

U. S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

REGION V

Report No. 50-323/78-17

Docket No. 50-323 License No. CPPR-69 Safeguards Group

Licensee: Pacific Gas and Electric Company

77 Beale Street

San Francisco, California 94106

Facility Name: Diablo Canyon Unit 2

Inspection at: San Luis Obispo County

Inspection conducted: December 18-21, 1978

Inspectors:

H. S. North
H. S. North, Radiation Specialist

2/16/79

Date Signed

P. A. Kinslawski

for R. F. Fish, Radiation Specialist

2/21/79

Date Signed

Approved By:

A. E. Book
H. E. Book, Chief, Fuel Facility and Materials
Safety Branch

Date Signed

2/21/79

Date Signed

Summary:

Inspection on December 18-21, 1978 (Report No. 50-323/78-17)

Areas Inspected: Action on previous inspection findings; emergency planning, tests and drills; radiation protection staffing, respiratory protection, procedures, neutron monitoring; radioactive waste measurement QC, iodine monitoring; Title 10 requirements; inspection of SNM license; bulletins and circulars; and plant tour. The inspection involved 21 inspector-hours onsite by two inspectors.

Results: No items of noncompliance or deviations were identified.

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DETAILS

1. Persons Contacted

- *R. Ramsay, Plant Superintendent
- *J. Giscohn, Senior Power Production Engineer
- *W. O'Hara, Chemical and Radiation Protection Engineer
- *J. Diamonon, Q.C. Supervisor
- T. Martin, Shift Foreman, Training Coordinator
- S. Fridley, Assistant Training Coordinator
- *J. Sumner, Startup Engineer, Unit 1, Q.C.
- *M. Leppke, Q.A. Supervisor

*Denotes those present at the exit interview.

2. Licensee Action on Previous Inspection Findings

(Closed) Unresolved item (50-323/78-05): FSAR section 6.2.5 and figure 6.2-15 have been amended to show the use of silver zeolite or charcoal absorbers in the containment hydrogen purge system rather than charcoal. The system was installed with a silver zeolite absorber. This item is considered closed.

3. Emergency Planning - Tests and Drills

The licensee plans to conduct a test or drill of the emergency plan shortly before Unit 1 fuel loading.

No items of noncompliance or deviations were identified.

4. Radiation Protection - Staffing

The Radiation and Process Monitor (RPM) selection to bring the staff to a total of eight has been completed. At the time of the inspection, training of the additions to the staff was approximately 50% complete. Three additional positions for RPM's have been announced and selection is in progress. This will raise the RPM staff to a total of eleven.

No items of noncompliance or deviations were identified.

5. Radiation Protection - Respiratory Protection

The inspector discussed and reviewed the procedures developed by the licensee for the implementation of a respiratory protection program. The procedures consist of Radiation Control Standards (RCS) issued by the Manager, Steam Generation Department, for

company wide implementation and Radiation Control Procedures (RCP) and Administrative Procedures (AP) issued by the Plant Superintendent for implementation at Diablo Canyon. The procedures prepared in support of the respiratory protection program are as follows:

RCS No. 2	Internal Exposure Controls
RCS No. 4	Control of Access
RCS No. 5	Medical
RCS No. 7	Radiation Monitoring
AP B-251	Respirator Training Program
RCP D-4	Respiratory Protection Equipment Cleaning and Inspection at Diablo Canyon Power Plant
RCP G-3	Internal Exposure Control
RCP G-8	Measurement of Airborne Radioactivity
RCP G-9	Use of Respiratory Equipment for Protection Against Airborne Radioactive Materials
RCP G-10	Use of Constant Flow Air Line Respirators at Diablo Canyon Power Plant
RCP S-1	Plant Airborne Radioactive Surveillance

The inspector verified that the procedures appropriately addressed the following sections of Regulatory Guide 8.15, Sections C.1-5 and 7, and six of the "additional technical items" in Section C-8. Section C-6 relates to the use of equipment for which no schedule of approval has been established. The licensee has not proposed the use of such equipment.

The licensee has purchased repair and test equipment from the respirator equipment supplier. The supplier's representative will train licensee personnel in respiratory equipment repair and maintenance. A total of approximately 25 SCBA devices will be available for emergency fire and control room use and in support of radiation protection activities.

No items of noncompliance or deviations were identified.

