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September 01, 2011

PG&E Letter DCL-11-093

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 Sixteenth Refueling Outage

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

There are no new or revised regulatory commitments as defined by the Nuclear Energy Institute 99-04, "Guidelines for Managing NRC Commitment Changes," dated July 1999, in this report.

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

Sincellely, James R. Becker

rntt/64019431 Enclosure cc/encl:

Elmo E. Collins, NRC Region IV Michael S. Peck, NRC Senior Resident James T. Polickoski, NRR Project Manager Alan B. Wang, NRR Project Manager State of California, Pressure Vessel Unit

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Diablo Canyon Power Plant

Unit 2

USNRC Docket No. 50-323

Operating License No. DPR-82

Commercial Operation Date, March 13, 1986

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Approved By:	RJ.A	
	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: 8/15/11

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

<u>SECTION</u>	TITLE					
Α.	Introduction					
В.	ASME Code Report Form NIS-1 (Basis of Summary)					
	1. Class 1 2. Class 2					
С.	Class 1 Components					
	<ol> <li>Vessels         <ul> <li>a. Reactor Vessel</li> <li>b. Pressurizer</li> <li>c. Steam Generators</li> </ul> </li> <li>Bolting</li> <li>Pumps</li> <li>Piping</li> <li>Supports</li> </ol>					
D.	Class 2 Components					
	<ol> <li>Vessels         <ul> <li>Steam Generators</li> </ul> </li> <li>Piping</li> <li>Integral Attachments</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					
	<ol> <li>ASME Code Report Form NIS-2 (Indexed by System) (Class-1, 2 &amp; 3) (Manufacturers' Data Reports for 'New Items' are attached behind the applicable NIS-2)</li> </ol>					

# SECTION A

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# **INTRODUCTION**

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#### **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 sixteenth refueling outage from May to June, 2011.

The DCPP Unit 2 sixteenth refueling outage (2R16) was the first outage in the second period within the third 10-year ISI interval.

2R16 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.

Included in section C (Class-1 piping) are inspections to satisfy MRP-146 and MRP-139. The volumetric exams performed as per MRP-139 satisfy the exam requirements of Code Case N-722.

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 fifteenth refueling outage (2R15), up to and through 2R16, 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 2R16 work packages closed prior to or on July 05, 2011 and for any work packages closed after December 10, 2009. NIS-2 reports for 2R16 work packages that are closed after July 05, 2011 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**

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

- 1. Owner Pacific Gas & Electric Company, 77 Beale St., San Francisco, CA 94106
- 2. Plant Diablo Canyon Power Plant, P.O. Box 56, Avila Beach, CA 93424
- 3. Plant Unit <u>Two</u> 4. Owner Certificate of Authorization (if required) <u>N/A</u>

5. Commercial Service Date 03/13/86 6. National Board Number for Unit \_\_\_\_\_\_N/A

7. Component Inspected <u>ASME Code Class 1 Items</u>

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering/ Westinghouse	CE 68101	12962-85	21359
Pressurizer	Westinghouse	1171	N/A	68-106
Steam Gen 2-1	Westinghouse / ENSA	SG2-1/DC2RSG-1 / 1PA2	N/A	94 / 142
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
<u></u>				
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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 06/11
9.	Inspection Period Identification: <u>Second</u>
10.	Inspection Interval Identification:
11.	Applicable Edition of Section XI 2001 Addenda 2002 - 2003
12.	Date/Revision of Inspection Plan:February 2007, Revision A
13.	Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for current interval. <u>Refer to ISI Report</u>
14.	Abstract of Results of Examinations and Tests. <u>Refer to ISI Report</u>
15.	Abstract of Corrective Measures Refer to ISI Report

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and, c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authorization No. (if applicable)				N/A	Expiration I	Dat <u>e</u>	N/A	
Date	8/15/11	Signed	PG&E	By	Ra	X	A	
			Owner	P	atrick Nugent / E	new	eering Manager	_

#### **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 <u>California</u> and employed by <u>HSB-CT</u> of <u>Harford, CT</u> have inspected the components described in this Owners' Report during the period <u>12/09</u> to <u>7/11</u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owners' Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and tests, and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Inspector's Signature/Kenny Kim \_ Commissions` \_\_\_ CA 1828, NB 9990 A.N.I.C. National Board, State, Province and, Endorsements. 8/16/2011 Date

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

- 1. Owner\_Pacific Gas & Electric Company, 77 Beale St., San Francisco, CA 94106
- 2. Plant Diablo Canyon Power Plant, P.O. Box 56, Avila Beach, CA 93424
- 3. Plant Unit <u>Two</u> 4. Owner Certificate of Authorization (if required) <u>N/A</u>
- 5. Commercial Service Date 03/13/86 6. National Board Number for Unit \_\_\_\_\_\_\_N/A
- 7. Components Inspected <u>ASME Code Class 2 Items</u>

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 Concrete	PG&E	N/A	N/A	N/A
				······································
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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 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 5/11 to 6/11						
9.	Inspection Period Identification: <u>Second</u>						
10.	Inspection Interval Identification:						
11.	Applicable Edition of Section XI 2001 Addenda 2002 - 2003						
12.	Date/Revision of Inspection Plan: February 2007, Revision A						
13.	Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for current interval. <u>Refer to ISI Report</u>						
14.	Abstract of Results of Examinations and TestsRefer to ISI Report						
15.	Abstract of Corrective Measures Refer to ISI Report						

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and, c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificate of Authoriza	licable)	N/A	F	Expiration	Date _	N	'A	
Date 8/15/11	Signed	PG&E	By	R	J.	Y	ZA	
		Owner		Patrick	Nugent /	Engine	ering M	anager

#### **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 <u>California</u> and employed by <u>HSB-CT</u> of <u>Harford, CT</u> have inspected the components described in this Owners' Report during the period <u>12/09</u> to <u>7/11</u>, and state that to the best of my knowledge and belief, the Owner has performed examinations and tests and taken corrective measures described in this Owners' Report in accordance with the Inspection Plan and as required by the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and tests, and corrective measures described in this Owners' Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Askim	Commissions	CA	1828, NB 9990	A.N.I.C.
Inspector's Signature/Kenny Kim	ı	National Board, Sta	te, Province and, Endor	sements.
Date 8/16/2011				

# **SECTION C**

### **CLASS 1 COMPONENTS**

#### **DIABLO CANYON POWER PLANT - UNIT 2**

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16)					MAJOR ITEM: REACTOR VESSEL		
ASME SECTION XI SYSTEMS - CLASS 1						PAGE 1 of 1	
CATEG	ORY	COMPONENT /	WELD OR	EXAM	EXAM		
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	DATE	COMMENTS	RESULTS
B-N-1, 2, & 3							
B13.10	Reactor Vessel 2 Interior	Reactor Vessel 2 Interior	Reactor Vessel 2 Interior	VT-3	5-18-11		NRI
			· ·				

#### **DIABLO CANYON POWER PLANT - UNIT 2**

PAGE 1 of 1

#### THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) MAJOR ITEM: PRESSURIZER

**ASME SECTION XI SYSTEMS - CLASS 1** 

CATEGORY **COMPONENT /** WELD OR EXAM EXAM ITEM DESCRIPTION LINE COMPONENT NO. TYPE DATE **COMMENTS** RESULTS B-B B2.11 Shell to Bottom UT Pressurizer 2 Girth 1 5-10-11 Numerous recordable / allowable indications. NRI Head Circ Weld B2.12 Shell to Bottom Pressurizer 2 Long'l 6 -UT 5-10-11 NRI Head Long'l Weld twelve inches B-D B3.110 Spray Line Nozz. Pzr 2 to WIB-346 (N-V) UT 5-23-11 65.9% Coverage NRI to Vessel Weld 2S6-15-4SPL 50033145 Tsk # 49 for tracking Relief Request Safety Line Nozz. Pzr 2 to WIB-422A (N-V) UT 5-23-11 71.5% Coverage NRI to Vessel Weld 50033145 Tsk # 50 for tracking Relief Request 2S6-728-6SPL B3.120 Safety Line Nozz. Pzr 2 to Inside Radius UT 5-14-11 NRI Inside Radius 2S6-727-6SPL Section Relief Line Nozz. Pzr 2 to Inside Radius UT 5-14-11 NRI Inside Radius 2S6-730-6SPL Section B-K Support Skirt B10.10 Pressurizer 2 Girth 10 ΜT 5-9-11 NRI Weld

12

#### **DIABLO CANYON POWER PLANT - UNIT 2**

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) ASME SECTION XI SYSTEMS - CLASS 1					MAJOR ITEM: STEAM GENERATORS PAGE 1 of 1		
CATEC ITEM	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-B							
B2.40	RSG Tubesheet to Head Weld	Repl Steam Gen. 2-1	FW-33.01.01	UT	5-5-11		NRI

#### **DIABLO CANYON POWER PLANT - UNIT 2**

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) ASME SECTION XI SYSTEMS - CLASS 1						MAJOR ITEM: BOLTING	<u></u>
						PAGE 1 of 1	
CATEG ITEM	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-G-1	·					· · · · · · · · · · · · · · · · · · ·	
B6.10	Closure Head Nuts	RPV Bolting > 2" diam.	RPV2 Nuts 19 to 36	VT-1	5-15-11		NRI
B6.20	Closure Head Studs (Removed)	RPV Bolting > 2" diam.	RPV2 Studs 19 to 36	UT	5-14-11		NRI
B6.50	Closure Washers	RPV Bolting > 2" diam.	RPV2 Washer 19 to 36	VT-1	5-15-11		NRI

PG&E						DIABLO CANYON POWER PLANT - UNIT 2	
THIRD	INTERVAL, SECO	ND PERIOD, FIRS	<b>F</b> REFUELING OUTA	GE REPO	ORT (2R16)	MAJOR ITEM: PUMPS	
ASME S	SECTION XI SYST	EMS - CLASS 1				PAGE 1 of 1	
CATEG ITEM	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
В-К							
B10.30	Welded Attachment	RCP 2-1 Support Lug	Lug Weld No. 1	PT	5-9-11		NRI
Augmen	ted						
	RCP 2-1 Flywheel UT Exam	RCP 2-1 Flywheel	RCP 2-1 Flywheel Inner Half Radius	UT	5-15-11		NRI

15

#### **DIABLO CANYON POWER PLANT - UNIT 2**

#### THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) MAJOR ITEM: PIPING

ASME SECTION XI SYSTEMS - CLASS 1

PAGE 1 of 2

CATEC	GORY	COMPONENT /	WELD OR	EXAM	EXAM		
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	DATE	COMMENTS	RESULTS
RI-ISI (RB)		· · · · · · · · · · · · · · · · · · ·					
	Pressurizer Surge Line	2*-16-14SPL	WIB-434	UT	5-7-11		NRI
			WIB-436	UT	5-7-11		NRI
			Elbow Between WIB-436/WIB-437	UT	5-7-11		NRI
			WIB-433B	UT	5-9-11		NRI
	Charging Line Aux Spray	2S6-51-2SPL+	WIB-790	PT	5-6-11		NRI
	Boron Inj Tk Out Loop 2 Cold	2S6-1992-1- 1/2SPL+	WIB-564-04	PT	5-9-11		NRI
			WIB-563-04	РТ	5-9-11		NRI
	Boron Inj Tk Out Loop 3 Cold	2S6-1993-1- 1/2SPL+	WIB-660	РТ	5-9-11		NRI
			WIB-659	PT	5-9-11		NRI
	Loop 1 Spray Line	2S6-13-4SPL	WIB-65C	UT	5-17-11		NRI
			WIB-65D	UT	5-17-11		NRI

#### DIABLO CANYON POWER PLANT - UNIT 2

#### THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) MAJOR ITEM: PIPING

#### **ASME SECTION XI SYSTEMS - CLASS 1**

PAGE 2 of 2

CATEG	ORY	COMPONENT /	WELD OR	EXAM	EXAM	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
ITEM	DESCRIPTION	LINE	COMPONENT NO.	TYPE	DATE	COMMENTS	RESULTS
RI-ISI Cont'd		<u> </u>	<u> </u>	<u></u>			
	Pressurizer Spray Line	2S6-15-4SPL	WIB-332	UT	5-10-11		NRI
			WIB-335	UT	5-10-11		NRI
			WIB-336	UT	5-10-11		NRI
	Loop 2 Spray Line	2S6-14-4SPL	WIB-91	UT	5-17-11		NRI
MRP- 146							
	Loop 2-1 Crossover Drain	2S6-958-2SPL	@ Weld WIB-503	UT	5-23-11		NRI
MRP- 139							
	U2 Hot Leg UT Exams	(4 Safe Ends)		UT	5-11-11	Relief Request NDE-RCS-SE-2R16. Automated UT Exam from ID with supplemental Eddy Current surface examination on ID.	NRI
	U2 Cold Leg UT Exams	(4 Safe Ends)		UT	5-11-11	Relief Request NDE-RCS-SE-2R16. Automated UT Exam from ID with supplemental Eddy Current surface examination on ID.	NRI

#### **DIABLO CANYON POWER PLANT - UNIT 2**

#### THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) MAJOR ITEM: PIPING 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 51 Class 1 hangers during the sixteenth refueling outage between the dates of 05-02-11 and 05-19-11. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
Steam Generator	Support Structure	51	2216-16	728	989-12R	1990	2216-144
13	2-12V	51	2212-89	728	414-592R	1991	2217-50
13	2-13R	51	2215-49 <sup>3</sup>	728	71-58SL <sup>2</sup>	1991	2734-21
13	2-44R	51	2215-6	730	71-20SL	1991	2734-35
13	92-61R	51	2215-7	730	989-26V	1995	72-28R
13	2-33R	51	898-6	958	889-5(V)	1995	72-30R
13 .	92-71R	51	898-9	1171	412-143SL	2575	412-160R
15	412-84SL	54	78-219SL	1171	412-151SL	2575	70-38SL
15	92-3R	109	6-6V	1171	412-152SL	3844	92-41V
15	989-22V	237	72-83SL	1172	412-166SL	3845	71-4SL
15	71-24SL	237	72-93SL	1172	412-167SL	3845	71-5SL
24	2-4R	253	70-2SL	1195	412-118SL	3846	73-5SL <sup>1</sup>
24	70-67R			1195	412-134SL		
24	70-8R						

<sup>1</sup> Notification # 50398894 – missing washer

<sup>2</sup> Notification # 50397543 – cold setting out of tolerance

<sup>3</sup> Notification # 50394984 – baseplate gap and minor spalling – acceptable as is by engineering

# **SECTION D**

## **CLASS 2 COMPONENTS**

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#### DIABLO CANYON POWER PLANT - UNIT 2

#### THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) MAJOR ITEM: STEAM GENERATORS

ASME SECTION XI SYSTEMS - CLASS 2

	<u> </u>					PAGE 1 of 1	
CATEO ITEM	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-A							· · · · · · · · · · · · · · · · · · ·
C1.30	Tubesheet-to- Shell Weld	Repl Steam Generator 2-1	Girth FW-11.07.01	UT	5-5-11		NRI

#### DIABLO CANYON POWER PLANT - UNIT 2

### THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) MAJOR ITEM: PIPING

#### ASME SECTION XI SYSTEMS - CLASS 2

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<u> </u>						PAGE 1 of 1	
CATEO ITEM	ORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
RI-ISI (RB)				<u> </u>			<u> </u>
	Cent Charg Pump 2 Discharge	2\$6-46-4	WIC-46A	UT	5-18-11		NRI
	Residual Ht Rem Pp 1 Disch	2S1-112-8III	WIC-37	UT	4-26-11		NRI
			WIC-38	UT	4-26-11		NRI
	Residual Ht Rem Pp 2 Disch	2S1-113-8III	RB-113-4	UT	4-26-11		NRI
	-		RB-113-5	UT	4-26-11		NRI

PG&E

#### DIABLO CANYON POWER PLANT - UNIT 2

#### THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) MAJOR ITEM: INTEGRAL ATTACHMENTS

#### ASME SECTION XI SYSTEMS - CLASS 2

<b></b>						PAGE 1 of 1	
CATEO ITEM	GORY DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-C	<u></u>						
C3.20	SG Steam Out 2-2 Welded Attach.	Line 2K15-227- 28V	2025-15R Attachment	MT	5-19-11		NRI
			2022-1V Attachment	MT	5-12-11		NRI
	RHR Inj CL 1&2 Welded Attach.	Line 2S1-508-8III	8-49R Attachment	PT	5-13-11		NRI

#### **DIABLO CANYON POWER PLANT - UNIT 2**

#### THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) 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 8 Class 2 hangers during the sixteenth refueling outage between the dates of 04-21-11 and 05-19-11. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
RHR Pump 2-1	77-20SL	48	24-27A	227	2025-15R	508	8-49R
RHR Pump 2-1	77-21SL		·	227	2022-1V	1357	72-60SL
						2575	70-55SL <sup>1</sup>

<sup>1</sup> Notification # 50394983 – safety wire broken

# SECTION E

## **CONTAINMENT EXAMS**

(IWE/IWL)

#### **DIABLO CANYON POWER PLANT - UNIT 2**

#### THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT (2R16) **MAJOR ITEM: CONTAINMENT ASME SECTION XI SYSTEMS -**PAGE 1 of 1 CONTAINMENT CATEGORY COMPONENT / WELD OR EXAM EXAM ITEM DESCRIPTION LINE COMPONENT NO. TYPE DATE COMMENTS RESULTS E-A E1.11 Penetration #58 Mini Equipment 12 Studs, 24 Nuts VT-3 5-31-11 Examined in assembled state NRI Penetration #60 Mini Equipment 12 Studs, 24 Nuts VT-3 5-17-11 Examined in disassembled state NRI Penetration #63 Vacuum Pressure 12 Bolts VT-3 5-17-11 Examined in disassembled state NRI Relief Fuel Transfer Penetration #64 20 Bolts VT-3 5-12-11 Examined in assembled state NRI Tube Equipment Hatch Equipment Hatch VT-3 48 Bolts Examined in disassembled state 5-24-11 NRI L-A L1.11 Containment Containment Containment 7-21-11 General IWL exam performed every 5 years NRI Concrete Concrete Concrete VT L1.12 Containment Containment Containment Detailed 7-21-11 IWL exam performed every 5 years NRI Concrete Suspect Concrete Suspect **Concrete Suspect** VT Areas Areas Areas

## **SECTION F**

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### **PRESSURE TESTS**

Р	G&	E

#### **DIABLO CANYON POWER PLANT - UNIT 2**

.

