

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report Nos. 50-275/85-22, 50-323/85-15

Docket Nos. 50-275 and 50-323

Licensee: Pacific Gas and Electric Company
77 Beale Street, Room 1451
San Francisco, California 94106

Facility Name: Diablo Canyon Units 1 and 2

Inspection at: San Luis Obispo County, California

Inspection conducted: April 8-12 and 22-26, 1985

Inspector: *P. Qualls* 4/17/85
P. Qualls, Reactor Inspector Date Signed

Approved By: *J. Young, Jr.* MAY 14, 1985
J. Young, Jr., Chief, Engineering Section Date Signed

R. Dodds 5/15/85
R. Dodds, Chief, Reactor Projects Section 1 Date Signed

Summary:

Inspection on April 8-12 and 22-26, 1985 (Report 50-275/85-22 & 50-323/85-15)

Areas Inspected: Unannounced inspection by a regional inspector of the implementation of the Diablo Canyon nuclear plant fire protection program. The inspection involved 68 hours onsite by one NRC inspector.

Results: Of the areas examined no violations or deviations were identified.



DETAILS

1. Persons Contacted

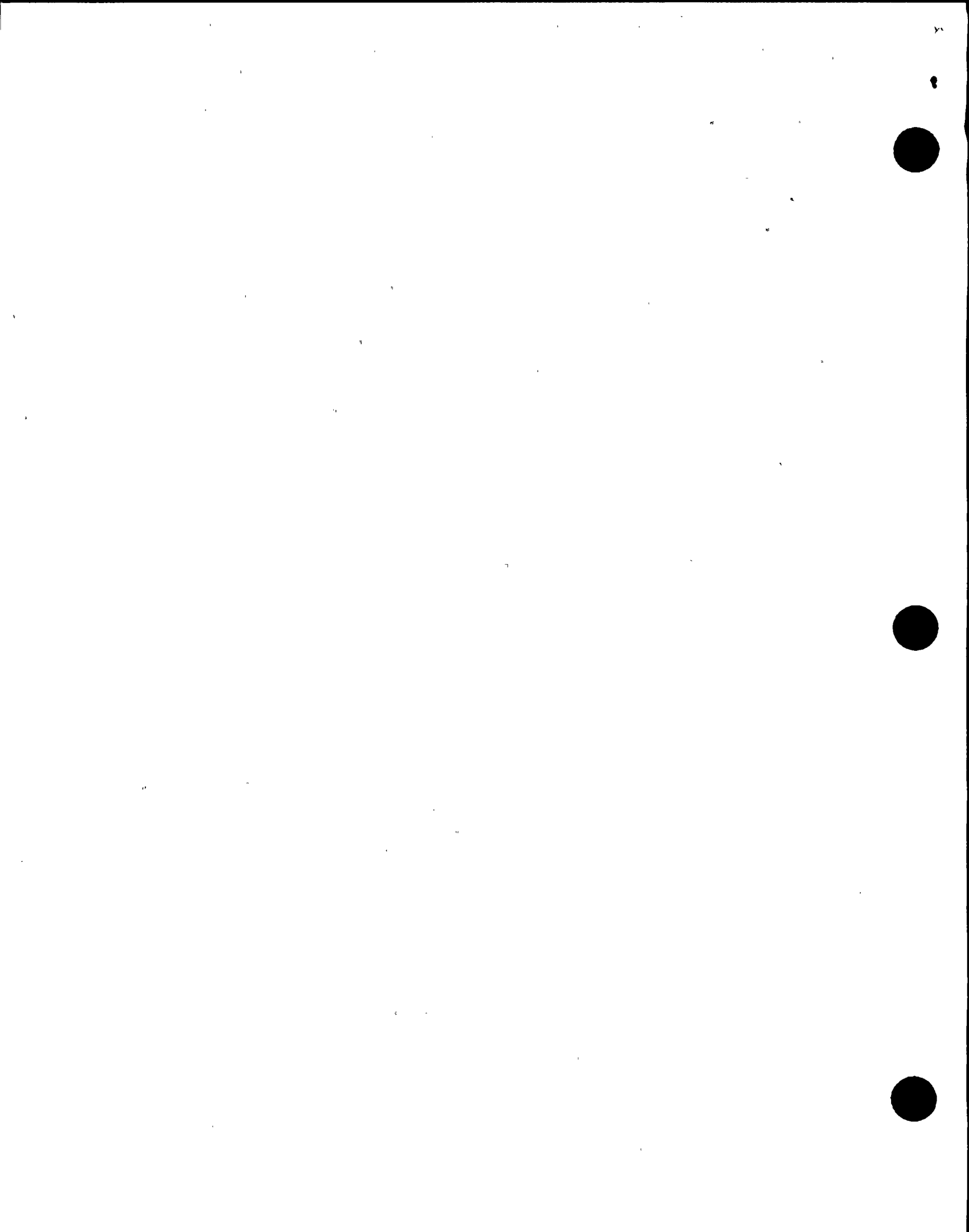
- *J. Gisclon,
- *R. Fisher, NPO
- *R. Kohout, Station Emergency Services Supervisor
 - C. Johnson, Station Fire Marshall
 - J. McClintock, Station Fire Protection Engineer
 - B. Panero, PG&E Corporate Fire Protection Engineer
 - N. Liew, Power Production Engineer
- *J. Sexton, Operations Supervisor
 - J. Hansen, PG&E Quality Assurance/Quality Control
 - M. Michaels, Units 1 and 2 Construction Piping Lead Engineer
 - M. Tenzca, Construction FPE
 - T. Pierce, PG&E Quality Assurance/Quality Control
 - P. Lucas, Bechtel Fire Watch Specialist
- *R. Thornberry, PG&E Plant Manager

