U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-275/82-23
50-323/82-12

Docket No. 50-275
50-323

License No. DPR-76
CPPR-69

Safeguards Group _____

Licensee: Pacific Gas and Electric Company

P. O. Box 7442

San Francisco, California 94106

Facility Name: Diablo Canyon Units 1 and 2

Inspection at: San Luis Obispo County, California

Inspection conducted: July 21-23, 1982

Inspectors: H S North — 7/29/82
H. S. North, Radiation Specialist — Date Signed

Approved by: F. A. Wenslawski — 7/29/82
F. A. Wenslawski, Chief, Reactor Radiation Protection Section — Date Signed

Approved by: H. E. Book — 7/30/82
H. E. Book, Chief, Radiological Safety Branch — Date Signed

Summary:

Inspection on July 21-23, 1982 (Report Nos. 50-275/82-23 and 50-323/82-12)

Areas Inspected: Followup, IE Circulars and Information Bulletin, preoperational testing and monitor calibration.

This inspection involved 20 inspector-hours onsite by one inspector.

Results: Of the three areas inspected no items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

Station Staff

*R. Thornberry, Plant Manager
*R. Patterson, Plant Superintendent
*J. Boots, Supervisor, Chemistry and Radiation Protection (C&RP)
W. O'Hara, Senior, C&RP Engineer
*R. Twiddy, QA Supervisor
*R. Howe, Regulatory Compliance Engineer
A. Taylor, C&RP Engineer
T. Brake, Power Production Engineer

General Construction

M. Norem, Lead Startup Engineer
W. Coley, Unit 1 Startup Engineer
D. Harris, Unit 2 Startup Engineer
R. Savard, Construction Engineer

(*Denotes those present at the exit interview.)

2. Followup, IE Circular and Information Bulletin

The inspector verified that the licensee had received, reviewed and has taken or plans to take appropriate action with respect to:

IE Information Notice No. 82-18: Assessment of Intakes of Radioactive Material by Workers - applicable to Units 1 and 2 (FW-06-16)

IE Circular No. 81-07: Control of Radioactively Contaminated Material - applicable to Unit 2 (IC-81-07)

IE Circular No. 81-09: Containment Effluent Water that Bypasses Radioactivity Monitor - applicable to Unit 2 (IC-81-09)

No items of noncompliance or deviations were identified.

3. Preoperational Testing

The status of preoperational tests selected for review was examined. In those cases where preoperational tests had been completed, approved and accepted by operations, test results were examined to assure that the test results were within the previously established acceptance

criteria and, where applicable, deviations from acceptance criteria were properly identified and disposed in accordance with the licensee's administrative procedures. The following tests have been completed and accepted by operations:

Test No.	Unit Applicability	Title and Comments
19.2.11 Addendum (A)2	1	Test New Reactor Cavity Sump Pumps As originally designed and built the reactor sump was equipped with centrifugal pumps in an area accessible only with difficulty. An ALARA review identified the problem and proposed corrective action. This test was of the jet pumps installed to replace the centrifugal pumps. The jet pumps will require significantly less maintenance activity in the reactor sump area.
23.1A2	1 and 2	Retest Control Room Vent Logic and Test New Control Room Pressurization System
23.3A1	1	Test Aux. and FHB Vent Logic due to Changes in CHPS
24.2A2	1	Preop. New O_2 Analyzer (Gaseous Radwaste System)
19.2.1	2	Flush Closed Drain System
19.2.11	2	Flush and Preop. Containment Sump System
19.2.12	2	Flush and Preop. Spent Resin System
23.1, 23.1A1 and 23.1A3	2	Main Control Room Heating, Vent, and Air Conditioning System, and control room pressurization system are the same tests as previously examined and documented in IE Inspection Reports 50-275/80-04, paragraph 5, 50-275(323)/81-05, paragraph 9 and 50-275(323)/82-04, paragraph 6.
23.2	2	Vent-Area H Elev. 100'0", 115'0", 128'0", and 163'6"
23.8	2	Misc. V and AC Startup Data

Of the preoperational tests selected for review the following remain incomplete:

Unit 1

19.2.12	Flush and Preop. Spent Resin System
23.3	Aux & Fuel Handling Buildings Vent. Preop. Test (80-04-01)

Unit 2

1.6	Reactor Coolant System Chemistry Control
1.9	Preop. Test of Communications System
11.1	NSSSSS Flush
11.2	NSSSSS Functional Test
23.3	Aux. and Fuel Handling Buildings Vent. Preop. Test
23.10	Preop. Cont. H_2 Purge System
24.2	Preop. Test Gaseous Waste System
37.22	Radiation Monitoring System Noise
38.4	Radiation Monitoring System (82-12-01)

No items of noncompliance or deviations were identified.

