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 FACIL: 50-275 Diablo Canyon Nuclear Power Plant, Unit 1, Pacific Ga 05000275
 AUTH. NAME AUTHOR AFFILIATION
 REEDY, R.F. R.F. Reedy, Inc.
 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director
 ENGELKEN, R.H. Region 5, Office of Director
 MANEATIS, G.A. Pacific Gas & Electric Co.

SUBJECT: Forwards Semimonthly Progress Rept 21 re independent design verification program open item for 821009-1112.

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 TITLE: Diablo Canyon (50-275) Independent Design Verification Program

NOTES: J Hanchett 1cy PDR Documents. 05000275

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RFR

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Walnut Creek, CA 94956

Dr. W. E. Cooper
TELEDYNE ENGINEERING SERVICES
130 Second Avenue
Waltham, MA 02254

Docket No. 50-275
Diablo Canyon Unit 1
License No. DPR-76

Subject: Semimonthly Report
Progress Report #21

Gentlemen:

Enclosed in numerical order are the Open Item Reports R. F. REEDY, INC. has issued during the reporting period October 9, 1982 to November 12, 1982.

As required by DCNPP-IDVPP-PP-05 and RFR-002, individuals assigned by this organization to the IDVP have completed an acceptable Statement Regarding Potential or Apparent Conflicts of Interest.

Very truly yours,

R.F. Reedy by M. [Signature]

Roger F. Reedy, P.E.
R. F. REEDY, INC.

DO13
ADD:
CSB
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RFR:na
Disbursement List Attached

8211170330 821112
PDR ADDCK 05000275
R PDR

Roger F. Reedy, P.E. — Engineering Consulting



November 12, 1982
Semimonthly Report
Disbursement List

cc: H. Schierling (2)
Office of Nuclear Reactor Regulation
U.S. NUCLEAR REGULATORY COMMISSION
7920 Norfolk Avenue
Bethesda, Maryland 20114

R. Fray
Diablo Canyon Verification Program Manager
PACIFIC GAS & ELECTRIC COMPANY
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Berkeley, CA 94710

