

DIABLO CANYON NUCLEAR POWER PLANT  
INDEPENDENT DESIGN VERIFICATION PROGRAM  
SEMIMONTHLY REPORT  
TES - SM - APRIL  
APRIL 8, 1983

**UNCONTROLLED COPY**

PREPARED BY:  
TELEDYNE ENGINEERING SERVICES  
IDVP PROGRAM MANAGER

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TES SEMIMONTHLY REPORT

APRIL 8, 1983

This document includes, in numerical order, all Open Item Report System Forms issued by TES since our Second Friday Semimonthly Report of March 11, 1983.

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.



ERROR REPORT

File No. 1002

Class: C  
A,B,C or D

File Revision No. 8

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

- 1. Dates: Reported to Program Review Committee NA  
 Program Review Committee Action NA  
 Reported to PG&E and Originator 830322
- 2. Scheduled for TES Semimonthly Report No. April
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

HVAC Components

4. Description of Error:

EOI 1002, Revision 0: Calculations for Supply Fans S67, 68, and 69 were found to have used incorrect and unconservative seismic inputs. In addition, the forced draft shutter damper qualification showed incorrect seismic definition because gravity had not been added to the vertical acceleration.

5. Significance of Error:

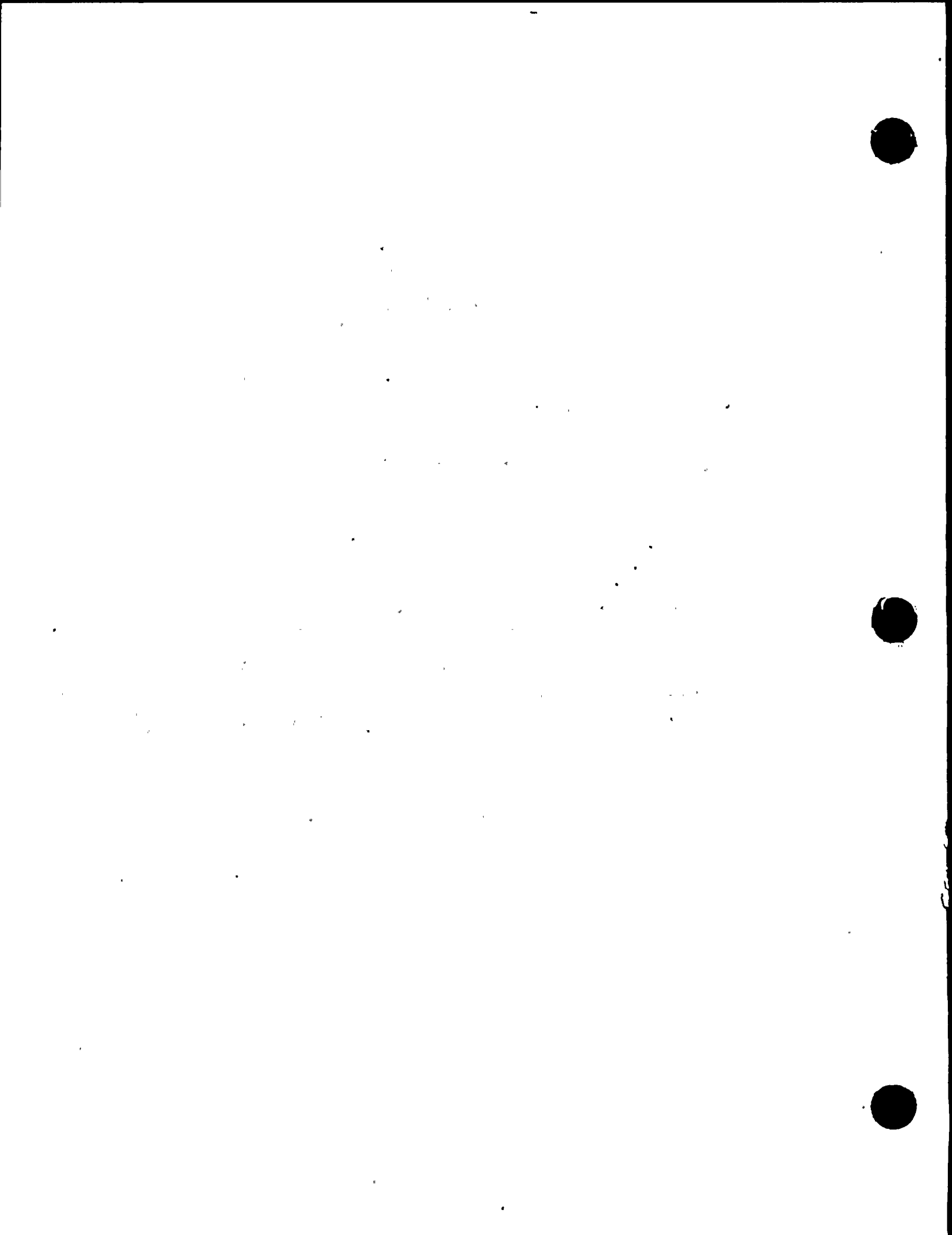
This file dealt with the use of inapplicable spectra, however calculated stresses using current seismic inputs and definitions did not exceed the allowables. Therefore, this file should have been categorized as an Error C.