THIRD	INTERVA	L, SECOND PERIOD, FIRST REFUELING OUTAGE REPOR	T (2R16)	MAJOR ITEM: PRESSURE TESTS				
ASME	SECTION X	XI SYSTEMS - CLASS 1, & 2		PAGE 1 of 2				
TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS			
1	1	Reactor Coolant System and Connected Piping	6-04-11	Outage Frequency, STP-R8A	NRI			
2	1	Excess Letdown between 8166 & 8167	6-04-11	Outage Frequency, STP-R8A	NRI			
3	1	Pressurizer Auxiliary Spray	6-04-11	Outage Frequency, STP-R8A	NRI			
4	1 ·	Alternate Charging	6-04-11	Outage Frequency, STP-R8A	NRI			
5	1	RHR & SI to Cold Legs	6-04-11	Outage Frequency, STP-R8A	NRI			
6	· 1	Charging Injection Inside Cont.	6-04-11	Outage Frequency, STP-R8A	NRI			
7	1	Safety Injection Inside Cont, From 8905A-D to 8949A-D	6-04-11	Outage Frequency, STP-R8A	NRI			
8	1	RHR Between 8702 & 8701	6-04-11	Outage Frequency, STP-R8A	NRI			
2	2	Auxiliary Feedwater Pump X-2 & X-3 Discharge	3-30-11	Period-2 Exam	NRI			
3	2	Auxiliary Feedwater Pump X-1 Discharge	6-07-11	Period-2 Exam	NRI			
12	2	Charging Injection 8801A & B to 8820	6-04-11	Period-2 Exam	NRI			
17	2	Accumulator Injection Loops 1-4, Sample Lines to 9352A-D, Test & Fill lines to 8878A-D	6-04-11	Period-2 Exam	NRI			

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PG&E				DIABLO CANYON POWER P	PLANT - UNIT 2
THIRD	INTERVA	L, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT	(2R16)	MAJOR ITEM: PRESSURE 1	TESTS
ASME	SECTION X	XI SYSTEMS - CLASS 1 & 2		PAGE 2 of 2	
TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
19A	2	SI Pump Suction Piping	5-31-11	Period-2 Exam	NRI
22	2	Safety Injection Pumps Discharge to Hot Legs from 8802A & B to 8904A-D	6-04-11	Period-2 Exam	NRI
27	2	Cont Spray Pump Disch Piping to 9006A	5-25-11	Period-2 Exam	NRI
28	2	Cont Spray Pump Disch Piping to 9006B	5-24-11	Period-2 Exam	NRI
30	2	CCW Supply & Return to Cont Fan Coolers, RCPs and XS Letdown Heat Exchanger	5-31-11	Period-2 Exam	NRI
32	2	RX Vessel Level Indication and Vent System	6-04-11	Period-2 Exam	NRI

28

### **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 2R16.

#### PG&E

#### DIABLO CANYON POWER PLANT - UNIT 2

		SECOND PERI YSTEMS - CO			IG OUTAGE F	EPORT (2R16	-	MAJOR ITEM: Containment Penetration Appendix J 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
1	V-621	Acceptable	5-19-11	63	V-663	Acceptable	6-1-11			<b></b>	· · · · · · · · · · · · · · · · · · ·
2	V-623	Acceptable	5-5-11	68	V-668	Acceptable	5-6-11				
3	V-623	Acceptable	5-18-11	69	V-668	Acceptable	5-6-11 5-19-11				
0	V-630	Acceptable	5-4-11 5-17-11	71	V-671	Acceptable	5-17-11				
1	<b>V-631</b>	Acceptable		52E	V-678	Acceptable	5-6-11				
5	V-635	Acceptable	5-25-11	52F	V-678	Acceptable	5-6-11				
5	V-645	Acceptable	5-9-11	78A	V-678	Acceptable	5-6-11				
lA	V-651A	Acceptable	5-20-11	78B	V-678	Acceptable	5-6-11				
2A	V-652A	Acceptable	5-12-11	82A	V-682A	Acceptable	5-7-11				
5	V-656	Acceptable	5-14-11	82B	V-682B	Acceptable	5-12-11				
	V-661	Acceptable	6-1-11	82C	V-682C	Acceptable	5-12-11				
	V-662	Acceptable	6-1-11								

# **SECTION H**

# PRESERVICE INSPECTION ITEMS

(Class 1, 2 & 3)

.

#### DIABLO CANYON POWER PLANT -- UNIT 2

THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORT	<b>MAJOR ITEM: PSI</b>	
(2R16)		•
ASME SECTION XI SYSTEMS - CLASS 1, 2, & 3 PRESERVICE INSPECTION ITEMS		

#### PAGE 1 of 3

The required preservice inspections were performed on 32 components and 6 supports during the sixteenth refueling outage.

CATEGORY	Name of Component	System	Exam Type	Work Order No.	Other Ident. Line No	Notes
	····					
B-G-2	Line-729	07	VT-1	64025061	RV-8010A	Replace RV inlet flange bolting
	Line-728	07	VT-1	64025864	RV-8010B	Replace RV inlet flange bolting
	Line-729	07	VT-1	64025213	RV-8010C	Replace RV inlet flange bolting (1 stud rejected)
	Line-729	07	VT-1	64025213	RV-8010C	Replace one inlet flange bolt
B-M-2	RV-8010A SPARE	07	VT 3-2	60017086	S/N U12S	Converted to Steam Seat
	RV-8010B SPARE	07	VT 3-2	60030977	S/N U2B	Converted to Steam Seat
	RV-8010C SPARE	07	VT 3-2	60013619	S/N U1A	Converted to Steam Seat (also inspected and reported in 2R15)
F-A	413-537SL	04	VT-3	60035923	S/N 1744	Replaced pressure retaining part
	SG 2-1, 2-2, 2-3, 2-4 LLS	07	VT-3	68015345	SG Lower Lateral Supports	Steam Generator Replacement Project (SGRP) attachments.
	SG 2-1, 2-2	07	VT-3	68011825	SG Lower Lateral Supports	SGRP attachments.
	SG 2-3, 2-4	07	VT-3	68011826	SG Lower Lateral Supports	SGRP attachments.
	CCP 2-2 Base plate	08	VT-3	68012080	CCP 2-2	Modified Pump Base Plate
	CCP 2-2 Base plate	08	VT-3	68011987	CCP 2-2	Installed New Pump Base Fin & Pin block

#### DIABLO CANYON POWER PLANT - UNIT 2

# THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORTMAJOR ITEM: PSI(2R16)(2R16)

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

#### PAGE 2 of 3

CATEGORY	Name of Component	System	Exam Type	Work Order No.	Other Ident. Line No	Notes
Pressure Tests Follo	wing Repair/Replacements	•••••				
	ASP1	17	VT-2	60023982	ASW PP 2-1	Replaced Pump
	SW-2-34	17	VT-2	64014329	Line-5199-4"	Replaced Valve
	SW-2-170	17	VT-2	64014330	Line-5199-4"	Replaced Valve
	SW-2-301	17	VT-2	64014331	Line-5198-4"	Replaced Valve
	SW-2-303	17	VT-2	64014332	Line-5199-4"	Replaced Valve
	MU-0-968	16	VT-2	60003281	Line-386-4"	Replaced Valve
	MU-0-727	16	VT-2	60003281	Line-386-4"	Installed spacer
	DEG-2-TCV-4	21		64004850	DEG-2-1	Replaced Valve
	DEG-2-TCV-3	21	VT-2	64004851	DEG-2-2	Replaced Valve
	DEG-2-TCV-5	21	VT-2	64004852	DEG-2-3	Replaced Valve
	CST NOZZLE - N3	09	VT-2	60032778	N/A	Cut line and Plug nozzle
	FW-2-LCV-113	03	VT-2	60035819	Line-577-3"	Replaced Bonnet
	MS-2-5399	04	VT-2	60021139	K15-1 1/2"	Replaced Valve

#### DIABLO CANYON POWER PLANT -- UNIT 2

# THIRD INTERVAL, SECOND PERIOD, FIRST REFUELING OUTAGE REPORTMAJOR ITEM: PSI(2R16)(2R16)

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

#### PAGE 3 of 3

CATEGORY	Name of Component	System	Exam Type	Work Order No.	Other Ident. Line No	Notes
Pressure Tests Fo	ollowing Repair/Replacements,	continued:				
	MS-2-RV-3 MS-2-RV-4	04 04	VT-2 VT-2	64014875 64014884	Line-228-8" Line-228-8"	Replaced RV Replaced RV
	MS-2-RV-5	04	VT-2	64014885	Line-228-8"	Replaced RV
	MS-2-RV-6	04	VT-2	64014886	Line-228-8"	Replaced RV
	MS-2-RV-222	04	VT-2	64014887	Line-228-8"	Replaced RV
	CCP2	08	 VT-2	68011987	CCP-2-2	Replaced Pump
	CCP-2-2 Disch	08	VT-2	68015642	Line-46-4"	Installed Spacer / Installed RO
	CVCS-2-RV-8117	08	VT-2	64004515	Line-4002-2"	Replaced RV
	CVCS-2-RV-8121	08	VT-2	64005669	Line-62-4"	Replaced RV
	RCS-2-RV-8010A	07		64025061	Line-729-6"	Replaced RV
	RCS-2-RV-8010R	07	VT-2	64025864	Line-728-6"	Replaced RV
	RCS-2-RV-8010C	07	VT-2	64025213	Line-727-6"	Replaced RV
	SI-2-RV-8856B	09	VT-2	64004500	Line-119-2"	Replaced RV
	CCW-2-RV-52	14	VT-2	64004513	Line-1657-4"	Replaced RV

# **SECTION I**

# **REPAIRS AND REPLACEMENTS (NIS-2)**

(Class 1, 2 & 3)

1. Owner	Pacific Gas and El	ectric Company						Date	8/5/2011
		n Francisco, CA 9	4106						1 of 1
-			1200					Sheet .	<u> </u>
2. Plant	<b>Diablo Canyon Po</b>	wer Plant						Unit	2
-	P.O. Box 56, Avila	Beach, CA 93424						•	
2 W. 1 D.		•							
3. Work Per	formed by	Owner					<u>. 0 </u>	<u> </u>	1.51
		See Abo	ove			Re	pair Org. P.C	. NO., J	od ino., etc.
4. Identificat	ion of System		Feedwate	er System (03)					
	•								
			·						
	cable Construction C	and the second s		·	Addenda,	_ c	ode Case,		
	cable Edition of Sect		Repair / Replace	ement Activity -	2001 Ad	denda,	02 / 03		
(c) Applic	able Section XI Cod	e Case(s), None							
6. Identificat	ion of components.								
								Pri	ASME
Name of	Name of	Manufacturer Serial	National	Work Order	Other	Year	Corrected,	Pressure	Code
Component	Manufacturer	No.	Board No.	No.	Identification Line No	Built	Removed, or Installed	e Test	Stamped
								1 st	(Yes or No)
	Control								
FW-2-LCV-11	3 Components INC.	12428-1-3	N/A	60035819-0010	Line-577-3"	1985	Installed (1)		No
FW-2-380	Anchor Darling	E6871-6-3	N/A	60036394-0010	Line-572-3"	1988	Installed (2)		No
					<u> </u>	L			į
7. Description	of Work (1	) Replaced Bonnet, Bo	lting and Internal	s, (2) Replaced Interna	als.				
8. Tests Cond	voted: Hvv	drostatic 🔲	Pneumatic	Nomina	l Operating Pressure	M	Exempt		
0. 1000 0000	•		Pressure See		Test Temp. am		схетр		
				<u> </u>					
9. Remarks	(1) AFW pump 2-	-3 disch = 1500 psig.					······		
				TE OF COMPLIA			_		
Type Code Sy	e statements made in th	-	that this comform Certificate of Auth	-	of the ASME Code, N/A	Section X Expiration		/A	
1 900 0000 091	noor bramp	Da &	A		N/A	Expland		-1	
Sig Owner or Ow		160.1	k Nugent		Engineering M			-8/	16/11
(Owner or Ow	her sidesignee)	rat	ck Nugent		(Title)			4	(Date)
				ATE OF INSPECT					
-	ned, holding a valid con	-			•				
State or Provin		-	And employed by		HSB-CT	- <sup>of</sup>	H	artford, C	
	the components describ the best of my knowle				/10 , 2009	to res descrit	ed in the Owne	7/05 r's Renc	<u>,2011</u> ,
accordance with	h the requirements of the	e ASME Code, Sectio	n XI. By signing	this certificate, neither	the Inspector nor his	s employe	r makes any wa	rranty, e	xpressed or
	rning the examinations						r nor his employ	er shall	be liable in
	61.	property comego or ion	-	-	-				
	prem		Inspector	8/16	2011 Con	mmission	CA 1828 - N	В 9990	A.N.I.C
Noto: Same	Kenny D. Kim	oflicta akatahan	(Title)	(Date)		(State or	Province, Nat	onal Bo	ard)
included on ea	nental sheets in the form ch sheet, and (3) each s	heet is numbered and the	he number of she	ets is recorded at the top	> 0 1/2 x 11 m., (2) 1 > of this form.	niormatio	n in nems 1 thr	ougn 6 0	n unis report is
<u> </u>	······								

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1. Owner	Pacific Gas and E								8/5/2011
	77 Beale Street, Sa	n Francisco, CA 9	4106				S	heet .	<u>1</u> of <u>2</u>
2. Plant	Diablo Canyon Po	the second s						Unit	2
	P.O. Box 56, Avila	Beach, CA 93424		<u>.</u>					
3. Work Per	formed by	Owner							
		See Ab	ove			Re	pair Org. P.O.	No., J	ob No., etc.
4. Identifica	tion of System	T(	urbine Steam	Supply System (0	4)	<del>86</del> -			
(b) Appli (c) Appli	<ul> <li>5. (a) Applicable Construction Code (See R/R Plans) Edition, (b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity - (c) Applicable Section XI Code Case(s), None</li> <li>6. Identification of components.</li> </ul>								
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)
MS-2-PCV-2	2 Copes -Vulcan Inc.	6910.95009	N/A	60006131-0200	Line-225-8"	1985	Installed (1)		No
MS-2-PCV-2	2 Copes -Vulcan Inc.	6910.95009	N/A	60006131-0700	Line-225-8"	1985	Corrected (2)		No
MS-2-PCV-2	2 Copes -Vulcan Inc.	6910.95009	N/A	60010848-0010	Line-225-8"	1985	Installed (3)		No
MS-2-PCV-2	l Copes -Vulcan Inc.	6910.95009	N/A	60016110-0020	Line-226-8"	1985	Installed (3)		No
7. Description			ing, (2) Drilled	and tapped damaged bo	lt hole / fabbed and	installed 1	new step stud,		
		b) Replaced internals.		<u> </u>					·
8. Tests Cond	•	rdrostatic 🔲 er 🔲	Pneumatic Pressure See		l Operating Pressure Test Temp. see	e⊠ ermks	Exempt 🔲 °F		
9. Remarks		1 1 = 930 psig, Thot = 5			1030 Temp		-		
9. Kellarks	Main Steam Lead	11 – 950 psig, 110t – .	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
			CERTIFICA	TE OF COMPLIA	NCF				
-		-	that this comfor	ms to the requirements	of the ASME Code,				
Type Code Sy	mbol Stamp	$\beta = \delta$	Certificate of Aut	horization No.	N/A	Expiration	on Date N/	A	
-	med mer'sDesignee)	Patr Patr	ick Nugent		Engineering M (Title)			8/1	<b>b/(/</b> (Date)
			/						
I, the undersig	ned, holding a valid cor	nmission issued by the		ATE OF INSPECT		l the			
State or Provis	nce of Ca	llifornia,	And employed by	, <u> </u>	HSB-CT	of	Hai	tford, C	т
	the components descrite the best of my knowledge to the best of my knowledge to the best of my knowledge to the best of the be			eriod 12 ed examinations and take	/10 , 2009	to res descril		7/05 's Reno	<u>,2011</u> ,
accordance wi implied, conce	th the requirements of the the examinations	he ASME Code, Section and corrective measure	n XI. By signing es described in th	this certificate, neither is Owner's Report. Furt sing from or connected	the Inspector nor his thermore, neither the	s employe e Inspecto	r makes any war	ranty, e	xpressed or
E	Stem	·····	Inspector	8/16,	12011 Con	mmission	s CA 1828 - NI	3 9990	A.N.I.C
Note: Suppley	Kenny D. Kim mental sheets in the for	n of lists, sketches, or o	(Title) trawings may be	(Date) used provided (1) size is			Province, Natio		
				ets is recorded at the top		monnado		- U U 113-	

1. Owner	Pacific Gas and Elec	tric Company		Date	8	/5/2011	
	77 Beale Street, San	Francisco, CA 94106		Sheet	2	_ of	2
2. Plant	Diablo Canyon Pow	er Plant		Unit		2	
	P.O. Box 56, Avila B	each, CA 93424					
3. Work Pe	rformed by	Owner					
	-	See Above	Repair O	rg. P.O. No.,	Job No.	., etc.	
4. Identific	ation of System	Turbine Steam Supply System (04)					
(b) Appl	icable Construction Code licable Edition of Sectior icable Section XI Code (	XI Utilized for Repair / Replacement Activity - 2001	····,	ode Case, 2 / 03			•

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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)
Spare MSSV	Dresser Ind.	BM7853	N/A	60018844-0010	S/C D957853	Unk	Installed (3)		No
Spare MSSV	Dresser Ind.	BM07857	N/A	60018844-0020	S/C D957854	Unk	Installed (3)		No
Spare MSSV	Dresser Ind.	BN1750	N/A	60018844-0010	S/C D957855	Unk	Installed (3)		No
Spare PCV Trim Set	Copes -Vulcan	N/A	N/A	60021106-0010	S/C D951995	Unk	Installed (8)		No
MS-2-5399	Velan	041032-2 *	N/A	60021139-0010	Line-K15-1.5"	Unk	Installed (4)		No
Spare MSSV	Dresser Ind.	BN1455	N/A	60021923-0020	S/C D937965	Unk	Installed (3)		No
Spare MSSV	Dresser Ind.	BM7869	N/A	60021924-0010	S/C D937965	Unk	Installed (3)		No
MS-2-PCV-21	Copes -Vulcan	6910.95009	N/A	60022679-0020	Line-226-8"	Unk	Installed (5)		No
413-537SL	Pacific Scientific	1744	N/A	60035923-0200	Line-1066-24"	1985	Installed (6)		Yes
MS-2-RV-3	Dresser Ind	BM07848	N/A	64014875-0100	Line-228-8"	1984	Installed (7)	$\boxtimes$	No
MS-2-RV-4	Dresser Ind	BN1455	N/A	64014884-0100	Line-228-8"	1984	Installed (7)	$\boxtimes$	No
MS-2-RV-5	Dresser Ind	BN01748	N/A	64014885-0100	Line-228-8"	1984	Installed (7)	$\boxtimes$	No
MS-2-RV-6	Dresser Ind	BM07862	N/A	64014886-0100	Line-228-8"	1984	Installed (7)		No
MS-2-RV-222	Dresser Ind	BN1454	N/A	64014887-0100	Line-228-8"	1984	Installed (7)	X	No
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7. Remarks	(3) Replaced internals, (4) Replace valve and associated piping, (5) Replaced bolting, (6) Replaced load pin & spherical bearing,	
	(7) Replaced RV & inlet bolting, (8) Replaced inner plug of spare Trim Set.	
	* = Manufacturer's Code Data Report attached.	