*Indicates those individuals attending the exit interview on April 26, 1985.

In addition to the individuals noted above, the inspector interviewed other members of the licensee's and contractor's staff.

2. Documents Reviewed

- a. Surveillance Procedure
 - M-70 Inspection of Fire Barrier Penetrations
- b. Emergency Procedures
 - R-6 Rev. 8 Radiological Fire
 - M-6 Rev. 10 Non Radiological Fire
 - M-10 Rev. 3 Fire Protection of Safe Shutdown Equipment
- c. Operating Procedure
 - AP-8 Control Room Inaccessibility
- d. Administrative Procedures
 - B-13 Rev. 1 Qualification and Training Requirements of Personnel Specifically Concerned with Fire Loss Prevention
 - B-51 Rev. 2 Industrial Safety - First Aid and Fire Protection Training
 - C-10 Rev. 6 Housekeeping - General
 - C-10S1 Rev. 1 SISIP Review of Housekeeping



- C-113 Rev. 2 Fire System Impairment
 - A-13 Rev. 3 Plant Organization for Fire Loss Prevention
 - C-13 Rev. 3 Fire Loss Prevention
 - C-13S1 Rev. 11 Diablo Canyon Welding and Open Flame Permit System
 - C-13S2 Rev. 1 Storage and Handling of Combustible Materials
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- e. Design Criteria Memo No. M-10, Rev. 3
 - f. Design Criteria Memo No. M-5, Rev. 2
 - g. PG&E QA Manual Policy Section II Supplement 1
 - h. Pullman SPEC No. 8711, ESD-265, Quality Assurance Requirements for the Fire Protection System.
 - i. PG&E Letter to Bechtel dated December 13, 1984
 - j. NRC Memorandum Johnston to Novak, dated February 12, 1985
 - k. Diablo Canyon SSER 23
 - l. QA Audit No. 83068P dated July 29, 1983
 - m. QA Audit No. 84238P dated September 14, 1984
 - n. Diablo Canyon Fire Protection Review to 10 CFR 50 Appendix R for Unit 2 dated December 6, 1984
 - o. PG&E Letter No. DCL-85-092 dated March 5, 1985
 - p. PG&E Drawing No. 501001 Rev. 7
 - q. PG&E Drawing No. 501004 Rev. 5
 - r. DCO-EP-17091
 - s. PG&E Letter No. DCL-85-159



3. Licensee Action on Previous Findings

a. (Closed) (50-275/85-05-02; 50-323/85-06-01) Welding Permit Listing

The licensee is now listing current welding permits in his computer. The listing is available on a CRT when desired by the control room operators. This item is closed.

b. (Closed) (50-275/85-05-03) Anti-C Storage

The location, loading and storage method of anti-contamination clothing in lockers in the plant has been evaluated, modified where necessary and approved by the Station Fire Marshall in accordance with DCNPP procedures. This item is closed.

c. (Closed) (50-275/85-05-04; 50-323/85-06-02) Housekeeping

The housekeeping procedures for DCNPP Units 1 and 2 appear to meet the requirements of Branch Technical Position CMEB 9.5.1 Section C.2. Housekeeping in the computer rooms and in the plants was adequate. This item is closed.

d. (Closed) (50-275/85-05-05) SSPS Room Ceiling Tile

The licensee is now controlling access to the SSPS computer room with a key controlled by the Shift Manager. This action appears adequate to prevent uncontrolled opening of the ceiling tile trap door. This item is closed.

e. (Closed) (50-323/85-06-03) Penetration Seals

The licensee had completed this walkdown inspection of all penetration seals and had identified over 1300 deficiencies. These deficiencies were in the process of being corrected prior to fuel load. The inspector noted only one deficiency during an extensive penetration inspection. The deficiency had already been identified by the licensee and was scheduled for correction. This item is closed.

No violations or deviations were identified.

4. Administrative Controls

The inspector reviewed the Diablo Canyon plant procedures which implement the licensee's fire protection program. The procedures were reviewed to ensure compliance to the Branch Technical Position, BTP CMEB 9.5.1 Appendix A. Of the areas examined, no discrepancies were noted.

No violations or deviations were identified.

5. Fire Brigade and Shift Manning

The inspector reviewed the fire brigade composition and training status. No deficiencies were noted.



