



*Pacific Gas and
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James R. Becker
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August 22, 2002

PG&E Letter DCL-02-096

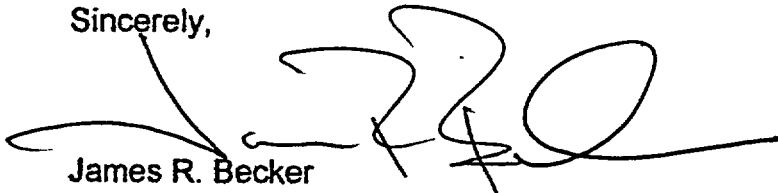
U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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Docket No. 50-275, OL-DPR-80
Diablo Canyon Unit 1
Inservice Inspection Report for Unit 1 Eleventh Refueling Outage

Dear Commissioners and Staff:

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

Sincerely,



James R. Becker

ddm/469/R0217115

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

A047

**INSERVICE INSPECTION REPORT FOR
DCPP UNIT 1 ELEVENTH REFUELING OUTAGE**

Diablo Canyon Power Plant

Unit 1

USNRC Docket No. 50-275

Operating License No. DPR-80

Commercial Operation Date, May 7, 1985

Prepared By: _____

ISI Specialists: Thomas L. Alcott, and Terry G. Carraher

Reviewed By: _____

James Hill, Lead ISI Specialist

Approved By: _____

David A. Vosburg, Manager NSSS Engineering

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

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SECTION A
INTRODUCTION

SECTION A

INTRODUCTION

Inservice inspection (ISI) of scheduled ASME Section XI Class 1 and 2 components and their supports at Pacific Gas and Electric Company's Diablo Canyon Power Plant (DCPP) Unit 1 was completed during the eleventh refueling outage from April through May, 2002. The DCPP Unit 1 eleventh refueling outage (1R11) was the second outage in the second period within the second 10-year ISI interval.

This report is submitted as required by ASME Section XI, paragraph IWA-6220, and is organized in several sections. An introduction is provided in Section A. Section B contains the completed ASME Code Data Report Form NIS-1 for Class 1 and 2 components. Sections C and D detail the Class 1 and 2 examinations performed, date of examination (for group items or for more than one type of examination performed, the date provided is the most recent examination date), any unusual conditions noted, corrective actions if required, and explanatory remarks.

System pressure tests on Class 1 and 2 systems conducted during 1R11 are reported in Section E.

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

Section G of this report, Repairs and Replacements, contains the completed ASME Code Data Report Form NIS-2 for those 1R11 work packages closed prior to July 2, 2002 and for any pre-1R11 work packages closed after December 17, 2000. NIS-2 reports for 1R11 work packages that are closed after July 1, 2002 will be included in the next outage report. Corrective actions and work order package documentation are on file at DCPP and are referenced by work order number in the NIS-2 reports.

Containment exams are reported in Section H.

Augmented exams are reported in Section I.

SECTION B

ASME CODE DATA NIS-1 FORMS

FORM NIS-1 OWNER'S DATA 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 One 4. Owner Certificate of Authorization (if required) N/A
5. Commercial Service Date 05/07/85 6. National Board Number for Unit N/A
7. Component Inspected ASME Code Class 1 Items

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Vessel	Combustion Engineering Westinghouse	CE 66104	11475-76	20760
Steam Gen 1-1	Westinghouse	1041	N/A	68-12
Steam Gen 1-2	Westinghouse	1042	N/A	68-13
Steam Gen 1-3	Westinghouse	1043	N/A	68-14
Steam Gen 1-4	Westinghouse	1044	N/A	68-15
Pressurizer	Westinghouse	1051	N/A	68-30
Class 1 Valves	Various	N/A	N/A	N/A
Class 1 Supports	Various	N/A	N/A	N/A
Class 1 Piping	Wismer & Becker/Kellog	N/A	N/A	N/A

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

FORM NIS-1 (back)

- 8. Examination Dates 04/02 to 05/02
- 9. Inspection Period Identification: Second (10th to 11th)
- 10. Inspection Interval Identification: Second
- 11. Applicable Edition of Section XI 1989 Addenda None
- 12. Date/Revision of Inspection Plan: December 18, 1998, Revision 1
- 13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for current interval. Refer to ISI Report
- 14. Abstract of Results of Examinations and Tests. Refer to ISI Report
- 12. 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) _____ Expiration Date _____
Date July 22 2002 Signed Technical Support Manager By [Signature]
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of California and employed by H. S. B. I. & I Co. of Harford, CT have inspected the components described in this Owners' Data Report during the period 04/02 to 05/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data 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 Owners' 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 July 23 2002
Kenny Kim Commissions CA 1828, NB 9990 A.N.I.C.
Inspector's Signature/Kenny Kim National Board, State, Province and No.