## DATA PACKAGE NO. 041032

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.lof 2

									•		
<b>1.</b> Ma:	nufactured an	d certified b	y	ELAN II	NC. 2125	WARD A	VE, MON	ITREAL QUE	EBEC CANAD	<u>A H4</u> ]	M1T6
			•		ame and addre				•		
2. Mar	nufactured fo	FRAMATOME	ANP.	331	·····			YNCHBURG	VA., USA	, 24!	501
					(name and ad		rchaser)				
3. Lo	cation of ins	tallation			N/						
4 35	1 7 m				(name and ad						(-
4. MOC	del No., Seri	es No., or Ty	pe: <u>G</u>	ALE .	Drawin	na <u>br-</u>	76800-	NUL Rev	H CRN	N	/A
5 10	m ande Ceat	ion TTT Dini		1.0	200	NO		-			/>
	ME Code, Sect	ion iii, bivi	STOU I:		ition)	(adder	NE	(cla	<u> </u>		A Case no.)
6 Du	np or valve		ominal i			(adder 1 1/		· · · · · ·	ize 1		
0. 100	10 OL 10110 _					(in.)	<u> </u>	OULIGE B	(in.)	1/2	
7. Mat	terial: Body	SA-105	Bonnet	SA-10	5	<b>N</b>	SA-35	1, CF8M	<b>N</b>	SA-1	93.GR 87
								<u> </u>			94, GR 2H
									•		, OK 211
	(a)	(Ъ)			(c)			(đ)		(	(e) ·
i	Cert.	Nat'l			Body			Bonnet			isk
	lder's	Board			Serial			Serial			rial
	ial No.	No.			No.			No.			io.
										_,	••
04	1032-1	N/A		H/C:	MMOJT2		H/C:	V-I	H/C	. 1	1K
	1032-2	<u>N/A</u>		H/C:	MMOJT2	<u> </u>	H/C:	V-I	<u><u> </u></u>		1K
	1032-3	N/A		H/C:	MMOJT2		H/C:	V-I	H/C		1K
	1032-4	N/A		H/C:	MMOJT2		H/C:	V-I	H/C	: 1	1K .
.04	1032-5	N/A		H/C:	MMOJT2		H/C:	V-I	H/C	: 1	.1K
04	1032-6	N/A		H/C:	MMOJT2		H/C:	V-I	H/C:	; 1	.1K
04	1032-7	<u>N/A</u>	<u>.                                    </u>	H/C:	MMOJT2		H/C:	V-I	<u>H/C</u>	: 1	1K
04	1032-8	<u> </u>		H/C:			H/C:	<u>v-i</u>	H/C:	1	<u>1K</u>
04	1032-9	<u>N/A</u>		H/C:			H/C:	V-I	<u>H/C</u> :	<u> </u>	1K
						<u> </u>		<u>====</u> =		: =	
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Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

FRA-ANP **OP SUP** REG

3aor 2

PAGE

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

Ç

	•		Certificate He	older's Serial N	₩o. <u>041032</u>
8. Design conditions	1975 (pressure)	psi <u>100</u> (temperatu	"F or valve p	ressure class	800 (1)
9. Cold working pressu		psi at 100°			
10. Hydrostatic test	2975 g	si. Disk diffe	rential test pressu	re 2175	psi
11. Remarks: MATERL	ALS MEET ASME	SECTION II EDI	TION: 1989 ADDENDA	: NONE	
· · · · · · · · · · · · · · · · · · ·				······································	
	·	CERTIFICATE OF	DESIGN		
Design Specification of Design report certifie		M. LAVIGNE S. ISBITSKY	P.E. StateQUE P.E. StateQUE	Reg. no. 400 Reg. no. 221	
	c	CERTIFICATE OF C	OMPLIANCE		
We certify that the st valve conforms to the N Certificate of Author	rules for con	struction of the	e ASME Code, Section		
Date <u>MAY 1 4 2004</u>		AN INC. Certificate Holder)	Signed (authori	<u>DODMOD</u>	
<b></b>					<u> </u>
•		ERTIFICATE OF I		•	
I, the undersigned, h Pressure Vessel Inspec <u>REGIE DU BATIMENT</u> this Data Report on <u>b</u> belief, the Certificate Code, Section III, Div	tors and the of <u>OUEBEC</u> 2 <u>4</u> 25/2000 e Holder has c	State or Provin Chave A, and	ce of <u>QUEBEC</u> inspected the pump state that to the b	and emp: , or valve, desc est of my knowle	loyed by ribed in edge and
By signing this certification expressed or implied, neither the inspector reproperty damage or a log Date 1225/2004 sign	concerning the nor his employ oss of any kir	he component de er shall be liab d arising from	scribed in this Dat ole in any manner for or connected with the missions QUEBEC	a Report. Furth	hermore, njury or C#13813
1) For manually operated	valves only.				RA-ANP DP SUP REG

PAGE Haof 23a

1. Owner	Pacific Gas and El	ectric Company						Date	8/5/2011		
		Beale Street, San Francisco, CA 94106									
					<u> </u>			-	1 of 2		
2. Plant	Diablo Canyon Po			Unit _	22						
	P.O. Box 56, Avila	Beach, CA 93424									
3. Work Per	formed by	Owner									
		See Ab	ove			Re	pair Org. P.O.	No., Jo	ob No., etc.		
							• •				
4. Identifica	tion of System		Reactor Coo	plant System (07)	_						
5 (a) Appl	cable Construction C	ode (See P/	R Plans)	Edition.	Addenda,	ſ	Code Case,				
• • • • •	icable Edition of Sect			·	· · · · · · · · · · · · · · · · · · ·	denda,	02 / 03				
•••••	cable Section XI Cod		copuit / Replace	inone routing		aonaa,					
( / 11											
6. Identifica	tion of components.										
		T					I				
		Manufacturer			Other		Corrected.	Pressure Test	ASME		
Name of	Name of Manufacturer	Serial	National Board No.	Work Order No.	Identification	Year	Removed,	ure	Code Stamped		
Componen	Manufacturer	No.	Board No.	110.	Line No	Built	or Installed	ſest	(Yes or No)		
<del></del>									· · · · ·		
Spare Pzr R		U12S U2B	Unk Unk	60017086-0010 60030977-0010	S/C 957861	Unk	Installed (1)	M	Yes		
Spare Pzr R' RCS-2-	Target Rock				S/C 957862	Unk	Installed (1)		Yes		
8078A/B	Corp.	9082837-004 *	N/A	60032303-0010	Line-6010-1"	2009	Installed (2)		No		
RCS-2- 8078C/D	Target Rock Corp.	9082837-005 *	N/A	60032303-0020	Line-6009-1"	2009	Installed (2)	⊠	No		
SG-02-02SL NE		1695	N/A	60036548-0020	SG-2-2	1984	Installed (3)		No		
······································			<b></b>		I	L	I	L	·		
7. Description		) Replaced internals (c		eat), (2) Replaced Head	vent spool piece a	ssembly	S/C D962038,				
		) Replaced control un	t hald line tee.				······				
8. Tests Cond	hustadı i Un	drostatic	Pneumatic	Nomina		. 173	Enormal [7]				
6. Tests Cont		er 🗌		rmks PSIG	l Operating Pressure Test Temp. se	≈ i∆i cermiks	Exempt				
						~ 1111K3	•				
9. Remarks	RCS = 2244 psig										
	* = Manufacture	's Code Data Report at	tached,				<u>.</u>		·		
				TE OF COMPLIA							
	he statements made in th			-							
Type Code Sy	mbol Stamp	17	Certificate of Auth	norization No.	N/A	Expiration	on Date N/	^ 7			
	gned	K- del		<b>-</b>	Engineering N			3/	16/1		
(Owner or Ov	mer'sDesignee)	Pati	ick Rugent		(Title)			(	(Date)		
				ATE OF INSPECT							
	med, holding a valid con				-						
State or Provi	d the components descri		And employed by	·	HSB-CT /10 , 2009	_ of		tford, ( 7/05	, 2011 ,		
and state that	to the best of my knowl	edge and belief, the Ov	vner has performe	d examinations and take	en corrective measu	res descri	bed in the Owner	's Repo	rt in		
	ith the requirements of t										
	erning the examinations or any personal injury or						a nor ms empioye	a snail	oc naoie in		
1	GAN.		Increator	alu	1		- CA 1930 M				
<u>/</u>	Kenny D. Kim		Inspector (Title)	8/16 (Data)	2011 Co	(State of	s CA 1828 - NI Province, Natio	nol 12^	n.N.1.U		
Note: Sunnle	mental sheets in the form	n of lists, sketches, or	· ·	· · · ·							
	ach sheet, and (3) each s										

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		Gas and Electric							Date		8/5/2011
_	77 Beale	Street, San Fra	ncisco, CA 9410	6					Sheet .	2	of 2
		Canyon Power P k 56, Avila Beacl							Unit _		2
<u> </u>	P.O. B0	x 50, Aviia Beaci	1, CA 93424					<u> </u>			
3. Work Perfor	rmed by		Owner								
			See Abov	e	· · · · · · · · · · · · · · · · · · ·		Repa	air Org. P	.O. No.	, Job No	)., etc.
4. Identificatio	on of Sys	tem	Reacto	or Coolan	t System (07)						
• / ••	ble Editi ble Secti	on of Section XI on XI Code Case	-		tion, ment Activity -	Addenda, 2001 A		Code ( 02 / 03	Case,		
0. Identificano		iponents.									
Name of Componer		Name of Manufacturer	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Correc Remove Instal	d, or	Pressure Test	ASME Code Stamped (Yes or No)
· · · · · · · · · · · · · · · · · · ·											
RCS-2-RV-80		Crosby Valve	U12S	N/A	64025061-0200	Line-729-6"	2009	Installe	<u> </u>	X	Yes
RCS-2-RV-80		Crosby Valve	UIA	N/A	64025213-0200	Line-727-6"	2009	Installe	d (4)	Ø	Yes
RCS-2-RV-80		Crosby Valve	<u>U2B</u>	N/A	64025864-0200	Line-728-6"	2009	Installe	d (4)	X	Yes
Stm Gen Spt Str LLS 113' e	el.	PG&E	N/A	N/A	68011825-0010	SG 2-1, 2-2	1984	Installe	d (5)		No
Stm Gen Spt Str LLS 113' e		PG&E	N/A	N/A	68011826-0010	SG 2-3, 2-4	1984	Installe	d (5)		No
Stm Gen Spt Str LLS Handrail a		PG&E	N/A	N/A	68015345-0100	SG 2-1, 2-2, SG 2-3, 2-4	1984	Installe	d (5)		No
				<u> </u>							
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				<u> </u>			<u> </u>	<u> </u>			<b> </b>
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				<u> </u>			<del> </del>	<u> </u>			
				L		l	<b>I</b>	L			i

7. Remarks

(4) Replaced RV and inlet bolting, (5) Misc welded attachments (platforms, railings & gratings).

N	UCLEAR POWER P	LANT COMPONE		TION OR SHOP ASSEN ND APPURTENANCES* ction III, Division 1	IBLY OF Pg. 1 of <u>3</u>
. Installed and certified t	by AREVA NP Inc., 33	15 Old Forest Rd, Ly			
Installed for Pacific G	as & Electric Company	(PG&E) 77 Beale S	Inems and eddress of N or NA Co Ireel, San Francisco, CA 9	rtificata Holder) 4105, (USA)	•
	Dieble Canvon Bow		(name and address of Purchasar) D. Box 56, Avila Beach, C/		
. Location of installation	·	· · · · · · · · · · · · · · · · · · ·	(namo and address)	•	
System Identification	Sub Assembly SOV 4	8082837-004	02-9082837E Rev 002	N/A N/A (CRN) (National B	2009
ASME Code, Section III	· •	(Cert. Holder's serial no.) 2001	(drawing no.) 2003		5. nn.) (ycar installed) 4-411-1
• • • • • • • • • • • • • • • • • • • •	•		taddenda dele) c., 3315 Old Forest Rd, Lyr	(dass) achbura VA 24501	(Code Case no.)
. N Certificate Holder ha	•		(n)	sme and address)	
•		and supports installe	ed: (List each item and atta	ach copies of N Certificate H	olders' Data Reports and
NPT Certificate Holder	's Data Reports.)				
Components	(h) h)				
(a) Comp. or Appurt.	(b) Name of Certificate Holder	(c) Serial No	. (d) CRN No.	(e) National Bd. No.	(f) Year Built
1° Salenaid Operated Velve Model 08H-001	Terost Rock	SIN: 3, SIN: 4	N/A	NIA	N/A
	1966E Broadhollow Road		····		. <u> </u>
•	E. Farmingdale, NY 11735			•	
Piping and part installa		<u> </u>	· · · · · · · · · · · · · · · · · · ·	······································	
(a) Piping or Part	(b) Name of				(f) Year Built-Parts
Subassembly	Certificate Holder	(c) Serial No		(e) National Bd. No.	N/A Only
<u> </u>	N/A	N/A	N/A	<u>N/A</u>	N/A
		···· ······			- <u> </u>
				·····	• • • • • • • • • • • • • • • • • • • •
Support installation					• • • • •
oupport instanction	(b) Name of	(d)	Design Rept/Load		
(a) Support No. N/A	Certificate Holder N/A	(c) Serial No. C. N/A		RN No. (f) National Bd. N/A N/A	No. (g) Year Built N/A
	17/6	N/A	N/A		
		······			
	······································				
Additional material exclu	uding welding material				,
	Manufacturer		Material Spec. No.		ionsOverail
		See sheel 3			
See sheet 3			· · ·	See sheet 3	
<u>See sneet 3</u>			······································		·
<u>&gt;ee sneel 3</u>					•
	tee with	-			
Installation in accordan	Procedure or Drawing i			Prepared by	
Installation in accordan	Procedure or Drawing i		DH Wood		
Installation in accordan 50-9073849 Rev 000 as mod 02- 9062837E Rev 002	Procedure or Drawing i ifiad by 30-9111841 Rev 000		DH Wood DH Wood		
Installation in accordan 50-9073849 Rev 000 as mod 02- 5082837E Rev 002 02- 5045308D Rev 007, and 0	Procedure or Drawing i illed by 30-9111841 Rev 000 	NO.	DH Wood DH Wood DH Wood	Prepared by	BENE
Installation in accordan 50-9073849 Rev 000 as modi 02- 5082837E Rev 002 62- 5046308D Rev 007, and 0 Hydrostatic test pressu	Procedure or Drawing i illed by 30-9111841 Rev 000 		DH Wood DH Wood	Prepared by	temp
Installation in accordan 50-9073949 Rev 000 as mod 02- 9082837E Rev 002 02- 9046308D Rev 007, and 0 Hydrostatic test pressu Remarks	Procedure or Drawing i iflad by 30-9111841 Rev 000 2-9048310D Rev 005 re 3107 PSiG	No.	DH Wood DH Wood DH Wood 	Prepared by ssure	temp
Installation in accordan 50-9073949 Rev 000 as mod 02- 9082837E Rev 002 02- 9046308D Rev 007, and 0 Hydrostatic test pressu Remarks	Procedure or Drawing i ified by 30-9111841 Rev 000 2-9046310D Rev 005 re	No. at temp	DH Wood DH Wood DH Wood DH Wood System design pre ed Design Specification 08	Prepared by ssure	temp,
Instellation in accordan 50-9073949 Rev 000 as mod 02- 9082837E Rev 002 02- 9046308D Rev 007, and 0 Hydrostatic test pressu Remarks Piping subassemblies f	Procedure or Drawing i ified by 30-9111841 Rev 000 2-9046310D Rev 005 re	No. at temp	DH Wood DH Wood DH Wood DH Wood System design pre ed Design Specification 08	Prepared by ssure	temp
Installation in accordan 50-9073949 Rev 000 as mod 02-9082837E Rev 002 02-5046308D Rev 007, and 0 Hydrostatic test pressu Remarks Piping subassemblies f	Procedure or Drawing i illed by 30-9111841 Rev 000 2-9048310D Rev 005 re 3107 PSIG abricaled in accordance narked with serial numi ;	No. at temp	DH Wood DH Wood DH Wood DH Wood System design pre ed Design Specification 08	Prepared by ssure	temp850'F
Installation in accordan 50-9073949 Rev 000 as mod 02- 9082837E Rev 002 02- 9046308D Rev 007, and 0 Hydrostatic test pressu Remarks Piping subassemblies f	Procedure or Drawing i ified by 30-9111841 Rev 000 2-9046310D Rev 005 re	No. at temp	DH Wood DH Wood DH Wood DH Wood System design pre ed Design Specification 08	Prepared by ssure	temp

Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 8½ × 11; (2) information in items 1 and 4 on this Data Report is included on each sheet; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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	FORM N-5 (Back — Pg.	2 of <u>3</u> )		
•	•	Certifica	te Holder's Serial No	9082837-004
CER	TIFICATION OF DESIGN FOR	PIPING SYSTEM	(	
Design information on file at AREVA NP Inc., 3315	Old Forest Rd, Lynchburg VA	. 24501	. <u> </u>	
Design report on file atAREVA NP Inc., 3315 Oi	d Forest Rd, Lynchburg VA, 2	4501	) 	
Design specification certified by Larry Davis	·	P.	E. State <u>CA</u>	Reg. no. <u>M33472</u>
Design report certified by	ton.	P.	E. StateCA	Reg. no
Design conditions of pressure piping <u>2485</u>	psi. Temp.	650	; <u>}</u>	
ÇE	RTIFICATE OF INSTALLATIO		•	
We certify that the statements made in this report Section III, Division 1, and was performed in accorda			he rules for constru	ction of the ASME Code,
N or NA Certificate of Authorization No.	N/A		Expires	N/A
DateN/A Name	N/A	Signed	; N/A	•
	(N or NA Cartificate Holder)		: (Buthorized r	apresentativa)
	ERTIFICATE OF INSTALLATIO	ON INSPECTION	2	
I, the undersigned, holding a valid commission iss of and employed by	N/A			nd the State or Province
of <u>N/A</u> have inspected the ins state that to the best of my knowledge and belief,				and
ASME Code, Section III, Division 1.		•	•	
By signing this certificate neither the inspector nor in this Data Report. Furthermore, neither the inspec				
or a loss of any kind arising from or connected with	• •	<b>, , , ,</b>	: :	
N/A Date Signed	N/A	Commissions _	≀ N/A	
	withorized Nuclear Inspector)		Nat'l. Bd. (Incl. endorsem	ents) and state or prov. and no.]
CÉRTIFICA	TE OF COMPLIANCE FOR O	/ERALL RESPONSIBIL	ίτγ	
Following completion of the above, the Certificate	of Authorization Holder acc	epting overall respons	sibility for the pipin	g system shall complete
the following statement. We certify that the statements made by this repor Code, Section III, Division 1.	t'are correct and that the pl	ping system conform	$\frac{1}{2}$ to the rules for c	onstruction of the ASME
	1650	Expires '	June 12, 2012	
	REVA NP Inc.	Signed	Michael	Presentative)
	CERTIFICATE OF INS	PECTION	·	
I, the undersigned, holding a valid commission iss		•	; Vessel Inspectors a	nd the State or Province
of and employed by	HSB-CT piping system described in t	· · · · · · · · · · · · · · · · · · ·	7/16/0	8
state that to the best of my knowledge and belief,	the Certificate Holder has c	onnected this piping :	system in accordan	ce with the ASME Code,
Section III, Division 1. By signing this certificate, neither the inspector nor h in this Data Report. Furthermore, neither the inspec or a loss of any kind arising from or connected with	tor nor his employer shall be	anty, expressed or imp a liable in any manner	ied, concerning the for any personal in	piping system described jury or property demage
	NR. HAT	an .	•	
Date <u>116/07</u> Signed <u>Signed</u>	uthorized Nuclear Inspector)	Commissions	5656 ABN, VA National Bd. (Incl. endorsar	A, 105R ments), and state or prov. and no.1
09/06}			<u></u>	1
	:		•	

#### CERTIFICATE HOLDERS' DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Code Section III

Pg. \_3\_ of \_3\_\_

· ·	Certificate Holder's Serial Nos.	<u>S/N 9082837-004</u>
Attachment to ASME F	ORM N-5 for Subassembly SO	/-4.