6. Recommendation:

The Error B established by Revision 1 to this file is downgraded to an Error C.

7. Potential Error Report signed by E. Denison (RLCA) on 830310

8. Signatures: NA W. W. [Signature]  
For Program Review Committee Approved/Program Manager 830322



File No. 1002  
File Revision No. 9

IDVP COMPLETION REPORT

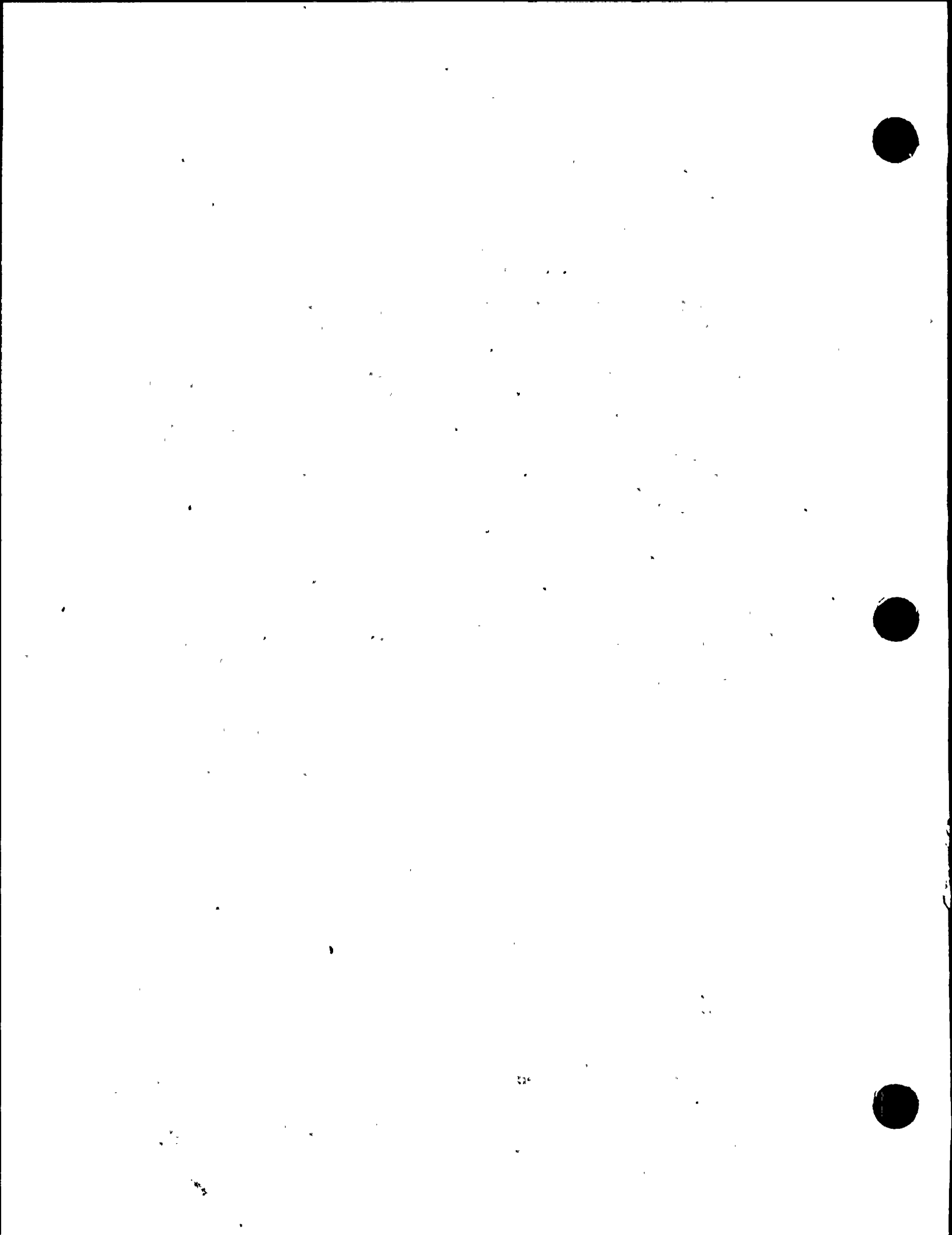
The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

File Revision No. \_\_\_\_\_ 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. ~~XXXXXXXXXXXX~~ File Revision No. 8, ~~XXXXX~~ reclassified this item as ~~XXXXXXXXXXXX~~ as a Class C ~~XXXXXXXXXX~~ Error. The PG&E document so informing the IDVP ~~X~~ of no modifications is PGandE Completion Sheet (R. R. Fray 7/15/82)

2. Signature: *R. Wray for W. T. Cooper* 830322  
Approved/Program Manager





ERROR REPORT

File No. 1088

Class: C  
A,B,C or D

File Revision No. 7

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

- 1. Dates: Reported to Program Review Committee NA  
 Program Review Committee Action NA  
 Reported to PG&E and Originator 830407
- 2. Scheduled for TES Semimonthly Report No. \_\_\_\_\_
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

Component Cooling Water Heat Exchanger (CCW HX)

4. Description of Error:

The IDVP results differ from those in the design analysis by more than 15%. The following were observed in the design analysis.