FORM NIS-1 (back)

- 8. Examination Dates 04/02 to 05/02
- 9. Inspection Period Identification: Second (10th to 11th)
- 10. Inspection Interval Identification: Second
- 11. Applicable Edition of Section XI 1989 Addenda None
- 12. Date/Revision of Inspection Plan: December 18, 1998, Revision 1
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- 14. Abstract of Results of Examinations and Tests. Refer to ISI Report
- 12. 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) _____ Expiration Date _____
Date JULY 22 20 02 Signed Technical Support Manager By [Signature]
Owner

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of California and employed by H. S. B. I. & I. Co. of Harford, CT have inspected the components described in this Owners' Data Report during the period 04/02 to 05/02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owners' Data 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 Owners' 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 July 23 20 02
Kenny K. Kim Commissions CA 1828, NB 9990 A.N.I.C.
Inspector's Signature/Kenny Kim National Board, State, Province and No.

SECTION C
CLASS ONE COMPONENTS

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
 (IR11)
 ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: REACTOR VESSEL

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-G-1							
B6.30	RPV1 Closure Head Studs	RPV Bolting > 2" diam.	RPV1 Studs 19 to 36	UT	5-6-02		NRI
B-G-2							
B7.80	CRD Housings:	RPV Bolting < 2" diam.	Part Length CRDM K-4, 6 Bolts	VT-1	5-14-02		NRI
			Part Length CRDM F-4, 6 Bolts	VT-1	5-14-02		NRI
B-N-1							
B13.10	Reactor Vessel 1 Interior	Reactor Vessel 1 Interior	Reactor Vessel 1 Interior	VT-3	5-9-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(1R11)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PRESSURIZER

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-B							
B2.11	Shell to Bottom Head Circ Weld	Pressurizer 1	Girth 1 - one third	UT	5-7-02		NRI
B-H							
B8.20	Support Skirt Weld	Pressurizer 1	Girth 10 - one third	UT	5-7-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(IR11)

MAJOR ITEM: STEAM GENERATORS

ASME SECTION XI SYSTEMS - CLASS 1

CAT B16.20

STEAM GENERATOR TUBING

PAGE 1 of 1

The following percentages apply to inservice tubes.

SCOPE	PROBE TYPE	SG 11	SG 12	SG 13	SG 14
Full length (except Rows 1 and 2 U-bends)	Bobbin	100%	100%	100%	100%
Rows 1 and 2 U-bends	Plus Point	100%	100%	100%	100%
Repeat PWSCC indications at dents and top of tubesheet	Plus Point	100%	100%	100%	100%
Hot Leg top-of tubesheet	Plus Point	100%	100%	100%	100%
≥ 5 volt dented TSP intersections	Plus Point (Note 1)	100% at 1H to 4H, 20% at 5H to 7H	100% at 1H to 6H, 20% at 7H	20% at 1H to 7H	100% at 1H to 6H, 20% at 7H
> 2 and < 5 volt dented TSP intersections	Plus Point (Note 1)	100% at 1H to 4H, 20% at 5H	100% at 1H to 6H, 20% at 7H	20% at 1H	100% at 1H to 6H, 20% at 7H
Distorted OD bobbin signals at TSP intersections	Plus Point	Per voltage-based repair criteria	Per voltage-based repair criteria	Per voltage-based repair criteria	Per voltage-based repair criteria
Distorted ID bobbin signals at TSP intersections	Plus Point	100%	100%	100%	100%
> 2 volt free span dings	Plus Point	20% TSH to 7H	20% TSH to 7H	20% TSH to 7H	20% TSH to 7H
Baseline TSP ligament indications	Plus Point	100%	N/A	N/A	100%
Tubes unplugged		N/A	150	N/A	N/A
Tubes plugged		29	91	10	10

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

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
 (IR11)
 ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING

PAGE 1 of 3

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-G-1							
B6.180	RCP 1-2 Main Flange Bolts	Pump Bolting > 2" diam.	RCP 1-2 Bolts 2-9	UT	5-14-02		NRI
B-M-2							
B12.50	RHR Pp 1-1 Inj CL 1	S6-3844-6SPL+	V-8818C Interior	VT-3	5-7-02		NRI
B-J							
B9.11	Pressurizer Surge Line	*-16-14	WIB-67	UT	5-9-02		NRI
	Pressurizer Surge Line	*-16-14	WIB-69	UT	5-10-02		NRI
	Pressurizer Surge Line	*-16-14	Elbow between WIB- 69 and WIB-70	UT	5-10-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
 (IR11)
 ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING