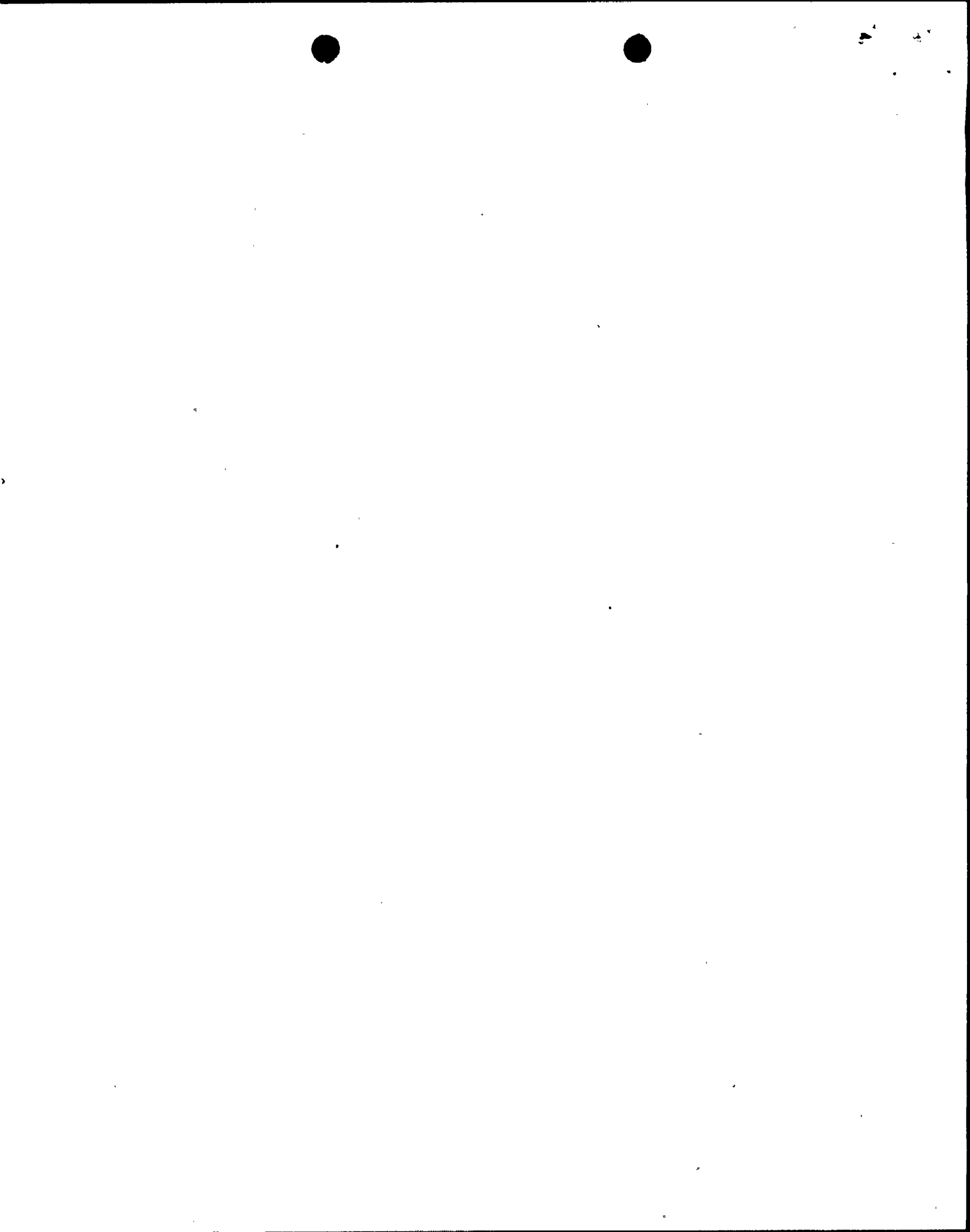
H. H. Brown
KIRKPATRICK, LOCKHART, HILL, CHRISTOPHER & PHILLIPS
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Washington, D.C. 20036

D. F. Fleischaker
P.O. Box 1178
Oklahoma City, OK 73101

J. Reynolds
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10951 W. Pico Blvd.
Suite 300
Los Angeles, CA 90064

B. Norton
NORTON, BURKE, BERRY & FRENCH, P.C.
3216 N. 3rd Street
Suite 300
Phoenix, AZ 85012

A. C. Gehr
SNELL & WILMER
3100 Valley Bank Center
Phoenix, AZ 95073



October 11, 1982

POTENTIAL PROGRAM RESOLUTION REPORT

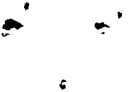
1. Resolution of an: Open Item: Class _____ Error
2. Recommended Independent Design Verification Program Resolution is as:
 - a. Closed Item
 - b. Deviation
 - c. Open Item with future action by PG&E
3. Date Reported to Program Manager: 10/11/82
4. Report submitted on behalf of RFR, Inc. (Organization)
5. Resolution based on the following documentation:

EOI 7002 Rev. 0 states that PG&E could not provide objective evidence that jet impingement analyses of components inside containment have been considered. FSAR para. 3.6 commits to this analysis.

6. Program Resolution is:

PG&E to provide SWEC with objective evidence and/or response relative to analyses for effects of jet impingement on components inside containment per para. 3.6 of FSAR. Open item with future action by PG&E. RFR transfers this item to SWEC for verification of corrective action/resolution.

