

# STONE & WEBSTER ENGINEERING CORPORATION



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Mr. G.A. Maneatis, Executive Vice President  
Facilities Development  
Pacific Gas and Electric Company  
77 Beale Street  
San Francisco, CA 94106

February 11, 1983  
J.O. No. 14296  
DCS-278

Mr. H.R. Denton, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. R.H. Engelgen, Regional Administrator  
Region V  
U.S. Nuclear Regulatory Commission  
1450 Maria Lane, Suite 210  
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

## SWEC FEBRUARY SEMIMONTHLY REPORT

Gentlemen:

SWEC has issued no Open Item Reports since the January Semimonthly Report.

Very truly yours,

*John E. Krechting*  
J.E. Krechting  
Project Engineer, Diablo Canyon Nuclear Power Plant

cc: ✓ H. Schierling(2)  
R. Fray  
R.F. Reedy  
E.T. Denison  
H.B. Brown

D.F. Fleischaker  
J.R. Reynolds  
B. Norton  
A.C. Gehr

 **TELEDYNE  
ENGINEERING SERVICES**

130 SECOND AVENUE

WALTHAM, MASSACHUSETTS 02254

617/890-3350 TWX (710) 324-7508

February 11, 1983  
5511-269

Mr. G. A. Maneatis, Executive Vice-President  
Pacific Gas and Electric Co.  
77 Beale Street  
San Francisco, California 94106

Mr. H. R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. R. H. Engelken, Regional Administrator  
Region V  
U. S. Nuclear Regulatory Commission  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596

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

Subject: DCNPP-1 Independent Design Verification Program, TES February  
Second Friday Semimonthly Report

Gentlemen:

Enclosed in numerical order are the Open Item Report System Forms  
issued by TES since our Second Friday Semimonthly Report of January  
14, 1983.

As a result of a Notice of Substitution issued by the Nuclear  
Regulatory Commission dated January 28, 1983, the following changes are  
made in the IDVP distribution list:

Add

Michael J. Strumwasser, Esq.  
3580 Wilshire Blvd., Suite 800  
Los Angeles, CA 90010

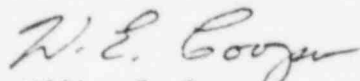
Delete

Herbert H. Brown, Esq.  
Byron S. Georgiou, Esq.  
R. Hubbard

Appropriate changes in Program Procedure DCNPP-IDVP-PP-007 will be  
made at its next revision.

Very truly yours,

TELEDYNE ENGINEERING SERVICES



William E. Cooper  
Project Manager - 5511

WEC:cjr  
Enclosure

cc: H. E. Schierling (NRC)(2)  
R. R. Fray (PG&E)  
E. Denison (RLCA)  
R. F. Reedy (RFR)  
F. Sestak (SWEC)  
J. Roesset

M. J. Strumwasser, Esq.  
D. F. Fleischaker, Esq.  
J. Reynolds, Esq./J. R. Phillips, Esq.  
B. Norton, Esq.  
A. C. Gehr, Esq.

ENGINEERS AND METALLURGISTS

Dupe

8302180277

DIABLO CANYON NUCLEAR POWER PLANT  
INDEPENDENT DESIGN VERIFICATION PROGRAM  
SEMIMONTHLY REPORT  
TES - SM - JANUARY  
FEBRUARY 11, 1983

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PREPARED BY:  
TELEDYNE ENGINEERING SERVICES  
IDVP PROGRAM MANAGER

Dupe

8302180281

TES SEMIMONTHLY REPORT

FEBRUARY 11, 1983

This document includes, in numerical order, all Open Item Report System Forms issued by TES since our Second Friday Semimonthly Report of January 14, 1982.

As required by DCNPP-IDVP-PP-005, individuals assigned by this organization to the IDVP have completed an acceptable Statement Regarding Potential or Apparent Conflicts of Interest.

Appendix A to this document is a "Lookahead Report" as requested by the Commission in its September 29, 1982 letter (Denton to Cooper). This Report is intended to provide a schedule (as presently known) of events occurring before the next Second Friday Semimonthly Report. These events include:

1. DCNPP site visits by the IDVP team.
2. Anticipated meetings where all IDVP participants and designated interested parties have been or will be notified.
3. Significant IDVP events, such as the issuance of an ITR.

Also included in Appendix A is the IDVP schedule relative to DCNPP-1 3-Step Licensing. This schedule provides IDVP report dates for fuel load, low power, and full power.

OPEN ITEM REPORT

File No. 993

File Revision No. 6

1. Date reported to PG&E and <sup>RLCA</sup> ~~TES~~ 820210
2. Scheduled for TES (Originator) Semimonthly Report No. February
3. Responsive to PG&E Technical Program: Task 70065 (if applicable)
4. Prepared as a result of:
- a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

Outdoor Water Storage Tanks

6. Description of Concern:

EOI 993 Revision 4: "Preliminary Report, Seismic Reverification Report, Seismic Reverification Program - November 12, 1981." Although a team effort existed between PG&E and URS/Blume in transmitting the design information for the Outdoor Water Storage Tanks, some checks need to be made to determine the accuracy of the information transferred.

7. Significance of Concern:

8. Recommendation:

As requested in Revision 5 of this file, the DCP has performed a reevaluation and reported results in Section 2.1.6 of their Phase I Report. DCP completion sheet on this file issued on 2/3/83, RLCA and TES to review the DCP response and resolve if satisfied.

9. Signature: *RLCA for W.C. Cooper* 830210 (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 1016

File Revision No. 3

1. Resolution of an. ☒ Open Item: ☐ Class \_\_\_\_\_ Error \_\_\_\_\_
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task \_\_\_\_\_
3. Date Reported to PG&E 830210
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

The anchor allowables on PG&E drawing 054162, Revision 3, do not agree with those on DCM M-9, Appendix C, Revision 7.

File Revision 2: IDVP requested that PG&E should examine this item and decide if it is outside the IDVP per the exemption in Section 7.1 of the Phase I Program (also refer to Program Procedure DCNPP-IDVP-PP-008).

DCP Completion Sheet signed by R. R. Fray on 1/31/83 states that expansion anchor allowables listed in Appendix C of DCM M-9 were developed by TES in response to IE Bulletin 79-02 and hence this item is outside the scope of IDVP.

6. Program Resolution is:

Closed.

7. Potential Program Resolution Report signed by \_\_\_\_\_

on \_\_\_\_\_

Type Name/Organization

Date

8. Signature: R. R. Fray for W & L 830210 (Approved/Program Manager)

File No. 1016  
File Revision No. 4

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 3 is a Program Resolution Report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: *R. Wray for W. C. Cooper* 830210  
Approved/Program Manager

OPEN ITEM REPORT

File No. 1095

File Revision No. 3

1. Date reported to PG&E and 7/79 RLCA
2. Scheduled for TES (Originator) Semimonthly Report No. February
3. Responsive to PG&E Technical Program: Task            (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of
  - b. ☐ Field Inspection Deficiency
  - c. ☐ Independent Calculation Deficiency
  - d. ☐ Seismic Input Deficiency
  - e. ☐ Design Methodology Deficiency
  - f. ☒ Other ~~Deficiency~~ DCP Completion Sheet by R. R. Fray on 1/27/83.
5. Structure(s), system(s) or component(s) involved:

Auxiliary Building

6. Description of Concern:

The auxiliary building time history obtained from URS/Blume may not conservatively envelope the Hosgri design spectra at certain frequencies. This concern gives rise to the potential that the floor response spectra obtained from the input time history may not be conservative at all frequencies.

7. Significance of Concern:

8. Recommendation:

RLCA and TES to review DCP response (Completion Sheet from R. R. Fray dated 1/27/83) and determine if DCP response is satisfactory and whether this file can be resolved.

9. Signature: *R. R. Fray* 830210 (Originator/Organization)

# ERROR REPORT

File No. 1098

Class: A or B  
A, B, C or D

File Revision No. 6

PG&E Task No. \_\_\_\_\_

1. Dates: Reported to Program Review Committee - NA  
Program Review Committee Action NA  
Reported to PG&E and Originator 830120
2. Scheduled for TES Semimonthly Report No. February
3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

## CVCS Separator/Stabilizer.

### 4. Description of Error:

The design analysis 8-25 modeled the CVCS separator/stabilizer support as an X and Y translational restraint. RLCA field verification shows this support as an X and Y translational and X and Z rotational restraint.

### 5. Significance of Error:

The separator/stabilizer was qualified as an "in-line" piping component. Design analysis 8-25 does not record the correct anchor bolt loads on the separator/stabilizer.

### 6. Recommendation:

Based on PG&E presentations of their technical program, this file is combined with files 961, 1021, 1058, 1059, 1060, and 1104 as an Error Class A or B.

The inclusion of file 1060 and 1104 into this file was achieved by Program Review Committee action.

All concerns of the above mentioned files will be reviewed under this file.

Revision 6 was issued to reflect the inclusion of file 6001.