PAGE 2 of 3

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-J cont'd							
B9.21	Pzr Pwr RV PCV- 455C	S6-1172-3	WIB-370	UT	5-2-02		NRI
	Pzr Pwr RV PCV- 455C	S6-1172-3	WIB-371	UT	5-2-02		NRI
	Pzr Pwr RV PCV- 455C	S6-1172-3	WIB-372	UT	5-2-02		NRI
B9.40	Charging Line Aux Spray	S6-51-2SPL	WIB415	PT	5-3-02		NRI
	Loop 4 Cold Leg Drain RCDT	S6-961-2SPL+	WIB-339	PT	5-16-02		NRI
	Loop 1 RCS CL Vent & Refill	S6-1140-2SPL	WIB-28E	PT	5-9-02		NRI
	Charging Injection Out Lp 3 CL	S6-1994-1.5SPL+	WIB-114	PT	5-14-02		NRI
	Charging Injection Out Lp 3 CL	S6-1994-1.5SPL+	WIB-115	PT	5-14-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
 (1R11)
 ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING

PAGE 3 of 3

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-J cont'd							
B9.40	Charging Injection Out Lp 1 CL	S6-1991-1.5SPL+	WIB-44	PT	5-14-02		NRI
	Charging Injection Out Lp 1 CL	S6-1991-1.5SPL+	WIB-42	PT	5-14-02		NRI

PG&E

DIABLO CANYON POWER PLANT - UNIT 1

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(1R11)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: INTEGRAL
ATTACHMENTS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-K-1							
B10.10	RHR Pp 1-1 Inj Cold Leg 1	S6-3844-6SPL	42-41V Paramount	PT	5-16-02		NRI
	Pzr Power RV PCV-455C	S6-1172-3SPL	48-29A FWX301A-C	PT	5-2-02		NRI
B10.20	RC Pump 1-2	RCP 1-2 Support Lug	Lug Weld No. 1	PT	5-6-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(IR11)
ASME SECTION XI SYSTEMS - CLASS 1

MAJOR ITEM: PIPING SUPPORTS

PAGE 1 of 1

CATEGORY

F-A

SUPPORTS

F1.10 TO F1.70

SUPPORT COMPONENTS

The required inservice inspections were performed on 1 Class 1 hanger during the eleventh refueling outage between the dates of 05/16/02 and 05/16/02. All supports found acceptable. Data reports are on file.

LINE	SUPPORT
RCP 1-2	Support Structure

SECTION D
CLASS TWO COMPONENTS

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(1R11)
ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: STEAM GENERATORS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-A							
C1.10	Shell Circ. Welds	Steam Generator 1-2	Girth W2-4 - accessible 20%	UT	5-1-02		NRI
C-B							
C2.21	Nozzle-to-Shell Weld	SG 1-3 to K16-557-16 IV	Feedwater Nozzle- to-Shell Weld	MT	5-3-02		NRI
	Nozzle-to-Shell Weld	SG 1-3 to K16-557-16 IV	Feedwater Nozzle- to-Shell Weld	UT	5-4-02		NRI
C2.22	Nozzle Inside Radius Section	SG 1-3 to K16-557-16 IV	Feedwater Nozzle Inside Radius	UT	5-3-02		NRI

PG&E

DIABLO CANYON POWER PLANT - UNIT 1

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(1R11)
ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: RHR HEAT EXCHANGERS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-A							
C1.10	Shell Circ. Welds	RHR Heat Exchanger 1-1	Girth Weld GA (#1) (Shell-to-Flange)	PT	4-26-02		NRI
C-B							
C2.21	Nozzle-to-Shell Weld	RHR HX 1-1 to S1-112-8	Inlet Nozzle- to-Shell Weld #5 (N1)	PT	4-26-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
 (IR11)
 ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: PIPING