7. Signature:  (Recommended by)



October 11, 1982

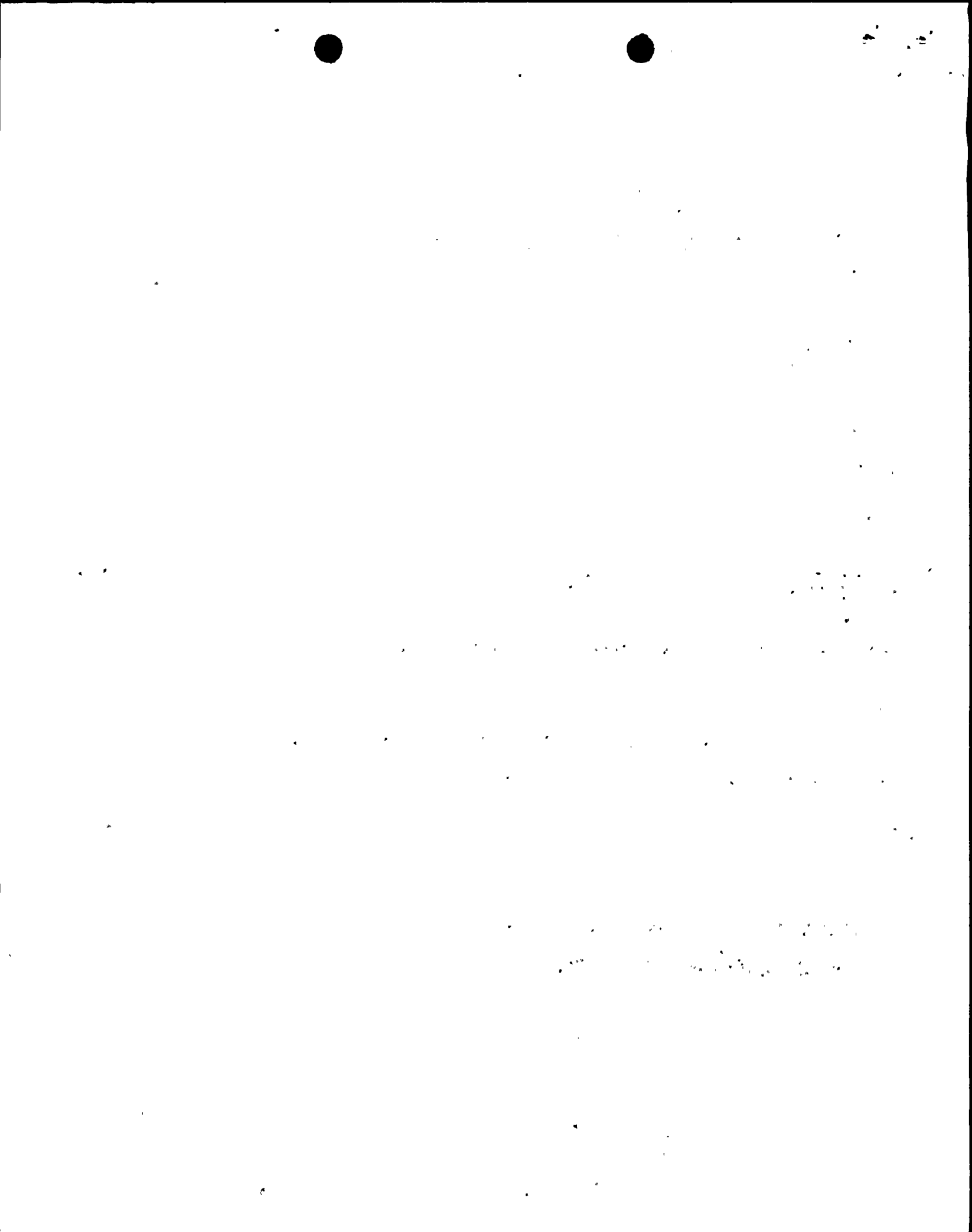
OPEN ITEM REPORT

1. Date reported to PG&E and TES. _____
2. Scheduled for _____ (Originator) Semimonthly Report No. _____
3. Responsive to PG&E Technical Program: Task _____ (if applicable)
4. Prepared as a result of:
 - a. QA Audit and Review Report of PG&E
 - b. Field Inspection Deficiency
 - c. Independent Calculation Deficiency
 - d. Seismic Input Deficiency
 - e. Design Methodology Deficiency
 - f. Other Deficiency
5. Structure(s), system(s) or component(s) involved:

