

September 19, 1997

Mr. Gregory M. Rueger
Pacific Gas and Electric Company
NPG - Mail Code A10D
P. O. Box 770000
San Francisco, California 94177

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION - LICENSE AMENDMENT REQUEST 97-11
RELATED TO AUXILIARY SALTWATER SYSTEM PIPING BYPASS UNREVIEWED
SAFETY QUESTION (TAC NOS. M97014 AND M97915)

Dear Mr. Rueger:

By letter dated August 26, 1997, Pacific Gas and Electric Company (PG&E) submitted an application for license amendment (LAR 97-11) related to Auxiliary Saltwater (ASW) Piping Unreviewed Safety Question (USQ). In order for the staff to complete its review, we require the additional information listed in the enclosure. Please provide your response within 30 days from receipt of this letter.

Sincerely,

Original Signed By

Steven D. Bloom, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Docket Nos. 50-275
and 50-323

Enclosure: Request for Additional
Information

cc w/encl: See next page

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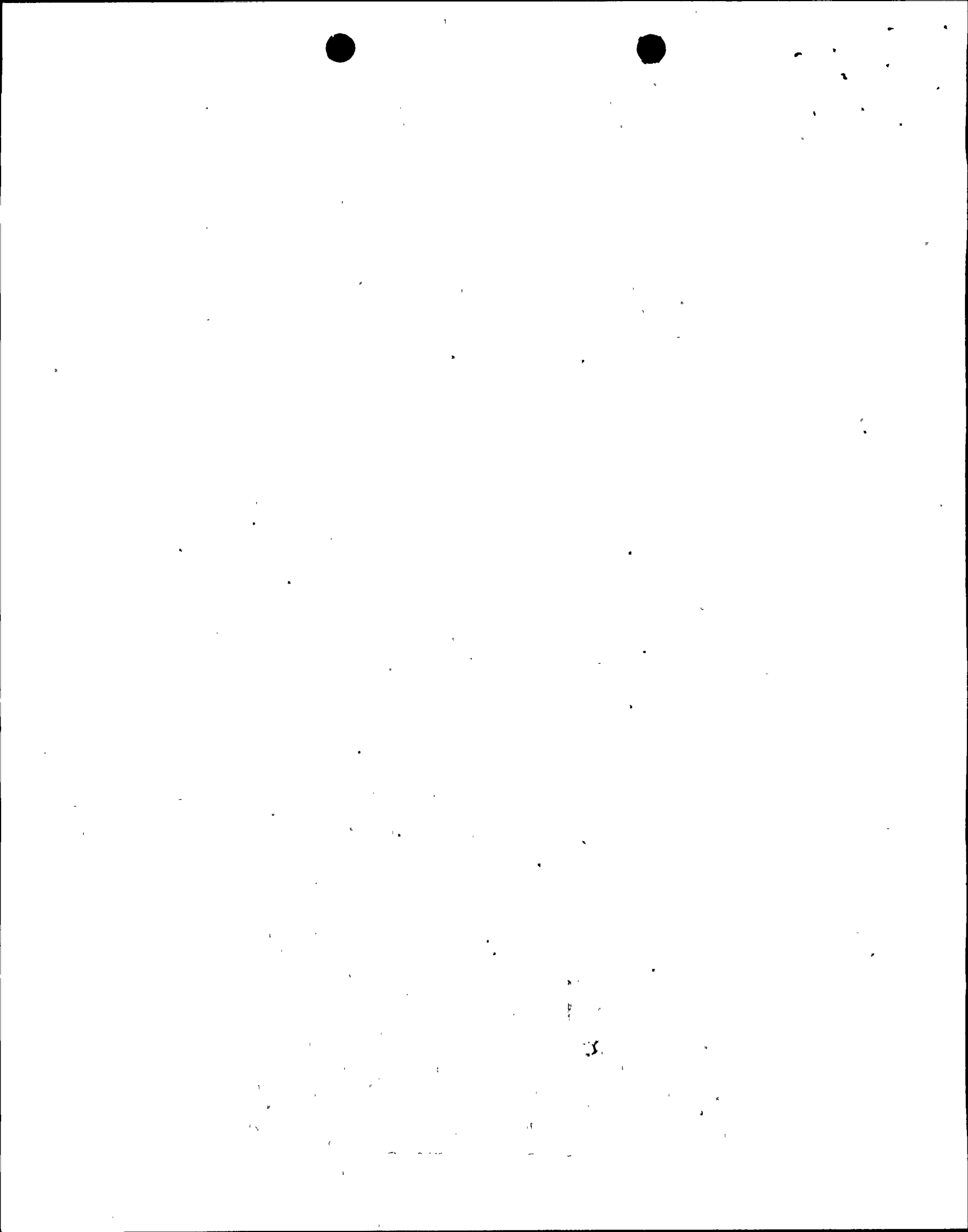
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