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-F-1							
C5.11	RHR HX 1 Outlet	S1-118-8 III	WIC-16	UT	4-23-02		NRI
	RHR HX 1 Outlet	S1-118-8 III	WIC-16D	UT	4-18-02		NRI
	RHR HX 1 Outlet	S1-118-8 III	WIC-16H	UT	4-18-02		NRI
	RHR HX 1 Outlet	S1-118-8 III	WIC-35	UT	4-23-02		NRI
	RHR Pp1 Discharge	S1-112-8 III	WIC-145	UT	4-25-02		NRI
	RHR Pp1 Discharge	S1-112-8 III	WIC-154	UT	4-25-02		NRI
	RHR Pp 2 Discharge	S1-113-8 III	WIC-133	UT	4-24-02		NRI
	RHR Pp 2 Discharge	S1-113-8 III	WIC-134	UT	4-24-02		NRI
	RHR HX Outlet Cross-Tie Hx-1	S1-2458-8 III	WIC-31	UT	4-23-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
 (1R11)
 ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: INTEGRAL
 ATTACHMENTS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
C-C							
C3.20	S/G 1-2 Outlet: Weld Attachment	Line K15-227- 28V	1022-1V Attachment Lugs	MT	5-5-02		NRI
	S/G 1-4 Feedytr: Weld Attachment	Line K16-556- 16V	1044-7V Attachment Paramount	MT	5-7-02		NRI
	RHR Pp 1-1 Inj: Weld Attachment	Line S6-3844-6III	42-37A Attachment X394A-E	PT	5-18-02		NRI
	CCP 1-2 BP Sup: Weld Attachment	Line S6-1475-3	73-37R Attachment Lugs	PT	5-5-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
 (1R11)
 ASME SECTION XI SYSTEMS - CLASS 2

MAJOR ITEM: PIPING SUPPORTS

CATEGORY

F-A

SUPPORTS

F1.10 TO F1.70

SUPPORT COMPONENTS

The required inservice inspections were performed on 68 Class 2 hangers prior to and during the eleventh refueling outage between the dates of 03/01/02 and 05/16/02. Results were found acceptable. Data reports are on file.

LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT	LINE	SUPPORT
45	73-65R	53	73-45A	228	1020-3R	1065	1027-8V	2032	54S-11V
48	55S-116R	53	74-30A	228	1032-16R	1065	1033-27R	2033	15-108R
48	55S-119R	54	39-9R	508	42-47R	1357	57S-23V	2033	56S-50R
48	55S-122R	54	180-10	508	42-49R	1357	57S-181R	2044	512-39V
48	55S-125R	54	2151-55	508	42-68R	1454	54S-19R	3678	73-46R
48	74-47R	54	2151-66	508	42-77R	1454	73-41R	3844	42-37A
48	99-6R	54	2151-89	508	56N-121R	1464	73-24	3844	42-39R
48	99-84R	54	2151-107	508	56N-122R	1464	73-98	3844	42-66R
48	99-101R	54	2151-113	554	1048-14R	1466	73-29	RHR HX 1-1	Mid-level braces
48	99-187V	54	2151-133	554	1048-22R	1466	73-73		
52	99-6R	54	2151-215	746	56S-117R	1466	73-143	RHR HX 1-1	Top-level braces
52	99-9R	54	2155-54	746	57S-112A	1474	73-22R		
52	99-24R	54	2155-185	746	57S-122R	1973	54S-21R		
52	99-101R	54	2161-16	746	57S-192R	1974	54S-12R		
				746	99-9R	1979	56S-53R		

SECTION E
SYSTEM PRESSURE TESTS

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (1R11)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
1	1	Reactor Coolant System and Connected Piping	5-26-02	STP-R8A	NRI
2	1	Excess Letdown between 8166 & 8167	5-26-02	STP-R8A	NRI
3	1	Pressurizer Auxiliary spray	5-26-02	STP-R8A	NRI
4	1	Alternate Charging	5-26-02	STP-R8A	NRI
5	1	RHR & SI to Cold Legs	5-26-02	STP-R8A	NRI
6	1	Charging Injection Inside Cont.	5-26-02	STP-R8A	NRI
7	1	Safety Injection Inside Cont, From 8905A-D to 8949A-D	5-26-02	STP-R8A	NRI
8	1	RHR Between 8702 & 8701	5-26-02	STP-R8A	NRI
9	1	Pzr. Piping from 8052 to 8064 A, B, C	5-26-02	STP-R8A	NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (1R11)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

