U. S. NUCLEAR REGULATORY COMMISSION

REGION V

Report No. 50-275/82-31

Docket No. 50-275 License No. DPR-76 Safeguards Group _____

Licensee: Pacific Gas and Electric Company

P. O. Box 7442

San Francisco, California 94120

Facility Name: Diablo Canyon Nuclear Power Plant

Inspection Location and Date(s):

(1) Bechtel Power Corporation
San Francisco, California October 12-13, 1982

(2) Diablo Canyon Power Plant
San Luis Obispo, California October 14-15, 1982

Report by: P. J. Morrill 11/15/82

P. J. Morrill, Reactor Inspector — Date Signed

P. J. Morrill for 11/15/82

J. D. Carlson, Senior Resident Inspector — Date Signed

Approved by: D. F. Kirsch 11/15/82

D. F. Kirsch, Chief, Reactor Projects Section No. 3 — Date Signed

Summary:

Inspection during period of October 12-15, 1982 (Report No. 50-275/82-31)

The inspectors examined the revised program for handling design changes and modifications. The inspection consisted of examination of the program and implementation of procedures, interviews with licensee and Bechtel Power Corporation personnel, and examination of the drawing control program. The inspection effort involved 64 inspector-hours by two NRC inspectors.

Results: No items of noncompliance or deviations were identified.

DETAILS

1. Persons Contacted

Pacific Gas and Electric

*R. Patterson, Plant Superintendent
*S. Skidmore, Assistant to the Project Manager
*J. Hoch, Project Manager
R. Etzler, Project Superintendent
*J. Gisclon, Power Plant Engineer
*W. Kaefer, Technical Assistant to the Plant Manager
*E. Kahler, Project Quality Engineer
**E. Punzalan, Project Coordinator - Design Drafting
*R. Twiddy, Supervisor of Quality Assurance
*R. Howe, Regulatory Compliance Engineer

Bechtel Power Corporation

*H. Friend, Project Completion Manager
*C. Dick, Project Management Team
**H. Lilligh, Project Quality Assurance Manager
**D. Hardie, Assistant Project Engineer-Quality
*M. Jacobson, Project Quality Assurance Engineer
**P. Hornbeck, Project Quality Assurance Engineer
**D. Sokolsky, Licensing Engineer

* Denotes those present at the exit meeting on October 15, 1982.
**Denotes those present at the exit meeting on October 13, 1982.

The inspectors also met with and interviewed other persons including, plant operators, plant QC engineers, construction personnel, and project engineering personnel.

2. Design Changes and Modifications

Due to the recent formation of a Project Engineering group comprised of the licensee's and Bechtel Power Corporation (BPC) personnel the new method for handling design changes and modifications was examined by the inspectors. Initially, the inspectors conducted a review of the project organization's procedures to determine the organizational interfaces between the licensee and BPC for handling design change requests. The project procedures that were reviewed included:

Engineering Procedure (EP) 1.3: Diablo Canyon Project Organization

EP 3.6 ON: Operating Nuclear Power Plant Design Changes

Project Proc. III-8: Proc. for Operating Nuclear Plants Mods.

Project Engineers Instructions (PEI) #4: Bechtel review of design documents

PEI #5: Design Interfaces

PEI #6: QA Review

PEI #8: Drawing Distribution Control

PEI #9: Onsite Project Engineering Group

BPC - Nuclear Quality Assurance Manual - Section II for Design Control and the corresponding Project Amendments for extending applicability listing exceptions for the Diablo Canyon project.

Nuclear Plant Admin. Proc. C-1: Design Changes

Admin. Proc. C-1, Supplement 1: Onsite Review and Handling of Plant Modifications

Project Instruction (PI) - 11: Plant Modification Follower

PI-17: Document Control Operating Instructions

The inspectors verified the program described by the above procedures adequately addresses the criteria of 10 CFR 50.59, Section 6.5 of the Technical Specifications, and ANSI N45.2.11-1974.

As a followup to the programmatic review, the inspectors selected the following design changes to determine the effectiveness of the new program to process the DCN's thru completion, and to verify that adequate administrative reviews were being performed at the appropriate time:

DC1-0-M-189: Addition of Temperature Monitors on the Secondary Side of the Steam Generators

DC1-E-M-1306: Redesign Small Bore Pipe Support 2156-45

DC1-E-E-1272: Correct Schematic 437596-3

DC1-0-M-198: Response Time Testing of PT403 and 405

DC0-E-E-402: Relocate PT 434

DC0-E-E-359: Upgrade to IE circuits for FCV364 & 365

DC1-E-M-1217: Redesign Small Bore Pipe Support 2153-16

DC1-E-M-1172: Modify Support Weld on CFCU 1-3

DC1-E-E-1279: Modify Electrical Raceway Supports in Containment Annulus

DC1-E-C-3114: Modify Containment Annulus Structure Connections and Members

DCO-E-M-1048, P-1: Install Main Steam Line Rad. Monitors

DC1-E-M-1111, R-1: Modify Incore Thermocouple System

During the review of the DCN's described above, the inspectors verified: (1) the "DCN Tracking Program" was effective in keeping an accurate status of the DCN, (2) the safety evaluation was being conducted i.a.w. 10 CFR 50.59, and technical specifications, as appropriate, (3) the plant drawing control program was effective in ensuring plant control room operators were aware of outstanding design changes to drawings during final drawing revision, (4) completed DCN's were reviewed for completeness and test results met acceptance criteria prior to acceptance by the plant superintendent for operation, and (5) the final as-built drawings were being issued in a timely manner.

3. Exit Interview

The inspectors conducted two exit interviews: On October 13, 1982 at the end of the corporate office inspection and on October 15, 1982 at the end of the onsite inspection. The findings are described below:

(1) The inspectors observed that the priority for design change request (DCR) DCI-O-M-189 had been changed by Project Engineering without notifying the plant staff. In fact, the DCR had been closed on the "Commitment Control System" log without closeout of the DCR. The inspectors stated that it appeared inappropriate to change the priority without consulting the originating party. The "Project Engineering" group committed to develop agreeable priorities for all outstanding DCR's by the end of October 1982. Subsequent to the inspection a license representative contacted the Region V based inspector to request an additional week to establish priorities. The inspector stated that extending the completion date by one week was acceptable. (82-31-01).

(2) The inspectors observed a backlog of approximately 300 DCN's that were not present on the new "DCN Tracking System". The "Project Engineering" Group committed to establish the status of eacn open DCN and assign appropriate priorities to these DCN's by the end of October 1982. Subsequent to the inspection a license representative contacted the region's inspector to request an additional week to establish priorities. The inspector stated that extending the completion date by one week was acceptable. (82-31-02).

(3) The inspectors made an observation that some confusion may exist within the organization regarding the new "DCN Tracking System" and pointed-out some examples. No committments were requested on this item.