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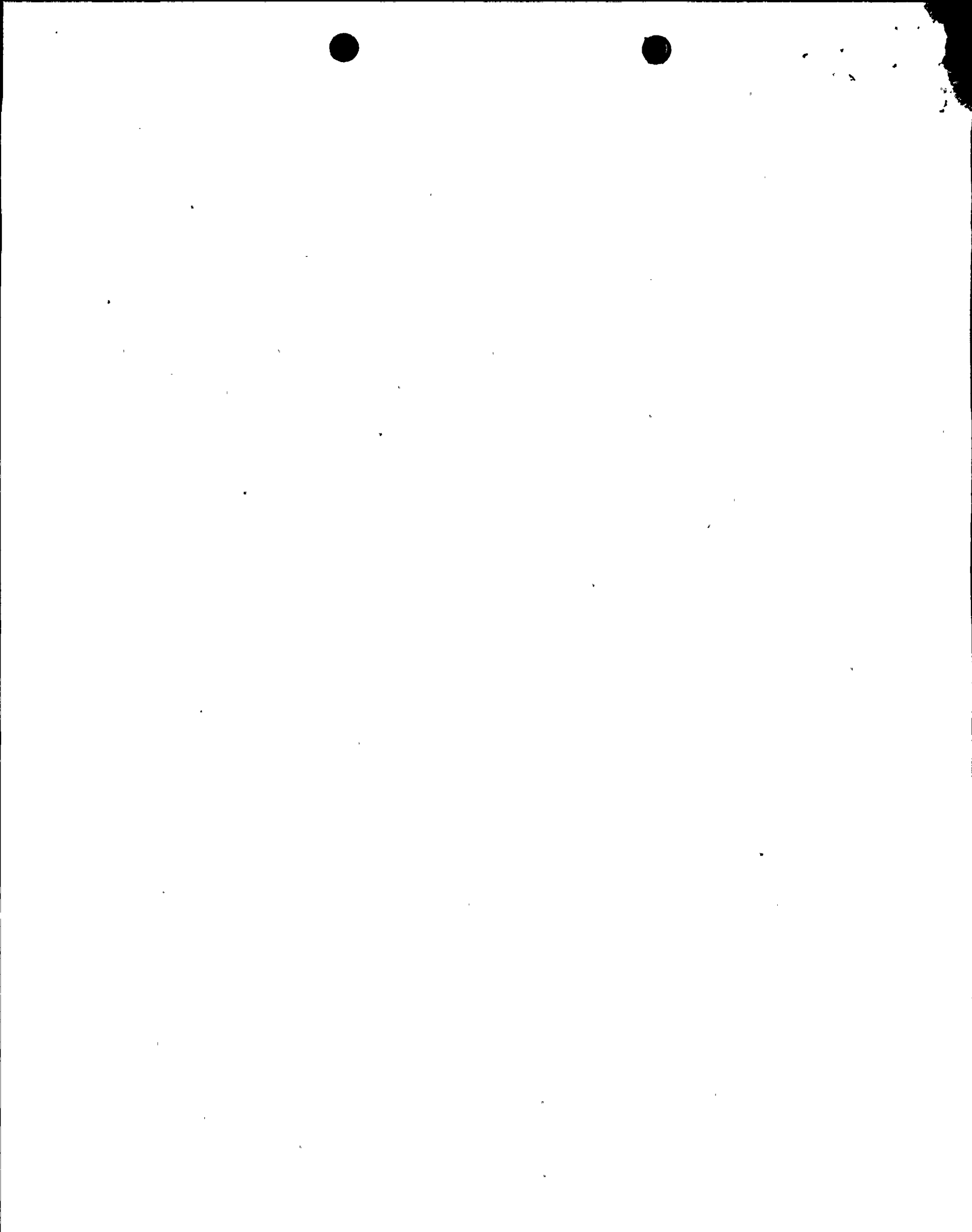
A handwritten signature in cursive script that reads "S. D. Bloom".

Steven D. Bloom, Project Manager
Project Directorate IV-2
Division of Reactor Projects III/IV
Office of Nuclear Reactor Regulation

Docket Nos. 50-275
and 50-323

Enclosure: Request for Additional
Information

cc w/encl: See next page



cc w/encl:
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Sacramento, California 94232