## 1. Installed and Certified by: <u>AREVA NP, 3315 Old Forest Rd, Lynchburg VA, 24501</u>

4. System Identification: <u>Subassembly SOV-4, S/N 9082837-004, Drawing 02-9082837E Rev</u> 002, CRN: N/A, National Board no: N/A, Year Built: 2009.

		SUB-ASSEMBLY SOV-4 - S/N 9082837-004		
Qty	Manufacturer	Description	Heat #	Overall Dimensions
3PC	Energy and Process Corporation	1" SCH 160 SEAMLESS PIPE, SA-376 TP 304	HT# 39131	Ø1.32x6.75 Ø1.32x10.5 Ø1.32x4.80
2	Energy and Process Corporation	1" R.F. FLANGE #1500 SW SCH 160 BORE, SA-182 F347	HT# 9387H	Ø5.88x1.62

#### FORM N-5 CERTIFICATE HOLDER'S DATA REPORT FOR INSTALLATION OR SHOP ASSEMBLY OF NUCLEAR POWER PLANT COMPONENTS, SUPPORTS, AND APPURTENANCES\* As Required by the Provisions of the ASME Code, Section III, Division 1

2. Installed for Pacific G	as & Electric Compan	y (PG&E) 77 Beale	Street, San Francisco, CA 94	105, (USA)		
3. Location of installation	Diablo Canyon Pov	ver Plant P.O. Box	(name and address of Purchaser) 56, Avila Beach, CA. 94354	4 (USA)		
4. System identification	Sub Assembly SOV 5	9082837-005	(name and address) 02-9082837E Rev 002	N/A	N/A	2009
•	(system name)	(Cert. Holder's sefial no.) 2001	(drawing no.) 2003	(CRN) Class 1	(National Bd.)	no.) (year installe 411-1
5. ASME Code, Section II 5. N Certificate Holder ha		(edition) hility AREVA NP In	(addenda date) ic., 3315 Old Forest Rd, Lynd	(class) chburg VA, 2450		(Code Case no.)
	parts, appurtenances,		ther ed: (List each item and attac	ne and address) ch copies of N C	ertificate Hole	ders' Data Reports :
Components						
(a) Comp. or Appurt. 1" Solanoid Operated Valve	(b) Name of Certificate Holder Targel Rock	(c) Serial No S/N: 10, S/N: 11	d) CRN No.	(e) Nationa N/A	al Bd. No.	(f) Year Built N/A
Model 08H-001	1966E Broadhollow Road		······································			
	E. Fermingdale, NY 1173	5	······			
Piping and part installa	ition		···· ··· ·····························			n - Y
(a) Piping or Part Subassembly N/A	(b) Name of Certificate Holder N/A	(c) Serial No N/A	. (d) CRN No. N/A	(e) Nationa N/A	11 Bđ. No.	(f) Year Built—Parts Only N/A
Support installation						
	(b) Name of Certificate Holder N/A		Design Rept./Load apac. Data Sheet (e) CR/ N/A		ational Bd. No.	. (g) Year Built N/A
(a) Support No. (	Certificate Holder N/A	(c) Serial No. Ca	pac. Data Sheet (e) CRI			
(a) Support No. ( N/A	Certificate Holder N/A	(c) Serial No. Ca N/A	pac. Data Sheet (e) CRI	A	V/A	N/A
(a) Support No. ( N/A	Certificate Holder N/A ding welding material Manufacturer	(c) Serial No. Ca N/A	ppac. Data Sheet (a) CRI	A	V/A	N/A
(a) Support No. (a) N/A	Certificate Holder N/A ding welding material Manufacturer ce with Procedure or Drawing j	(c) Serial No. Ca N/A	ppac. Data Sheet (a) CRI	A	(c) Dimension	N/A
(a) Support No. ( N/A Additional material exclu (a) Name of 1 See sheet 3 Installation in accordance 50-9073949 Rev 000 as modifi 02- 9092837E Rev 002	Certificate Holder N/A ding welding material Manufacturer ce with Procedure or Drawing i ied by 30-9111841 Rev 000	(c) Serial No. Ca N/A	Alterial Spec. No.	A	(c) Dimension	N/A
(a) Support No. ( N/A Additional material exclu (a) Name of i See sheet 3 Installation in accordance 50-9073949 Rev 000 as modifi	Certificate Holder N/A ding welding material Manufacturer ce with Procedure or Drawing j led by 30-9111841 Rey 000 2-9046310D Rey 005 <sup>4</sup>	(c) Serial No. Ca N/A	In Wood	A	(c) Dimension	N/A
(a) Support No. (a) N/A Additional material exclu (a) Name of 1 See sheet 3 Installation in accordance 50-9073949 Rev 000 as modif 02- 9046308D Rev 002 02- 9046308D Rev 002, and 02 Hydrostatic test pressure Remarks Piping subassemblies fa	Certificate Holder N/A ding welding material Manufacturer ce with Procedure or Drawing i led by 30-9111841 Rev 000 2-9046310D Ray 005 6	(c) Serial No. Ca N/A	DH Wood	A	(c) Dimension	sOverall
(a) Support No. ( N/A Additional material exclu- (a) Name of 1 See sheet 3 Installation in accordance 50-9073949 Rev 000 as modifi 02-9092637E Rev 002 02-9046308D Rev 007, and 02 Hydrostatic test pressure Remarks	Certificate Holder N/A ding welding material Manufacturer ce with Procedure or Drawing i led by 30-9111841 Rev 000 2-9046310D Ray 005 6	(c) Serial No. Ca N/A	DH Wood	A	(c) Dimensions 3 d by	sOverall

\* Supplemental information in the form of lists, sketches, or drawings may be used provided: (1) size is 81/2 × 11; (2) information in items 1 and 4 on this Data Report is included on each sheet; and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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FORM N-5 (Back --- Pg. 2 of \_\_\_\_\_)

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				Certi	ficate Holde	r's Serial N	lo	2837-005
Design information on file	AREVA NP	CERTIFICATION	N OF DESIGN FOR Rd, Lynchburg VA		:			
Design report on file at	AREVA NP Inc	., 3315 Old Forest Ro	d, Lynchburg VA, 24	4501	è			
Design specification certifi		Dậvis			. P.E. State	CA	- Reg. no.	M33472
Design report certified by	James Richa	rd Harrington.			. P.E. State			•
Design conditions of press	ure piping	: 2485	psi. Temp.	650	°F.			
	•	CERTIFICATE	OF INSTALLATION	COMPLIANCE	•			
We certify that the stateme Section III, Division 1, and v					to the rules f	or constru	ction of the	ASME Code
N or NA Certificate of Auth	orization No	<u>.</u>	N/A		Ex	cpires	<u>N/A</u>	
DateN/A		(N or NA Certif	N/A Icate Holder)	Signed		N/A (authorized re	apresentative)	<del>.</del>
·····		CERTIFICATE	OF INSTALLATION	INSPECTION	;			
ofN/A state that to the best of my ASME Code, Section III, Div By signing this certificate n in this Data Report. Further or a loss of any kind arising	employed by _ have inspecte y knowledge ar ision 1. either the inspe more, neither th	t d the installation of d belief, the Certific , tor nor his employe e inspector nor his e	N/A	d in this Data Rep n Holder has per anty, expressed o	formed this	N/A installation	n in accorda he installati	and on described
N/A Date	_ Signed	. N/A		_ Commissions		N/A		
<u></u>		. N/A : (Authorized Nucle		· · · · · · · · · · · · · · · · · · ·	<u> </u>	cl. endorsema	ents) and state (	or prov. and no.)
Following completion of th the following statement. We certify that the stateme Code, Section III, Division 1. N Certificate of Authorizatio	e above, the Co		tion Holder accep	ting overall respo	onsibility for			
7/16/09	<b>N</b>	AREVA NP In	C.		Mich	ine C	fal o	y
	_ Name	(N Certificate	Holder)	Signed 		authorized re	presentative)	
		CER	TIFICATE OF INSPE	CTION				
I, the undersigned, holding of <u>Virginia</u> and en of <u>Hartford, CT</u> state that to the best of my Section III, Division 1. By signing this certificate, ne in this Data Report. Furthern or a loss of any kind arising t	mployed by have inspect knowledge and ither the inspect nore, neither th	<u>HSB-CT</u> ted the piping syste d belief, the Certifics tor nor his employer e inspector nor his e	M described in this te Holder has con makes any warrant mployer shall be li	s Data Report on nected this pipin y, expressed or in	g system in	accordanc	e with the piping system	ASME Code, m described
Date 7/16/09	Signed G	White a Multiple of Multiple o	Holehe Inspector)	Comini isions		SABN, VA		or prov. and no.]

(09/06)

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## CERTIFICATE HOLDERS' DATA REPORT SUPPLEMENTARY SHEET As Required by the Provisions of the ASME Code Section III

Pg. \_3\_ of \_3\_\_

Certificate Holder's Serial Nos. <u>S/N 9082837-005</u> Attachment to ASME F DRM N-5 for Subassembly SOV-5,

## 1. Installed and Certified by: <u>AREVA NP, 3315 Old Forest Rd, Lynchburg VA, 24501</u>

## 4. System Identification: <u>Subassembly SOV-5, S/N 9082837-005, Drawing 02-9082837E Rev</u> 002, CRN: N/A, National Board no: N/A, Year Built 2009.

		SUB-ASSEMBLY SOV-5 - S/N 9082837-005		
Qty	Manufacturer	Description	Heat#	Overall Dimensions
3PC	Energy and Process Corporation	1" SCH 160 SEAMLESS PIPE, SA-376 TP 304	HT# 39131	Ø1.32x6.75 Ø1.32x10.5 Ø1.32x4.80
2	Energy and Process Corporation	1" R.F. FLANGE #1500 SW SCH 160 BORE, SA-182 F347	HT# 9387H	Ø5.88x1.62

