

PACIFIC GAS AND ELECTRIC COMPANY
SEMI-MONTHLY STATUS REPORT
DIABLO CANYON SEISMIC REVIEW PROGRAM

November 25, 1981

Summary

This report summarizes the progress of our seismic review from November 12, 1981 through the close of business on Monday, November 23, 1981.

The revised containment annulus vertical seismic response spectra (spectra) have been finalized and distributed to the mechanical, structural, and electrical disciplines. Their reviews have begun and are scheduled for completion by December 11. The piping review is expected to be complete by December 31, 1981.

Engineering Quality Control plans to conduct a training program in Engineering Manual procedures and will emphasize the relationship of these procedures to the corporate QA program. All Engineering Department personnel working on Diablo Canyon Design activities will be enrolled in this program.

A progress of these work activities is displayed in an attached chart.

Technical Work Progress

Civil Engineering

The revised spectra were received from URS/Blume and have been reviewed and distributed by PGandE to the appropriate engineering disciplines for qualification of safety-related structures, systems, and components.

From reviews to date, no modifications to the structural steel or concrete in the annulus are expected to result from revised spectra. A confirmatory review will be made after the finalized seismic loads from piping and equipment are determined.

Mechanical Engineering

The spectra in a graphical and digitized format have been issued for qualifying as-built plant installations. The status and schedule of the review, qualification, and design efforts are discussed below:

Mechanical Equipment (excluding valves)

The only pieces of equipment that require qualification to the revised spectra are the containment fan coolers and hydrogen recombiners. The hydrogen recombiners have been qualified for the revised spectra. The review of fan coolers is scheduled for completion by December 4, 1981.

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The independent verification program being performed by R. L. Cloud Associates, Inc., previously identified that the regenerative heat exchanger was qualified to tau filtered containment floor vertical spectra instead of unfiltered. Further review by PGandE identified that the accumulators also were qualified on the same basis. Qualification of this equipment to the appropriate spectra is scheduled to be completed by November 30, 1981.

Valve qualification is currently being performed; see the piping discussion below.

Instrumentation

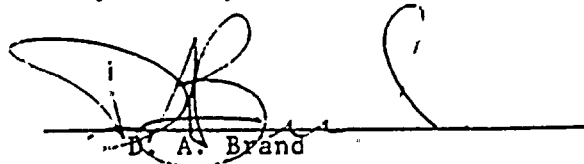
Instrumentation components, enclosures, revised tubing, and tubing supports are being qualified to the revised spectra and completion of this work is scheduled for November 30, 1981. To date, no installations have been found which require modification.

Piping

Qualification of piping, pipe supports, nozzles, and valves to the revised vertical spectra is in progress. Fifty-seven piping analyses were found to be affected by revised spectra. Twenty-seven of these analyses have been performed and are in various checking and approval stages. Preliminary review of analyses indicates a trend to lower pipe stresses and nozzle and support loads.

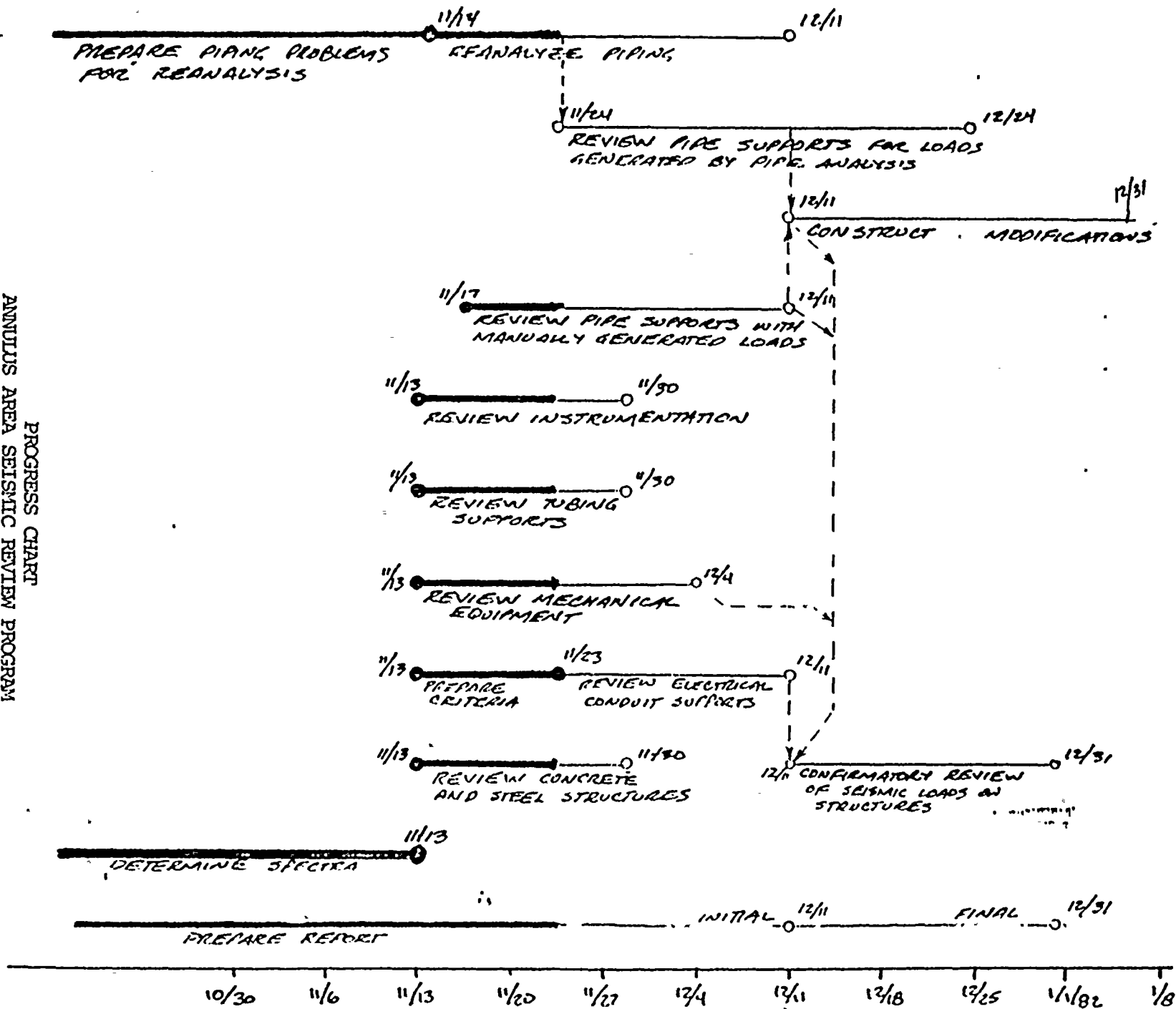
Qualification of supports done by manual calculation of loads is in progress. Very few supports require review as the revised peak accelerations are lower than the pre and post frame re-orientation peak accelerations except for elevation 101' between azimuths 18° and 143°. Qualification of supports done by computer analyses of loads will begin November 24, 1981.

Respectfully submitted,



D. A. Brand

ANNUALS AREA SEISMIC REVIEW PROGRAM



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November 24, 1981

Mr. George Maneatis
Senior Vice President
Pacific Gas and Electric Co.
77 Beale Street
San Francisco, CA 94106

ATTN: Mr. James Rocca

Dear Mr. Maneatis,

Enclosed please find our second bi-weekly progress report on the seismic reverification program. The program is progressing as planned, but some time has been lost due to delays in obtaining information, drawings, etc. I will discuss this with you at your convenience.

Yours truly,


R. L. Cloud

RLC:hcc

Enclosure