PAGE 2 of 5

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
1	2	Steam Generators and Connected Piping	5-26-02		NRI
4	2	RCS Loops 1 & 4 Hot Leg Sample Lines	5-26-02		NRI
5	2	Pressurizer Sample Lines	5-26-02		NRI
6	2	XS Ltdn HX & piping from 8167 to HCV-123	5-26-02		NRI
7	2	RCP Hi Press Seal Water out & XS Ltdn HX outlet piping	5-26-02		NRI
8	2	Charging Pumps Discharge Piping	5-26-02		NRI
9	2	Recip Chg Pump & Disch Piping to 8475	2-27-02		NRI
10	2	Alt Charging Between 8483, 8147 & 8379A	5-26-02		NRI
12	2	Charging Injection 8801A & B to 8820	5-26-02		NRI
13	2	Charging Pumps & Suction Piping	2-15-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (1R11)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
14	2	Regenerative HX and Letdown Piping	3-1-02		NRI
15	2	Boric Acid Pumps Disch Piping	6-27-02		NRI
15a	2	Boric Acid Pumps Disch Piping Between 8104 and 8445	3-20-02		NRI
16	2	Boric Acid Tanks to Pump Disch Iso Valves	6-27-02		NRI
17	2	Accumulator Injection Loops 1-4, Sample Lines to 9352A-D, Test & Fill lines to 8878A-D	6-13-02		NRI
19	2	RWST & Supply to RHR, Cont Spray, SI, Refueling Wtr Purification Pumps & Recirc Line to RHR HX	5-23-02		NRI
20	2	RWST Supply to Chg Pp Suction, 8805A & B to 8924	4-30-02		NRI
21	2	Safety Injection Pump Discharge to 8802A & B and Cold Legs	4-11-02		NRI
22	2	Safety Injection Pumps Discharge to Hot Legs from 8802A & B to 8904A-D	5-26-02		NRI
23	2	RHR Pumps and Discharge Piping	5-23-02		NRI

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
29	2	Cont Spray Ring Piping, Spec S3	5-18-02		NRI
30	2	CCW Supply & Return to Cont Fan Coolers, RCPs and XS Letdown Heat Exchanger	5-26-02		NRI
31	2	Steam Generator Nitrogen Supply	5-1-02		NRI
34	2	PZR Relief Tank Nitrogen Supply	4-26-02		NRI
35	2	Primary Water Supply to PZR Relief Tank	4-26-02		NRI
36	2	Accumulator Tanks Nitrogen Supply Header	4-26-02		NRI
37	2	Accumulators Sample Header	5-26-02		NRI
38	2	Fuel Transfer Tube to Refueling Canal	5-14-02		NRI
39	2	Auxiliary Steam Containment Penetration	5-8-02		NRI
40	2	Firewater Supply Before Containment	5-22-02		NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT (1R11)

MAJOR ITEM: PRESSURE TESTS

ASME SECTION XI SYSTEMS - CLASS 1 & 2

TEST NO.	CLASS	DESCRIPTION	EXAM DATE	COMMENTS	RESULTS
41	2	Refueling Canal Water Inlet	5-14-02		NRI
42	2	Reactor Coolant Drain Tank Nitrogen Sup	5-2-02		NRI
43	2	Reactor Coolant Drain Pumps Discharge Header	5-22-02		NRI
44	2	Inside Cont Instrument Air Supply Header	4-26-02		NRI
45	2	Service Air Penetration Header	5-1-02		NRI

SECTION F
PRESERVICE INSPECTION ITEMS

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(1R11)

MAJOR ITEM: PSI

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

PAGE 1 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B-G-2							
B7.50	U1 Pipe Flange Bolting	S6-729-6	RV-8010A Inlet Flg: (12 Studs & Nuts)	VT-1	5-16-02		NRI
	U1 Pipe Flange Bolting	S6-728-6	RV-8010B Inlet Flg: (12 Studs & Nuts)	VT-1	5-16-02		NRI
	U1 Pipe Flange Bolting	S6-727-6	RV-8010C Inlet Flg: (12 Studs & Nuts)	VT-1	5-16-02		NRI
B7.70	Pzr RV-8010A Inlet	S6-729-6	RV-8010A: 8 Bonnet Studs & Nuts	VT-1	5-16-02		NRI
	Pzr RV-8010B Inlet	S6-728-6	RV-8010B: 8 Bonnet Studs & Nuts	VT-1	5-16-02		NRI
	Pzr RV-8010C Inlet	S6-727-6	RV-8010C: 8 Bonnet Studs & Nuts	VT-1	5-16-02		NRI
	Safety Inj Loop 1 Hot Leg	S6-235-6SPL+	V-8949A: 12 Studs & Nuts	VT-1	4-3-02		NRI
	Safety Inj Loop 2 Hot Leg	S6-236-6SPL+	V-8949B: 12 Studs & Nuts	VT-1	4-3-02		NRI

PG&E

DIABLO CANYON POWER PLANT - UNIT 1

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(1R11)
ASME SECTION XI SYSTEMS - CLASS 1 & 2 PRESERVICE INSPECTION ITEMS

MAJOR ITEM: PSI

PAGE 2 of 2

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
B7.70 Cont'd	Safety Inj Loop 3 Hot Leg	S6-237-6SPL+	V-8949C: 12 Studs & Nuts	VT-1	4-3-02	,	NRI

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(1R11)
ASME SECTION XI SYSTEMS – CLASS 1 & 2 PRESERVICE INSPECTION ITEMS

MAJOR ITEM: PSI SUPPORTS

PAGE 1 of 1

CATEGORY

FA **SUPPORTS**
F1.10 TO F1.70 SUPPORT COMPONENTS

The required preservice inspections were performed on 6 supports during the eleventh refueling outage.