The inspector also met with licensee management personnel and discussed the 10 CFR 50 Appendix R Section III.L.4 requirements to be able to man the fire brigade and shutdown the plant concurrently. This item is an integral part of an Appendix R team inspection and although not a followup item, it will be examined by NRC systems experts in detail at that time.

No violations or deviations were identified.

6. Fire Protection Program Administration

The inspector reviewed the qualifications and experience of the personnel designated for implementation of the Unit 2 fire protection program. The personnel in the organization appear to meet the qualifications specified in BTP CMEB 9.5.1 Section C.1.a.

No violations or deviations were identified.

7. Maintenance, Inspection and Tests

The inspector reviewed several surveillance procedures to ensure that the proper fire protection equipment was listed on the procedures and that the inspection frequency met the Technical Specification inspection frequency. Of the areas inspected no deficiencies were noted.

The inspector examined surveillance procedure M-70, Inspection of Fire Barrier Penetrations, in detail. The procedure appeared to meet the applicable NFPA Code and Technical Specification requirements.

During the plant walkthrough the inspector examined various items of fire protection equipment. All equipment appeared to be well maintained and in a fully operable condition. Fire extinguisher inspection tags were current. Of the areas examined no discrepancies were noted.

No violations or deviations were identified.

8. Review of Licensee QA Audit Findings

The two most recent published Quality Assurance annual audits were examined. In addition, the inspector discussed with licensee personnel the most recent audit which has not had sufficient time for final issuing. The audit findings in all cases examined appeared to have been prompted and adequately addressed. Of the areas examined no discrepancies were noted.

No violations or deviations were identified.



9. Emergency Lighting

The licensee had committed to have completed his walkdown and verification of the adequacy of the emergency lighting required for safe shutdown in Unit 2 prior to fuel loading. The walkdown and any necessary modifications have been satisfactorily completed.

No violations or deviations were identified.

10. Reactor Coolant Pump Lube Oil Collection System

The reactor coolant pump lube oil collection system appears to meet the licensee commitments in the December 1984, Appendix R submittal and exemption requests. No method was apparent to verify that the tank is maintained empty during operation. The licensee committed to modify a procedure to ensure that, prior to "closing out" the containment that the tanks are drained. This will be examined at a later inspection (50-323/85-15-01) (Open).

No violations or deviations were identified.

11. Fire Damper Testing

The licensee had committed to complete fire damper modification and testing prior to loading fuel in Unit 2. The modification and testing are complete.

No violations or deviations were identified.

12. Verification of "As-Builts"

The inspector examined selected segments of the Unit 2 sprinkler, standpipe and cardox systems, to ensure that the plant drawings reflected the "As-Built" conditions of the plant. Of the areas examined no discrepancies were noted.

No violations or deviations were identified.

13. Quality Assurance

The inspector examined licensee's program for quality assurance for the systems that have been accepted by the plant from construction and the construction quality assurance program. Both programs appeared to meet the program requirements specified in BTP 9.5.1 Appendix A. Of the areas examined no discrepancies were identified.

No violations or deviations were identified.

14. Facility Tour

The inspector conducted an in-depth tour of Unit 2, with the following results.



a. Fire Doors

The inspector observed a large number of fire doors which were not operable. The plant already had the proper Technical Specification compensatory measures in place for the inoperable doors. Licensee personnel are evaluating the fire door problem to determine a method to reduce the number of inoperable doors. This item will be examined at a later inspection (50-323/85-15-02) (Open).

b. Hot Work

The inspector examined several areas in Unit 2 where welding or grinding was being performed. In all cases the proper permit was signed and posted with a fire watch stationed.

c. Fire Protection Equipment

Fire hoses, extinguishers, brigade turn out equipment and cardox systems inside of the units were examined. The equipment appeared to be in good condition and well maintained.

d. Housekeeping

No storage problems were identified. In Unit 1 and most of Unit 2 housekeeping appeared adequate. No improper cleaning materials or solvent or untreated wood scaffolding was observed.

No violations or deviations were observed.

15. Follow-up of Licensee Appendix R Deviation Commitments for Unit 2

On December 6, 1984, the licensee submitted to NRR for review a document titled "Diablo Canyon Fire Protection Review to 10 CFR 50 Appendix R for Unit 2." In this submittal, the licensee described a number of fire areas and requested that these areas have some specific exemption from sections of Appendix R of 10 CFR 50. The inspector examined the areas listed below to ensure that the descriptions were adequate and that any commitments made in the submittal were completed.

- a. RHR pump and heat exchanger rooms
- b. charging pump rooms
- c. auxiliary pump areas
- d. auxiliary seawater pump rooms
- e. shower, locker and access control area
- f. hot shutdown panel and non vital switchgear room
- g. diesel generator rooms and corridor
- h. component cooling water heat exchanger area
- i. penetration area



In addition, the inspector verified that the fire doors that are not labeled meet one of the criteria listed for acceptance in SSER 23 for Unit 1.

No violations or deviations were identified.

16. Exit Interview

An exit meeting was held with members of the plant staff on April 26, 1985. The items listed in this report were discussed at that time.

