

Pacific Gas and Electric Company
Semimonthly Status Report No. 51
Diablo Canyon Verification Program
December 9, 1983

SUMMARY

This is the fifty-first and final Semimonthly Status Report which summarizes the design verification work completed under PGandE's Internal Technical Program (ITP) from November 22, 1983, through December 9, 1983.

PGandE's Internal Technical Program has identified a total of 42 open items (OIs), of which 38 have been closed. The other four (OIs 20, 38, 40, and 42) are being processed in accordance with existing procedures as described below. All OI files are closed. As PGandE stated in a letter dated December 1, 1983, the Diablo Canyon Design Verification Program, including the Diablo Canyon Project (DCP) Internal Technical Program, is now complete.

The DCP procedures which were established to define the specific methods for interfacing with the IDVP and for addressing ITP open items will now be superseded by existing DCP procedures. The engineering analyses of the four remaining ITP open items have been completed and the modifications have been identified. These modifications will be implemented as required. However, the status of these four items will now be formally tracked and documented pursuant to Project procedures.

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STATUS OF INTERNAL TECHNICAL PROGRAM

This section describes the status of work in PGandE's Internal Technical Program.

The status of plant modifications is provided in Table 1. A discussion of the progress of engineering and construction activities is also provided.

I. Status of Internal Technical Program

The discussions below summarize the status of work for each area indicated.

A. Containment and Internals

Confirmatory analysis of the containment annulus structure will be completed prior to Step 2.

B. Auxiliary Building

Verification of platform structures and auxiliary building verification for non-seismic loads is in progress. This work will be completed prior to Step 2 and will be documented in accordance with Project procedures.

C. Fuel Handling Building

Engineering for the Unit 1 fuel handling building is complete.

D. Turbine Building

Engineering for Unit 1 turbine building is complete.

E. Intake Structure

Engineering for the intake structure is complete.

F. Pipe Rupture Restraints

The pipe rupture restraint analysis is complete. Restraint modifications have been issued.

G. Piping and Pipe Supports

The stress analysis work for large bore piping and large bore pipe support design is complete with the exception of reconciliation of as-built conditions with the present designs.

The stress analysis work for small bore piping and small bore pipe support design is complete with the exception of reconciliation of as-built conditions with the present designs.

H. Equipment Seismic Design Review

1. Mechanical Equipment

The seismic design review for all Design Class I mechanical equipment within the PGandE design scope has been completed based on nozzle loads and spectra available November 30, 1983.

The review is now being updated as necessary, to incorporate the latest loads, spectra, and as-built information. This work will be completed prior to Step 2 and the results will be documented according to Project procedures.

2. Electrical Equipment and Instrumentation

All PGandE scope reviews of electrical equipment are complete. Minor rechecking for the latest turbine and auxiliary building spectra is complete.

3. Heating, Ventilating, and Air Conditioning Equipment

All Design Class I HVAC equipment has been analyzed or tested to meet design requirements using the latest spectra.

I. Electrical Raceway Supports

Electrical raceway support reverification work is complete.

J. HVAC Ducts and Supports

HVAC duct and support engineering work outside containment related to Step 3 is in progress. This work will be completed and documented according to Project procedures prior to Step 3.

K. Instrumentation Tubing and Tubing Supports

All engineering associated with instrumentation tubing and tubing supports is complete. Final documentation is in progress.

TABLE 1
STATUS OF PLANT MODIFICATIONS
(As of December 5, 1983)

		STEP 2 <u>Low Power Testing</u>
I.	INSIDE CONTAINMENT	
A.	Large Bore Pipe Supports	
	Total Forecast	None
	Design Release	
	Construction Complete	
B.	Small Bore Supports	
	Total Forecast	None
	Design Release	
	Construction Complete	
C.	HVAC Supports	
	Total Forecast	8
	Design Release	8
	Construction Complete	8
D.	Raceway Supports	
	Total Forecast	None
	Design Release	
	Construction Complete	
E.	Annulus Steel Connections	
	Total Forecast	129
	Design Release	129
	Construction Complete	102
F.	Platform Connections	
	Total Forecast	*
	Design Release	*
	Construction Complete	*
G.	Dome Service Crane	
	Design Release	100%
	Construction Complete	0%

* Included with annulus.

II. Open Item Status

A total of 42 open items (OIs) were identified by the Internal Technical Program. All OI files are closed.

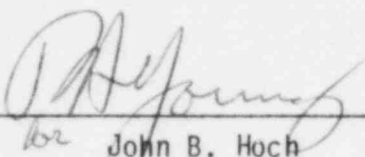

for John B. Hoch
Diablo Canyon Project Manager

TABLE 1 (Cont'd)

STATUS OF PLANT MODIFICATIONS
(As of December 5, 1983)

II. OUTSIDE CONTAINMENT		STEP 2 <u>Low Power Testing</u>
A.	Large Bore Pipe Supports	
	Total Forecast	1233
	Design Release	1233
	Construction Complete	1062
B.	Small Bore Supports	
	Total Forecast	255
	Design Release	255
	Construction Complete	251
C.	HVAC Supports	
	Total Forecast	None
	Design Release	
	Construction Complete	
D.	Raceway Supports	
	Total Forecast	None
	Design Release	
	Construction Complete	
E.	Fuel Handling Building Connections	
	Total Forecast	None
	Design Release	
	Construction Complete	
F.	Hot Shop Steel Connections	
	Total Forecast	None
	Design Release	
	Construction Complete	
G.	Equipment Modifications	
	Design Release	None
	Construction Complete	
H.	Foundation for CCW Pumps	Complete*

*Modifications required for Step 1 were completed November 8, 1983.

TABLE 1 (Cont'd)

STATUS OF PLANT MODIFICATIONS
(As of December 5, 1983)

NOTES:

Total Forecast: The predicted number of required modifications based on reviews and evaluations to date.

Design Release: The number (or percent) of modifications completed by engineering and released to the field for construction.

Construction Complete: The number (or percent) of modifications where the construction work is physically complete and the work is awaiting appropriate quality assurance inspection and engineering approval of as-built conditions.

If additional plant modifications are identified for Step 3, Full Power, they will be included in this table.