- a. The as-built support configuration was not used to generate the seismic loads.
- b. End moments on the pipe strut were not considered in the evaluation of struts.
- c. Nozzle loads were not included in the evaluation of the entire support structure and shell.
- d. The expansion anchor bolts were not evaluated for shear loads and the additional uplift due to the pipe strut end moments.
- e. The nozzle to shell junction analysis did not transfer loads from the end of the nozzle to the nozzle-shell interface.
- f. Seismic nozzle loads were considered as signed loads and algebraically summed.
- g. The effect of additional load produced by the constraint of the attached piping during heat exchanger seismic inertial movement was not considered.

Of the items listed above, only (a), (c), (e), (f) and (g) lead to Class C Error.

5. Significance of Error:

Independent analysis shows all loads and stresses to be below allowables.

6. Recommendation:

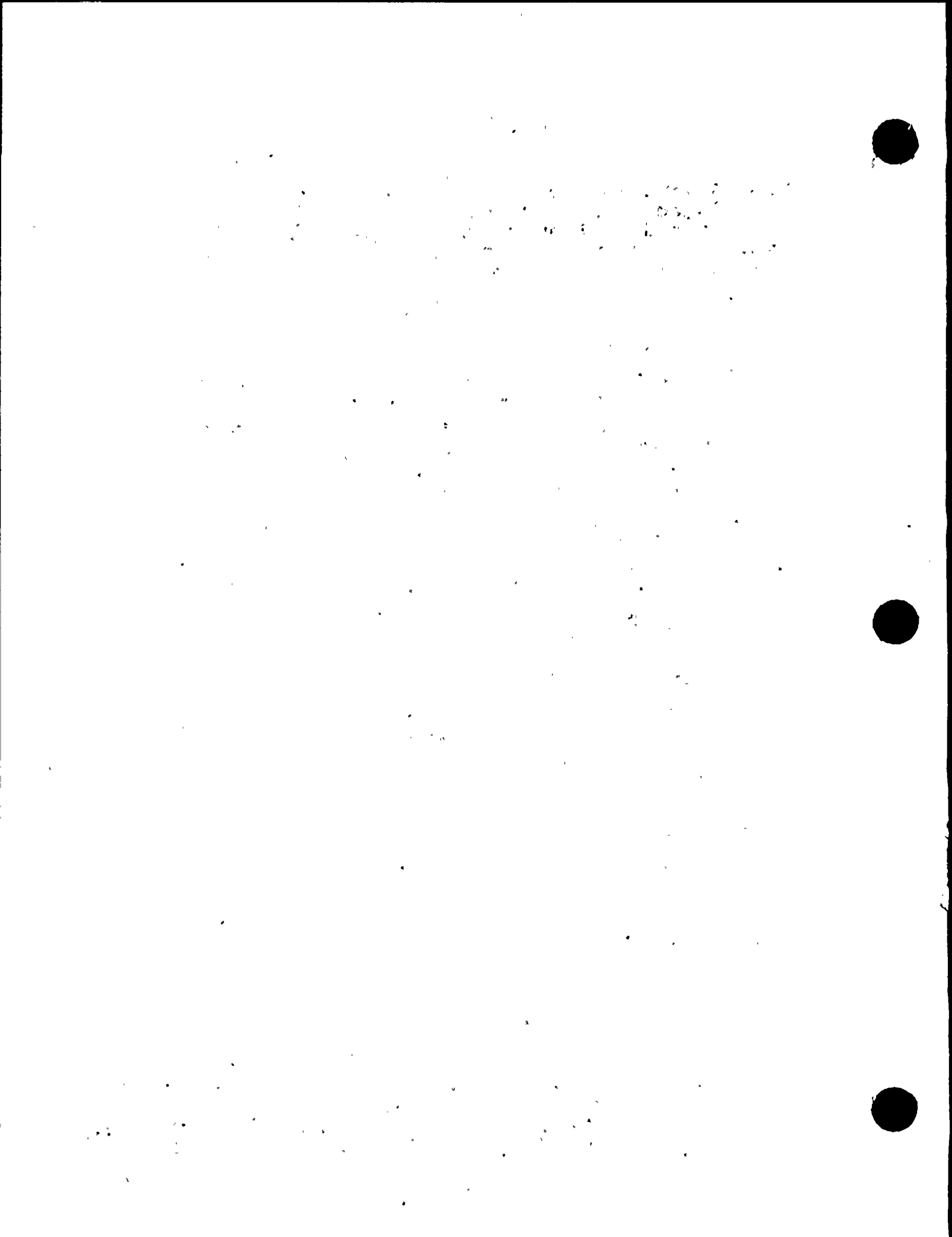
Error Class C.