7. Potential Error Report signed by NA on NA
8. Signatures: NA Type Name/ Organization Date  
For Program Review Committee Approved/Program Manager 830120

PROGRAM RESOLUTION REPORT

File No. 1111

File Revision No. 4

1. Resolution of an: ☒ Open Item: ☐ Class \_\_\_\_\_ Error \_\_\_\_\_
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task \_\_\_\_\_
3. Date Reported to PG&E 830120
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

This EOI to be closed and EOI 6001 issued to reflect the Phase II items.

6. Program Resolution is:

Closed Item

7. Potential Program Resolution  
Report signed by Edward Denison/RLCA (n 830110  
Type Name/Organization Date
8. Signature: *Edward Denison* 830120 (Approved/Program Manager)

File No. 1111  
File Revision No. 5

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 4 is a Program Resolution Report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No.       , which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is  
\_\_\_\_\_.

2. Signature: R. Wray for W.E. Cooper 630120  
Approved/Program Manager

PROGRAM RESOLUTION REPORT

File No. 1113

File Revision No. 2

1. Resolution of an: ☒ Open Item: ☐ Class \_\_\_\_\_ Error \_\_\_\_\_
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task \_\_\_\_\_
3. Date Reported to PG&E 830204
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

P105-4-550-029, Revision 1 RLCA CCW Pump Verification Analysis.

Results of Design Analysis and Verification Analysis differ by more than 15%. Differences are attributed to the use in the Design Analysis of:

- (1). low impeller weight
- (2). short shaft support span
- (3). smaller foundation plate thickness.

6. Program Resolution is:

All calculated stresses are below the allowable values.

7. Potential Program Resolution  
Report signed by Edward Denison (RLCA) on 830201
8. Signature: *Edward Denison* 830204 (Approved/Program Manager)

File No. 1113  
File Revision No. 3

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 2 is a Program Resolution Report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No.       , which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is  
\_\_\_\_\_.

2. Signature: NE Coyle 830204  
Approved/Program Manager

PROGRAM RESOLUTION REPORT

File No. 7001

File Revision No. 1

1. Resolution of an: ☒ Open Item: ☐ Class \_\_\_\_\_ Error \_\_\_\_\_
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task \_\_\_\_\_
3. Date Reported to PG&E 821011
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

Based upon additional information provided by PG&E (DCVP-TES-647) on 821215 and reviewed by SWEC, the concern addressed by this file has been resolved.

6. Program Resolution is:

File to be closed due to satisfactory resolution of the concern.

7. Potential Program Resolution  
Report signed by N/A on \_\_\_\_\_  
Type Name/Organization Date
8. Signature: Z. E. [Signature] 810606 (Approved/Program Manager)

File No. 7001  
File Revision No. 2

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 1 is a Program Resolution Report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No.       , which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: W. E. Gage 830602  
Approved/Program Manager

OPEN ITEM REPORT

File No. 7002

File Revision No. 3

1. Date reported to PG&E and TES 830202
2. Scheduled for TES (Originator) Semimonthly Report No. February
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, paragraph 3.6 states that this was accomplished.

7. Significance of Concern:

Jet impingement inside containment is being analyzed by DCP and will be subject to IDVP verification as part of additional verification effort.

8. Recommendation:

This file be reclassified as a Class A/B Error so that it can be addressed as part of the additional verification effort.

9. Signature: M. G. Smith / TES (Originator/Organization)

ERROR REPORT

File No. 7002

Class: A/B  
A, B, C or D

File Revision No. 4

PG&E Task No. \_\_\_\_\_

1. Dates: Reported to Program Review Committee- N/A  
Program Review Committee Action N/A  
Reported to PG&E and Originator 830202
2. Scheduled for TES Semimonthly Report No. February
3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

Containment component

4. Description of Error:

As a result of R. F. Reedy audit of PG&E, it was discovered that no documented evidence existed concerning PG&E's jet impingement analysis inside containment.

5. Significance of Error:

FSAR Section 3.6, paragraph 3.6, states that this was accomplished. The necessary analysis is being performed by the DCP and will be verified by the IDVP as part of the additional verification effort.

6. Recommendation:

This file will be addressed by additional verification efforts as described in ITR-34.

7. Potential Error Report signed by N/A on \_\_\_\_\_  
Type Name/Organization Date
8. Signatures: N/A  
For Program Review Committee NEB  
Approved/Program Manager

OPEN ITEM REPORT

File No. 7004

File Revision No. 3

1. Date reported to PG&E and TES 830202
2. Scheduled for TES (Originator) Semimonthly Report No. February
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/Quadrex
- 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:

Pipe rupture thermal hydraulic analyses outside containment and environmental qualification of related essential equipment.

6. Description of Concern:

During the R. F. Reedy audit of PG&E/Quadrex, PG&E/Quadrex could not provide documented evidence that assumptions made in PGE-01-27, Revision 1 (that certain doors were open or closed and certain penetrations were open) were still valid in view of plant design changes since 1974.

7. Significance of Concern:

As a result of EOI-8001 and the DCP's commitment to reanalyze the environments outside containment, the aspect of PG&E's approach to penetrations will be addressed by SWEC's review of the new analysis.

8. Recommendation:

This file be closed.

9. Signature: M. G. Reedy TES (Originator /Organization)

PROGRAM RESOLUTION REPORT

File No. 7004

File Revision No. 4

1. Resolution of an: ☒ Open Item: ☐ Class \_\_\_\_\_ Error \_\_\_\_\_
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task \_\_\_\_\_
3. Date Reported to PG&E 830202
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

As a result of EOI-8001 and the DCP's commitment to reanalyze the environments outside containment, the aspect of PG&E's approach to penetrations will be addressed by SWEC's review of the new analysis.

6. Program Resolution is:

File to be closed based upon additional verification work to be done on EOI-8001.

7. Potential Program Resolution  
Report signed by N/A on \_\_\_\_\_  
Type Name/Organization Date
8. Signature: N P Long 830204 (Approved/Program Manager)

File No. 7004  
File Revision No. 5

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 4 is a Program Resolution Report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: NE Gorge 830604  
Approved/Program Manager

OPEN ITEM REPORT

File No. 7005

File Revision No. 3

1. Date reported to PG&E and <sup>SWEC</sup>~~TES~~ 830202
2. Scheduled for TES (Originator) Semimonthly Report No. February
3. Responsive to PG&E Technical Program: Task (if applicable)
4. Prepared as a result of:
  - a. ☒ QA Audit and Review ~~Report~~ of Quadrex
  - 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:

Pipe rupture thermal hydraulic analyses outside containment and environmental qualification of related essential equipment.

6. Description of Concern:

During the R. F. Reedy audit of Quadrex, there was no documented evidence that Quadrex performed temperature, pressure and flooding calculations in all compartments which either contained HELB locations or had communication with compartments which contained HELB locations. Judgement was apparently used as the basis for not performing calculations for some compartments.

7. Significance of Concern:

As a result of additional documentation (Quadrex letter to DCP, RR-82-108, of 9/9/82) provided by DCP and also of the DCP's commitment to reanalyze the environments outside of containment in response to EOI-8001, the application of environmental analysis to compartments will be addressed by SWEC's review of the new analysis.

8. Recommendation:

This file be closed.

9. Signature: M. A. [Signature] / TES (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 70A5

File Revision No. 4

1. Resolution of an: ☒ Open Item: ☐ Class        Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task
3. Date Reported to PG&E 830202
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

As a result of additional documentation (Quadrex letter to DCP, RR-82-108, of 9/9/82) provided by DCP and also of the DCP's commitment to reanalyze the environments outside of containment in response to FOI-8001, the application of environmental analysis to compartments will be addressed by SWEC's review of the new analysis.

6. Program Resolution is:

File to be closed based upon additional documentation and upon additional verification work to be done on EOI-8001.

7. Potential Program Resolution Report signed by N/A on        Date         
Type: Name/Organization
8. Signature: W. E. Gage - 830204 (Approved/Program Manager)

File No. 7005  
File Revision No. 5

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 4 is a Program Resolution report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No.       , which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is  
\_\_\_\_\_.

2. Signature: W E Goyne 83.6.24  
Approved/Program Manager

PROGRAM RESOLUTION REPORT

File No. 7006

File Revision No. 1

1. Resolution of an: ☒ Open Item: ☐ Class \_\_\_\_\_ Error \_\_\_\_\_
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task \_\_\_\_\_
3. Date Reported to PG&E 821129
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

As part of the initial sample, SWEC evaluated the methodology used by RRA in performing radiation dosage calculations and found it acceptable. Since this methodology is the same as what is being used in the revised calculations, the only remaining concern was one of RRA's design input controls. RFR had determined this to be satisfactorily implemented during the audit.

6. Program Resolution is:

File be closed due to satisfactory resolution of concern.

7. Potential Program Resolution  
Report signed by \_\_\_\_\_

N/A

on \_\_\_\_\_

Type Name/Organization

Date

8. Signature: R. P. Em - 8/02/02 (Approved/Program Manager)

File No. 7006  
File Revision No. 2

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 1 is a Program Resolution report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No.       , which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is  
\_\_\_\_\_.