1. Owner       Pacific Gas and Electric Company       Date       8/5/2011         77.Back Street, San Francisco, CA 94106       Sheet       of       2         2. Plant       Date Caryon Power Plant       Unit       2         1. Owner       Steet SQ 4/18 Beack, CA 93424       Unit       2         2. Work Performed by       Owner       See Above       Repair Org. P.O. No., Job No., etc.         4. Identification of System       Chemical and Volume Control System (08)       Code Case,										
2. Plant       Diable Canyon Power Plant       Unit       2         P.O. Box 56, Avila Beach, CA 93424	1. Owner					·				
P.O. Box 55, Avita Brech, CA 93424         3. Work Performed by       Owner         See Above       Repair Org. P.O. No., Job No., etc.         4. Identification of System       Chemical and Volume Control System (08)         5. (a) Applicable Construction Code       (See RR Plans)         Edition,       Addenda,       Ocde Case,         (b) Applicable Edition of System       Concercity (Paper Construction Code Case,       Other         (c) Applicable Edition of Section XI Utilized for Repair / Replacement Activity-       2001       Addenda,       02 / 03         6. Identification of components.       Manufacturer       No.       No.       Work Order       Use of Case (Norder)       Section XI Code Case (Norder)       No.       Norder Case (Norder)       Section XI Code Case (Norder)       Section XI Code Case (Norder)       Norder Case (Norder)       Norder Case (Norder)       Norder Case (Norder)       Section XI Code Case (Norder)       Norder (Norder)       Norder)       Norder (Norder)       Norder)	-			+100				>	heet -	<u> </u>
3. Work Performed by       Owner         See Above       Repair Org. P.O. No., Job No., etc.         4. Identification of System       Chemical and Volume Control System (08)         5. (a) Applicable Construction Code       (See RR Plans)         Edition,       2001         (b) Applicable Construction Code       (See RR Plans)         Edition,       2001         (c) Applicable Section XI Code Case(s), None         6. Identification of components. <b>Name of</b> Namefacturer         Name of       Manufacturer         Spire RV       Conject Section XI Code Case(s), None         Spire RV       Conject Xi Code Section XI Code Case(s), None         Spire RV       Conject Xi Code Section XI Code Case(s), None         Spire RV       Conject Xi Code Section XI Code Case(s), None         Spire RV       Conject Xi Code Section XI Code Case(s), No.         Spire RV       Conject Xi RV And No.         6001923/2010       Stor PAY2300         Line Sine RV - Conjet View RV-2-8112/PEG       No.         Spire RV - Conoby View RV-2-8112/PEG       No. </td <td>2. Plant -</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Unit _</td> <td>2</td>	2. Plant -								Unit _	2
See Above       Repair Org. P.O. No., Job No., etc.         4. Identification of System       Chemical and Volume Control System (08)         5. (a) Applicable Construction Code       (See R/R Plans)       Edition,       Addenda,       Code Case,         (b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity-       2001       Addenda,       02/83         6. Identification of components.       Name of       Manufacturer       No.       None       Corrected,       gr       ASME         Component       Manufacturer       No.       Board No.       Work Order       Other       Removed,       Samped         Cycls 248(2)       Viak       RV2-2011       ASME       Corrected,       gr       ASME         Syme RV       Crosby Valve       RV2-211-PEO       N/A       60001493-0100       Sc D397300       Unik Installed (1)       No         Syme RV       Crosby Valve       RV2-2311-PEO       N/A       6001997-0000       Imer 27-27       Unik Installed (1)       No         Syme RV       Crosby Valve       RV2-24311-PEO       N/A       6001997-0000       Ctr2-2       1011       Installed (1)       No         CCP2-2       Hultman       N/A       6001997-0000       Ctr2-2       2011       Installed (1) <td< td=""><td>-</td><td>P.U. Box 50, Avila</td><td>Beacn, CA 93424</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	-	P.U. Box 50, Avila	Beacn, CA 93424							
4. Identification of System       Chemical and Volume Control System (08)         5. (a) Applicable Edition of Section XI Utilized for Repair (Replacement Activity- (c) Applicable Edition of Section XI Code Case(s), <u>None</u> 2001 Addends, <u>02/03</u> 6. Identification of components       ASME       Corrected, <u>8</u> ASME         8. Identification of components       State of Section XI Utilized for Repair (Replacement Activity- (c) Applicable Edition of components       No.       Corrected, <u>8</u> ASME         5. (Jentification of components       State of Section XI Utilized for Repair (Replacement Activity- (C) Component       No.       For Repair (Replacement Activity- (Rev or No)       Section XI Code Case, or Isosilled II       ASME         5. (Section XI Code Case), None       State of Section XI Utilized for Repair (Replacement Activity- (Rev or No)       Section XI Code Case, or Isosilled II       State of Components         5. (Section XI Code Case), None       State of Components       No.       State Opponents       State Opponents         Spare RV       Concept Valve       RV-2011/FEO       No.       600036622-0010       State Opponents       No.         1. Inscription of Work       (1) Replaced internation (refuenciation) No.       No.       Restate Opponents       No.       No.         2. Obscription of Work       (1) Replaced internation (refuenciation) No.       No.       State Opponents       No.	3. Work Perf	ormed by	Owner				e			
			See Abo	ove	•		Re	pair Org. P.O.	No., J	ob No., etc.
(b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity-       201       Addenda, 02 / 03         (c) Applicable Section XI Code Case(s), None       201       Addenda, 02 / 03         6. Identification of components.       8.       8.       Corrected, Renoved, Reno	4. Identificat	on of System	Chem	ical and Volu	me Control System	m (08)	_			
Computer       Hondra tria       No.       Dotar in two       No.       Line No       Built       or Installed       2       Changed State         Spare RV       Cresby Valve       RV-2-8121-PEG       N/A       60001493-0100       S/C D937300       Unik       Installed (1)       Installed (1)       No         Spare RV       Cresby Valve       RV-2-8117 PEG       N/A       60001802-0020       Line-7-2-2"       Unik       Installed (1)       No         Spare RV       Crosby Valve       RV-2-8117 PEG       N/A       600017027-0010       S/C D937300       Unik       Installed (1)       No         Spare RV       Crosby Valve       RV-2-8117 PEG       N/A       60017027-0010       S/C D937300       Unik       Installed (1)       No         C2CP2-2       HydroAire Inc.       5979-01 *       N/A       68011987-0030       CCP2-2       2011       Installed (3)       No         C2CP2-2       HydroAire Inc.       5979-01 *       N/A       68011987-0100       CCP2-2       2011       Installed (1)       No         C2CP2-2       HydroAire Inc.       5979-01 *       N/A       68011987-0100       CCP2-2       2011       Installed (1)       No         C2CP2-2       HydroAire Inc.       5979-01	(b) Applic (c) Applic	able Edition of Secti able Section XI Cod	ion XI Utilized for R			·				
CVCS-2-8487A       Velan Valve       061026-2       N/A       6000802-0020       Line-72-2       Unk       Installed (2)       No         Spare RV       Crosby Valve       RV-2-8117 PEG       N/A       60017027-0010       S/C D93736       Unk       Installed (1)       No         Line-51-2"       Pullman/       N/A       N/A       60017027-0010       At pipe clamp       1985       Corrected (3)       No         CCP2-2       HydroAire Inc.       5979-01 *       N/A       68011987-0030       CCP2-2       2011       Installed (4)       No         CCP2-2       HydroAire Inc.       5979-01 *       N/A       68011987-0110       CCP2-2       2011       Installed (5)       No         7. Description of Work       (1) Replaced internals (repuild & return to stock), (2) Replaced valve and associated piping.       (3) Base metal repair (surface indication), (4) Replaced Charging Pump, (5) Replace pump pedestal fin and pin blocks by weiding.         8. Tests Conducted:       Hydrostaic       Pneumatic       Nominal Operating Pressure       Exempt          9. Remarks       Charging discharge press = 2700 psig. at ambient temp.       .see rmks       PSIG       Test Temp.       sec rmks       °F         9. Remarks       Charging discharge press       2700 pc of Authorization No.       N/A	Component		Serial No.			Identification		Removed,	Pressure Test	Code Stamped
Spare RV       Crosby Valve       RV-2-8117 PEG       N/A       60017027-0010       S/C D937306       Unk       Installed (1)       Image       No         Line-51-2"       Pullman / Ketlogg       NA       N/A       60036625-0010       At lippe clamp for spt 2212-29       1985       Corrected (3)       No         CCP2-2       HydroAire Inc.       5979-01 *       N/A       68011987-0030       CCP2-2       2011       Installed (4)       SNo         7. Description of Work       (1) Replaced internals (rebuild & return to stock), (2) Replaced valve and associated piping.										
Line-51-2"       Fullman / Kellogg       N/A       N/A       60036625-001       for spi 2212-29       1985       Corrected (3)       No         CCP2-2       HydroAire Inc.       5979-01*       N/A       68011987-0030       CCP2-2       2011       Installed (4)       No         CCP2-2       HydroAire Inc.       5979-01       N/A       68011987-0030       CCP2-2       2011       Installed (5)       No         7. Description of Work       (1) Replaced internals (rebuild & return to stock), (2) Replaced valve and associated piping,       (3) Base metal repair (surface indication), (4) Replaced Charging Pump, (5) Replace pump pedestal fin and pin blocks by welding.         8. Tests Conducted:       Hydrostatic       Pneumatic       Nominal Operating Pressure       Exempt          9. Remarks       Charging discharge press = 2700 psig, at ambient temp.       *       Manufacturer's Code Data Report attached.         CERTIFICATE OF COMPLIANCE         Icertified of Authorization No.       N/A         Signed         Other represented and that this comforms to the requirements of the ASME Code, Section XI         Type Code Symbol Stamp         N/A         CERTIFICATE OF INSPECTION         Internet correct and that this comforms to the requirements of t						·				
CCP2-2       HydroAire Inc.       5979-01 *       N/A       68011987-0030       CCP2-2       2011       Installed (4)       No         CCP2-2       HydroAire Inc.       5979-01       N/A       68011987-0010       CCP2-2       2011       Installed (5)       No         7. Description of Work       (1) Replaced internals (rebuild & return to stock), (2) Replaced valve and associated piping,       (3) Base metal repair (surface indication), (4) Replaced Charging Pump, (5) Replace pump pedestal fin and pin blocks by welding.         8. Tests Conducted:       HydroStatic       Pneumatic       Nominal Operating Pressure       Exempt          0ther       Pressure see rmks       PSIG       Test Temp. see rmks       *F         9. Remarks       Charging discharge press = 2700 psig. at ambient temp.       *       *       Murfacturer's Code Data Report attached.         CERTIFICATE OF COMPLIANCEE         Icertify that the statements made in the report are correct and that this comforms to the requirements of the ASME Code, Section XI         Signed         Signed         Signed         CERTIFICATE OF INSPECTION         I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the         Signed <t< td=""><td></td><td>Pullman /</td><td>1</td><td>t</td><td></td><td>At pipe clamp</td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td></td></t<>		Pullman /	1	t		At pipe clamp		· · · · · · · · · · · · · · · · · · ·		
CCP2-2       HydroAire Inc.       5979-01       N/A       68011987-0110       CCP2-2       2011       Installed (3)				L		· · · · · · · · · · · · · · · · · · ·				
(3) Base metal repair (surface indication). (4) Replaced Charging Pump. (5) Replace pump pedestal fin and pin blocks by welding.         8. Tests Conducted:       Hydrostatic       Pneumatic       Nominal Operating Pressure       Exempt         0ther       Pressure       see rmks       PSIG       Test Temp.       see rmks       °F         9. Remarks       Charging discharge press = 2700 psig. at ambient temp.       *=       *=       Manufacturer's Code Data Report attached.         CERTIFICATE OF COMPLIANCEE         Icertify 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       Certifies of Authorization No.       N/A       Expiration Date       N/A         Signed       Certifies of Authorization No.       N/A       Expiration Date       N/A         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       12/10       .2009       to       7/05       .2011       , and employed by       HSB-CT       of       Hartford, CT         have inspected the components described in this Owner's Report during the period       12/10       .2009       to <t< td=""><td></td><td></td><td></td><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td><u></u></td><td></td><td></td></t<>						· · · · · · · · · · · · · · · · · · ·		<u></u>		
Other       Pressure see rmks       PSIG       Test Temp. see rmks       °F         9. Remarks       Charging discharge press = 2700 psig. at ambient temp.       *       *         * = Manufacturer's Code Data Report attached.       *       *       *       *         Certify that the statements made in the report are correct and that this comforms to the requirements of the ASME Code, Section XI       N/A       Expiration Date       N/A         Type Code Symbol Stamp       Office of Authorization No.       N/A       Engineering Manager       B//b//1(         Signed       Patrik Nugent       (Title)       (Date)       (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       12/10       ,2009       to	-	(3	) Base metal repair (su	rface indication),	(4) Replaced Charging	g Pump, (5) Replac	e pump p		n block	s by welding.
* = Manufacturer's Code Data Report attached.      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 Signed (Owner or Owner'sDesignee) Patrick Nugent 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 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. Kenny D. Kim Inspector Kenny D. Kim (Title) (Bate Commissions CA 1828 - NB 9990 A.N.IC (State or Province, National Board) Note: Supplemental Sheets in the form of lists, sketches, or drawings may be used provide(1) size is 8 1/2 x 11 in, (2) information in items 1 through 6 on this report is		-		Pressure see				-		·
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       Certificate of Authorization No.       N/A       Expiration Date       N/A         Signed       Certificate of Authorization No.       N/A       Engineering Manager       B//b//l((Date)         (Owner or Owner's Designee)       Patrifk 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       12/10       ,2009       to       7/05       ,2011       ,         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 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.       Martifications and corrective measures described in this Owner's Report.         Mark       Inspector       8//16//20/1       Commissions	9. Remarks	Charging discharg	ge press = 2700 psig. at	t ambient temp.						
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 Signed Cover or Owner's Designee) Patrifk Nugent 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 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 shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. Kenny D. Kim Inspector Kenny D. Kim Inspector Integer Intege	,		10	^						
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 Signed Cover or Owner's Designee) Patrifk Nugent 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 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 shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. Kenny D. Kim Inspector Kenny D. Kim Inspector Integer Intege			_							
Patrik Nugent       (Title)       (Date)         (Owner or Owner's Designee)         Patrik 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       12/10, 2009       to       7/05, 2011       ,         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.       S/16/20/1       Commissions CA 1828 - NB 9990 A.N.I.C         Kenny D. Kim         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	Type Code Syn	nbol Stamp	-	l that this comfor	ms to the requirements o	of the ASME Code, N/A	Expiratio		A 7/1	<u>b/1(</u>
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>California</u> And employed by <u>HSB-CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>12/10_, 2009</u> to <u>7/05_, 2011</u> , 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. Kenny D. Kim Inspector <u>8/16/2011</u> Commissions CA 1828 - NB 9990 A.N.I.C Kenny D. Kim (Title) (Date) (State or Province, National Board) Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is	(Owner or Own	er'sDesignee)	Patr	k Nugent			*			(Date)
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>California</u> And employed by <u>HSB-CT</u> of <u>Hartford, CT</u> have inspected the components described in this Owner's Report during the period <u>12/10_, 2009</u> to <u>7/05_, 2011</u> , 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. Kenny D. Kim Inspector <u>8/16/2011</u> Commissions CA 1828 - NB 9990 A.N.I.C Kenny D. Kim (Title) (Date) (State or Province, National Board) Note: Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is				CERTIFIC	ATE OF INSPECTI			•••••••••••••••		
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. 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	State or Provin	ce of <u>Ca</u>	lifornia, A	National Board o And employed by	of Boiler and Pressure V	essel Inspectors and HSB-CT	of			
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	and state that to accordance wit implied, conce	the best of my knowle the requirements of the ming the examinations	edge and belief, the Ow ne ASME Code, Section and corrective measure	ner has performe n XI. By signing as described in this	d examinations and take this certificate, neither is Owner's Report. Furt	en corrective measur the Inspector nor his hermore, neither the	es descrit s employe Inspecto	ord in the Owner r makes any war	's Repo anty, e	rt in xpressed or
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		5/5 Ken	h	Inspector	8/16/	<u>~~~</u>				
	Note: Supplen included on eac	nental sheets in the form	n of lists, sketches, or d heet is numbered and t	lrawings may be	(Date) used provided (1) size is ets is recorded at the top	8 1/2 x 11 in., (2) is	-	-		-

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	Pacific Gas and Elec							Date		8/5/2011	
_	77 Beale Street, San	Francisco, CA 941	06					Sheet	2	of	2
D1		Dian (						TT		•	
	Diablo Canyon Pow P.O. Box 56, Avila B		·					Unit -		2	
-	1.0. Dox 30, Aviia 1	CACI, CA 33424		····· · •							
Work Perfo	ormed by	Owner									
	-	See Aboy	ve		·	Rep	air Org.	P.O. No.	, Job No	o., etc.	
Identificatio	on of System	Chemical an	d Volume	Control System	n (08)						
(b) Applica	ble Construction Cod able Edition of Section able Section XI Code	NI Utilized for Rep		tion, ement Activity -	Addenda, 2001 A	ddenda,	Code _02/0	Case, 03			
Identificatio	on of components.						<del></del>				
Name of Compone		1 Serial	National Board No.	Work Order No.	Other Identification Line No	Year Built	Remo	ected, ved, or alled	Pressure Test	ASM Cod Stamp (Yes or	e oed
CCP2-2	2. HydroAire I	nc. 5979-01	N/A	68011987-0165	CCP2-2	2011	Instal	led (6)		No	
CCP2-2	2 HydroAire l	nc. 5979-01	N/A	68012080-0010	CCP2-2	2011	Instal	led (7)		No	
326-53R	R PG&E	N/A	N/A	68013924-0010	1-1/4" balancing line	2011	Instal	led (8)		No	
326-53R	R PG&E	N/A	N/A	68013924-0020	1-1/4" balancing line	<b>2</b> 011	Instal	led (9)		No	
CCP2-2	HydroAire I	nc. 5979-01	N/A	68015420-0010	CCP2-2	2011	Correct	ted (10)		No	
CCP2-2			N/A	68015429-0010	CCP2-2	2011		ted (10)		No	
Line-46	PG&E	N/A	N/A	68015642-0020	Line-46-4"	2011	Install	ed (11)	$\boxtimes$	No	-
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 7. Remarks
 (6) Install temporary weld to pump support structure, (7) Modify pump base plate (drill holes for epoxy injection),

 (8) Install / modify balancing line support, (9) Replace balancing line support bolting,

 (10) Repair of base metal gouges in pump pedestal, (11) Install spacer.

		DERS' DATA REPORT ons of the ASME		
				Pg. 1 of
1. Manufactured and	certified by	VELAN INC. 2125 WA	RD AVE, MONTREAL.QUE	BEC CANADA H4M11
2. Manufactured for	Pacific Gas&Elec	(name and address of M stric Co.Diablo Canyo		x.56 Avila Beach
3 Location of inst	allation Diablo	(name and address of Canyon Power Plant 9	of purchaser) miles N W of Avila	Beach (% 93424
		(name and address)	· · · · · ·	
4. Model No., Series	s No., or Type:	PISTON Drawing P1-	76800-N34 Rev 1	<u>a</u> CRN <u>N/A</u>
5. ASME Code, Section	on III. Division	<b>1:</b> 1989	NONE 1	N/A
-	-	(edition) (i	addenda date) (class)	(Code Case n
6. Pump or valve	VALVE Nomir	al inlet size(in	2 Outlet size	e (in.)
7. Material: Body <u>8</u>	<u>SA-182, F316</u> Bo	onnet <u>SA-182, F316</u>	Disk <u>UNS-N99644</u>	Bolting <u>N/A</u>
(a)	(Ъ)	(c)	(d)	(e)
Cert.	Nat'l	Body	Bonnet	Disk
Holder's Serial No.	Board No.	Serial No.	Serial No.	Serial No.
061026-1	N/A	H/C: MMRMU1	H/C: 1DOA	H/C: 2CDV
061026-2	N/A	H/C: MMRMU1	H/C: 1DOA	H/C: 2CDV
061026-3	N/A	H/C: MMRMU1	H/C: 1DOA	H/C: 2CDV
061026-4	N/A	H/C: MMRMU1	H/C: 1DOA	H/C: 2CDV
061026-5	<u>N/A</u>	H/C: MMRMU1	H/C: 1DOA	<u>H/C: 2CDV</u>
061026-6	<u> </u>	<u> </u>	<u>H/C: 1DOA</u> H/C: 1DOA	<u>H/C: 2CDV</u> H/C: 2CDV
			H/C: IDOA	
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(12/88) This form (E00037) may be obtained from the Order Dept., ASME, 22 LAW DRIVE, Box 2300, Fairfield, NJ 07007-2300.

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

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PAGE 3 OF 26

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			C	ertificate H	older's Serial No. 0	<u>61026</u>
8. Design conditions 9. Cold working pressur	(pressure)		(temperature)	PF or valve j	pressure class 2680	_ (1)
10. Hydrostatic test	9650 g	si.	Disk differentia	l test pres	sure 7075	. psi
11. Remarks: MATERIA	LS MEET ASME	SEC	FION II EDITION:	1989 ADDEN	ida: NONE	
			:			

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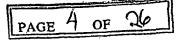
	CERTIFICATE OF DESIGN	
Design Specification certified by Design report certified by	<u>M. LAVIGNE</u> P.E. State <u>QUE</u> Reg. no. <u>40052</u> <u>S. ISBITSKY</u> P.E. State <u>QUE</u> Reg. no. <u>22115</u>	I

			CERTIFICATE OF	COMPLIANCE	· · ·
valve	conforms to the	rules fo	-		t and that this pump or , Section III, Division 1. _ Expires <u>APR 20,2007</u>
Date	NOV 2 9 2006	_ Name _	VELAN INC. (N Certificate Holder)	_ Signed (	(authorized representative)

CERTIFICATE OF INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>QUEBEC</u> and employed by <u>REGIE DU BATIMENT</u> of <u>QUEBEC</u> have inspected the pump, or valve, described in this Data Report on <u>November 30</u> , <u>2226</u> , and state that to the best of my knowledge and belief, the Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III, Division 1.
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the component described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date <u>Nov, 30/2.N6</u> signed <u>Contraction</u> <u>QUEBEC</u> (Authorized Inspector) <u>Contractions of Contraction</u> (Narl. Bd. (incl. Endorsements) and state of prov. and no.)

(1) For manually operated valves only.

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				Pg. 1 of <u>7</u>
1. Manufactured and certifie	HydroAlre S		ddress of N Certificate Holder)	Chicago, IL 606
Manufactured for Paci	fic Gas & Elect	ric Company, 245	Market St., San	Francisco, CA 941
B. Location of installation	Diablo Canyon Po		W of Avila Beach,	Avila Beach, CA 9342
1. Model No., Series No., ar	Түре <u>2-1/2" RLIJ</u>			CRNN/A
i. ASME Čode, Section III, D	livision 1	2003 L (addanda dati	2 el iclass)	ICode Case nod
). Pump or valve	/2 <sup>11</sup> Nominal inlet siz		et size $4^{"}$ NPS	
	/A BonnistN/Ä 32,F304 Cover SA182,1		Bolting <u>N/A</u>	
la) Certificata Holdar'a Serial No.	(b) National Board No.	ic) Body/Casing Serial No.	(d) Bonnet/Caver Serial Na.	(e) Disk Serial No.
5979-01	N/A	See attached	Pages 3 & 4	N/A
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			······································	
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(09/06)

ČAM S.G. Povien 3/21/2011 NIG 3/21/2011

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Customer: PG&E - Diablo Canyon Job# NC 5979 PO# 3500858162

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Page 9 of 356

11. Remarks	design pressur design pressur dro test at the ages 3 & 4 for	or valve pressure class reN/. ce of 220 psi =end	A & discharge r .was_done_at_3	nozzle of 375 psig
9. Cold working pressureN/A 10. Hydrostatic test4750 psig 11. RemarksSuction nozzle 2800 psigHy See attached p	design pressur design pressur dro test at the ages 3 & 4 for	reN/. ce of 220 psi suction end	A & discharge r .was_done_at_3	375 psig
9. Cold working pressureN/A 10. Hydrostatic test4750 psig 11. RemarksSuction nozzle 2800 psigHy See attached p	design pressur design pressur dro test at the ages 3 & 4 for	reN/. ce of 220 psi suction end	A & discharge r .was_done_at_3	375 psig
10. Hydrostatic test 4750 psig 11. Remarks Suction nozzle 2800 psig Hy See attached p	design pressur dro test at the ages 3 & 4 for	e of 220 psi	& discharge n was_done_at_3	375 psig
11. Remarks Suction nozzle 2800 psig Hy See attached p	design pressur dro test at the ages 3 & 4 for	e of 220 psi	& discharge n was_done_at_3	375 psig
2800 psig Hy See attached p	dro test at the ages 3 & 4 for	suction end	was done at	375 psig
<u>2800 psig Hy</u> See attached p	ages 3 & 4 for		·	
		material sou:	rces and mater	
identification	<u>g</u>	······	· · · · · · · · · · · · · · · · · · ·	
······································	<u></u>			
	CERTIFICATIO	N OF DESIGN	······································	
Design Specification certified by	jit A. Lovell			a. no. 22223
	J. Silverman		P.E. State CA Re	g. no. 23241
	<u> </u>		······································	······································
	CERTIFICATE OF			
We certify that the statements made in t ASME Code, Section III, Division 1.				
N Certificate of Authorization No.	N-3352	Expires	May 8, 20	)12
N Certificate of Authorization No Date <u>3]21]2011</u> Name <u>Hydr</u>	olire Services	Inc -	9. Runn	/
Date Jerren Name Hydr	IN Certificate Holder)	Signed	lauthorized represen	nial(ve)
		···		
	CERTIFICATE OF	FINSPECTION		
I, the undersigned, holding a valid commis	alon lanual furths National B	leard of Balles and Dames		
of of of	neBeacon Americ	a Insurance (	Company	the State of Province
	Massachusetts	have inspected the pu	imp, or valve, described in	this Data Report on
in accordance with the ASME Code, Section	hat to the best of my knowled	ige and belief, the Certific	ate Holder has constructed	this pump, or valve,
By signing this certificate neither the inspec	tor nor his employer makes a	ny warranty, expressed o	r implied, concerning the c	omponent described
In this Data Report. Furthermore, neither the or a loss of any kind arising from or connect		shall be liable in any man	ner for any personal injury	or property damage
	17 1.	-		
Date	richardoon	Commissions	B23ABN TLO	<u>942                                    </u>
• •	Instruction MACON INCODA	(Nati		suis or prov. and no.)