LINE	SUPPORT
14	11-135SL
55	22-155SL
60	22-242SL
121	14-53SL
554	1048-1R
3279	16-75SL

SECTION G
REPAIRS AND REPLACEMENTS

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

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Feedwater (system 03)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
FW-1-370	Velan	1886	N/A	C0172764	0575	N/A	Replacement	No (07)
Line 1-554	PG&E	N/A	N/A	C0173392	0554	N/A	Replaced	No (15) *
Line 1-555	PG&E	N/A	N/A	C0173394	0555	N/A	Replaced	No (15) *
Line 1-555	PG&E	N/A	N/A	C0173395	0555	N/A	Replaced	No (15) *
Line 1-557	PG&E	N/A	N/A	C0173397	0557	N/A	Replaced	No (15) *
Line 1-554	PG&E	N/A	N/A	C0176384	0554	N/A	Repaired	No (22) *

7. Description of Work (7) Replace Valve Internals, (15) Replace Line Segment, (22) Other (weld build-up to restore thickness)

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks * Pressure Test IAW Code Case N-416-1 NOP

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repair/Replacement conforms to Section XI of the ASME Code. Signed *David A. Vosburg* Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Repair/Replacement described in this Report on 7-23, 2002 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector July 23, 2002 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Feedwater (system 03)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser- No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
11-27SL	PSA	288	N/A	C0166658	0569	N/A	Replacement	Yes (2)
1048-1R	PG&E	N/A	N/A	C0174042	0554	N/A	Replacement	No (2)
1048-2R	PG&E	N/A	N/A	C0174043	0555	N/A	Replacement	No (2)

7. Description of Work (2) Replace support parts

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

CERTIFICATE OF INSPECTION

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

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Turbine Steam Supply System (System 04)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
MS-1-PCV-22	Copes-Vulcan	6910.95009	N/A	C0172661	1066	N/A	Replacement	No (7)
MS-1-FCV-761	Fisher Controls	4933083	N/A	C0172840	1017	N/A	Replacement	No (7) (8)
MS-1-PCV-19	Copes-Vulcan	6910 95009 22 6	N/A	C0174237	0228	N/A	Replacement	No (7) (8)
MS-1-PCV-20	Copes-Vulcan	6910 95009	N/A	C0174254	0227	N/A	Replacement	No (7) (8)
MS-1-PCV-21	Copes-Vulcan	6910.95009	N/A	C0174255	1065	N/A	Replacement	No (8)
MS-1-PCV-22	Copes-Vulcan	6910.95009	N/A	C0174289	1066	N/A	Replacement	No (8)

7. Description of Work (7) Replace Valve Internals, (8) Replace Bonnet Bolting

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Replacement described in this Report on 7-23, 2002 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector July 23, 2002 Commissions CA 1828 - NB 9990 A N.I.C.
(Title) (Date) (State or Province, National Board)

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

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Turbine Steam Supply System (System 04)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
16-20SL	ITT Grinnell	32201	N/A	C0169071	0594	N/A	Replaced	No (3)
10-123SL	PSA	664	N/A	C0169498	3916	N/A	Replaced	Yes (3)
11-87SL	PSA	99	N/A	C0173262	0593	N/A	Replaced	Yes (3)
16-72ASL	PSA	2788	N/A	C0173280	3917	N/A	Replaced	Yes (3)
10-96SL	PSA	26469	N/A	C0177015	3915	N/A	Replaced	Yes (3)
16-72BSL	PSA	683	N/A	C0177155	3917	N/A	Replaced	Yes (3)

7. Description of Work (3) Replace Snubber

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02
(Owner or Owner's Designee) (Title) (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector July 23, 2002 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 2
2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424
3. Work Performed by Owner
See Above Repair Org P O No, Job No., etc
4. Identification of System Reactor Coolant (System 07)
(See Below - Code Stamp Column)
5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1
6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RCS-1-8000A	Velan	N/A	N/A	C0176256	1171	N/A	Replacement	Yes (8)
RCS-1-8000B	Velan	N/A	N/A	C0176257	1172	N/A	Replacement	Yes (8)
RCS-1-8000C	Velan	N/A	N/A	C0176258	1195	N/A	Replacement	Yes (8)
RCS-1-8010C	Crosby	SU2C	N/A	C0177325	0727	N/A	Replacement	No (9)
RCS-1-8010	Crosby	U12S1	N/A	R0195223	n/a-spare	N/A	Replacement	No (7)
RCS-1-RV-8010A	Crosby	U12S	N/A	R0215452	0729	1999	Replaced	Yes (5) *