2. Signature: W. E. Grogg 830202  
Approved/Program Manager

OPEN ITEM REPORT

File No. 8002

File Revision No. 6

SWEC

830124

1. Date reported to PG&E and ~~XXX~~ (Originator) Semimonthly Report No. February
2. Scheduled for TES
3. Responsive to PG&E Technical Program: Task (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of
  - 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:
 

Auxiliary Feedwater (AFW) System and Control Room Ventilation and Pressurization (CRVP) System Equipment which must function in a severe environment.
6. Description of Concern:

The mass and energy release data calculated by NSC in the Auxiliary Building and in the Turbine Building for a main steam line break, included the effects of entrainment. Including the effects of entrainment will not result in the calculation of the most severe temperature environment.

7. Significance of Concern:

Safety related equipment outside containment affected by a main steam line break which must function in a severe environment will be exposed to higher temperatures than reported.

8. Recommendation:

TES requests SWEC to review the PGandE Completion Sheet IDVP File No. 8002, Revision 5 signed 830115, and provide recommendation for future disposition.

9. Signature: N. E. Coogan 830124 (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 8002

File Revision No. 8

1. Resolution of an: ☒ Open Item: ☐ Class \_\_\_\_\_ Error \_\_\_\_\_
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task \_\_\_\_\_
3. Date Reported to PG&E 830210
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

DCP Completion Sheet, IDVP File No. 8002, Revision 5, signed 830115.

The response in this DCP Completion Sheet is adequate because "At the time of the original analysis all NRC required break sizes were considered."

6. Program Resolution is:

IDVP concurs that the statement quoted above addresses the original concern and therefore will close this item.

7. Potential Program Resolution  
Report signed by Frank Sestak (SWEC) on 830111  
Type Name/Organization 830210 Date \_\_\_\_\_
8. Signature: J2 Craig for W.E. Cooper (Approved/Program Manager)

File No. 8002  
File Revision No. 9

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 8 is a Program Resolution Report which reclassified this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is

2. Signature: J. Craig for W.E. Cooper 830209  
Approved/Program Manager

OPEN ITEM REPORT

File No. 8003

SWEC

File Revision No. 6

~~TES~~ 830210

1. Date reported to PG&E and ~~TES~~ (Originator) Semimonthly Report No. February  
 2. Scheduled for TES (if applicable)  
 3. Responsive to PG&E Technical Program: Task \_\_\_\_\_  
 4. Prepared as a result of:

- a. ☐ QA Audit and Review Report of \_\_\_\_\_  
 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:  
 Control Room Ventilation and Pressurization System (CRVP) equipment  
 inside the Turbine Building which must function in a severe  
 environment.

6. Description of Concern:

The enthalpy value of the longterm blowdown resulting from a main  
 steam line break in the Turbine building used by NSC was too low.

7. Significance of Concern:

Safety-related equipment inside the Turbine Building affected by a  
 main steam line break which must function in a severe environment may  
 be exposed to greater temperatures than reported.

8. Recommendation:

TES requests SWEC to review the DCP Completion Sheet, IDVP File No.  
 8003, Revision 5, signed 830121 and provide recommendation for  
 future disposition.

9. Signature: JJ Craig for WEC 830210 (Originator/Organization)

# OPEN ITEM REPORT

File No. 8004

File Revision No. 6

SWEC 830124

1. Date reported to PG&E and ~~TES~~ (Originator) Semimonthly Report No. Febraury
2. Scheduled for TES
3. Responsive to PG&E Technical Program: Task (if applicable)
4. Prepared as a result of:

- a. ☐ QA Audit and Review Report of
- 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:

Auxiliary Feedwater (AFW) System and Control Room Ventilation and Pressurization (CRVP) System Equipment which must function in a severe environment.

6. Description of Concern:

Initial temperatures of 70°F were used by NSC for calculation of environments for equipment qualification in area GE, GW, the Turbine Building and outside atmosphere instead of the maximum temperatures specified in Chapter 9 of DCNPP-1 FSAR.

7. Significance of Concern:

Safety related equipment outside containment may be exposed to higher temperature environments than reported.

8. Recommendation:

TES requests SWEC to review the PGandE Completion Sheet DVP File No. 8004, Revision 5 signed 830115, and provide recommendation for future disposition.

9. Signature:

*NE Corp*

830124 (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 8004

File Revision No. 8

1. Resolution of an: ☒ Open Item: ☐ Class Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task 830210
3. Date Reported to PG&E February
4. Scheduled for TES Semimonthly Report No. 830210
5. Resolution based on the following documentation:

DCP Completion Sheet, IDVP File No. 8004, Revision 5, dated 830114.

The response in this DCP Completion Sheet is adequate because "...initial compartment pressure, temperature, and relative humidity values assumed in the analysis are 14.7 psia, 70°F and 60% respectively. This defines the DC licensing requirements for the specific combination of pipe breaks and initial conditions."

6. Program Resolution is:

IDVP concurs that the statement quoted above addresses the original concern and therefore will close this item.

7. Potential Program Resolution  
Report signed by Frank Sestak (SWEC)

(1) 830131  
Date

8. Signature: J. C. Craig for WE Cooper (Approved/Program Manager)  
Type Name/Organization 830210

File No. 8004  
File Revision No. 9

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

- ☒ File Revision No. 8 is a Program Resolution Report which recategorized this item as a Closed Item.
- ☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: JJ Cragin for W.E. Cooper 830209  
Approved/Program Manager

# OPEN ITEM REPORT

File No. 8005

File Revision No. 7

SWEC ~~XXX~~ 830131

1. Date reported to PG&E and ~~XXX~~ TES (Originator) Semimonthly Report No. February
2. Scheduled for TES (if applicable)
3. Responsive to PG&E Technical Program: Task            (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of
  - 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:  
 Safety-related equipment outside containment which must be located above flood levels or protected against submergence.
6. Description of Concern:

The flood heights calculated in areas containing safety related equipment outside containment may be too low because the maximum available water inventory for a postulated feedwater line rupture was not considered.

7. Significance of Concern:

Safety-related equipment outside containment may be submerged.

8. Recommendation:

TES requests SWEC to review the PGandE Completion Sheet IDVP File No. 8005, Revision 6 signed 830124 and provide recommendation for future disposition.

9. Signature: *N. E. Coyle* 830131 (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 8005

File Revision No. 9

1. Resolution of an: ☒ Open Item: ☐ Class          Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task
3. Date Reported to PG&E 830210
4. Scheduled for TES Semimonthly Report No.          February
5. Resolution based on the following documentation:

DCP Completion Sheet, IDVP File No. 8005, Revision 6, signed January 24, 1983.

6. Program Resolution is:

IDVP concurs that the response by DCP in the above-referenced completion package is adequate to address the concerns identified in this EOI file on the basis that conservatism exists in the original analysis which result in water release volumes and flooding heights that are conservative, and therefore will close this item.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830210  
Type Name/Organization          Date
8. Signature: J. C. Craig for W. F. Cooper (Approved/Program Manager)

File No. 8005  
File Revision No. 10

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

- ☒ File Revision No. 9 is a Program Resolution Report which recategorized this item as a Closed Item.
- ☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No.       , which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is

2. Signature: JJ Craig for W.E. Cooper 830210  
Approved/Program Manager

PROGRAM RESOLUTION REPORT

File No. 8006

File Revision No. 8

1. Resolution of an: ☒ Open Item: ☐ Class Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task
3. Date Reported to PG&E 830120
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

PG&E Completion Sheet IDVP File No. 8006, Revision 3, signed 821122. This document states that the reanalysis to evaluate the environmental parameters (P/T transients) in the Turbine Building being performed in response to EOI No. 8001 will address the concern of EOI File No. 8006.

6. Program Resolution is:

IDVP concurs with the DCP Completion Sheet and therefore will close this item.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830118  
Type Name/Organization 830124 Date  
(Approved/Program Manager)
8. Signature: W E Cope

File No. 8006  
File Revision No. 9

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 8 is a Program Resolution Report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: NECoy 830124  
Approved/Program Manager

# OPEN ITEM REPORT

File No. 8023

File Revision No. 3

SWEC

830211

1. Date reported to PG&E and ~~TES~~ 830211 (Originator) Semimonthly Report No. EEB (if applicable)
2. Scheduled for TES
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:  
Engineered Safeguards, 480-volt system--LOCA conditions.

## 6. Description of Concern:

After LOCA, steady-state voltage on 460-volt motors may be too low.

## 7. Significance of Concern:

Motors may overheat, causing premature failure.

## 8. Recommendation:

SWEC to review DCP response (DCP Resolution Sheet IDVP File No. 8023, Rev. 2 signed on 1/31/83) and provide a recommendation for future disposition.

9. Signature: W. E. Boyer

830211 (Originator/Organization)

OPEN ITEM REPORT

File No. 8024

SWEC

File Revision No. 3

1. Date reported to PG&E and ~~TES~~ 830211
2. Scheduled for TES (Originator) Semimonthly Report No. Feb
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_ (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

Engineered Safeguards 480-volt system -- Large Motor Starting

6. Description of Concern:

Starting large motors when station service power is supplied from the 230-kV start-up source may cause drop-out of 480-volt starter contacts.

7. Significance of Concern:

Inadvertant tripping of Engineered Safeguards motors.