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(09/06)

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QAM S.G. Povies Jului MLS Jului

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Customer: PG&E - Diablo Canyon Job# NC 5979 PO# 3500858162

Page 10 of 356







#### 🗘 HydroAire

PG&E, Diablo Canyon PO 3500858162, HydroAire Job NC 5979

Material Heats List

Serial No.: 5979-01

Model No., Series No., or Type: 2-1/2" RLIJ Drawing: 1056565 Rev, 3 CRN: N/A

ltem	DESCRIPTION	PART#	DRAWING #	MATERIAL	MATERIAL ORGANIZATION	MATERIAL HEAT	MATERIAL PO #	WO/SN #
	Barrel Assembly	<u> </u>		· · · · · · · · · · · · · · · · · · ·			}	
37	Barrel	1058373	1058373 R2	ASME SA182 Grade F304	Energy & Process Corp.	G12451U	15025 L1	*****29501
	Drip Pocket, Barrel	1056585		ASME SA351 Grade CF8	Johnson Brass	162384-2	17158 L1	***************************************
1	Suction Nozzla	1058895		ASME SA182 Grade F304	Energy & Process Corp.	251249	21111L3	*****29502
2	Discharge Nozzle	1056587		ASME SA182 Grade F304	Energy & Process Corp.	249982	21111 L4	29504
	Feet, Suction	1056588		ASME SA351 Grade CF8	Johnson Brass	169993-4 & -6	21110 L1	*****29505
	Feet, Discharge	1056589		ASME SA351 Grade CF8	Johnson Brass	169993-11 8 -12	21110 L2	29506
6	Guide, Assembly Rall	1056590	1056590 R0	ASTM A479 Type 304	HydroAire	73945	17115 L1	***"29507
	Pipe, Bypass Schedule 80	1056591		ASME SA312 Type 304 Seamless	Dubose National Energy	451139	15247 L1	****29508
	Flange, Bypass, Barrel 300# RF	1056598		ASME SA182 Grade F304	Dubose National Energy	48572	20131 12	*****29512
	Pin Block	1056592		ASME SA182 Grade F304	Dubose National Energy	240196	20131 L1	29509
	Fin	1056594		ASME SA182 Grade F304	Energy & Process Corp.	T2723-10	15176 L2	29511
	Nameplate	N/A	N/A	300 Series Stainless Steel	N/A	N/A	N/A	N/A
	Drive Screws (Rivel)	1057400	N/A	300 Series Stainless Steel	HydroAire	Report # G8219	20031 L1	29500
10	Lifting Lugs	1056599	1056599 RD	ASME SA351 Grade CF8	Johnson Brass	159271	15196A L2	*****29513
h	Drain Pipe Sub-assembly					· · · · · · · · · · · · · · · · · · ·		
	Pipe, Long, Sch 160	1058391		ASME SA312 Type 304 Seamless	Dubose National Energy	73400	15247 L3	29516
	Pipe, Short, Sch 160	1058392		ASME SA312 Type 304 Seamless	Dubose National Energy	73400	15247 L3	29517
	Pipe, Medium, Sch 160	1058394		ASME SA312 Type 304 Seamless	Dubose National Energy	73400	15247 L3	29519
	Elbow - Drain Pipe 90° 1°	1056609		ASME SA182 Grade F304	Dubose National Energy	H32, J42	21001 L2	*****29515
15	Plate, Drain Pipe Support	1058393	1058393 R0	ASME SA240 Type 304L	Dubose National Energy	96Y8	15248 L3	****29518
<u> </u>	Discharge Head Assembly		_ · · · · · · · · · · · · · · · · · · ·					
85	Discharge Head	1056566	1056566 R2	ASME SA182 Grade F304	Energy & Process Corp.	G12546U	15025 L4	****294B1
	Pipe, Bypass Sch 80	1056567		ASME SA312 Type 304 Seamless	Dubose National Energy	510309	15247 L2	29482
	Drip Pocket, Head	1056568		ASME SA351 Grade CF8	Johnson Brass	162946-3	17158 L2	."***29484
18	Gusset - Drip Pocket Discharge Head	1056998		ASME SA240 Type 304L / SA479 Type 304	Energy & Process Corp.	249507	20926 L1	29486
19 -	Flange, Bypass, Discharge Head 300# RF	1056569	1056569 R0	ASME SA182 Grade F304	Dubose National Energy	48572	20131 L2	29485
20	Eyebolt 1" - 8 UNC	1042628	1042628 R0	316 \$5	N/A	N/A	16787 L1	29483
			•					
	Barrel Bolting							· · · · · ·
	Washer, Case Stud	1056581	1056581 R0	ASTM A479 Type 316 SS	HydroAire	829123	20815 L1	***29496
	Nut, Case (1-3/4" - 12)	1056582	1056582 R0	ASME SA194 Grade 2H	Nova	M656063	21088 L1	***29497
478	Stud, Case (1-3/4" - 12 x 9-3/8" Long)	1056583	1056583 R0	ASME SA193 Grade B7	Nova .	845835 H2359	21088 L2	29498
		<u> </u>						
	Bypass Line Assembly	<b> </b>	÷					
	Pipe, Bypass, Bent, Sch 80 Seamless	1056571	1056571 80	ASME SA312 Type 304 Seamless	Dubosé National Energy	451139	21001 L1	******29489
	Pipe, Bypass, Inboard, Sch 80 Seamless	1056577		ASME SA312 Type 304 Seamless	Dubose National Energy	451139	15247 L1	*****29494

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Page 11 of 356









Material Heats List

.

Serial No.: 5979-01

Model No., Series No., or Type: 2-1/2" RLIJ Drawing: 1056565 Rev. 3 CRN; N/A

Page 4 of 7

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4	Pipe, Bypass, Outboard, Sch 80 Seamless	1056578	1056578 R0	ASME SA312 Type 304 Seamless	Dubose National Energy	451139	15247 L1	****2949
26	Flange, Bypass Line, 300# RF	1056575	1056575 R0	ASME SA182 Grade F304	Dubose National Energy	48572	20131 L2	29492
8	Stud, Bypass Pipe(5/8" - 11 NC x 3-3/4" Ig)	1056572	N/A	ASME SA193 Grade B7	Nova	3008725	21027 L1	***29490
29	Nut, Bypass Line (5/8" - 11 NC)	1056574	N/A	ASME SA194 Grade 2H	Nova	5092414	21027 L2	***2949
25	Elbow, Bypass Pipe, 1-1/4" 90°	1056576	1056576 R0	ASME SA182 Grade F304	Oubose National Energy	F1K	21001 L3	****2949
			<u>.</u>		· · · · · · · · · · · · · · · · · · ·			<u> </u>
	Loose Parts							
30	Pin, Barrel to Base	1056593	1056593 R0	ASTM A276 Type 304	Dubose National Energy	240196	20131 L1	****2951
31.	Pin Block - Base Plate	1056647	1056647 R0	ASTM A36	HydroAire	0501098	21003 L1	····2947
32	Fin Block - Base Plate	1056648	1056648 R1	ASTM A36	HydroAire .	0501098	21003 L1	****2947
	Spare Parts							
22	Barrel to Discharge Head Gasket	1056646	N/A	Spiral Wound 304 SS and Graphite Filament	Arbor Metals LLC	77463	20714 L2	29499
35.	Gasket Bypass Line Flange	1053718	<u>N/A</u> .	Spiral Wound 304 SS and Graphite Filament	FlexSeal Industrial LLC	Lot A/C H04380	21023 L1	29488
	Weld Wire	N/A	N/A	ER 308 / 308L	Weld Star	735178	17802 L2	Multiple
	Weld Wire	N/A	N/A	ER 308 / 308L	Weld Star	739058	20446 L1	Multiple
	Weld Wire	N/A	N/A	ER 308 / 308L	Weld Star	739058	20875 L1	Multiple

\*\*\* Notes that part is Not identified with this number due to surface area availability.

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"\*\*" Noles that part is identified with this number.

1. Owner											
I. Owner	Pacific Gas and El 77 Beale Street, Sa	n Francisco, CA 9	4106		<u></u>			Date _ heet	8/5/2011 1 of 1		
0 Pl+						· ·		-			
2. Plant	Diablo Canyon Por P.O. Box 56, Avila							Unit _	2		
	110. 202 30, 1111	beach, err 35421									
3. Work Per	formed by	Owner		<u> </u>			in One DO	N. 7	-1. N		
		See Ab	ove	<u>.</u>		Re	pair Org. P.O.	INO., J	56 No., etc.		
4. Identificat	ion of System		Safety Inject	tion System (09)							
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)		
Line-237-6	PG&E	N/A	N/A	60006707-0030	Line-237-6"	1984	Installed (1)		No		
Line-237-6	PG&E	N/A N/A	N/A N/A	60007605-0030	Line-237-6"	1984	Installed (1)		No		
SI-2-8921A	Velan Valve	NF	N/A	60020746-0010	Line-1980-4"	1985	Installed (2)		No		
			+				}				
<ol> <li>7. Description</li> <li>8. Tests Cond</li> </ol>		) Install welded pipe o	ap at deleted Clas	ss-1 vent valve location,	(2) Replaced bon		g Exempt				
	Oth	er 🔲	Pressure	PSIG	Test Temp.		°F				
9. Remarks			:								
		· · · · · · · · · · · · · · · · · · ·									
I certify that th Type Code Syn		e report are correct and	that this comform	TE OF COMPLIAN ms to the requirements on norization No.		Section X Expiration		A			
Sig	ned	K	MA-	<u> </u>	Engineering M	Annagor		8/	6/11		
-	ner'sDesignee)	Patr	ickNugent	······	(Title)				Date)		
			CERTIFIC	ATE OF INSPECTI							
I, the undersig	ned, holding a valid con	nmission issued by the		f Boiler and Pressure Ve		l the					
State or Provir			And employed by		HSB-CT	of		tford, C			
have inspected the components described in this Owner's Report during the period <u>12/10</u> , 2009 to <u>7/05</u> , 2011 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	Kem	/	Inspector	8/16/2	0/1 Con						
	Inspector       8//6/20//       Commissions       CA 1828 - NB 9990       A.N.I.C         Kenny D. Kim       (Title)       (Date)       (State or Province, National Board)         Note:       Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 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 El							Date	8/5/2011
	77 Beale Street, Sa	n Francisco, CA 9	4100				<u> </u>	sheet -	1 of _1
2. Plant	Diablo Canyon Po							Unit	2
	P.O. Box 56, Avila	Beach, CA 93424							
3. Work Per	formed by	Owner							
		See Ab	ove			Re	pair Org. P.O.	No., J	ob No., etc.
4. Identifica	tion of System		Spent Fuel F	Pool Cooling (13)		_			
(b) Appl (c) Appli	icable Construction C icable Edition of Secti cable Section XI Cod tion of components.	ion XI Utilized for H	Repair / Replace	Edition, ement Activity -	Addenda, 2001 Add	C denda,	Code Case,		
Name of Componen	Name of t 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)
					Count for 1 hast				
SFPHE	Joseph Oat	1817-3D	353	60025491-0080	Spent fuel heat exchanger	1969	Installed (1)		No
			F		+			日	
<ol> <li>Description</li> <li>Tests Concentration</li> <li>Remarks</li> </ol>	lucted: Hy	) Replaced channel he	Pneumatic Pressure		al Operating Pressure Test Temp.		Exempt 🗍 °F		
			··· <u>·</u> ····						
Type Code Sy Sig	he statements made in th mbol Stamp gned wner'sDesignee)	N/A R				Expiratio		8/1	<u>6 / 1 (</u> (Date)
			CERTIFIC	ATE OF INSPECT	ION				
State or Provi		lifornia,	National Board o And employed by	of Boiler and Pressure V	essel Inspectors and HSB-CT	theof	Ha	rtford, (	стт
and state that accordance w implied, conc	d the components describ to the best of my knowle ith the requirements of th erning the examinations or any personal injury or	dge and belief, the Owne ASME Code, Section and corrective measure	vner has performe on XI. By signing es described in thi	d examinations and tak this certificate, neither is Owner's Report. Fur	the Inspector nor his thermore, neither the	s employe e Inspecto	r makes any war	ranty, e	xpressed or
	Kakin	Language	Inspector	8/16	2011 Co		s CA 1828 - N		
	Kenny D. Kim mental sheets in the form ach sheet, and (3) each sh			(Date) used provided (1) size i	s 8 1/2 x 11 in., (2) i		Province, Nation on in items 1 thro		

1. Owner	Pacific Gas and Ele	etric Company					ı	Jota	8/5/2011		
1. Owner	77 Beale Street, Sa		4106	<u></u>				-	1 of 1		
	TT Deale Street, Sa	a Francisco, CA 3	4100				3	neet -			
2. Plant	Diablo Canyon Pov	ver Plant						Init	2		
	P.O. Box 56, Avila						·	- <sup>-</sup>			
	1.0. Box 50, Avna	beach, CR 55424	<u> </u>	· · · · · · · · · · · · · · · · · · ·							
3. Work Per	formed by	Owner									
		See Ab				Re	pair Org. P.O.	No., Jo	ob No., etc.		
	-		<u></u>								
4. Identifica	tion of System	(	Component C	ooling Water (14)							
	· -	··									
5. (a) Applicable Construction Code (See R/R Plans) Edition, Addenda, Code Case,											
(b) Appli	cable Edition of Secti	on XI Utilized for F	Repair / Replace	ment Activity -	2001 Ad	denda,	02 / 03				
(c) Appli	cable Section XI Code	e Case(s), None	• •	-		-	• <u> </u>				
		<u> </u>									
6. Identifica	tion of components.										
								Рге	ASME		
Name of	Name of	Manufacturer Serial	National	Work Order	Other Identification	Year	Corrected, Removed,	Pressure Tes	Code		
Component	Manufacturer	No.	Board No.	No.	Line No	Built	or Installed	° Te	Stamped		
								st	(Yes or No)		
			†								
CCW-2-256	Fisher Controls	BF184896	N/A	60006689-0060	Line-1368-6"	1984	Installed (1)	X	No		
CCW-2-RV-5	2 Lonegran, J.E.	011459-1-4-1	N/A	64004513-0240	Line-1657-4"	2006	Installed (2)		No		
Line-148	<u> </u>	N/A	N/A	68010846-0100	Line-148-10"	1984	Installed (3)	Ø	No		
Line-149	PG&E	N/A N/A	N/A N/A	68010846-0200	Line-149-10"	1984	Installed (3)	Ø	No		
	1000			00010010 0200				H			
		· · · · · · ·				·	A		<b></b>		
7. Description				, original equipment, (:	2) Replaced inlet fla	nge boltu	1g,		. <u></u>		
	(3	) Installed blind flange	following cut for	abandoned piping.							
8. Tests Cond	ucted: Hye	irostatic	Pneumatic	Nomina Nomina	l Operating Pressure		Exempt 🗌				
	Othe	<b>x</b> 🔲	Pressure see	rmks PSIG	Test Temp. se	e rmks	°F				
9. Remarks	CCW system in-s	evice at NOP / NOT									
<u> </u>				<u></u>			······				
				TE OF COMPLIA							
-	ne statements made in th	-		-	-						
Type Code Sy	mbol Stamp	A	Certificate of Aut	Arization No. —	<u>N/A</u>	Expiratio	on DateN/	A			
Sig	med	Re	シ・ドバ	4-	Engineering N	lanager		8/	16/11		
(Owner or Ow	ner'sDesignee)	V Patr	ick Nugent	• • • • • • • • • • • • • • • • • • •	(Title)			(	Date)		
			V								
T the undersid	ned, holding a valid con	mission issued by the		ATE OF INSPECT		the					
State or Provi	-		And employed by		HSB-CT	of	U <sub>2</sub> ,	tford, C	۳T		
	the components describ				/10 , 2009	- <sup>01</sup> -		7/05	,2011 ,		
•	to the best of my knowle					-	and the second se				
accordance wi	th the requirements of th	ne ASME Code, Sectio	n XI. By signing	this certificate, neither	the Inspector nor hi	s employe	r makes any wan	ranty, e	xpressed or		
	erning the examinations						r nor his employe	r shall	be liable in		
any mainter it	or any personal injury or	property damage of 10	ss of any kind are	sing from or connected	with this hispection.	• •					
£	Sam_		Inspector	8/16	12011 00	mmission	s CA 1828 - NI	<b>3 999</b> 0	A.N.I.C		
	Kenny D. Kim		(Title)	(Date)		(State or	Province, Natio	nal Bo	ard)		
	mental sheets in the form					nformatic	on in items 1 throu	ugh 6 o	n this report is		
included on e	ach sheet, and (3) each s	heet is numbered and t	he number of she	ets is recorded at the top	of this form.						
								<b>_</b> = -			

1. Owner	Pacific Gas and El	ectric Company	· - <u></u>					 Date	8/5/2011		
	77 Beale Street, Sa	n Francisco, CA 9	4106				s	heet	1 of 1		
2. Plant	Diablo Canyon Po	wer Plant					. •	IInit	2		
•	P.O. Box 56, Avila										
0 W 1 D 4											
3. Work Perl	ormed by	Owner See Ab				Re	pair Org. P.O.	No ' I	oh No etc		
		Sterno					pan 018 110	1101,0			
4. Identificat	ion of System		Makeu	o Water (16)							
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											
• • • • •	able Section XI Cod		· · ·								
6. Identificat	ion of components.		• <u>•••</u> ••••••••••••••••••••••••••••••••								
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)		
MU-0-968	Crane Nuclear, Inc.	D9697 *	N/A	60003281-0100	Line-386-4"	1984	Installed (1)		No		
MU-0-727	Fisher Controls	155877	N/A	60003281-5010	Line-386-4"	1984	Installed (2)		No		
CST Nzl - N	Pittsburgh Des Moines Steel	N/A	N/A	60032778-0010	Nozzle-3	1985	Installed (3)	⊠	No		
Transfer Tanl	C PG&E	N/A	N/A	60034937-0010	PWTT1	1984	Installed (4)		No		
<u> </u>		L			L	<u> </u>	l				
7. Description				and installed a spacer,	(3) Cut and Plug C	ST nozzle	- N3,				
		) Replaced personnel	hatch bolting.								
8. Tests Cond	•	drostatic 🔲 er 🗋		Nomina Nomina Tmks PSIG	I Operating Pressure Test Temp. se	e 🛛 e rmks	Exempt 🔲 °F				
9. Remarks		charge = 190 psig at N									
	* = Manufacturer	s Code Data Report at	lached.								
T	e statements made in th			TE OF COMPLIA		0	71				
Type Code Sy			Sertificate of Auth	-	N/A	Expiration		A			
Sig	ned	たっと	1/21-	· •	·····	•		8/1	6/4		
Owner or Ow		Pol	ick Nugent		Engineering M (Title)			0/1	<u>- / 7</u> (Date)		
		······································	CERTIFIC	ATE OF INSPECT							
I, the undersig	ned, holding a valid con	mission issued by the				the					
State or Provir			And employed by		HSB-CT	of _		tford, C			
have inspected the components described in this Owner's Report during the period $12/10$ , $2009$ to $7/05$ , $2011$ , 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.											
	Station-		Inspector		2011 Con		s CA 1828 - NE				
Inspector       8/16/2c/l       Commissions       CA 1828 - NB 9990       A.N.I.C         Kenny D. Kim       (Title)       (Date)       (State or Province, National Board)         Note:       Supplemental sheets in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.											