7. Description of Work See Remarks
8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F
9. Remarks (5) Replace Valve, (7) Replace Valve Internals, (8) Replace Bonnet Bolting, (9) Replace Flange Bolting
* Pressure Test IAW Code Case N-416-1 NOP

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed *David A. Vosburg* Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Replacement described in this Report on 7-23, 2002 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector July 23, 2002 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Reactor Coolant (System 07)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser.-No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
15-34SL	PSA	23089	N/A	C0166674	2999	N/A	Replaced	Yes (3)
11-135SL	PSA	29473	N/A	C0177061	0014	N/A	Replaced	Yes (3)

7. Description of Work (3) Replace Snubber

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) 7/22/02 (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector July 23, 2002 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) July 23, 2002 (Date) CA 1828 - NB 9990 A.N.I.C. (State or Province, National Board)

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

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Chemical And Volume Control System (System 08)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Line I-43	PG&E	N/A	N/A	C0165633	0043	N/A	Replaced	No (15) *
CVCS-1-8479B	Rockwell	N/A	N/A	C0170764	1468	N/A	Replaced	No (5) *
Line I-55	PG&E	N/A	N/A	C0175198	0055	N/A	Replaced	No (15) *

7. Description of Work (5) Replace Valve, (15) Replace Line Segment * Pressure Test IAW Code Case N-416-1 NOP

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed *David A. Vosburg* Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

CERTIFICATE OF INSPECTION

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Kenny D. Kim Inspector July 23, 2002 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner
See Above Repair Org PO No, Job No., etc.

4. Identification of System Safety Injection (System 09)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Accumulator 1-3	Delta Southern	41049-69-1	N/A	C0169083	Nozzle A	N/A	Repair	No (22) *
SI-1-8949C	Velan	N/A	N/A	C0176307	0237	N/A	Replacement	Yes (8)
SI-1-8949A	Velan	N/A	N/A	C0176322	0235	N/A	Replacement	Yes (8)
SI-1-8949B	Velan	N/A	N/A	C0176323	0236	N/A	Replacement	No (8)

7. Description of Work (8) Replace Bonnet Bolting, (22) Repair Nozzle Bore * Pressure Test IAW Code Case N-416-1 NOP

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repair/Replacement conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S.B.I. & I. Co. of Hartford, CT. have inspected the Replacement described in this Report on 7-23, 2002 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector July 23, 2002 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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

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

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Safety Injection (System 09)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No. Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
10-SSL	ITT Grinnell	31785	N/A	C0166685	0253	N/A	Replaced	No (3)
42-41V	PG&E	N/A	N/A	C0177414	3844	N/A	Repaired	No (4)

7. Description of Work (3) Replace Snubber, (4) Repair Support

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repair/Replacement conforms to Section XI of the ASME Code. Signed *David A. Vosburg* Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Residual Heat Removal (System 10)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
RHR-1-RV-8707	Crosby	N72387-00-0001	N/A	R0223039	1167	N/A	Replaced	No (5) *

7. Description of Work (5) Replace Valve * Pressure Test IAW Code Case N-416-1 NOP

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02
(Owner or Owner's Designee) (Title) (Date)

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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Containment Spray (System 12)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
CS-1-8996	Velan	Unk	N/A	C0165017	2653	N/A	Replaced	No (5) *
CS-1-RV-930	ACF Ind.	Unk	N/A	R0223052	SprayAdTk	N/A	Replaced	No (5) *
CS-1-RV-931	ACF Ind.	Unk	N/A	R0227082	SprayAdTk	N/A	Replaced	No (5) *

7. Description of Work (5) Replace Valve * Pressure Test IAW Code Case N-416-1 NOP

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Component Cooling (System 14)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser.-No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
11-115SL	PSA	13630	N/A	C0166661	0316	N/A	Replaced	Yes (3)

7. Description of Work (3) Replace Snubber

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed *David A. Vosburg* Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

CERTIFICATE OF INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of California, employed by H.S B I. & I. Co. of Hartford, CT. have inspected the Replacement described in this Report on 7-23, 2002 and state that to the best of my knowledge and belief, this repair or replacement has been constructed in accordance with Section XI of the ASME Code. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair or replacement described in this Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.