3. Recommendation:

SWEC to review DCP response (DCP Resolution Sheet IDVP File No. 8024 Rev. 2 signed on 1/31/83) and provide a recommendation for future disposition.

9. Signature:

J. J. Craig for W.E. Cooper (Originator/Organization)  
-35- 830210

OPEN ITEM REPORTFile No. 8025

SNEC

File Revision No. 3

1. Date reported to PG&E and ~~TES~~ 830211
2. Scheduled for TES (Originator) Semimonthly Report No. Feb.
3. Responsive to PG&E Technical Program: Task            (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of
  - 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:

Engineered Safeguards 4.16 kV and 480-volt systems.

6. Description of Concern:

Automatic transfer of all 4 kV motors to the 230-kV start-up source after a LOCA may result in low voltage conditions at the terminals of 4.0 kV and 460-volt safety-related motors.

7. Significance of Concern:

Possible motor damage before undervoltage relays trip.

8. Recommendation:

SNEC to review DCP response (DCP Resolution Sheet IDVP File No. 8025 Rev. 2, signed on 1/31/83) and provide a recommendation for future disposition.

9. Signature: *W.E. Boyer* 830211 (Originator/Organization)

# PROGRAM RESOLUTION REPORT

File No. 8027

File Revision No. 1

1. Resolution of an: ☒ Open Item: LI Class Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task \_\_\_\_\_
3. Date Reported to PG&E 830211
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

DCP Completion Sheet, IDVP File NO. 8027, Revision 2, signed 830120.

## 6. Program Resolution is:

The IDVP has reviewed the test results made without the steam trap and finds them acceptable. No technical concern now exists because of the lack of steam trap 135.

This file to be closed.

7. Potential Program Resolution  
Report signed by John Krechting (SWEC) on 830209  
Type Name/Organization Date
8. Signature: W.C. Boyer 830211 (Approved/Program Manager)

File No. 8027  
File Revision No. 6

# IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 5 is a Program Resolution Report which reclassified this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is

2. Signature:

NE Engrs

830211

Approved/Program Manager

## OPEN ITEM REPORT

File No. 8033

SWEC

File Revision No. 3

1. Date reported to PG&E and ~~TES~~ SWEC 830210
2. Scheduled for TES (Originator) Semimonthly Report No. February
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_ (if applicable)
4. Prepared as a result of:
- a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

AFW and CRVP Systems equipment outside the containment which must function in a severe environment.

## 6. Description of Concern:

Review of the methods utilized by NSC to calculate the mass and energy release data has revealed the following concern. The steam generators were each modeled as one control volume. This technique does not model the steam separator located in the steam generator. The effect of neglecting the steam separator in model will significantly affect the amount of entrained liquid that is calculated in the steam generator effluent.

## 7. Significance of Concern:

Safety-related equipment located outside containment affected by a main steam line break which must function in a severe environment may be exposed to greater temperatures than reported.

## 8. Recommendation:

TES requests SWEC to review the DCP Completion Sheet, IDVP File No. 8033, Revision 2, signed 830121, and provide recommendation for future disposition.

9. Signature: JJ Craig for W.E. Cooper 830210 (Originator/Organization)

## OPEN ITEM REPORT

File No. 8034

SWEC

File Revision No. 3

1. Date reported to PG&E and ~~XXX~~ TES 830131
2. Scheduled for TES (Originator) Semi-monthly Report No. February
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_ (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

Auxiliary Feedwater System (AFW) Equipment.

6. Description of Concern:

Review of the methods utilized, by Nuclear Services Corporation (NSC), to calculate the pressure and temperature transients in area GE at elevation 115'-0", due to a main steam line rupture in area GW at elevation 115'-0", revealed the following:

1. Enthalpy values utilized to determine the energy rates into area GE were developed from the CONTEMPT computer program output that calculated the environments in area GW at elevation 115'-0". The enthalpy values developed from the CONTEMPT computer program output were too low due to the accumulation of air in area GW (Refer to Error Report 8001).
2. The method utilized to calculate the mass discharge data into area GE and the one node model developed to analyze the environments in area GE will result in the calculation of pressure and temperature transients which are too low. The NSC method of calculating the mass discharge data into area GE considered only flow from area GW elevation 115'-0" and the model developed to calculate the environments for area GE elevation 115'-0" assumed all vents out of the area exhausted to atmosphere except the vent into area GW. The effects of adjacent compartments on the environments in area GE elevation 115'-0" were neglected.
7. Significance of Concern:

Safety-related equipment outside containment will experience higher temperature and pressure environments than reported, as listed below:

  - A. The equilibrium temperature calculated in area GE at elevation 115'-0" may be approximately 300°F instead of 212°F calculated by NSC.
  - B. The peak pressure in area GE at elevation 115'-0" may be approximately 20 psia instead of 17 psia calculated by NSC.
  - C. The door between GE at elevation 115'-0" and the Fuel Handling Building, which is assumed closed, may exceed its design pressure of 2 psid.
8. Recommendation:

TES requests SWEC to review the DCP Completion Sheet IDVP File No. 8034, Revision 2 signed 830124 and provide recommendation for future disposition.

9. Signature: 208 Egan 830131 (Originator/Organization)

OPEN ITEM REPORT

File No. 8035

SWEC

File Revision No. 3

1. Date reported to PG&E and ~~TES~~ 830205
2. Scheduled for TES (Originator) Semimonthly Report No. February
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_ (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

CRVP Fire Protection.

6. Description of Concern:

Smoke detectors in CRVP normal outside air intake ducts have not been provided as per commitments made in Amendment 51 (page 5-51). This commitment was made in response to BTP-9.5-1 Position F.2.

7. Significance of Concern:

Control room operators would not be automatically alerted in case of smoke entering the control room. A significant amount of smoke could enter the control room prior to detection by operators which could affect control room habitability.

8. Recommendation:

TES requests SWEC to review the PGandE Resolution Sheet IDVP File NO. 8035 Revision 2 signed 830124 and provide recommendation for future disposition.

9. Signature: J. Crogin for W.E. Coupe 830205 (Originator/Organization)

OPEN ITEM REPORT

File No. 8040

SWEC

File Revision No. 3

1. Date reported to PG&E and ~~TES~~ 830131
2. Scheduled for TES (Originator) Semimonthly Report No. February
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_ (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

Safety-related equipment outside containment which must be located above flood levels or protected against submergence.

6. Description of Concern:

Review of the flooding in area GW due to a feedwater line rupture revealed the following nonconservative assumptions:

1. The inventory available for release from the steam generator considered only the liquid mass above the feedwater sparger ring (inlet pipe). Therefore only approximately 25,000 lbm from the steam generator that contains 153,000 lbm was considered for calculation of the maximum flood height.
2. Auxiliary feedwater flow out of the rupture pipe was not considered.

7. Significance of Concern:

Assumptions concerning steam generator water inventory and auxiliary feedwater addition could affect calculation of flooding heights.

8. Recommendation:

TES requests SWEC to review the PGandE Completion Sheet IDVP File No. 8040, Revision 2 signed 830124 and provide recommendation for future disposition.

9. Signature: 2/8/81 830131 (Originator/Organization)

OPEN ITEM REPORT

File No. 8041

SWEC

File Revision No. 5

1. Date reported to PG&E and ~~TES~~ 830124
2. Scheduled for TES (Originator) Semimonthly Report No. February
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_ (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

CRVP System Transfer Switch.

6. Description of Concern:

Refer to Open Item Report EOI 8041 Revision 0.

7. Significance of Concern:

Refer to EOI Revision 0.

8. Recommendation:

Based on the January 4, 1983 meeting, and the DCP Completion Sheet IDVP File No. 8041, Revision 3, signed 821215, SWEC should evaluate this file and provide recommendation for future disposition.

9. Signature: NEC 830124 (Originator/Organization)

OPEN ITEM REPORT

File No. 8042

SWEC

File Revision No. 5

830124

1. Date reported to PG&E and ~~WES~~ 830124
2. Scheduled for TES (Originator) Semimonthly Report No. February
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_ (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

AFW and CRVP 120 VAC Vital Instrument Distribution Panels PY11 and PY13.

6. Description of Concern:

Refer to Open Item Report EOI 8042, Revision 0.

7. Significance of Concern:

Refer to Revision 0.

8. Recommendation:

Based on the January 4, 1983 meeting and DCP Completion Sheet IDVP File No. 8042, Revision 3, signed 821215, SWEC should evaluate this file and provide recommendation for future disposition.

9. Signature: NE Gay 830124 (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 8042

File Revision No. 7

1. Resolution of an: ☒ Open Item: ☐ Class        Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task
3. Date Reported to PG&E 830209
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

PGandE Completion Sheet, IDVP File No. 8042, signed 12-15-82  
transmitted via DCVP-SWEC-271 dated 12-16-82.

SWEC has reviewed the PGandE documentation referenced above. The PGandE response is acceptable based on the following. The circuits are not mutually redundant even though they are two different color coded Class IE circuits, and therefore do not require separation. Failure of a panel (eg. PY11) fed from the gray backup power source disables only that panel (PY11), because breakers for the backup gray power source in the other three panels are normally open. The breaker in BTH101 isolates the fault from Bus 1G. Therefore a common mode failure would not result from the failure of the panel.