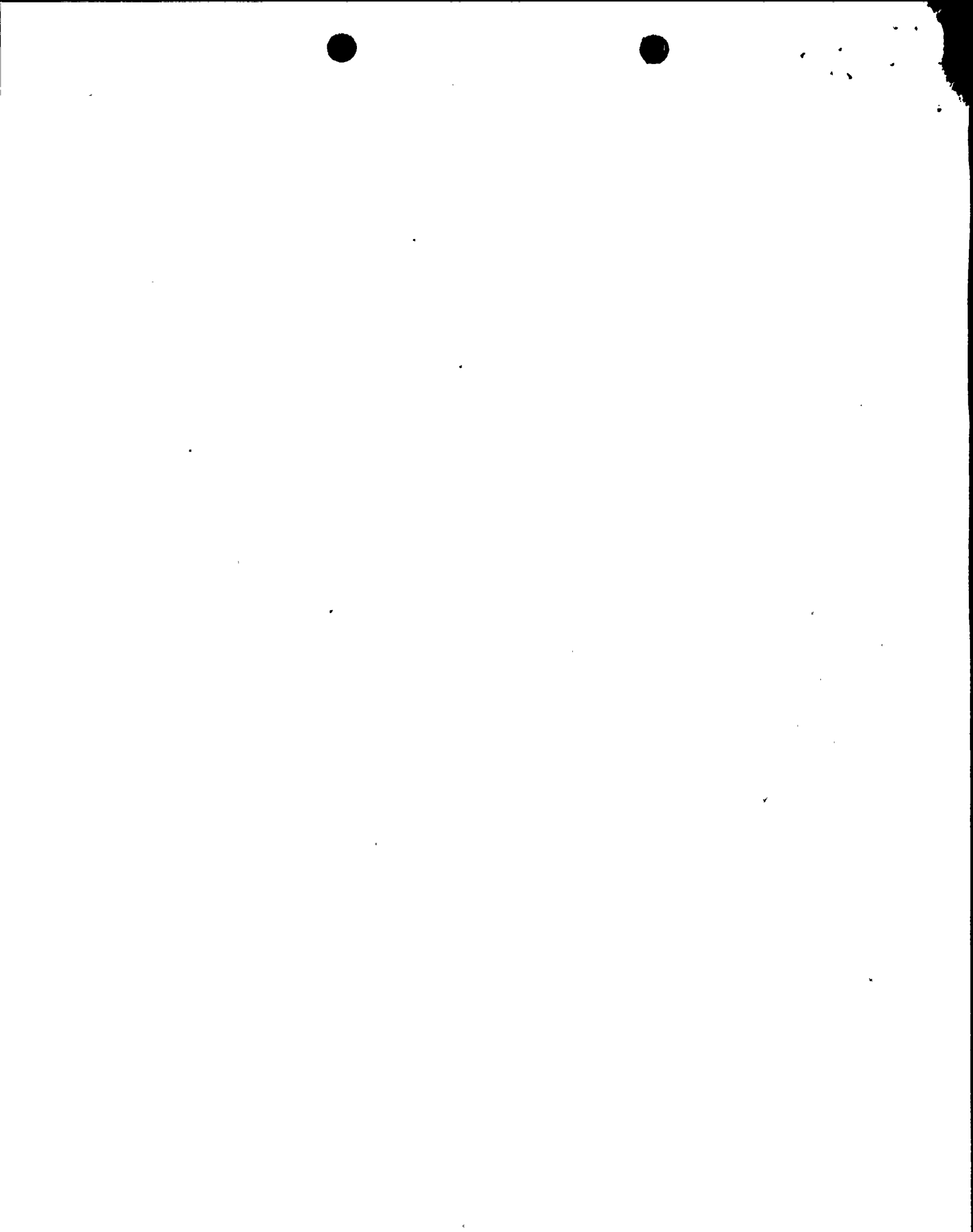
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REQUEST FOR ADDITIONAL INFORMATION
DIABLO CANYON POWER PLANT UNITS 1 AND 2
PACIFIC GAS AND ELECTRIC COMPANY
DOCKET NOS. 50-275 AND 50-323

1. Justify your conclusion that the zone of potential liquefaction is limited in size, covering an area of about 10 to 20 feet by 100 feet with a thickness of about 5 feet, by providing both longitudinal sections and transverse (cross) sections of the soil profiles in the affected areas of the ASW system bypass piping and indicating all pertinent soil parameters, such as the standard penetration test (SPT) blow counts, fines content, etc., of the different soil layers, the elevations of the ASW pipe lines and bedrock. Also provide a legible and reasonably large size drawing showing the location of the AW system bypass piping and the soil borings.
2. Provide the detailed calculations along with necessary justifications for any assumptions made in support of your assessment that the upper bound settlements would vary from about 1 inch in the liquefiable zone to about 0.5 inch near the ground surface for a Hosgri or LTSP size earthquake.
3. Describe and justify the accuracy of the procedure used to convert the blow counts measured by a large sampler to equivalent SPT blow count (N) values.
4. Provide a copy of the report by your consultant, Harding Lawson Associates (HLA), titled "Geotechnical Slope Stability Evaluation, ASW System Bypass Unit 1, Diablo Canyon Power Plant," dated July 3, 1996. The staff is interested in the basis for the residual shear strength of the liquefied soil used in the seismic slope stability analysis. Also provide a detailed summary of Bechtel's Geotechnical Engineering Group's report that verified HLA's slope stability analysis.