7. Potential Error Report signed by E. Denison/RLCA on 830325

Type Name/Organization Date

8. Signatures: NA  
For Program Review Committee

P. Whay for W.C. Lopez 830407  
Approved Program Manager



OPEN ITEM REPORT

File No. 1103

RLCA

File Revision No. 6

1. Date reported to PG&E and ~~XXX~~ 830406
2. Scheduled for TES (Originator) Semimonthly Report No. April
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 dated 830314
5. Structure(s), system(s) or component(s) involved:

Pipe Supports.

6. Description of Concern:

Pipe supports 18/1SL, 18/4R, 10/2SL, 10/1SL and 5/10R are attached to rupture restraints, steel plate, and building structural steel. Concern is that local pipe supports are addressed in the qualification of the supporting steel.

PGandE considers all supplementary steel between the piping and the building structure for the 20 Hz. criteria. Rupture restraints are considered rigid in the rupture restraint line of action.

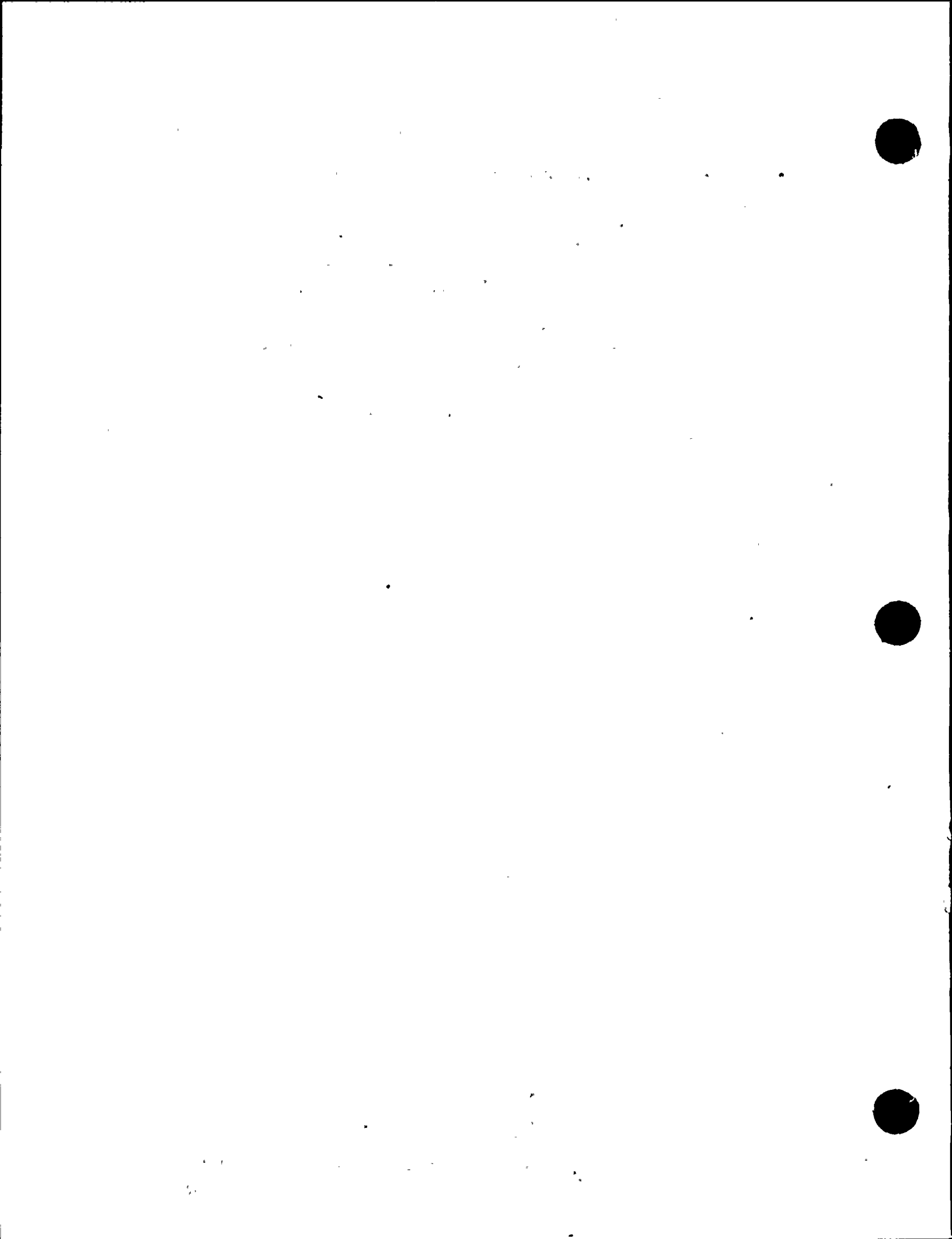
File revision 5 was issued for purpose of requesting DCP procedure for evaluating support flexibility transverse to rupture restraint's principle axis.