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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

	15 M - Inc. 10 - 000 Da	Paula and Da	liantarati II 604	40
1. Manufactured and certified by <u>CRAI</u>	NE Nuclear, Inc., 860 Re	(name and address of N Certi	ficale Holder)	14U
2, Manufactured for Pacific Gas and E	lectric Company, PO Bo	x 56, Avila Beach, CA	93424	· · ·
		me and address of purchaser)		
3. Location of installation Diablo Canyo	on Power Pant; 9 Mi N/W	(name and address)	Beach, CA 93424	· · ·
4. Model No., Series No., or Type	15-SMF-729 Draw	ring <u>CB05120</u>	Rev/	A CRN
5. ASME Code, Section III, Division 1:	1989	None	3 (dass)	N/A (Code Case no.)
6. Pump or valve Duo-Chek Va	• •	nlet size 4*	Outlet siz	
······································			<u> </u>	
7. Material:	• •			· ·· ·
(a) valve Body SA351 CF8	Bonnet	N/A Disk	SA351 CF <del>8</del>	Bolting N/A
(b) pump Casting	Cover	Boltin	the second s	• • • • • •
(a) (b) Cert. Naťl Holder's Board Serial No. No.	(c) Body/Casir Serlal No.	ng Bonne Se	J) I/Cover rial 0.	(e) Disk Serial No.
Carsad D9697	D9701	and the second sec	/A	D9705, D9706
<u>D9698</u>	D9702 D9703		/A	D9707, D9708 D9710, D9711
D9700	D9704	N	/A	D9709, D9712
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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

	•	•					
8	Design conditions			or valve pre	essure clas	s	ANSI 150#
•		ressure	(temperature)				
9:	Cold working pressure	· -					
10.	Hydrostatic test	425	Disk different	ial test pressure		305	· · ·
	<u></u>	ASME SA479 TP 3		• •		HT # 71502	3. TR #4489
11.	Remarks: Pin Retainers: PGE PO # 3500856591 Item	ASME 5A479 TP 3	14 Cond A; 11 # 73	1740, I'R #400	( iv pus/	111 # 11302	
•							
. <u> </u>							
		CERT	FICATION OF DES	IGN			
		0=111			• •	•	· • •
Desic	on Specifications certified by	Kersi	J Dalal	P.E. State	CA .	Rea no.	M- 16690
	•					<b>D</b>	
Desig	an Report certified by	N/A		P.E. State	<u>N/A</u>	Reg. no.	<u>N/A</u>
						•	
						· · · ·	
		CERTIFI	CATE OF COMPLI	ANCE		· · ·	
Wea	ertify that the statements mad	e in this report are co			nforms to t	he rules for	construction
We c	ertify that the statements mad ASME Code, Section III, Divi	e in this report are co			nforms to b	he rules for	construction
We co of the	ertify that the statements mad ASME Code, Section III, Divi	e in this report are co			nforms to t	he rules for	construction
of the	ertify that the statements mad ASME Code, Section III, Divi rtificate of Authorization No.	e in this report are co sion 1.		oump or valve co	nforms to t	· .	construction
of the	ASME Code, Section III, Divi	e in this report are co sion 1.	prect and that this c	oump or valve co		· .	construction
of the N Cei	ASME Code, Section III, Divi	e in this report are constant and constant	orrect and that this p -2899 luclear, Inc.	ump or valve con _ Expires _S	eptember he ESs	24, 2011	construction
of the N Cei	ASME Code, Section III, Divi	e in this report are constant and constant	prrect and that this p -2899	ump or valve con _ Expires _S	eptember he ESs	· .	construction
of the N Cei	ASME Code, Section III, Divi	e in this report are constant and constant	orrect and that this p -2899 luclear, Inc.	ump or valve con _ Expires _S	eptember he ESs	24, 2011	
of the N Cei	ASME Code, Section III, Divi	e in this report are co sion 1N N 	orrect and that this p -2899 luclear, Inc. ale Holder)	Expires _S	eptember he ESs	24, 2011	construction
of the N Cer Date	ASME Code, Section III, Divi	e in this report are co sion 1. 	orrect and that this p -2899 luclear, Inc. ale Holder) ICATE OF INSPEC	Expires Signed Signed  TION	eptember uES1 (Joh	24, 2011 2027 n E Strovatka) A Brotest	
of the N Cel Date	a ASME Code, Section III, Divi rtificate of Authorization No. <u>07/30/10</u> Name undersigned, holding a valid c	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by	orrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board	Expires	eptember 4 E J 4 (Joh essure Ves	24, 2011 MOLYTEL A Brovalka) A Brovalka)	
of the N Cer Date	a ASME Code, Section III, Divi rtificate of Authorization No. 07/30/10 Name  undersigned, holding a valid c or Province of	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois	Prrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board and employed by	Expires	essure Ver HSBC	24, 2011 Mozy Pla A Brovatka) A Browser Sseel Inspec	tors and the
of the N Cer Date	a ASME Code, Section III, Divi rtificate of Authorization No. 07/30/10 Name  undersigned, holding a valid c or Province of  Hartford, CT	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois have inspected the p	Prrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board and employed by pump, or valve, des	Expires	essure Ver HSBC a Report o	24, 2011 MOLY THE Strovatka) Alexandrow Ssel Inspec DF n07	tors and the.
of the N Cer Date	ASME Code, Section III, Divi rtificate of Authorization No. <u>07/30/10</u> Name <u>07/30/10</u> Name <u>07/30/10</u> Name <u>07/30/10</u> Name <u>107/30/10</u> Name <u>107/30/10</u> Name <u>107/30/10</u> Name	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois have inspected the p wiedge and belief, th	Prrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board and employed by pump, or valve, des	Expires	essure Ver HSBC a Report o	24, 2011 MOLY THE Strovatka) Alexandrow Ssel Inspec DF n07	tors and the.
of the N Cer Date	a ASME Code, Section III, Divi rtificate of Authorization No. 07/30/10 Name  undersigned, holding a valid c or Province of  Hartford, CT	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois have inspected the p wiedge and belief, th	Prrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board and employed by pump, or valve, des	Expires	essure Ver HSBC a Report o	24, 2011 MOLY THE Strovatka) Alexandrow Ssel Inspec DF n07	tors and the.
of the N Cer Date 	ASME Code, Section III, Divi rtificate of Authorization No. 	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois have inspected the p wiedge and belief, the ivision 1.	Arrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board and employed by pump, or valve, des e Certificate Holder	Expires	essure Ve HSBC a Report o this pump	24, 2011 NOTOTO n E Sirovatka) Alexandrian sseel Inspect The second	tors and the.
of the N Cer Date  State State of  and si and si Say sig	ASME Code, Section III, Divi rtificate of Authorization No. <u>07/30/10</u> Name <u>07/30/10</u> Name <u>Undersigned, holding a valid control of Hartford, CT tate that to the best of my kno- he ASME Code, Section III, Di gning this certificate, neither the</u>	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois have inspected the p wiedge and belief, th ivision 1. the inspector nor his e	Arrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board and employed by pump, or valve, des e Certificate Holder mployer makes any	Expires	essure Ver HSBC a Report o this pump	24, 2011	tors and the. 7/30/10 n accordance
of the N Cel Date L, the Call State of and si with the By sig	ASME Code, Section III, Divi rtificate of Authorization No. 07/30/10 Name NAME NA	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois have inspected the p wiedge and belief, the vision 1. the inspector nor his e teport. Furthermore,	Arrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board and employed by pump, or valve, des e Certificate Holder mployer makes any neither the inspects	Expires	essure Ve HSBC a Report o this pump	24, 2011	tors and the. 7/30/10 n accordance
of the N Cer Date 	ASME Code, Section III, Divi rtificate of Authorization No. <u>07/30/10</u> Name <u>07/30/10</u> Name <u>Undersigned, holding a valid control of Hartford, CT tate that to the best of my kno- he ASME Code, Section III, Di gning this certificate, neither the</u>	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois have inspected the p wiedge and belief, the vision 1. the inspector nor his e teport. Furthermore,	Arrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board and employed by pump, or valve, des e Certificate Holder mployer makes any neither the inspects	Expires	essure Ve HSBC a Report o this pump	24, 2011	tors and the. 7/30/10 n accordance
of the N Cer Date 	ASME Code, Section III, Divi rtificate of Authorization No. 07/30/10 Name NAME NA	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois have inspected the p wiedge and belief, the vision 1. the inspector nor his e teport. Furthermore,	Arrect and that this p -2899 luclear, inc. ale Holder) ICATE OF INSPEC y the National Board and employed by pump, or valve, des e Certificate Holder mployer makes any neither the inspects	Expires	essure Ve HSBC a Report o this pump	24, 2011	tors and the. 7/30/10 n accordance
of the N Cer Date 	a ASME Code, Section III, Divi rtificate of Authorization No. 	e in this report are co sion 1. CRANE N (N Certific CERTIF commission issued by Illinois have inspected the p wiedge and belief, the vision 1. the inspector nor his e teport. Furthermore,	Arrect and that this p -2899 luclear, Inc. all Holder) ICATE OF INSPEC y the National Board and employed by pump, or valve, des e Certificate Holder mployer makes any neither the inspects and arising from or co	Expires	essure Ve HSBC a Report o this pump ssed or imp er shall be s inspectio	24, 2011	tors and the. 7/30/10 n accordance eming the ny manner for

1. Owner	Pacific Gas and El 77 Beale Street, Sa		4106	,			· ·	Date	8/5/2011		
	// Deale Street, Sa	n Francisco, CA 9	4100				3	neet _	<u>1</u> of <u>2</u>		
2. Plant	Diablo Canyon Po	wer Plant						Unit _	2		
	P.O. Box 56, Avila	Beach, CA 93424									
3. Work Per	formed by	Owner									
		See Ab	ove			Re	pair Org. P.O.	No., J	ob No., etc.		
4. Identifica	tion of System		Saltwate	r System (17)							
<ul> <li>5. (a) Applicable Construction Code (See R/R Plans) Edition, Addenda, Code Case,</li></ul>											
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)		
SW-2-54	Flowserve Corp.	BE702 *	N/A	60007040-0010	Line-680-24"	1998	Installed (1)	Ø	No		
SW-2-201	Atwood & Morril	1-11119-01	N/A	60020486-0010	Line-680-24"	2002	Installed (2)		No		
ASW Pump 2		290601	N/A	60023982-0040	Line-687-24"	2008	Installed (3)	Ø	No		
ASW Pump 2 ASW Pump	1	290601	N/A	60024131-0050	Line-687-24" Spare ASW	2008	Installed (4)		No		
Spare	Bingham Int'l	290600	N/A	60033992-0010	Pump	NF	Installed (4)		No		
SW-0-EJ1	Garlock Inc.	NF	N/A	60035287-0010	Line-933-24"	1985	Installed (2)		No		
7. Description	of Work (1	) Replaced valve, (2)	Replaced flange	bolting, (3) Replaced	Pump with refurbish	ied spare,	(4) Replaced st	uffing b	ox.		
				···· · · · · · · · · · · · · · · · · ·	<b>-</b>		·				
8. Tests Cond	Oth	drostatic 🔲 er 🔲	Pressure see	rmks PSIG	•	e 🖾 ermks	Exempt 🔲 °F				
9. Remarks		lisch pressure = 52 psig s Code Data Report att		Pump 2-1 disch = 51 ps	sig at NOT.						
		s Code Data Report at									
I certify that t	ne statements made in th	e report are correct and		TE OF COMPLIA ms to the requirements		Section X	I				
Type Code Sy			Certificate of Auth	-	N/A	Expiratio		Α	<b>.</b>		
Sig	med	KJV			Engineering N	lanager		8/	16/4		
(Owner or Ow	mer'sDesignee)	Pag	ck Nugent		(Title)			(	Date)		
			CERTIFIC	ATE OF INSPECT	ION						
	ned, holding a valid con				essel Inspectors and	the					
State or Provi			And employed by		HSB-CT	_ of	······	tford, C			
have inspected the components described in this Owner's Report during the period <u>12/10</u> , 2009 to <u>7/05</u> , 2011, 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.											
<del>X</del>	35Kim	<u> </u>	Inspector	8/16	20/1 Con		s CA 1828 - NI				
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. Ow	/ner _	Pacific Gas and Electric Company 77 Beale Street, San Francisco, CA 94106										8/5/2011 of	
	-	77 Beale	Street, San F	rancisco, CA 9410	)6					Sheet	2	of	2
2. Pla			Canyon Power < 56, Avila Be	Plant ach, CA 93424	<u></u>					Unit		2	
3. Wo	-	ormed by		Owner See Abov	'e		·	Repa	air Org.	P.O. No.	, Job Ne	., etc.	
4. Ide	ntificati	on of Sys	tem	Sa	Itwater Sy	stem (17)							
<ul> <li>5. (a) Applicable Construction Code See R/R Plan Edition, Addenda, Code Case, (b) Applicable Edition of Section XI Utilized for Repair / Replacement Activity - 2001 Addenda, 02 / 03</li> <li>6. Identification of components.</li> </ul>													
	Name o Compone		Name of Manufacture	Manufacturer Serial No.	National Board No.	Work Order No.	Other Identification Line No	Year Built	Corre Remov Insta	ed, or	Pressure Test	ASM Cod Stamp (Yes or	e Ded
	SW-2-EJ		Garlock Inc.	NF	N/A	64013681-0100	Line-680-24"		Install			No	
	SW-2-EJ		Garlock Inc.	NF	N/A	64013682-0100	Line-714-24"		Install			No	
	SW-2-3		Anchor Darlin	<u> </u>	N/A	64014329-0100	Line-5199-4"		Install		Ø	No	
	SW-2-17		Anchor Darlin		N/A	64014330-0100	Line-5199-4"		Install			No	
	SW-2-30		Anchor Darlin		N/A	64014331-0100	Line-5198-4"	_	Install	<u> </u>		No	
	SW-2-30 CCWHE		Anchor Darlin	g E1565-5-3 16405	<u>N/A</u> N/A	64014332-0100 68001455-0100	Line-5198-4" CCW HX 2-1		Install Install		- H	No No	
	CCWHE		Yuba Ind. Yuba Ind.	16405	N/A N/A	68001457-0100	CCW HX 2-2		Install		H	No No	
	CCWIE		1 uua IIIu.	10400		08001437-0100		1905		ai (3)			
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7. Remarks

(1) Replaced valve, (2) Replaced flange bolting, (5) Install Monel support to ID of HX outlet.

\* = Manufacturers Code Data Report attached.

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		ERS' DATA REPORT FO		
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1. Manufactured and certifie	d by Flowserve Corporation	1, 1900 South Saunders St. F (neime and addro	Caleigh, NC 2/603 ess of N Certificate Holder)	<del></del>
2 Manufactured for Pacif	ic Gas & Electric Company, I	P.O. Box 7760, San Franciso	o, CA 94120-7760	
		(name and address	of Purchaser)	
3. Location of installation _	Diablo Canyon Power Plant,	800 Price Canyon Rd., Pism	IO Beach, CA 93449	
4. Model No., Series No., or	Туре 150 ВГ	Drawing <sup>06-42655-03</sup>	Rev. C	CRN
5. ASME Code, Section III, D	Division 1: <u>1989</u> (edition)	NO Addenda (addenda date)	3 (class)	N-133-3 (Code Cese no.)
6. Pump or valve Valve	Nominal inlet size	<u>24"</u> . (in.) Outlet :	size	
7. Material: (a) valve Body <sup>SB148 (</sup> (b) pump Casing		Disk S <u>B148 C9540</u> 0 g		
(a)	(b)	(c)	(d)	(e)
Cert. Holder's	Nat'l Board	Body/Casing Serial	Bonnet/Cover Serial	Disk Serial
Serial No.	No.	No.	No.	No.
BE701	N/A	07606-2591	N/A	07207-2194
BE702	<u>N/A</u>	07605-2592	N/A	07206-2190
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\* 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.

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Design conditions	(pressure)	(temperature)		pressure ci	ass			
Cold working pressure		psi <u>a</u> t 100°F	-55					
Hydrostatic test	0 psi.	Disk differential test p	255 ressure	<u>.</u>	·			
Remarks:								<u> </u>
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SO 42655-3, 24" 15	0 BUTTERFLY	VALVE	•·····			<u> </u>		
		CERTIFIC	ATION OF DESIGN	1				·
	KERSI J. D	DALAL				CA	Reg. no.	M-16690
Design Specification certifi Design Report certified by			·	·····	. P.E. State P.E. State	N/A	Reg. no. Reg. no.	N/A
		CERTIFICAT	TE OF COMPLIAN	CE				
Ve certify that the stater	nents made in this	s report are correct a	nd that this pump	o or valve	conforms to	the rules fo	or constru	iction of t
SME Code, Section III, I Certificate of Authoriza	)ivision 1.	N-1562		Expires	11-26-09			
				expires	1		1	•
Date 10 31 /8	Name Flowserv	(N Certificate Holder)	!	Signed _	The		sentative)	<del></del>
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<u> </u>						<u> </u>		· · ·
		CERTIFICA	TE OF INSPECTIO	N				
the undersigned, holding		on issued by the Natio	nal Board of Boile	r and Press SB CT	sure Vessel Ir	spectors and	the State	or Provin
of NC and	employed by of Hartford, CT				ump, or valv		in abia Dá	to Decent
10/31/08		at to the best of my kno						
n accordance with the AS	ME Code, Section	III, Division 1.	-				-	
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This form (\$00037) may be obtained from the Order Dept., ASME, 22 Law Drive, Sex 2300, Fairfield, NJ 07007-2300.

