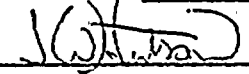


U.S. NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT

Report No. 50-275/79-23
Docket No. 50-275 Licensee No. CPPR-39 Safeguards Group _____
Licensee: Pacific Gas and Electric Company
77 Beale Street
San Francisco, California 94106

Facility Name: Diablo Canyon Unit 1
Inspection at: Diablo Canyon Site, San Luis Obispo County, California and Corporate Office

Inspection Conducted: September 27 and October 3-5, 1979

Inspectors:  10/31/79
T. W. Hutson, Reactor Inspector. Date Signed

Date Signed

Date Signed

Date Signed

Approved by:  11/1/79
R. T. Dodds, Chief, Reactor Engineering Support Section Date Signed
Reactor Construction and Engineering Support Branch

Summary: Inspection during periods of September 27, 1979 and October 3-5, 1979
(Report No. 50-275/79-23.)

Areas Inspected: Routine unannounced inspection by a regional based inspector of construction activities including license action on Bulletin 79-14, ASME Certificates of Authorization and observation of general construction practices during a plant tour. The inspection involved 20 inspector hours by one NRC inspector.

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

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DETAILS

1. Individuals Contacted

a. Pacific Gas and Electric Company (PG&E)

M. N. Norem, Resident Startup Engineer
*D. A. Rockwell, Resident Electrical Engineer
S. J. Foat, QC Engineer
J. R. Bratton, QC Engineer
C. Braff, Pipe Support Supervisor
P. Hirschberg, Mechanical Engineer
K. Rhodes, Instrumentation Supervisor
M. V. Williamson, Licensing Engineer
J. R. Stevenson, Project Administrative Engineer
R. Breed, QC Inspector
D. R. Aitken, Inspector C
J. W. Snodgrass, Inspector B

*Denotes those attending exit interview.

2. Plant Tour

Upon arrival, the inspector conducted a tour of various areas of Unit 1 and 2 to observe work in progress, completed work and housekeeping. The work activities and completed work in the various areas toured were examined for compliance with the applicable codes and standards. During the tour of the Unit 2, 480 Volt Vital Bus 2F room the inspector noted that above switchgear cubicle 52-2F-33, several black non safety related cables were associated with and very close to the orange cables of bus 2F. The inspector inquired if the black cables ever become associated with the cables of another safety related train. Discussions with cognizant licensee personnel failed to resolve the question as the cable identification of the black cables could not be seen. This item will be examined during a future inspection. (50-275/79-23-01)

3. Bulletin 79-14, Seismic Analysis for As-Built Safety Related Piping System

The inspector examined licensee actions at the corporate office and at the Unit 1 site to determine compliance with the requirements of IE Bulletin 79-14. The Design Review Procedure for work conducted at the corporate office was reviewed and found satisfactory. The designation of specific elements to be examined during the field verification were determined by qualified personnel. Checklists were also incorporated into the procedure to aid the Design Isometric Reviewer



and the Analysis Reviewer.

PG&E has obtained the services of Earthquake Engineering to conduct the review of the design isometrics and determine and mark the scope of a particular seismic analysis on a single design isometric. There may be more than one seismic analysis associated with a single design isometric. The design isometrics are transmitted to the field where the verification of the as-built condition is conducted. When the marked up drawings are received from the field, Earthquake Engineering personnel compare the seismic analysis with the marked up design isometric and generate a list of discrepancies between the analysis and the actual as-built condition of the system. The list of discrepancies along with the Analysis Review Checklist are given to PG&E seismic analysts who make the engineering determination of acceptability or if reanalysis is required.

The Field Verification Procedure for conducting the walkdown of the system was examined and found to incorporate the elements to be inspected and the allowable tolerances. The records of training lectures held to instruct the field personnel were reviewed. The lectures covered the procedures in depth and appeared to adequately prepare the inspectors to conduct the walkdowns. In addition, meetings are held every morning to discuss any problems noted and answer questions. Each inspector was issued the tools required to perform the needed inspections.

The inspector observed and interviewed two inspectors conducting a walk-down of Chemical and Volume Control System Isometric No. H8-359 Rev. 5 and independently verified applicable inspection elements on the above isometric. The inspectors appeared very knowledgeable of the requirements and conducted the walkdown in accordance with the procedure.

This bulletin will remain open pending the review at the corporate office of the engineering resolution of nonconforming deviations found during the walkdown.

4. Review of ASME Certificates of Authorization

Due to the length of time since Diablo Canyon construction commenced, the requirements and responsibilities of the ASME code concerning obtaining of certificates of authorization and code stamping of items have changed significantly. Also the design of many parts, components, appurtenances and the installation were conducted in accordance with ANSI B31.1 Power Piping and B31.7 Nuclear Power Piping as the design was initiated in the mid 1960's.



The inspector reviewed a letter of agreement between PG&E, The State of California, Division of Industrial Safety and the Hartford Steam Boiler Company which described what items would or would not be code stamped and what information would be put on the code plate. At present PG&E does not hold and never has held an ASME Certificate of Authorization. The only two contractors who performed code work on site were Wismer and Becker and Pullman Kellogg, both of whom have or had ASME Certificates of Authorization. Site specific certificates of authorization had been issued for the work to be performed. Letters of extension or renewal of the certificates were obtained as required.

The following certificates of authorization were issued for work at the Diablo Canyon Site.

Wismer and Becker

<u>Number</u>	<u>Type</u>	<u>Expires</u>	<u>Remarks</u>
N-1461-1	NA	December 31, 1979	
N-1462-1	NPT	July 16, 1979	Work complete
N-655	NPT	June 19, 1976	
N-656	NA	June 19, 1976	
N-657	NPT	June 19, 1976	
N-658	NA	June 19, 1976	
N-659	NPT	June 19, 1976	

Pullman Kellogg

N-392-2	NPT	October 14, 1980
N-393-2	NA	October 14, 1980

Certificates of Authorization N-1461-1 and N-1462-1 were extended by ASME letter of April 16, 1979 until the dates shown to complete required work. Authorizations N-392-2 and N-393-2 were originally extended by ASME letter of March 24, 1976 to expire September 30, 1977. Pullman Kellogg applied for and received renewal of the certificates via ASME letter of November 18, 1977 to expire October 14, 1980.

The scope and responsibility of the certificate holders was determined to be within the limitations and requirements of the ASME code applicable to the certificates issued.

5. Exit Interview

At the conclusion of the inspection, the inspector met with the licensee representative (denoted in Paragraph 1) and summarized the inspection purpose, scope and findings.