7. Significance of Concern:

8. Recommendation:

RLCA to review DCP's response in Completion Sheet dated 830314 and recommend a Potential Program Resolution.

9. Signature: W. E. Conroy 830406 (Originator/Organization)



PROGRAM RESOLUTION REPORT

File No. 1107

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 830314
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

RLCA has reviewed the revised DCP analysis 7-103, Revision 0. This analysis includes two valves on line 3488 vent lines and an SIF of 2.1 for socket welded connections. The two deadweight supports on line 4259 were not modeled as rigid vertical supports.

All concerns noted as a result of RLCA Piping Sample 110 have been addressed by the revised DCP analysis.

6. Program Resolution is:

Open Item with future action by PG&E.

RLCA will verify modifications following installation.

7. Potential Program Resolution Report signed by Edward Denison/RLCA on 830311  
Type Name/Organization Date
8. Signature: *Edward Denison for U.E. Company* 830314 (Approved/Program Manager)  
Date



PROGRAM RESOLUTION REPORT

File No. 1108

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 830317
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

RLCA Piping Sample 110 (Additional 5 lines) Design Analysis 7-1, Revision 5.

The design analysis (pre 11/30/81) does not consider movements at the attachment of the RTD lines to the Reactor Coolant System.

The PG&E Phase I Final Report commits to inclusion of DE movements in piping stress analysis and DE, DDE and Hosgri movements in support loads.

6. Program Resolution is:

The licensing criteria does not require inclusion of reactor coolant system movements for the analysis of small bore piping.

The PG&E Phase I Final Report commitment will be reviewed by the IDVP in their review of DCP Corrective Action.

7. Potential Program Resolution Report signed by Edward Denison/RLCA on 830314  
Type Name/Organization Date
8. Signature: *Edward Denison* (Approved/Program Manager)  
830317





File No. 1108

File Revision No. 7

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. 6 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* 830317

Approved/Program Manager



File No. 1110  
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. \_\_\_\_\_ 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. 2. File Rev. 5 recatagorized this item as a Class C Error.  
~~XXXXXXXXXXXX XXXXX~~ The PG&E document so informing the IDVP is DCP Completion Sheet (R. R. Fray) 2/11/83.

2. Signature: *W E Gray* 830318  
Approved/Program Manager



File No. 1114  
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.

The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. 2, which recategorized this item as ~~XXXXXXXXXXXXXXXXXXXX~~ a Class C ~~XXXXXXXXXX~~ Error. The PG&E document so informing the IDVP is DCP Completion Sheet, IDVP File No. 1114, R. R. Fray 830310.

2. Signature: *R. R. Fray for W. E. Cooper* 830314  
Approved/Program Manager



ERROR REPORT

File No. 1117

Class: C  
A, B, C or D

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. April, \_\_\_\_\_
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

N/A

830325

830325

Instrumentation Power AC Panel Boards

4. Description of Error:

The dynamic model of the panel in the design analysis is a simply supported beam with two equal concentrated masses symmetrically placed. However, the natural frequency calculation utilizes unconservative static deflections at the concentrated mass force locations. The deflection used at each location represents only the contribution produced by the mass force at that location and does not account for the contribution of the other mass. As a result, the calculated natural frequency is incorrect for the dynamic model considered.

The above error description was revised from File Revision 1 by Program Review Committee action on March 25, 1983 to help clarify the nature of the error.

5. Significance of Error:

Panel natural frequency calculated by IDVP using the correct formulation is greater than 33 Hertz.

6. Recommendation:

Error Class C.

- 7. Potential Error Report signed by Edward Denison/RLCA on 830316
- 8. Signatures: [Signature] 830325                      [Signature] 830326  
                   For Program Review Committee                      Approved/Program Manager





PROGRAM RESOLUTION REPORT

File No. 1118

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 830323
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

Electrical Equipment Qualified by Shake Table Testing (Mountings)  
Phase I Initial Sample (prior to 811130): 480 Volt Vital Load  
Center.

The above report notes the 480 Volt Vital Load Center attachment to  
the wall and floor at elevation 100 feet. Field verification shows  
the actual attachment to the ceiling at elevation 115 feet.

The ceiling attachment at elevation 115 feet may impose higher  
seismic response than were considered in the test.

6. Program Resolution is:

PGandE to evaluate situation and recommend resolution.

7. Potential Program Resolution  
Report signed by E. Denison (RLCA) on 830319
8. Signature: *NE Gage* 830323 (Approved/Program Manager)



OPEN ITEM REPORT

File No. 1118

RLCA

File Revision No. 3

1. Date reported to PG&E and ~~XDES~~ 830407
2. Scheduled for \_\_\_\_\_ (Originator) Semimonthly Report No. April
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 dated 4/6/83
5. Structure(s), system(s) or component(s) involved:

Electrical Equipment Qualified by Shake Table Testing (mountings)  
Phase I Initial Sample (prior to 11/30/81): 480 Volt Vital Load Center

6. Description of Concern:

The Shake Table Testing Report notes the 480 Volt Vital Load Center attachment to only the wall and floor at elevation 100 feet. Field verification shows attachment to the ceiling at elevation 115 feet.

