

U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report: 50-275/93-13 and 50-323/93-13
Licenses: DPR-80 and DPR-82
Licensee: Pacific Gas and Electric Company (PG&E)
77 Beale Street
San Francisco, California 94106
Facility: Diablo Canyon Power Plant (DCPP), Units 1 and 2
Inspection Location: San Luis Obispo County, California

Inspection Duration: May 10 - 14, 1993

Inspected by:

Rey Bocanegra
Rey Bocanegra, Radiation Specialist

6/2/93
Date Signed

Approved by:

James H. Reese
James H. Reese, Chief
Facilities Radiological Protection Branch

6/2/93
Date Signed

Summary:

Areas Inspected: Routine, unannounced inspection of occupational radiation protection. NRC Inspection Procedure (IP) 83750 was used as guidance.

Results: Generally, the licensee's internal and external dosimetry programs appeared to meet their safety objectives. No violations were identified.

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DETAILS

1. Persons Contacted

Licensee

H. Fong, Engineer, Radiation Protection (RP)
*R. Gray, Director, RP
C. Helman, ALARA Engineer
*K. Hubbard, NRC Interface, Regulatory Compliance
*D. Miklush, Acting Plant Manager
M. Somerville, Senior Engineer, RP
*D. Stetson, Engineer, Quality Control
*J. White, Sr. Health Physicist, NRS/ODES

NRC

*F. Gee, Resident Inspector

(*) Denotes those individuals who attended the exit meeting on May 14, 1993. The inspector met and held discussions with additional members of the licensee's staff during the inspection.

2. Occupational Radiation Exposure (83750)

The licensee's internal and external dosimetry programs were examined to determine whether the programs were effective in assuring compliance with regulatory requirements found in 10 CFR Part 20. The inspector reviewed pertinent procedures and a selected sample of records, and held discussions with licensee personnel.

Additionally, the inspector toured radiological controlled areas (RCA) within the facilities to directly observe implementation of the licensee's internal and external dosimetry programs.

a. Internal Dosimetry

Routine (annual) and random whole body counting was performed by the licensee on individuals having access to the RCA, to assess internal exposure and the effectiveness of their internal exposure control program. The inspector, however, noted that numerous individual's routine WBC had not been performed in as long as three years in one instance. The licensee stated that those individuals not having a current WBC had their RCA access revoked and their names were removed from RCA authorized access list.

During this inspection, the inspector observed respirator fit testing activities in progress. The inspector verified that procedures were being followed including respirators donned properly and that proper mask seal was checked by a negative pressure test. The inspector noted that a form for an individual being fit tested indicated that he wore contact lenses. Upon further questioning, the inspector learned that the individual, a control room shift



foreman, was wearing contact lenses while wearing the fit test respirator. Although NRC regulations do not prohibit wearing contact lenses in a respirator, Diablo Canyon procedures prohibit this practice. The inspector informed the fit testing technician of the apparent procedure violation, and the technician stopped the test and contacted his supervisor. Licensee representatives stated that plant procedures prohibited contact lenses while wearing respirators in order to comply with State of California Occupational Safety and Health Administration (CAL-OSHA) requirements. At the exit meeting, the licensee stated to the inspector that both the control room shift foreman and the technician were aware of the plant procedure prohibiting contact lenses, but the control room shift foreman was allowed to wear them after he resisted having to remove them. The inspector expressed concern that an NRC licensed reactor operator had engaged in inappropriate conduct with respect to CAL-OSHA regulations.

b. External Dosimetry

The review of records included inspection of the whole body and skin dose results of selected individuals during the refueling outage which ended on May 9, 1993.

The Unit 1 refueling outage total personnel exposure was 237 man-rem, well within their 300 man-rem goal set for the outage. No instances were noted where regulatory or administrative exposure limits were exceeded. The inspector also verified that dose reporting requirements were met.

The inspector noted that the licensee's personnel dosimeters were processed in-house in a laboratory holding current personnel dosimetry accreditation by the National Voluntary Laboratory Accreditation Program (NVLAP). The inspector reviewed the licensee's NVLAP report for the 4th quarter of 1992 and noted that the licensee passed all categories for which accreditation renewal was sought.

Personnel in the RCA were observed wearing appropriate dosimetry. No instances of improper wearing of dosimetry were noted during the inspector's tours. Adequate RP coverage was observed at one job that involved breaching a contaminated system and Radiation Work Permit dosimetry requirements were met.

Based on the results of the review, the inspector concluded that the licensee's internal and external dosimetry programs, for the selected areas, met their safety objectives.



4. Exit Interview

The inspector met with members of licensee management at the conclusion of the inspection on May 14, 1993. The scope and findings of the inspection were summarized. The licensee acknowledged the inspector's observations.