6. Radiation Protection - Procedures

The inspector examined the following Radiation Control Standards during the inspection:

- No. 1 Personnel Exposure
- No. 3 Personnel Contamination Control
- No. 6 Control of Radioactive Materials.

No items of noncompliance or deviations were identified.

7. Radiation Protection Neutron Monitoring

The inspector discussed the licensee's plans for personnel neutron monitoring. Film badges containing NTA film and neutron pocket ionization chambers will be used. Rem meter surveys and stay time calculations will also be used. After operations begin, the licensee may retain a consultant for containment neutron energy measurements to relate rem meter and personnel dosimeter response.

No items of noncompliance or deviations were identified.

8. Radioactive Waste - Measurement Q.C. - Audits

Inspection Report 50-323/78-05 noted that the plant laboratory had been designated as a "Approved Laboratory" by the State of California in support of the analytical requirements of the NPDES permit. The licensee submitted a company wide analytical measurement Q.A. program to the State of California which addresses personnel qualifications, records and record retention, measurements and analyses (restricted to EPA approved tests and methods) and instrumentation (type, and response to off-normal operation and maintenance). The Sanitation and Radiation Laboratory, California State Department of Health, has approved the plant laboratory for all analyses required by the NPDES permit with the exception of cyanide. The approved laboratory Q.A. program, which requires duplicate or spike sample analysis on every tenth sample, has been implemented. Audit No. 81019, "D.C.P.P. Chemistry Laboratory Q.A. Program for NPDES Permit, "November 8-10, 1978, evaluated the existing Q.A. program and determined the degree of implementation. The audit identified a number of items for which corrective actions were required. Corrective action had been completed and verified on all items.

No items of noncompliance or deviations were identified.

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9. Radioactive Waste Plant Vent Iodine Monitor

The inspector verified through discussions with the licensee that channel 2-R-24, Plant Vent Iodine Monitor, incorporates a Compton background subtraction capability to reduce the possibility of false high iodine values. During a plant tour, the inspector observed that the sample line to the Plant Vent Iodine Monitor (2-R-24) had been lagged. IE Inspection Report 50-323/77-10 reported that this line had been heat traced but not lagged.

No items of noncompliance or deviations were identified.

10. Title 10 Requirements - Procedures

The inspector examined RCS No. 9, Notices, Instructions, and Reports to Workers; NRC Inspections, which specifies the requirements contained in 10 CFR 19.11, 19.12, 19.14 and 19.15 and RCS No. 8, Reporting Requirements which specifies the requirements contained in 10 CFR 19.13.

No items of noncompliance or deviations were identified.

11. Inspection of SNM License

IE Inspection Report 50-275/78-13 for Unit 1 reported that an inspection of License SNM-1667, which authorizes fuel receipt and storage at Unit 2 had been conducted.

No items of noncompliance or deviations were identified.

12. Licensee Action on IE Bulletins and Circulars

The inspector examined records and interviewed licensee personnel concerning the following Bulletins and Circulars:

Bulletin 78-07: The licensee revised Radiation Control Standard No. 2 to reflect the recommended changes in the respiratory protection program. No response to this Bulletin was required. This item is closed.

Bulletin 78-08: (Reference IE Inspection Report 50-275/78-13, Paragraph 10). Licensee correspondence concerning the evaluation addressed the following areas: added shielding, guillotine break, access control and control of scattered radiation. No response to this Bulletin was required. This item is closed.

Circular 77-14: The licensee reviewed the systems and designs and concluded that the system design precluded the contamination of uncontaminated water systems. The review and conclusions were documented. This item is closed.

Circular 78-03: Packaging of greater than type A quantities of LSA material for transport was discussed at a Plant Staff Review Committee meeting. Radiation Control Standard No. 6 was reviewed to be responsive to this Circular. This item is closed.

No items of noncompliance or deviations were identified.

13. Plant Tour

The inspectors toured portions of the plant including auxiliary building, fuel handling and ventilation area, liquid, solid and gaseous waste processing, storage areas and control room.

No items of noncompliance or deviations were identified.

14. Exit Interview

The inspectors met with the licensee representatives (denoted in Paragraph 1) at the conclusion of the inspection on December 21, 1978. The licensee was informed that no items of noncompliance had been identified. The inspectors summarized the scope of the inspection and the findings. The licensee stated his intent to conduct a test or drill of the emergency plan prior to fuel loading of Unit 1 and agreed to inform the inspector of the test or drill schedule date.

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