. Containment components
6. Description of Concern:
 1. No objective evidence could be found that the affects of jet impingement on components inside containment were considered.
 2. FSAR Section 3.6, para. 3.6 states that this was accomplished.
7. Significance of Concern:
 1. PG&E could not provide RFR, Inc. with evidence of analysis.
 2. Jet impingement inside containment may not be in current IDVP Scope.
8. Recommendation:

RFR recommends that this item be transferred from RFR, Inc. to SWEC and/or RLCA Scope.
Potential Program Resolution Report to be issued by RFR, Inc.

9. Signature: Roger H. Heedy (Originator/Organization)



October 11, 1982

OPEN ITEM REPORT

1. Date reported to PG&E and TES. _____
2. Scheduled for _____ (Originator) Semimonthly Report No. _____
3. Responsive to PG&E Technical Program: Task _____ (if applicable)
4. Prepared as a result of:
 - a. QA Audit and Review Report of Garretson-Elmendorf-Zinov-Reibin (GEZ)
 - b. Field Inspection Deficiency
 - c. Independent Calculation Deficiency
 - d. Seismic Input Deficiency
 - e. Design Methodology Deficiency
 - f. Other Deficiency
5. Structure(s), system(s) or component(s) involved:
HVAC and Fuel Handling Building HVAC System
6. Description of Concern:

As far as could be determined, there is no evidence of an independent review of the auxiliary and fuel handling building HVAC pressure loss calculation performed by GEZ..
7. Significance of Concern:

This item is outside current SWEC sample for IDVP Phase II.
8. Recommendation:

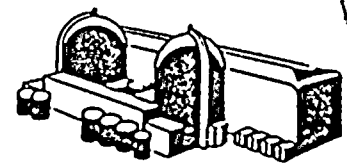
SWEC review of PG&E corrective action is recommended.
PG&E proposed corrective action is attached.

9. Signature: Roger Heedy (Originator/Organization)

003660

INTEROFFICE MEMORANDUM

Diablo Canyon Project



**PACIFIC GAS AND ELECTRIC COMPANY
BECHTEL POWER CORPORATION**


To = Arie Go MET34/D5
From E.J. Brady
Of HVAC Group
At 45/10/A25 Extension 8-8228

Date September 21, 1982
File No.
Subject Request for Assistance Pressure Drop Calculations for Aux. Bldg. Ventilation System

We request assistance from your staff to review the ductwork pressure drop calculations performed by Garretson-Elmendorf-Zinov for the Diablo Canyon Auxiliary Building/Fuel Handling Building Ventilation System. R. F. Reedy is reviewing our contract with GEZ in 1971 for the Phase II Independent Design Verification Program (IDVP). The purpose of this review is to check the calculations to see if they are within an acceptable tolerance of accuracy.

From our meetings, I understand you will use the following method:

- 1) Use APEC Superduct computer program, which has been verified, to calculate all supply and return ductwork, fitting by fitting. The latest revision of the plan and elevation drawings shall be used to define nodes.
- 2) For purposes of preliminary review, assume that the equipment pressure drops in the GEZ calculations, i.e. dampers, clean and loaded filters, coils, etc., are correct. If this review is used as a design verification in accordance with PG&E Engineering Manual, Procedure 3.4, equipment data and specification sheets shall be provided.
- 3) Duct pressure drops shall be calculated for three operational modes: normal ventilation, safeguards modes, combined normal and safeguards.


E. J. Brady
HVAC Group Supervisor
Unit 1

Reply Requested: No
EJBrady:sj

cc: G.H. Moore
D.O. Brand
S.A. Copland
J.O. Vrana
~~From Zenebinski~~