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1. Manufactured and certified by Anchor/Darling Valve Co., 701 First St., Williamsporent St., Construction of Installation Diablo Canyon Power Plant, Avila Beach, CA 93424         3. Location of installation       Diablo Canyon Power Plant, Avila Beach, CA 93424         (name and address of Muchaeser or Owner)       (name and address)         4. Model No., Series No., or Type Swing-Check Draving MB321818       Rev: C       CRN         5. ASME Code, Section III, Division 1:       1980       Summer 1982       3       NI         (code Code, Section III, Division 1:       1980       Summer 1982       3       NI         (code Code, Section III, Division 1:       1980       Summer 1982       3       NI         (code Code, Section III, Division 1:       1980       Summer 1982       3       NI         (code Code, Section III, Division 1:       1980       Summer 1982       3       NI         (code Code, Section III, Division 1:       1980       Summer 1982       3       NI         (code Code, Section III, Division 1:       1980       Summer 1982       3       MI         (code Code, Section III, Division 1:       1980       Summer 1982       3       1	12 PAGE INSA 1048	ې د د د د د کې کې د ولکې ولکې کې لونکې د د د د د د د د د کې		e ser e stand ser ave Le stand de la
2. Menufactured for Pacific Gas & Electric Co., P.O. Box 7760, San Francisco, C (name and address of Furchaser or Owner) 3. Location of installation Diablo Canyon Power Plant, Avila Beach, CA 93424 (name and address) 4. Model No., Series No., or Type Swing-Check Drawing M8321818 Rev. C CRN_ 5. ASME Code, Section III, Division 1: 1980 Summer 1982 3 NI (code defee) Caluer 1982 3 NI (code defee) Cal	centified by Anchor/Darlir	g Valve Co., 7	01 First St., W	illiamsport.
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(name and address) 4. Model No., Series No.; or Type Swing Check Drawing W9321818 Rev. C CRN 5. ASME Code, Section III, Division 1: 1980 Summer 1982 3 N1 6. Pump or valve Valve Nominal inlet size 3" Outlet size 3" 6. Pump or valve SB148-C95400 Bonnet SB159-C61400 Disk SB164-N04400 Botting SB150- 1a) (b) (c) (d) (e Cert. Nat'l Body Bonnet Dis Seriel No.		(name and address of Pur	chaser or Owner)	•
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\* Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ × 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.

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£	We cardly that the souther of the ABME Code, Second	norte mede in this rep. Ian III. Division 1.	prit are genreat and that this pu	np ar valve conforms to the	ruiss for construction	
-	N Constitute of Australia	aton No	1.1		5/95	r - 1 •
	Date 2/27/12	Anchor/De	rifing Velve Company	tigned _ Call MUM	2	
			· · · · · · · · · · · · · · · · · · ·	· · · ·		
ا ت	•	<u>ومیر ایرانی (چران ایرانی)</u> مرد				••
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	I. The undersigned. held the Stone Midlinghing of	Pennsylvan	n issued by the National Das 1.8and emp	nd of Bollor and Pressure V Joyed by COMMERCIAL U	nion Las. Co.	•
0	d losto	n. Mass. 24. 18 22. m		; pump, or value, described i knowledge and bellef, the C	n this Date Report on Jertificate Heider has	u the star in References
0	9-591122-5-	to unbee in another	with the ASME Code, Section	HI, Division 1.	· · · · · · · · · · · · · · · · · · ·	
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0		10, neither the increase		y wartenty, angressed or im	plied, concerning the	 
0			er her his employer makes am hermore, neisher the inspector gref any kind arleing from er e	nor his employer shall be lie	plot, concerning the bie in any menner for N.	· · · ·
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	9-5-9// Ar -S-6 economics this proves a By eigning this continent companying this continent in env percend injury or pr Deep S-25-92.	the neither the inspect this Data Report. Furt sector Charles Charles Charles Charles	harmore, neither the inspector and any kind arising from or a Jacking Commission	ner his employer shall be to ennested with this inspection Pennsv1vanja	n. 2392 al gains or prov. and no.]	· · · · · · · · · · · · · · · · · · ·
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	9-5-9// Ar -S-6 economics this proves a By eigning this continent companying this continent in env percend injury or pr Deep S-25-92.	the neither the inspect this Data Report. Furt sector Charles Charles Charles Charles	harmore, neither the inspector and any kind arising from or a Jacking Commission	ner his employer shall be to ennested with this inspection Pennsv1vanja	n. 2392 al gains or prov. and no.]	

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1. Owner	Pacific Gas and El	ectric Company						– – – Date	8/5/2011	
		n Francisco, CA 9	4106						1 of 1	
2. Plant	Diablo Canyon Po	war Plant						-		
<b>2</b> . 1 idin	P.O. Box 56, Avila		······.	<del> </del>				Unit _	2	
							<u></u>			
3. Work Per	formed by	Owner See Abe		<del></del>		Re	pair Org. P.O.	No. I	oh No etc	
4. Identifica	tion of System	Die	sel Engine G	enerator System (	(21)					
5. (a) Appli	cable Construction C	ode (See R/	R Plans)	Edition,	Addenda,	C	lode Case,			
	cable Edition of Sect		Repair / Replace	ement Activity -	2001 Ad	denda,	02 / 03			
(c) Appli	cable Section XI Cod	e Case(s), None		· · ·	<b></b> .					
6. Identifica	tion of components.									
			ł			ſ				
Name of	Name of	Manufacturer	National	Work Order	Other	Year	Corrected,	Pressure Test	ASME Code	
Component	Manufacturer	Serial No.	Board No.	No.	Identification Line No	Built	Removed, or Installed	re Te	Stamped	
					ļ				(Yes or No)	
DEG 2-1	Alco Power Amot Control	N/A	N/A	60020158-0010	DEG 2-1	Unk	Installed (1)		No	
DEG-2-TCV	A mot Control	B911	N/A	64004850-0100	DEG 2-1	Unk	Installed (2)		No	
DEG-2-TCV-	-3 Corp	D861	N/A	64004851-0100	DEG 2-2	Unk	Installed (2)	⊠	No	
DEG-2-TCV	5 Amot Control Corp	D951	N/A	64004852-0100	DEG 2-3	Unk	Installed (2)	⊠	No	
<u></u>										
7. Description	of Work (1	) Replaced Jacket Wat	er spool piece an	d one bolt, (2) Replac	ed TCV with tested	spare.				
8. Tests Cond	•	drostatic			l Operating Pressure		Exempt			
	Oth	er 🗋	Pressure see	rmks PSIG	Test Temp. se	e rmks	°F			
9. Remarks				DEG 2-2 Jacket Water p	pressure = 48 psig at	166 °F,	<del>.</del>			
		Water pressure = 50 psi								
I certify that the	e statements made in th	e report are correct and		ATE OF COMPLIA ms to the requirements		Section X	.1			
Type Code Sy		-	Certificate Aut	-	N/A	Expiratio		A		
Sig	med	M. D.	14		Engineering N	lanager		5	116/11	
(Owner or Ow	mer'sDesignee)	U Patr	ick Hugent		(Title)			(	Date)	
			CERTIFIC	ATE OF INSPECT	ION					
I, the undersig State or Provi	ned, holding a valid con				-		11	•£~	<b>`</b> T	
	the components describ		And employed by port during the pa		HSB-CT /10 , 2009	- of _		tford, C 7/05	, 2011 ,	
	to the best of my knowle th the requirements of the									
implied, conc	erning the examinations	and corrective measure	s described in the	is Owner's Report. Fur	thermore, neither the	e Inspecto				
any manner to	or any personal injury or	property damage or los		- 1						
K	Kenny D. Kim		Inspector (Title)	8/16	20/1 Co		CA 1828 - NE			
Note: Supple	mental sheets in the form	n of lists, sketches, or d	• •	/(Date)					-	
	ich sheet, and (3) each s								-	

	Pacific Gas and Ele 77 Beale Street, Sa	ectric Company n Francisco, CA 9	4106					-	8/5/2011 1 of
2. Plant	Diablo Canyon Pov	wer Plant						Unit	2
	P.O. Box 56, Avila								
3. Work Perfo	rmed by	Owner							
5. WORLOID	-	See Abo	ove	· · · · ·		Re	pair Org. P.O.	No., J	ob No., etc.
4. Identificatio	-								
4. Identificatio	-			apping System (48	3)	······			
(b) Applica (c) Applica	able Construction Co able Edition of Secti ble Section XI Code	ion XI Utilized for F		Edition, ment Activity -	Addenda, 2001 Ad	C denda,	Code Case,		·
6. Identificatio	on of components.	I				<del></del>	······································	1	
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
Seal Table	Westinghouse	U2 RVST	N/A	60036512-0010	Thimble A-09	1985	Install (1)	Ø	No
<u> </u>	<u> </u>					┣			
					······································				
							1	1 -	
7. Description of	of Work (1)	) Cut and Cap Thimble	e & Guide tube fit	tings.		L	<u> </u>		<u> </u>
<ol> <li>7. Description of</li> <li>8. Tests Conduct</li> </ol>	cted: Hyd	Cut and Cap Thimble	Pneumatic [	Nomina	A Operating Pressure		Exempt	 	
	cted: Hyo Othe	drostatic 🗌 er 🗋	Pneumatic [ Pressure see		Test Temp	ee rmks	Exempt 🗍 °F		
8. Tests Conduc	cted: Hyo Othe	drostatic 🗌 er 🗋	Pneumatic [ Pressure see	Domina	Test Temp	ee rmks	• –		
8. Tests Conduc	cted: Hyo Othe	drostatic 🗌 er 🗋	Pneumatic [ Pressure see	Domina	Test Temp	ee rmks	• –		
8. Tests Conduc	cted: Hyo Othe RCS @ 2244 psi i	drostatic er in mode-3. Normal op	Pneumatic [ Pressure see perating temperatu CERTIFICA	Nomina     Nomina     rmks PSIG     re at the Seal Table du     TE OF COMPLIA	Test Temp. set ing exam unknown.	ee mks	°F		
<ol> <li>8. Tests Conduct</li> <li>9. Remarks</li> <li>I certify that the</li> </ol>	cted: Hyo Othe RCS @ 2244 psi i statements made in the	drostatic er in mode-3. Normal op e report are correct and	Pneumatic [ Pressure see perating temperatu CERTIFICA	Nomina     rmks PSIG     re at the Seal Table du     TE OF COMPLIA ns to the requirements	Test Temp. set ing exam unknown.	ee mks	°F		
8. Tests Conduc 9. Remarks I certify that the Type Code Sym	cted: Hyo Othe RCS @ 2244 psi i statements made in the bol Stamp	drostatic er in mode-3. Normal op e report are correct and	Pneumatic [ Pressure see perating temperatu CERTIFICA d that this comform	Nomina     rmks PSIG     re at the Seal Table du     TE OF COMPLIA ns to the requirements	Test Temp. set set ing exam unknown. NCE of the ASME Code, N/A	Section X Expiration	°F		
8. Tests Conduc 9. Remarks I certify that the Type Code Sym Sign	cted: Hyo Othe RCS @ 2244 psi i statements made in the bol Stamp ed	drostatic er in mode-3. Normal op	Pneumatic [ Pressure see perating temperatu CERTIFICA d that this comform	Nomina     rmks PSIG     re at the Seal Table du     TE OF COMPLIA ns to the requirements	Test Temp. se ing exam unknown. NCE of the ASME Code,	ee rmks	°F	A 3 / 1	6/11 (Date)
8. Tests Conduc 9. Remarks I certify that the Type Code Sym	cted: Hyo Othe RCS @ 2244 psi i statements made in the bol Stamp ed	drostatic er in mode-3. Normal op	Pneumatic [ Pressure see perating temperatu CERTIFICA d that this comform Certificate of Auth rick Nugent	Nomina mks PSIG re at the Seal Table dua re at the Seal Table dua TE OF COMPLIA ms to the requirements a prization No.	Test Temp. se ing exam unknown. NCE of the ASME Code, N/A Engineering N (Title)	ee rmks	°F	A 3 / 1	6/11 (Date)
8. Tests Conduc 9. Remarks I certify that the Type Code Sym Sign (Owner or Own	cted: Hyd Othe RCS @ 2244 psi i statements made in the bol Stamp ed er'sDesignee)	drostatic er in mode-3. Normal op e report are correct and N/A Patr	Pneumatic [ Pressure see perating temperatu CERTIFICA d that this comform Certificate of Auth rick Nugent CERTIFIC	Nomina     rmks PSIG     re at the Seal Table du     TE OF COMPLIA ns to the requirements	Test Temp. se ing exam unknown. NCE of the ASME Code, N/A Engineering N (Title) ION	section X Section X Expiration Manager	°F	A 3 / 1	6/11 (Date)
8. Tests Conduc 9. Remarks I certify that the Type Code Sym Sign (Owner or Own	cted: Hyd Othe RCS @ 2244 psi i statements made in the bol Stamp ed er'sDesignee) ed, holding a valid con	drostatic er in mode-3. Normal op e report are correct and N/A Patr numission issued by the	Pneumatic [ Pressure see perating temperatu CERTIFICA d that this comform Certificate of Auth rick Nugent CERTIFIC	Nomina     rmks PSIG     re at the Seal Table du     TE OF COMPLIA ms to the requirements torization No.     ATE OF INSPECT f Boiler and Pressure V	Test Temp. se ing exam unknown. NCE of the ASME Code, N/A Engineering N (Title) ION	section X Section X Expiration Manager	°F	A 3 / 1	
8. Tests Conduc 9. Remarks I certify that the Type Code Sym Sign (Owner or Own I, the undersign State or Province have inspected t and state that to accordance with implied, concern	cted: Hyd Othe RCS @ 2244 psi i statements made in the bol Stamp ed er'sDesignee) ed, holding a valid com e of cal he components descrit the best of my knowle in the requirements of the ning the examinations of	drostatic er in mode-3. Normal op e report are correct and Patr Patr numission issued by the lifornia, bred in this Owner's Re sdge and belief, the Owner's Re	Pneumatic [ Pressure see perating temperatu CERTIFICA d that this comfore Certificate of Auth rick Nugent CERTIFIC National Board of And employed by sport during the performe- on XI. By signing es described in thi	Nomina     rmks PSIG     re at the Seal Table du     TE OF COMPLIA ms to the requirements torization No.     ATE OF INSPECT f Boiler and Pressure V	Test Temp. se ing exam unknown. NCE of the ASME Code, N/A Engineering N (Title) ION Vessel Inspectors and HSB-CT /10 , 2009 en corrective measu the Inspector nor hi thermore, neither th	section X Section X Expiration Manager of of the to res describilities is employe e Inspecto	°F	A Triford, C 7/05 <sup>2</sup> 's Reportantly, e	T , 2011, , rt in xpressed or
8. Tests Conduc 9. Remarks I certify that the Type Code Sym Sign (Owner or Own I, the undersign State or Province have inspected t and state that to accordance with implied, concern	cted: Hyd Othe RCS @ 2244 psi i statements made in the bol Stamp ed er'sDesignee) ed, holding a valid com e of cal he components descrit the best of my knowle in the requirements of the ning the examinations of	drostatic er in mode-3. Normal op e report are correct and Patr Patr numission issued by the lifornia, bred in this Owner's Re sdge and belief, the Owner's Re	Pneumatic Pressure see perating temperatu CERTIFICA d that this comfore Certificate of Auth rick Nugent CERTIFICA National Board o And employed by port during the per vner has performe on XI. By signing es described in thi iss of any kind aris	Nomina     Image: Search of the search	Test Temp. set ing exam unknown. NCE of the ASME Code, N/A Engineering N (Title) ION /essel Inspectors and HSB-CT /10 , 2009 en corrective measu the Inspector nor hi thermore, neither th with this inspection	section X Section X Expiration Manager of of the of cost descrit is employe e Inspecto	°F	A Trtford, C 7/05 's Repo ranty, e er shall	CT , 2011 , rt in xpressed or be liable in
8. Tests Conduc 9. Remarks I certify that the Type Code Sym Sign (Owner or Own I, the undersign State or Province have inspected t and state that to accordance with implied, concern	cted: Hyd Othe RCS @ 2244 psi i statements made in the bol Stamp ed er'sDesignee) ed, holding a valid com e of cal he components descrit the best of my knowle in the requirements of the ning the examinations of	drostatic er in mode-3. Normal op e report are correct and Patr Patr numission issued by the lifornia, bred in this Owner's Re sdge and belief, the Owner's Re	Pneumatic [ Pressure see perating temperatu CERTIFICA d that this comfore Certificate of Auth rick Nugent CERTIFIC National Board of And employed by sport during the performe- on XI. By signing es described in thi	Nomina rmks PSIG re at the Seal Table dur TE OF COMPLIA ns to the requirements sorization No. ATE OF INSPECT f Boiler and Pressure V riod 12 d examinations and tak this certificate, neither s Owner's Report. Fur	Test Temp. set ing exam unknown. NCE of the ASME Code, N/A Engineering N (Title) ION /essel Inspectors and HSB-CT /10 , 2009 en corrective measu the Inspector nor hi thermore, neither th with this inspection	section X Section X Expiration Manager of of the of res descrit is employee e Inspecto mmission	°F	A Triford, C 7/05 's Reportanty, e er shall B 9990	CT , 2011 , xpressed or be liable in A.N.I.C

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1. Owner	Pacific Gas and El	ectric Company						– – – Date	8/5/2011
		n Francisco, CA 9	4106						1 of 1
2. Plant	Diablo Canyon Po	wer Plant						Unit	2
	P.O. Box 56, Avila	Beach, CA 93424			. <u> </u>				
3. Work Per	formed by	Owner							
		See Abo	ove	•••••••••••••••••••••••••••••••••••••••	·	Re	pair Org. P.O.	No., J	ob No., etc.
4. Identifica	tion of System	<u></u>	Warehouse	Spare Parts (85)		_			
(b) Appli (c) Appli	cable Construction C cable Edition of Sect cable Section XI Cod	ion XI Utilized for F		Edition,	Addenda, 2001 Add	C denda,	Code Case, 02 / 03		
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)
D954765	Anchor Darling	EA711-2-1	N/A	60017040-0030	ASW Vac Brker Spare	Unk	Installed (1)		No
D954764	Anchor Darling	EB983-1-2	N/A	60017040-0030	ASW Vac Brker Spare	Unk	Installed (1)		No
<ol> <li>7. Description</li> <li>8. Tests Cond</li> <li>9. Remarks</li> </ol>	ucted: Hy	) Replaced disc.		D Nomina rmks PSIG	l Operating Pressure Test Tempse	e 🗌 ee rmks_	Exempt [] .°F		
			- <u></u>		······································				<u> </u>
Type Code Sy Sig	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 X1 Type Code Symbol Stamp N/A Partificate of Authorization No. N/A Expiration Date N/A Signed Engineering Manager 7/16/11 (Owner or Owner'sDesignee) Martick Nugent (Title) (Date)								
•••••		····· <i>\</i> /····		ATE OF INSPECT			•••••		
State or Provi	ice of Ca	lifornia,	And employed by		HSB-CT	of		tford, (	
and state that t accordance wi implied, conce	th the requirements of the training the examinations	edge and belief, the Ow he ASME Code, Section and corrective measure	mer has performe in XI. By signing as described in the ss of any kind ari	ed examinations and tak this certificate, neither is Owner's Report. Fur sing from or connected	the Inspector nor his thermore, neither the with this inspection.	s employe e Inspecto	bed in the Owner or makes any war or nor his employe	ranty, e r shall	xpressed or be liable in
^	Kenny D. Kim		Inspector (Title)		20/1 Con	mmission	s CA 1828 - NI Province, Natio	3 9990	A.N.I.C
	nental sheets in the form			(Date) / used provided (1) size is tets is recorded at the top	s 8 1/2 x 11 in., (2) i				