRANE Nucl	ear, Inc., 860 Re	emington Boul	evard, Boling	gbrook, IL	60440		
2.	Manufactured for Pa	acific Gas and Electric	c Company, I	PO Box 7760. S	an Francisco.	•	760			
3.	(name and address of purchaser)  Location of installation Diablo Canyon Power Plant, 9 Miles N.W. of Avila Beach, Avila Beach, CA 93424  (name and address)									
4.	Model No., Series No.,	or Type 15SN	MF-729	Drawing	CB04540	Rev.	C.	CRN N/A		
5.	ASME Code, Section I		•	None	e ,	2				
6.	Pump or valve		(edition)	(addenda d	late) 4 in.	(class) Outlet	size	(Code Case no.)		
		Day Once, valve								
7.	Material:  (a) valve Body (b) pump Casting	SA216 WCB	Bonnet/ Cover Cover	N/A N/A	** Plates  Disk **S/ Bolting	A216 WCB N/A	Bolting Nuts	* Pin Retainer  *SA479 316A		
	(a) Cert. Holder's Serial No	(b) Nat'l Board No.	, 5	(c) y/Casing Serial No.	Bonnet Ser Ne	/Cover rial		(e) Disk Serial No.		
	D7678 D7679	N/A N/A		7680 7681	N/		D7682, D7683 D7684, D7685			

<sup>\*</sup> Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

or valve pressure class 150 (temperature)
at 100°F
Disk differential test pressure 315 psi .
CNI SO #32977-04
:
entranta anti-alia di Amerika di A Amerika di Amerika d
ATION OF DESIGN
ATION OF DESIGN
lal P.E. State CA Reg. no. M-16690
P.E. State N/A Reg. no. N/A
TE OF COMPLIANCE
ct and that this pump or valve conforms to the rules for construction
99 Expires September 24, 2011
ear, Inc. Signed Remark
Jerome A/Kdrówski, P.E.  Senior Quality Assurance Engineer
TE OF INSPECTION
e National Board of Boiler and Pressure Vessel Inspectors and the
d employed by HSBCT
ertificate Holder has constructed this pump, or valve, in accordance
*
·
oyer makes any warranty, expressed or implied, concerning the
ither the inspector nor his employer shall be liable in any manner for
ither the inspector nor his employer shall be liable in any manner for

(1) For manually operated valves only.

1. Owner Pacific Gas and Electric Company 77 Beale Street, San Francisco, CA 94106								Date heet	5/20/2013 1 of 1	
reserves (	Plant Diablo Canyon Power Plant								2	
	P.O. Box 56, Avila	Beach, CA 93424					10700000000000000000000000000000000000			
3. Work Perfo	3. Work Performed by Owner									
See Above Repair Org							pair Org. P.O.	No., J	ob No., etc.	
4. Identification of System Incore Flux Mapping System (48)						4				
5. (a) Applicable Construction Code (See R/R Plans) Edition, Addenda, Code Case, (b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity - 2001 Addenda, 02 / 03 (c) Applicable Section XI Code Case(s), None										
6. Identification	on of components.									
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corrected, Removed, or Installed	Pressure Test	ASME Code Stamped (Yes or No)	
U2 Seal Table	Westinghouse	N/A	N/A	60054427-0010	See Remarks	1985	Installed, (1)		Yes	
						NEW WOOD NOT THE				
T										
7. Description o	f Work (1	Replaced Class-1 tub	ing fittings as nee	ded at seal table,	· .					
8. Tests Conduc	•	drostatic	Pneumatic [		Operating Pressure Test Temp.		Exempt			
9. Remarks	Fittings replaced	at locations: A11, B13	3, C08, D10, E05,	F08, G12, H11, J07, K	06, L05, L08, P09,	R06 & R1	11			
I certify that the Type Code Sym		-		TE OF COMPLIANT to the requirements of the requirements of the reconstruction No.		Section X		A		
Signe	:d	120	DXI	- · ·	Engineering M	1anager	**************************************	6/3	/13	
(Owner or Owne	CONTRACTOR	Patr	ick Nugent		(Title)			(	(Date)	
		/	CERTIFICA	ATE OF INSPECTI	ON					
I, the undersigned State or Province		•		f Boiler and Pressure Ve	essel Inspectors and HSB-CT	the		tford, C	OT.	
		,	And employed by port during the pe			_ to		4/22	, 2013 ,	
have inspected the components described in this Owner's Report during the period 7/05, 2011 to 4/22, 2013, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in the Owner's Report in accordance with the requirements of 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 corrective measures described in this Owner's 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.										
/	016	Kem	Inspector	6-3-	20/3 Con	mmission	s CA 1828 - NI	3 9990	A.N.I.C	
	Inspector    Commissions   CA   1828 - NB   9990   A.N.I.C									