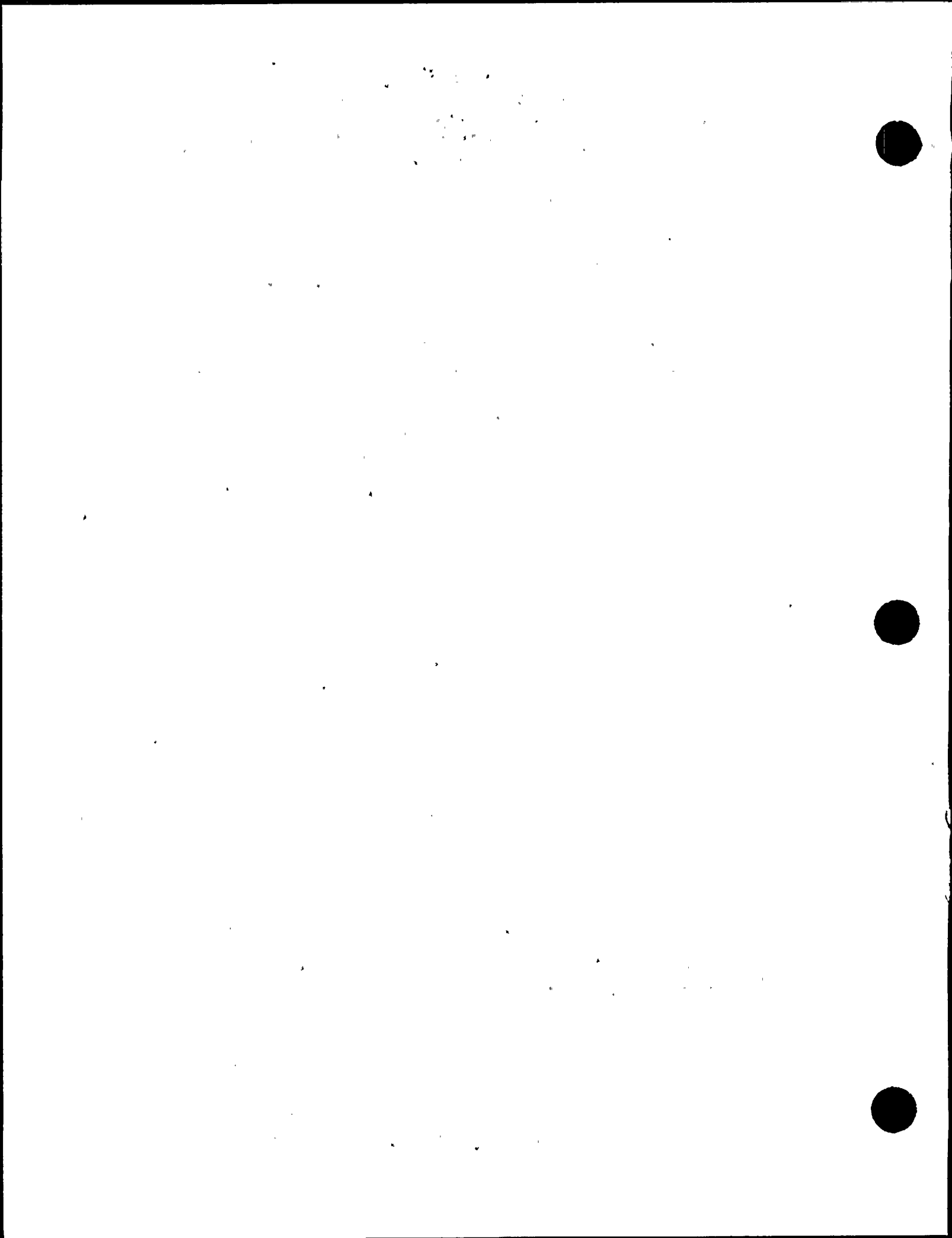
7. Significance of Concern:

The ceiling attachment at elevation 115 feet may impose higher seismic responses in the EW direction than were considered in the test.

8. Recommendation:

RLCA to evaluate response in DCP Completion Sheet dated 4/6/83 and decide whether file can be resolved.

9. Signature: *R. Wray for W. E. Cooper* (Originator/Organization)



ERROR REPORT

File No. 1119

Class: C  
A,B,C or D

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 830323
- 2. Scheduled for TES Semimonthly Report No. April
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

Electrical Equipment Qualified by Shake Table Testing (Mountings)  
Phase I Initial Sample (prior to 811130): DC Distribution Panel.

4. Description of Error:

The Hosgri Report Section 10.2.3 cites IEEE 344-1975 as the seismic testing criteria. IEEE 344-1975 Section 6.1.1 states "...The method of mounting the equipment to the shake table shall be documented and shall include a description of any interposing fixtures and connection. The effect of such fixtures and connections must be evaluated if they are only used during qualification and not for in-service mounting". For the DC Distribution Panel, the qualification mounting connections differed from the in-service mounting connections. In addition, the description of qualification mounting connections is not adequate to evaluate this difference on a comparison basis.