6. Program Resolution is:

The IDVP concurs with the resolution based on the following:

- A. The circuits are not mutually redundant
- B. Any failure of a panel will be isolated by circuit breakers.

Therefore this item will be closed.

7. Potential Program Resolution  
Report signed by Frank Sestak (SWEC) on 830203
8. Signature: J. J. Grogan for W.E. Cooper 830209 (Approved/Program Manager)  
Date

File No. 8042  
File Revision No. 8

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 7 is a Program Resolution Report which reclassified this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is

2. Signature: J. Craig for W. E. Cooper 830209  
Approved/Program Manager

OPEN ITEM REPORT

File No. 8043

SWEC

File Revision No. 5

1. Date reported to PG&E and ~~TES~~ 830209
2. Scheduled for TES (Originator) Semimonthly Report No. February
3. Responsive to PG&E Technical Program: Task            (if applicable)
4. Prepared as a result of:
- a. ☐ QA Audit and Review Report of
  - 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:

AFS Terminal Boxes BTA 308, BTH 110, BTH 115.

6. Description of Concern:

Apparent violation of separation criteria.

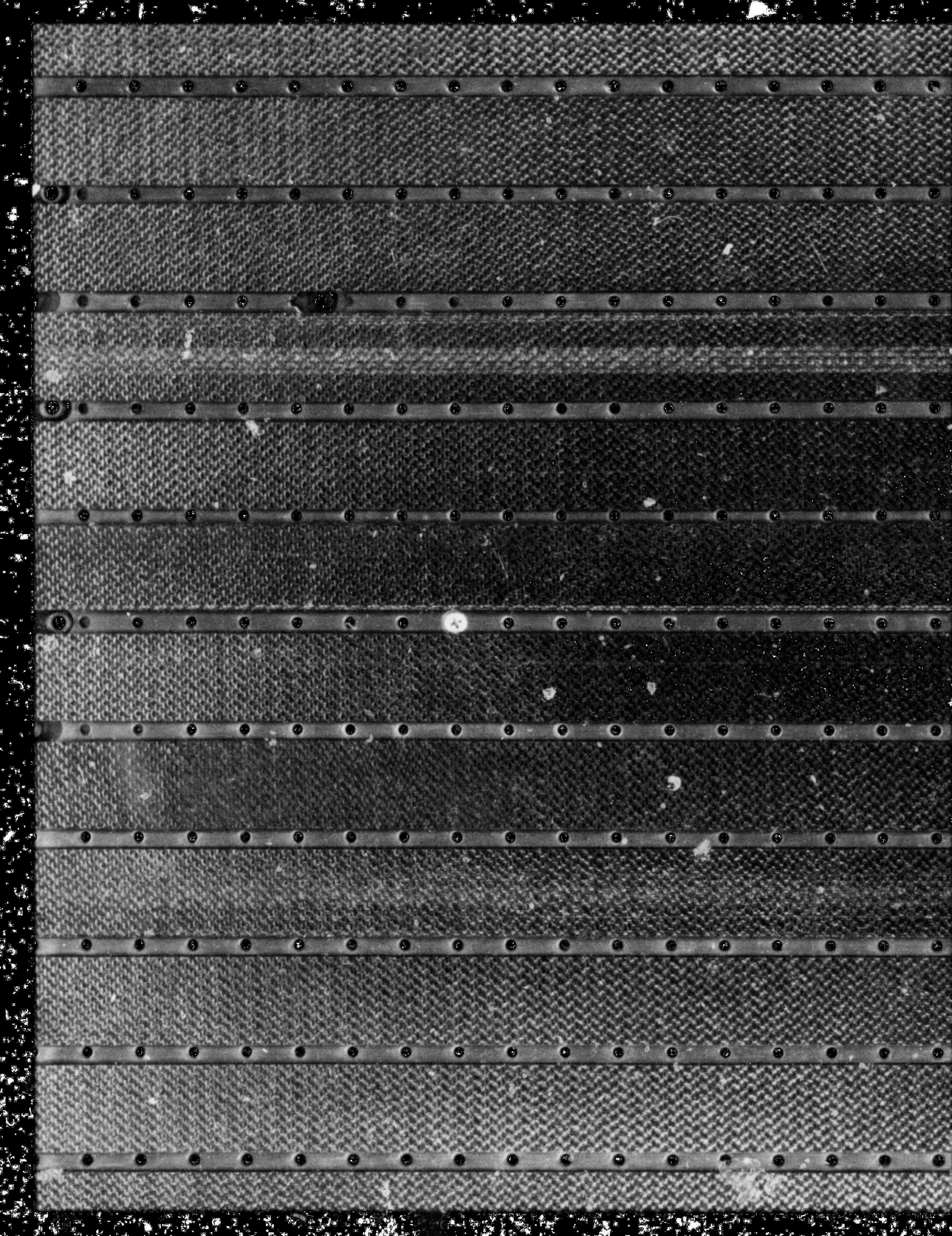
7. Significance of Concern:

Possible loss of redundant circuits due to a single failure.

8. Recommendation:

SWEC to review PGandE response (Ref. PGandE Completion Sheet, IDVP File No. 8043, Revision 4, signed 830124) and provide recommendation for future disposition.

9. Signature: J.R. Cragin for WEC <sup>830209</sup> (Originator/Organization)



OPEN ITEM REPORT

File No. 8045

File Revision No. 5

SWEC 830124

1. Date reported to PG&E and ~~TES~~ SWEC (Originator) Semimonthly Report No. February
2. Scheduled for TES (if applicable)
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

Diesel Generator Control and 125 VDC Reliability.

6. Description of Concern:

Refer to Open Item Report EOI 8045, Revision 2.

7. Significance of Concern:

Refer to Revision 2.

8. Recommendation:

Based on the January 4, 1983 meeting and the DCP Completion Sheet IDVP File No. 8045, Revision 3, signed 821216, SWEC should evaluate this file and provide recommendation for future disposition.

9. Signature: W E Gage 830124 (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 8045

File Revision No. 7

1. Resolution of an: ☒ Open Item: ☐ Class        Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task
3. Date Reported to PG&E 830209
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

PGandE Completion Sheet, IDVP File No. 8045, signed 12-16-82 transmitted via DCVP-SWEC-271 dated 12-16-82.

SWEC has reviewed the PGandE documentation referenced above. The PGandE response is acceptable based on the following. Two different power circuits to one device are not mutually redundant circuits and do not require separation. As a result of the protective devices used, failure at the control circuit for Diesel Generator 11 results in the loss of Diesel Generator 11, but because of breaker trips, does not disable DC panels, SD12 and SD13, nor Diesel Generators 12 and 13. A similar situation exists for the control circuits for Diesel Generators 12 and 13.

6. Program Resolution is:

The IDVP concurs with the resolution based on the following:

- A. The circuits are not mutually redundant
- B. Protective devices isolate control panels and the Diesel Generators resulting in availability of redundant generating capability in the event of a single failure.

Therefore this item will be closed.

7. Potential Program Resolution  
Report signed by Frank Sestak (SWEC) on 830203
8. Signature: J. J. Craig for W. E. Cooper 830209 (Approved/Program Manager)  
Date

File No. 8045  
File Revision No. 8

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 7 is a Program Resolution report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No.       , which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: J. B. Craig for W. E. Cooper 830209  
Approved/Program Manager

PROGRAM RESOLUTION REPORT

File No. 8048

File Revision No. 5

1. Resolution of an: ☒ Open Item: ☐ Class \_\_\_\_\_ Error \_\_\_\_\_
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task \_\_\_\_\_
3. Date Reported to PG&E 830211
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

PGandE Resolution Sheet, IDVP File No. 8048, Revision 2, signed 821204.

6. Program Resolution is:

Based on the contents of this Resolution Sheet, the IDVP has reviewed the existing installation including the check valve and finds it technically acceptable.

This file will be closed.

7. Potential Program Resolution  
Report signed by John Krechting (SWEC) on 830209  
Type Name/Organization Date
8. Signature: *John Krechting* 830211 (Approved/Program Manager)

File No. 8048  
File Revision No. 6

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 5 is a Program Resolution Report which reclassified this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: W.P. Goyne 830211  
Approved/Program Manager

OPEN ITEM REPORT

File No. 8051

SWEC

File Revision No. 3

1. Date reported to PG&E and ~~PG&E~~ 830124
2. Scheduled for TES (Originator) Semimonthly Report No. January
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_ (if applicable)
4. Prepared as a result of:
  - a. ☐ QA Audit and Review Report of \_\_\_\_\_
  - 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:

AFW - Pressure Transmitter PT432.

6. Description of Concern:

Discrepancy in safety classification (see 8051, Rev. 0).

7. Significance of Concern:

Possible improper equipment qualification.

8. Recommendation:

SWEC to review PGandE response (Reference PGandE Completion Sheet, IDVP File No. 8051, Rev. 1) and provide recommendation for future disposition.