Kenny D. Kim Inspector July 23, 2002 Commissions CA 1828 - NB 9990 A.N.I.C.
Kenny D. Kim (Title) (Date) (State or Province, National Board)

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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Vent And Air Conditioning System (23)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser- No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Line 1-3937	PG&E	N/A	N/A	C0175404	3937	N/A	Replaced	No (22) *
Line 1-3936	PG&E	N/A	N/A	C0175406	3936	N/A	Replaced	No (22) *
Line 1-3936	PG&E	N/A	N/A	C0175522	3936	N/A	Replaced	No (22) *
Line 1-3937	PG&E	N/A	N/A	C0175526	3937	N/A	Replaced	No (22) *
VAC-1-FCV-662	FisherControls	16199-2	N/A	C0177504	0647	N/A	Replacement	No (9)

7. Description of Work (9) Replace Valve Flange Bolting, (22) Modify Piping * Pressure Test IAW Code Case N-416-1 NOP

8. Tests Conducted: Hydrostatic Pneumatic X Nominal Operating Pressure X Other
Pressure >50 psi Test Temp N/A °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed *David A. Vosburg* Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

CERTIFICATE OF INSPECTION

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As Required by the Provisions of ASME Code Section XI

1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Vent And Air Conditioning System (23)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
2162-28	PG&E	N/A	N/A	C0175404	3937	N/A	Replaced	No (22)
2162-31	PG&E	N/A	N/A	C0175406	3936	N/A	Replaced	No (22)

7. Description of Work (22) Modify Support

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Replacement conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02
(Owner or Owner's Designee) David A. Vosburg (Title) (Date)

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77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

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

4. Identification of System Incore Flux Mapping System (48)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N-416-1

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
Seal Table	Westinghouse	N/A	N/A	C0177196	ThimbleTubes	N/A	Repaired	No (22) *

7. Description of Work (22) Modify Thimble Tubes * Pressure Test IAW Code Case N-416-1 NOP

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repair conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02 (Date)
(Owner or Owner's Designee) (Title)

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1. Owner Pacific Gas and Electric Company Date July 1, 2002
77 Beale Street, San Francisco, CA 94106 Sheet 1 of 1

2. Plant Diablo Canyon Power Plant Unit 1
P.O. Box 56, Avila Beach, CA 93424

3. Work Performed by Owner
See Above Repair Org PO No., Job No., etc

4. Identification of System Warehouse Spare Parts (System 85)
(See Below - Code Stamp Column)

5. (a) Applicable Construction Code 19 Edition Addenda, Code Cases N/A

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements - 1989, No Addenda, Code Cases N/A

6. Identification of components Repaired or Replaced, and Replacement Components

Name of Component	Name of Mfr.	Mfrs. Ser. No.	Nat'l bd. No.	Work Order No.	Other Ident. Line No.	Year Built	Repaired Replaced, or Replacement	ASME Code Stamped (Yes or No)
S/C 95-1995	Copes Vulcan	N/A	N/A	C0173683	Plug	N/A	Repaired	No (22)
S/C 95-1995	Copes Vulcan	N/A	N/A	C0174584	Plug	N/A	Repaired	No (22)

7. Description of Work (22) Refurbish Inner Plug

8. Tests Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Other
Pressure psi Test Temp °F

9. Remarks

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this Repair conforms to Section XI of the ASME Code. Signed David A. Vosburg Engineering Manager 7/22/02
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SECTION H
CONTAINMENT EXAMINATIONS

PG&E

DIABLO CANYON POWER PLANT - UNIT 1

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(1R11)
CONTAINMENT EXAMS

MAJOR ITEM: CONTAINMENT EXAMINATIONS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
E-A							
E1.11	Containment Liner	Liner	Liner	General Visual	5-15-02		NRI

SECTION I
AUGMENTED EXAMINATIONS

PG&E

DIABLO CANYON POWER PLANT - UNIT 1

SECOND INTERVAL, SECOND PERIOD, SECOND REFUELING OUTAGE REPORT
(1R11)
CONTAINMENT EXAMS

MAJOR ITEM: AUGMENTED EXAMINATIONS

PAGE 1 of 1

CATEGORY ITEM	DESCRIPTION	COMPONENT / LINE	WELD OR COMPONENT NO.	EXAM TYPE	EXAM DATE	COMMENTS	RESULTS
Augmented							
	RC Pump 1-3 Flywheel	RC Pump 1-3 Flywheel	RC Pump 1-3 Flywheel & Keyway	UT	5-7-02		NRI