5. Significance of Error:

The DCP, in response to IDVP questions, has evaluated these differences by analyzing the in-service mounting connections and found these to meet the allowables.

6. Recommendation:

Since the original test did not adequately document the qualification mounting, the conservatism of the qualification mounting with respect to the in-service mounting can not be demonstrated. Additional DCP calculations have shown the in-service mounting to meet the allowables. Therefore, this is an Error Class C.

- 7. Potential Error Report signed by E. Denison (RLCA) on 830319  
 Type Name/Organization Date
- 8. Signatures: NA WCC  
 For Program Review Committee Approved/Program Manager 830323



ERROR REPORT

File No. 1120

Class: B  
A,B,C or D

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 830405
- 2. Scheduled for TES Semimonthly Report No. April
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

HVAC Components - Condensers CR-35.

4. Description of Error:

Design Analysis of these components (Project Package HV - 4.1) shows that the 3/4 inch exterior housing mounting bolts used in an earlier EDS Calculation (0170011-100.6) were accepted as correct in the Phase I DCP Corrective Action Program. IDVP field verification shows these bolts to be 1/2 inch.

5. Significance of Error:

The IDVP has factored the bolt stress in the Design Analysis by the difference in the bolt size (3/4 inch vs. 1/2 inch.) Resultant bolt stress exceeds the allowable.

However, The DCP has revised the Design Analysis as a result of IDVP field verification and is now able to show bolt stresses to be below the allowable.

6. Recommendation:

Error B

- 7. Potential Error Report signed by Edward Denison/RLCA on 830322
- 8. Signatures: \_\_\_\_\_  
 Type Name/Organization Date  
E.D. Denison 830405  
 For Program Review Committee Approved/Program Manager





OPEN ITEM REPORT

File No. 8012

SWEC File Revision No. 5

1. Date reported to PG&E and ~~XXX~~ SWEC 830311
2. Scheduled for TES (Originator) Semimonthly Report No. April
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:

Class 1 Portions of the CRVP Systems.

6. Description of Concern:

Refer to EOI 8012, Revision 0.

7. Significance of Concern:

Refer to EOI 8012, Revision 0.

8. Recommendation:

SWEC to review DCP response, IDVP File No. 8012, signed 830308 for future disposition.

9. Signature: *W E Cooper* 830311 (Originator/Organization)

*W E COOPER*  
-14-



ERROR REPORT

File No. 8012

Class: A  
A,B,C or D

File Revision No. 7

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

- 1. Dates: Reported to Program Review Committee NA  
 Program Review Committee Action NA  
 Reported to PG&E and Originator 830315
- 2. Scheduled for TES Semimonthly Report No. April ,
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

Class I Portions of the CRVP System.

4. Description of Error:

Refer to EOI File 8012, Revisions 3 and 6.

5. Significance of Error:

Refer to EOI 8012, Revisions 3 and 6.

6. Recommendation:

The DCP proposed resolution is acceptable for this file.  
Verification of the required modifications is required.

- 7. Potential Error Report signed by John Krechting (SWEC) on 830311  
 Type Name/Organization Date
- 8. Signatures: NA W E Cooper 830315  
 For Program Review Committee Approved/Program Manager  
W E COOPER



PROGRAM RESOLUTION REPORT

File No. 8013

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 830311
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:
  - (a) DCP Resolution Package, IDVP File No. 8013, signed 12/14/82, transmitted via DCVP-SWEC-270.
  - (b) Supplementary information (Manufacturer's Test Report, 77 pages) transmitted via DCVP-SWEC-306.
  - (c) PGandE Completion Package, File No. 8013, Revision 6, signed 2/8/83 transmitted via DCVP-SWEC-321.
  - (d) PGandE Supplement to Completion Package, signed 3/2/83 transmitted via DCVP-SWEC-368.
  - (e) Manufacturer's test summary dated January 29, 1972, DCVP-SWEC-89.
  - (f) PGandE Test Procedure 21.1, signed July 24, 1981, DCVP-SWEC-44.

6. Program Resolution is:

The Diesel Generators are acceptable based on the following:

The Diesel Generator manufacturer's test summary and the PGandE Test Procedure 21.1 together with additional test data and calculations provided by PGandE demonstrate the capability of the Diesel Generators to start and accelerate the required safety-related loads in the design sequence.

This file is downgraded from an ER/AB to a Deviation to more accurately reflect the significance of concern. The basis for the downgrading is that adequate performance of the Diesel Generators have been provided by test data and calculations.

This file will be closed since no modifications are required.

7. Potential Program Resolution  
Report signed by John Krechting (SWEC) on 830309
8. Signature: *W E Cooper* Type Name/Organization 830311 Date \_\_\_\_\_ (Approved/Program Manager)



File No. 8013

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. \_\_\_\_\_ 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. 9, which recategorized this item as ~~XXXXX~~ a Deviation ~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXX~~. The PG&E document so informing the IDVP is DCP Completion Sheet, IDVP File 8013, signed 830302.