9. Signature:  830124 (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 8053

File Revision No. 6

1. Resolution of an: ☒ Open Item: ☐ Class          Error
2. Independent Design Verification Program Resolution is as:
  - a. ☐ Closed Item
  - b. ☒ Deviation
  - c. ☐ Open Item with future action by PG&E: Task
3. Date Reported to PG&E 830209
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

DCVP-SWEC-260 dated December 1, 1982 from PGandE contained PGandE's resolution and completion package for File No. 8053, Revision 1.

PGandE responded that the incorrect design class designation for radiation monitors RM 51, 52, 53, 54 was attributable to a drafting error which will be corrected on a subsequent drawing issue. They further stated that in addition to being purchased as safety-related devices, the instruments have been installed, powered, and otherwise treated as Class IE devices. To substantiate this, DCN DCO-E-C-679 and Drawing 437970 Revision 8 were submitted.

SWEC has reviewed the PGandE documentation referenced above. The DCN which incorporated the radiation monitors into the CRVP system was identified as safety-related. The drawings by the electrical group which show the radiation monitors as Class IE were issued prior to the radiation monitor instrument schematic. Other than on instrument schematic 102931, sheet 12, Revision 7, there is no indication that these devices were treated other than Design Class I. Therefore, PGandE's response is satisfactory. The radiation monitors were purchased and installed to Design Class I criteria.

6. Program Resolution is:

IDVP concurs with the above resolution, however since a drafting error was revealed this item is reclassified as a Deviation. This item will be closed if no modifications are required.

7. Potential Program Resolution  
Report signed by John Krechting (SWEC) on 830121
8. Signature: J2Cra for WEC 830209 (Approved/Program Manager)

## OPEN ITEM REPORT

File No. 8061

SWEC

File Revision No. 4

830124

1. Date reported to PG&E and ~~TES~~ TES (Originator) Semimonthly Report No. February  
2. Scheduled for TES (Originator) Semimonthly Report No. February  
3. Responsive to PG&E Technical Program: Task            (if applicable)  
4. Prepared as a result of:

- a. ☐ QA Audit and Review Report of                       
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:

Motors as listed: FCV-37, 38, 436, 437, 438, 439, 440, 441; LCV-106, 107, 108, 109; MHF-9; MHH-8, CP-35, 36; CR-35, 36; MPD-1, 1A, 1B, 1C, 2, 2A, 3, 3A, 7, 7A, 8, 8A; S-35, 36, 39, 40, 98, 99

6. Description of Concern:

Documentation is required to verify the capability of the motors listed to start and perform their function with 80% rated voltage (368V for 460V motors and 3200V for 4KV motors) applied at their terminals. (The 80% motor starting commitment was stated in PGandE letter to NRC dated October 3, 1977, response to question 1-C).

7. Significance of Concern:

Motors required to start at voltages less than rated starting voltage, may require excessive time to accelerate to full load speed. This may cause over current trip of protective relays.

8. Recommendation:

DCP to provide documentation verifying motor's capability to start and accelerate to full-load speed at 80% of rated voltage. Documentation should be the purchase specification specifying 80% start capability and a statement from vendor showing his compliance with the purchase specification.

9. Signature: W E Cooper 830124 (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 8061

File Revision No. 6

1. Resolution of an: ☐ Open Item: ☒ Class B Error
2. Independent Design Verification Program Resolution is by:
  - a. ☐ Closed Item
  - b. ☐ Deviation
  - c. ☒ Open Item with future action by PG&E: Task 830209
3. Date Reported to PG&E February
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

Documentation is required to verify the capability of the motors listed below to start and perform their function with 80% rated voltage (368V for 460V motors and 3200V for 4KV motors) applied at their terminals. (The 80% motor starting commitment was stated in PGandE letter to NRC dated October 3, 1977, response to question 1-C).

Motors: FCV-37, 38, 436, 437, 438, 439, 440, 441; LCV-106, 107, 108, 109; MHF-9; MHH-8; CP-35, 36; CR-35, 36; MPD-1, 1A, 1B, 1C, 2, 2A, 3, 3A, 7, 7A, 8, 8A; S-35, 36, 39, 40, 98, 99.

6. Program Resolution is:

DCP to provide documentation verifying motor's capability to start and accelerate to full-load speed at 80% of rated voltage. Documentation should be the purchase specification specifying 80% start capability and a statement from vendor showing his compliance with the purchase specification.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830208 Date
8. Signature: J2 Craig for WEC 830209 (Approved/Program Manager)

OPEN ITEM REPORT

File No. 8063

File Revision No. 5

1. Date reported to PG&E and ~~XXX~~ <sup>SWEC</sup> 830209  
2. Scheduled for TES (Originator) Semimonthly Report No. February  
3. Responsive to PG&E Technical Program: Task \_\_\_\_\_ (if applicable)  
4. Prepared as a result of:  
a. ☐ QA Audit and Review Report of \_\_\_\_\_  
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:

AFW Pumps 12 and 13.

6. Description of Concern:

Overcurrent relay settings.

7. Significance of Concern:

Inadvertant trip at 90% voltage.

8. Recommendation:

SWEC to review PGandE response (Ref. PGandE Completion Sheet, IDVP  
File No. 8063, Revision 4, dated 830127) and provide recommendation  
for future disposition.

9. Signature: J2 Craig for W.E. Cooper <sup>830209</sup> (Originator/Organization)

ERROR REPORT

Class: C  
A,B,C or D

File No. 9002

File Revision No. 2

PG&E Task No. \_\_\_\_\_

1. Dates: Reported to Program Review Committee  
Program Review Committee Action  
Reported to PG&E and Originator  
2. Scheduled for TES Semimonthly Report No. February,  
3. Structure(s), system(s), or component(s) involved: NA  
NA  
830209

BMI Supports.

4. Description of Error:

Weld length on several bars (supports 10 and 11) were noted to have less than the length required by Dwg. 443248-2.

5. Significance of Error:

That an overstress condition could exist based on a reduced weld area.

Based on additional information shown as an attachment A to PGandE Completion Sheet, IDVP File No. 9025, Revision 0, is concluded that there is no safety significance regarding this item.

6. Recommendation:

To close this file and issue an IDVP Completion Report.

7. Potential Error Report signed by Frank Sestak (SWEC) on 830204  
Type Name/Organization Date  
2. P. Boyle 830209  
8. Signatures: NA Approved/Program Manager  
For Program Review Committee

File No. 9002  
File Revision No. 3

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☐ File Revision No. \_\_\_\_\_ is a Program Resolution Report which recategorized this item as a Closed Item.

☒ Based on additional information provided by PGandE PGandE Completion Sheet, IDVP File No. 9025, Rev. 0, signed 830109 the Findings Review Committee has recommended and the IDVP has considered that the resolution is in compliance with established criteria. No physical modifications are required.

2. Signature: *R. E. Brown* 830209  
Approval/Program Manager

ERROR REPORT

Class: C  
A,B,C or D

File No. 9003

File Revision No. 2

PG&E Task No. \_\_\_\_\_

1. Dates: Reported to Program Review Committee NA  
Program Review Committee Action NA  
Reported to PG&E and Originator 830117
2. Scheduled for TES Semimonthly Report No. February
3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

BMI Tubing.

4. Description of Error:

All fillet welds at seal table do not meet the fabricator (Wisner-Becker) weld procedure (leg dimension of  $1\frac{1}{4} \times T_1$  where  $T_1$  is  $\frac{3}{16}$  or  $\frac{5}{16}$ ; instead the actual leg is approximately  $\frac{1}{8}$ "), but do meet the design requirements (Westinghouse drawings require a .12 fillet weld).

5. Significance of Error:

There is no safety significance addressed in this file.

6. Recommendation:

To close this file and issue an IDVP Completion Report.

7. Potential Error Report signed by C. D. Lundin (SWEC) on 830112  
Type Name/Organization Date
8. Signatures: NA [Signature] 830117  
For Program Review Committee Approved/Program Manager

File No. 9003  
File Revision No. 3

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☐ File Revision No. \_\_\_\_\_ is a Program Resolution Report which recategorized this item as a Closed Item.

☒ Based on additional information provided by PGandE PGandE Completion Sheet IDVP File No. 9003, Rev. 0, signed 821208 the Findings Review Committee has recommended and the IDVP has considered that the resolution is in compliance with established criteria. No physical modifications are required.

2. Signature: W. E. Coyne 830117  
Approval/Program Manager

ERROR REPORT

Class: C  
A, B, C or D

File No. 9004

File Revision No. 2

PG&E Task No. \_\_\_\_\_

1. Dates: Reported to Program Review Committee  
Program Review Committee Action  
Reported to PG&E and Originator  
2. Scheduled for TES Semimonthly Report No. February,  
3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

NA

NA

830117

BMI Tubing.

4. Description of Error:

Westinghouse drawings require thimble guide tubes to be UT inspected on the longitudinal and shear mode.

CMTR's and Ultrasomic Test Records do not identify subject tubes as being UT tested in the longitudinal mode.

This tubing was specified, purchased and supplied by Westinghouse. This tubing purchase order requires longitudinal and shear UT inspection.

5. Significance of Error:

Based on additional information, shown on the PGandE Completion Sheet IDVP File NO. 9004 Revision 0 signed 821208, it is concluded that there is no error.