4. Area, Process and Effluent Monitor Calibration

Paragraph 5 of IE Inspection Report Nos. 50-275/81-16 and 50-275/82-04 identify FSAR and non FSAR identified monitor calibration procedure and calibration status. At the time of the inspection the following FSAR identified monitors were uncalibrated:

1-R-24	Plant Vent Iodine Monitor
1-R-25	Control Room Ventilation Intake
1-R-26	Control Room Ventilation Intake

Monitors I-R-25 and 26 which had been calibrated were water damaged during the January 1982 storms. These instruments have been repaired and were due for recalibration in the near future. The Plant Vent Iodine Monitor, I-R-24, requires resolution of certain problems before it can be calibrated. It is noted that some of the monitors are common to both Units. With the exception of such monitors and fuel handling building area monitors, Unit 2 monitors are uncalibrated. (81-05-02)

The installation and calibration status of non FSAR identified monitors was discussed with the licensee.

Type	Designation	Location/System	Status-Foot note
Area	RE-30,31	Containment Area Monitor (High Range ion chamber)	(5)(6)
	RE-34	Plant Vent Monitor ALARA Area Monitor	(5)
	RE-35	Plant Vent Iodine Sampler ALARA Area Monitor	(6)
	RE-36	Iodine Grap Sample (FHB) Area Monitor	(7)
	RE-41	Gas Decay Tank Area Monitor (1, 2-1)	(4)
	RE-42	Gas Decay Tank Area Monitor (1, 2-2)	(4)
	RE-43	Gas Decay Tank Area Monitor (1, 2-3)	(4)
	RE-48	Post Accident Sampling Room (Sentry System)	(4)
	RE-60	TSC Office Area Monitor	(3)
	RE-61	TSC Ops Center/RMS Area Monitor	(3)
	RE-62	TSC Computation Center Area Monitor	(3)
	RE-63	TSC NRC Office Area Monitor	(3)
	RE-64	TSC HVAC Equipment Room Area Monitor	(3)
	RE-65	TSC Laboratory Area Monitor	(3)
	RE-71-74	Main Steam Line Monitors	(5)(6)
Gas	RE-29	Plant Vent Gross Gamma Monitor	(5)(6)
	RE-33	Plant Vent Noble Gas Monitor	(4)
	RE-51-54	Control Room Ventilation Intake Air Monitors (Control Room Pressurization System)	(5)(6)
	RE-67	TSC Noble Gas Monitor	(3)
	RE-69	TSC Laboratory Noble Gas Monitor	(3)
Air Particulate			
	RE-66	TSC Air Particulate Monitor	(3)
	RE-68	TSC Laboratory Air Particulate Monitor	(3)
Iodine	RE-32	Plant Vent Iodine Monitor	(3)
Liquid	RE-16	Condensate Demineralizer Regenerant Solution Effluent Monitor	(2)

(1) Not Installed
(2) Installed - Not released by construction
(3) Installed - released by construction
(4) Calibration Procedure in Draft
(5) Calibration Procedure approved
(6) Calibrated
(7) See Note

RE-36 Iodine Grab Sample (FHB) Area Monitor, this iodine sampler has been redesignated RX-40.

No items of noncompliance or deviations were identified.

5. Facility Tour

During the inspection the access control area, post accident sampling system area, radwaste evaporator and radwaste solidification areas of the auxiliary building were toured.

No items of noncompliance or deviations were identified.

6. Exit Interview

At the conclusion of the inspection the results of the inspection were summarized for those individuals denoted in paragraph 1. The licensee was informed that no items of noncompliance or deviations had been identified.