6. Recommendation:

To close this file and issue an IDVP Completion Report.

7. Potential Error Report signed by C. D. Lundin (SWEC) on 830112  
Type Name/Organization NA Date 830117  
8. Signatures: NA 2 E Gax  
For Program Review Committee Approved/Program Manager

File No. 9004  
File Revision No. 3

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☐ File Revision No. \_\_\_\_\_ is a Program Resolution Report which recategorized this item as a Closed Item.

☒ Based on additional information provided by PGandE PGandE Completion Sheet IDVP File No. 9004, Rev. 0, signed 821208 the Findings Review Committee has recommended and the IDVP has considered that the resolution is in compliance with established criteria. No physical modifications are required.

2. Signature: *N. E. Googan* 830117  
Approval/Program Manager

PROGRAM RESOLUTION REPORT

File No. 9005

File Revision No. 2

1. Resolution of an: ☒ Open Item: ☐ Class        Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task
3. Date Reported to PG&E 830117
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

PGandE Completion Sheet IDVP File No. 9005 Revision 0 signed 821208.

Based on additional information shown on the above described Completion Sheet, the original Potential Finding Report was cancelled by the Construction QA Evaluation Team at the plant.

6. Program Resolution is:

To close this file and issue an IDVP Completion Report.

7. Potential Program Resolution Report signed by C. D. Lundin (SWEC) on 830112  
Type Name/Organization Date
8. Signature: W. E. Goy 830117 (Approved/Program Manager)

File No. 9005  
File Revision No. 3

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 2 is a Program Resolution Report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: *NE Cogan* 830117  
Approved/Program Manager

ERROR REPORT

Class: C  
A, B, C or D

File No. 9008

File Revision No. 2

PG&E Task No. \_\_\_\_\_

1. Dates: Reported to Program Review Committee \_\_\_\_\_  
Program Review Committee Action \_\_\_\_\_  
Reported to PG&E and Originator 830117
2. Scheduled for TES Semimonthly Report No. February ,
3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

Reactor Containment.

4. Description of Error:

Concrete surface finish does not meet specification requirements.  
The surface blemishes are superficial and of no structural concern.

5. Significance of Error:

There is no safety significance addressed in this file.

6. Recommendation:

To close this file and issue an IDVP Completion Report.

7. Potential Error Report signed by C. D. Lundin (SWEC) on 830112  
Type Name/Organization Date

8. Signatures: NA  
For Program Review Committee 2/1/83 Approved Program Manager  
Date 830117

File No. 9008  
File Revision No. 3

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☐ File Revision No. \_\_\_\_\_ is a Program Resolution Report which recategorized this item as a Closed Item.

☒ Based on additional information provided by PGandE PGandE Completion Sheet IDVP File No. 9008, Rev. 0, signed 821208 the Findings Review Committee has recommended and the IDVP has considered that the resolution is in compliance with established criteria. No physical modifications are required.

2. Signature: *Z. E. Coyle* 830117  
Approval/Program Manager

PROGRAM RESOLUTION REPORT

File No. 9009

File Revision No. 2

1. Resolution of an: ☒ Open Item: ☐ Class        Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&L: Task
3. Date Reported to PG&E 830117
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

PGandE Completion Sheet IDVP File NO. 9009 Revision 0 signed 821208.

Based on additional information shown as an attachment to the above described Completion Sheet, the original Potential Finding Report was cancelled by the Construction QA Evaluation Team at the plant.

6. Program Resolution is:

To close this file and issue an IDVP Completion Report.

7. Potential Program Resolution Report signed by C. D. Lundin (SWEC) on 830112  
Type Name/Organization Date
8. Signature: [Signature] 830117 (Approved/Program Manager)

File No. 9009  
File Revision No. 3

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 2 is a Program Resolution Report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: W S Coyle 830117  
Approved/Program Manager

PROGRAM RESOLUTION REPORT

File No. 9010

File Revision No. 2

1. Resolution of an: ☒ Open Item: ☐ Class        Error
2. Independent Design Verification Program Resolution is as:
  - a. ☒ Closed Item
  - b. ☐ Deviation
  - c. ☐ Open Item with future action by PG&E: Task
3. Date Reported to PG&E 830117
4. Scheduled for TES Semimonthly Report No. February
5. Resolution based on the following documentation:

PG&E Completion Sheet IDVP File No. 9010 Revision 0 signed 821208.

Based on additional information shown on the above described Completion Sheet, the original Potential Finding Report was cancelled by the Construction QA Evaluation Team at the plant.

6. Program Resolution is:

To close this file and issue an IDVP Completion Report.

7. Potential Program Resolution Report signed by C. D. Lundin (SWEC) on 830112  
Type Name/Organization Date
8. Signature: NE Corp 830117 (Approved/Program Manager)

File No. 9010  
File Revision No. 3

IDVP COMPLETION REPORT

The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

☒ File Revision No. 2 is a Program Resolution Report which recategorized this item as a Closed Item.

☐ The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. \_\_\_\_\_, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is \_\_\_\_\_.

2. Signature: WE Cooper 830117  
Approved/Program Manager

ERROR REPORT  
Class: C  
A,B,C or D

File No. 9011  
File Revision No. 2  
PG&E Task No. \_\_\_\_\_

1. Dates: Reported to Program Review Committee NA  
Program Review Committee Action NA  
Reported to PG&E and Originator 830117  
2. Scheduled for TES Semimonthly Report No. February,  
3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

NSSS.

4. Description of Error:

Requirements of specification 8752, Installation of Nuclear Supply Systems (page 3.20 para. 7.41) were not met for several defined welds.

5. Significance of Error:

Violation of specification requirements.

Additional information shown as an attachment to PGandE Completion Sheet IDVP File NO. 9011 Revision 0 signed 821208 indicates that:

1. The visual examinations for the RC welds were performed by Wismer-Becker personnel as part of their procedure 3500-30.
2. The visual examinations for the seal leak detection tubing welds were performed by Wismer-Becker personnel as part of the hydro test when the welds were examined for leakage.

It is concluded that there is no safety significance regarding this item.

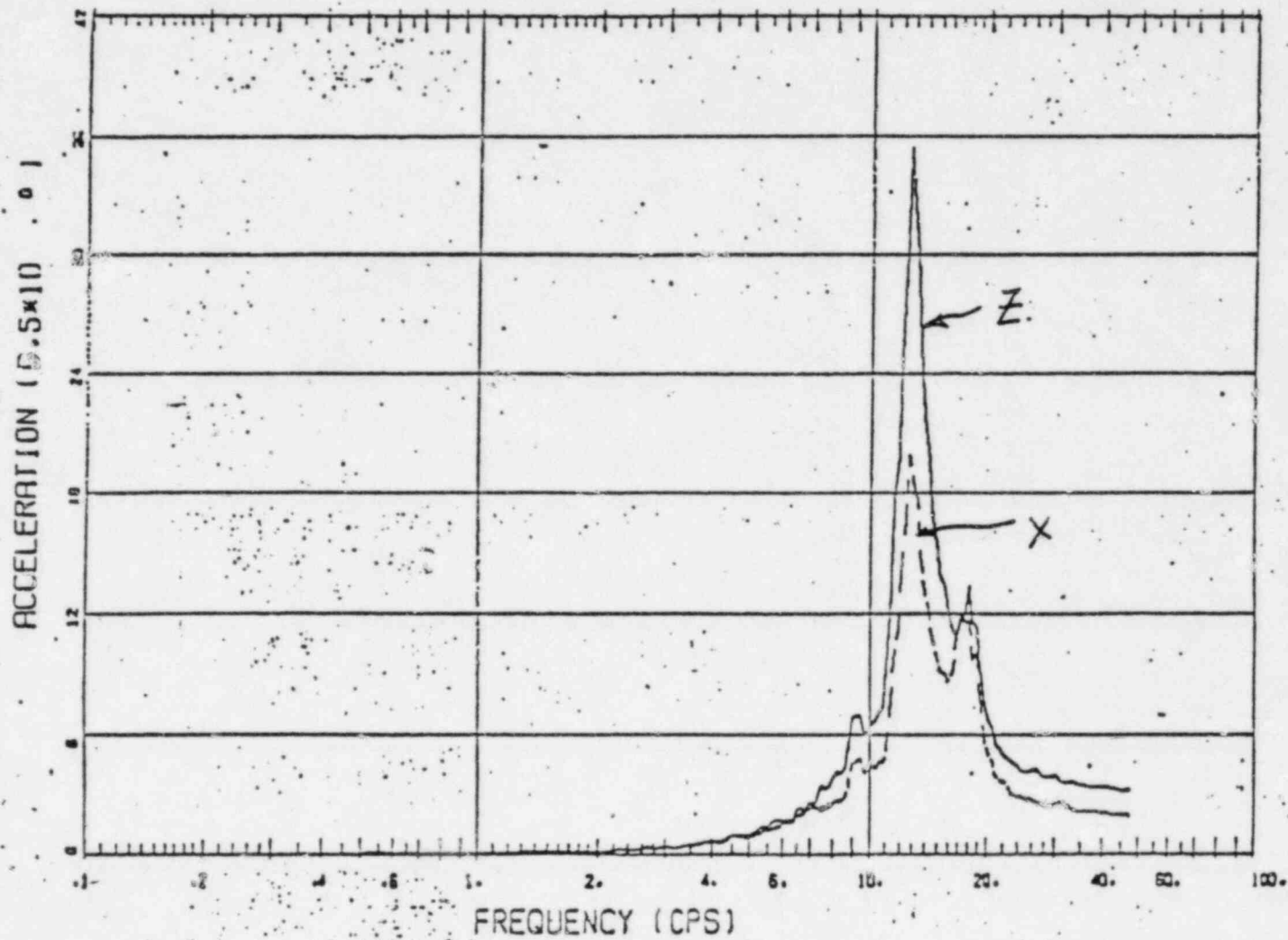
6. Recommendation:

To close this file and issue an IDVP Completion Report.

7. Potential Error Report signed by C. D. Lundin (SWEC) on 830112  
Type Name/Organization NA Date 830117  
8. Signatures: NA 28 Gay  
For Program Review Committee Approved/Program Manager

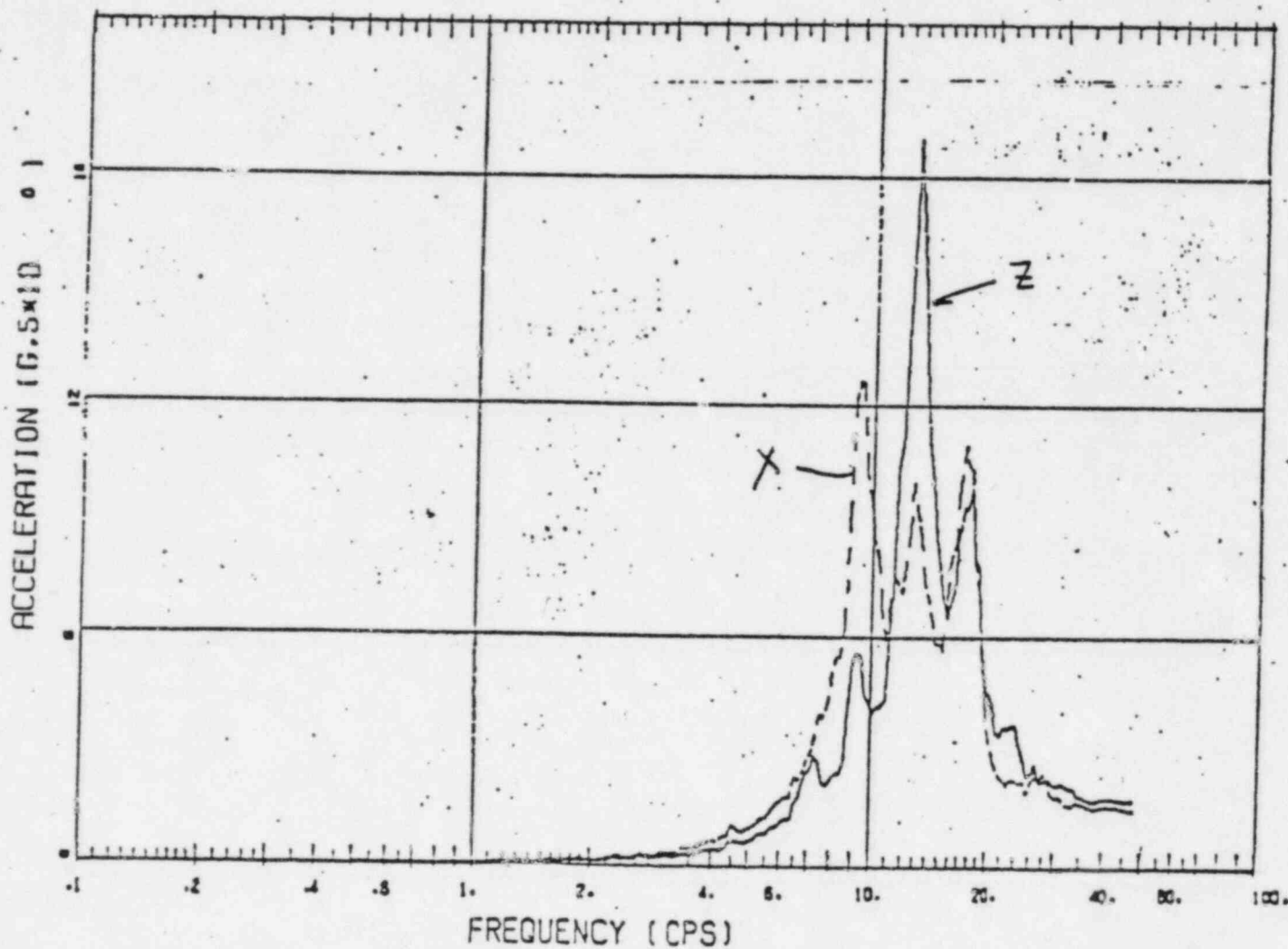
FLOOR 1

EQUIPMENT DAMPING = 2.0 PERCENT



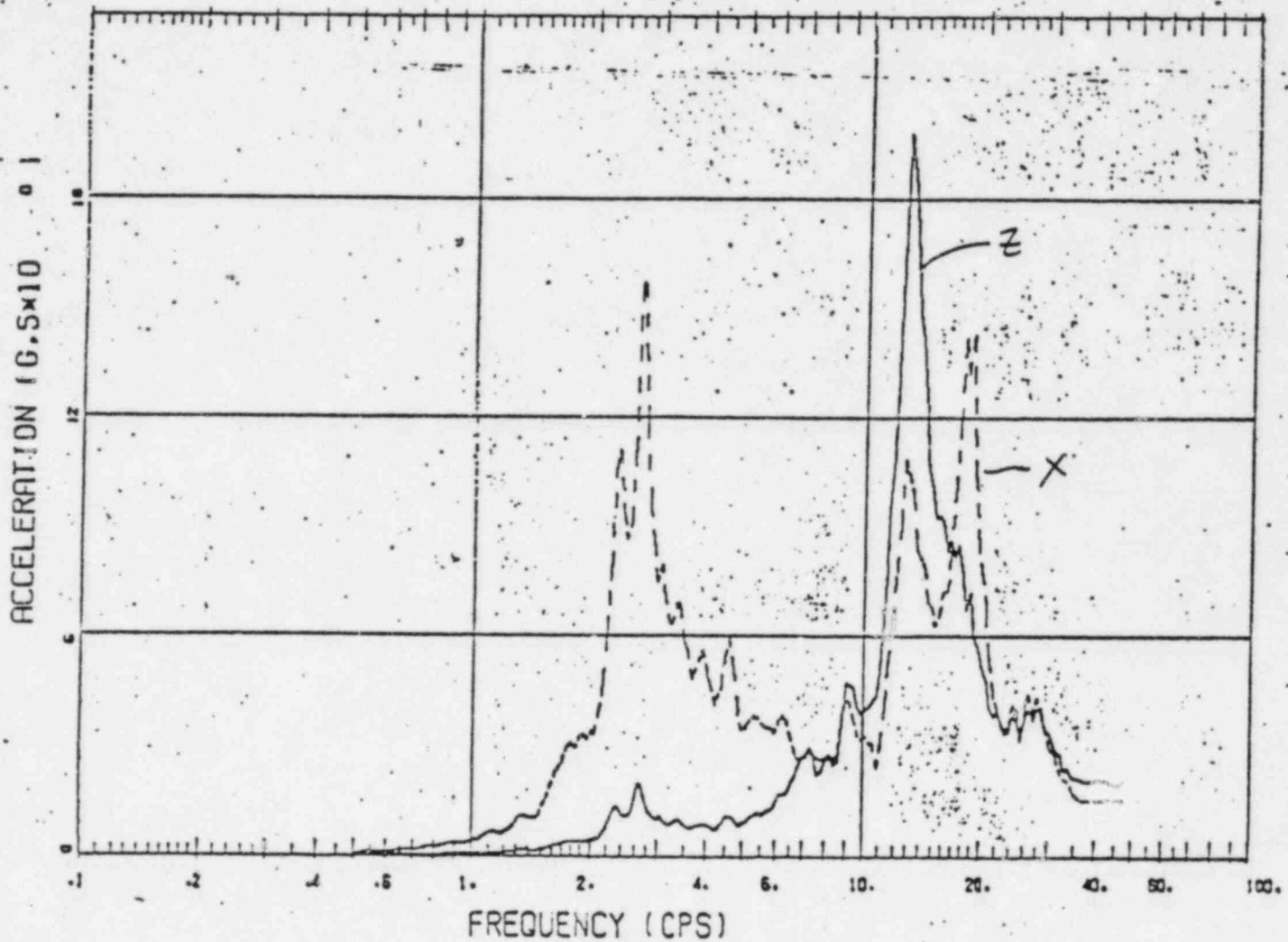
FLOOR 2

EQUIPMENT DAMPING = 2.0 PERCENT



FLOOR 3

EQUIPMENT DAMPING = 2.0 PERCENT



FLOOR 4

EQUIPMENT DAMPING = 2.0 PERCENT