2. Signature: *W.F. Cooper* W.F. COOPER 830311  
Approved/Program Manager





File No. 8014  
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. \_\_\_\_\_ 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. 9, which recategorized this item as ~~XXXXXX DEVIATION XXXXXXXX~~ a Class C ~~XXXXXXXXXX~~ Error. The PG&E document so informing the IDVP is DCP Resolution Sheet, IDVP File No. 8014, signed 830304.

2. Signature: *W. E. Casper* for WECASPER 830406  
Approved/Program Manager



PROGRAM RESOLUTION REPORT

File No. 8016

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 830328
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

DCP Completion Sheet, IDVP File 8016 signed 830210  
EOI File 8012  
EOI File 8016 - Revision 6, PER/B was considered by the Program Review Committee and the following resolution agreed to:

6. Program Resolution is:

This file is downgraded from an ER/A to a Closed Item for the following reasons:

- a. The concern of the CRVP System electrical power supply not satisfying the single failure criteria is corrected by the modifications being performed under EOI File 8012. These modifications will ensure adequate electrical redundancy for the CRVP System with or without Unit 2 licensed. This concern is transferred to EOI File 8012 and will be addressed in its resolution.
- b. The concern that power may not be available for the safe shutdown of the non-LOCA Unit (either Unit 1 or 2) is an issue after Unit 2 is licensed. However, since Unit 1 is affected by the subsequent licensing of Unit 2, this concern will be identified in the IDVP Final Report as an unresolved item for further consideration.
- c. The preparation of emergency procedures for the purpose of effecting safe shutdown of the non-LOCA unit was not a commitment of the original licensing document.

The basis for this downgrading is that the power supply inadequacy is resolved by modifications being performed in the resolution of EOI File 8012 and the safe shutdown concern will be addressed in the IDVP Final Report. No DCP action is required.

7. Potential Program Resolution Report signed by John Krechting/SWEC on 830310  
Type Name/Organization Date
8. Signature: N.S. Boyer 830328 (Approved/Program Manager)



PROGRAM RESOLUTION REPORT

File No. 8016

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 830328
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

EOI File Revision 7

6. Program Resolution is:

This file was downgraded from an ER/A to a Closed Item because the concerns identified by earlier revisions are resolved by modifications being performed in EOI 8012 and by including other concerns as part of the IDVP Final Report.

7. Potential Program Resolution Report signed by J. Krechting/SWEC on 830310  
Type Name/Organization Date
8. Signature: *W. G. Gage* 830328 (Approved/Program Manager)



File No. 8016

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: *[Handwritten Signature]* 830328  
Approved/Program Manager





PROGRAM RESOLUTION REPORT

File No. 8020

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 830323
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

DCP Completion Sheet, IDVP File No. 8020, signed 830307.

6. Program Resolution is:

Acceptable, since the DCP analysis demonstrates that for fires outside the Control Room envelope, the CRVP System can continue to operate to maintain Control Room habitability so as to accommodate a safe shutdown.

This file is classified as a Deviation, since the Supplementary Information for Fire Protection Review (SIFPR) did not include an evaluation of all CRVP system components required to maintain Control Room habitability during the safe shutdown of the reactor. This omission from the SIFPR represents a departure from standard procedure, but no physical modifications are required under this EOI because modifications to the CRVP system to be made under EOI 8012 will consider adequate separation of required circuits for fire protection.

This file will be closed after a field verification of the CRVP circuit routings.

7. Potential Program Resolution  
Report signed by John Krechting (SWEC) on 830315  
Type Name/Organization Date
8. Signature: *W.E. Boyer* 830323 (Approved/Program Manager)



File No. 8020

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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~XXXXX~~ a Deviation ~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXX~~. The PG&E document so informing the IDVP is DCP Completion Sheet, Revision 1, IDVP 8020, signed 830307.

2. Signature:

*DC [Signature]* for W.F. COOPER 830407

Approved/Program Manager



OPEN ITEM REPORT

File No. 8021

1. Date reported to PG&E and ~~R&E~~ SWEC 830316 File Revision No. 4
2. Scheduled for TES (Originator) Semimonthly Report No. April
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 Fire Protection.

6. Description of Concern:

Refer to EOI 8021, Revision 0.

7. Significance of Concern:

Refer to EOI 8021, Revision 0.

8. Recommendation:

SWEC to review DCP response, IDVP File No. 8021, signed 830202 for future disposition.

9. Signature: W.E. Payne 830316 (Originator/Organization)



OPEN ITEM REPORT

File No. 8021

SWEC File Revision No. 6

1. Date reported to PG&E and ~~XXX~~ SWEC 830323
2. Scheduled for TES (Originator) Semimonthly Report No. April
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 Fire Protection.

6. Description of Concern:

Refer to EOI 8021, Revision 0.

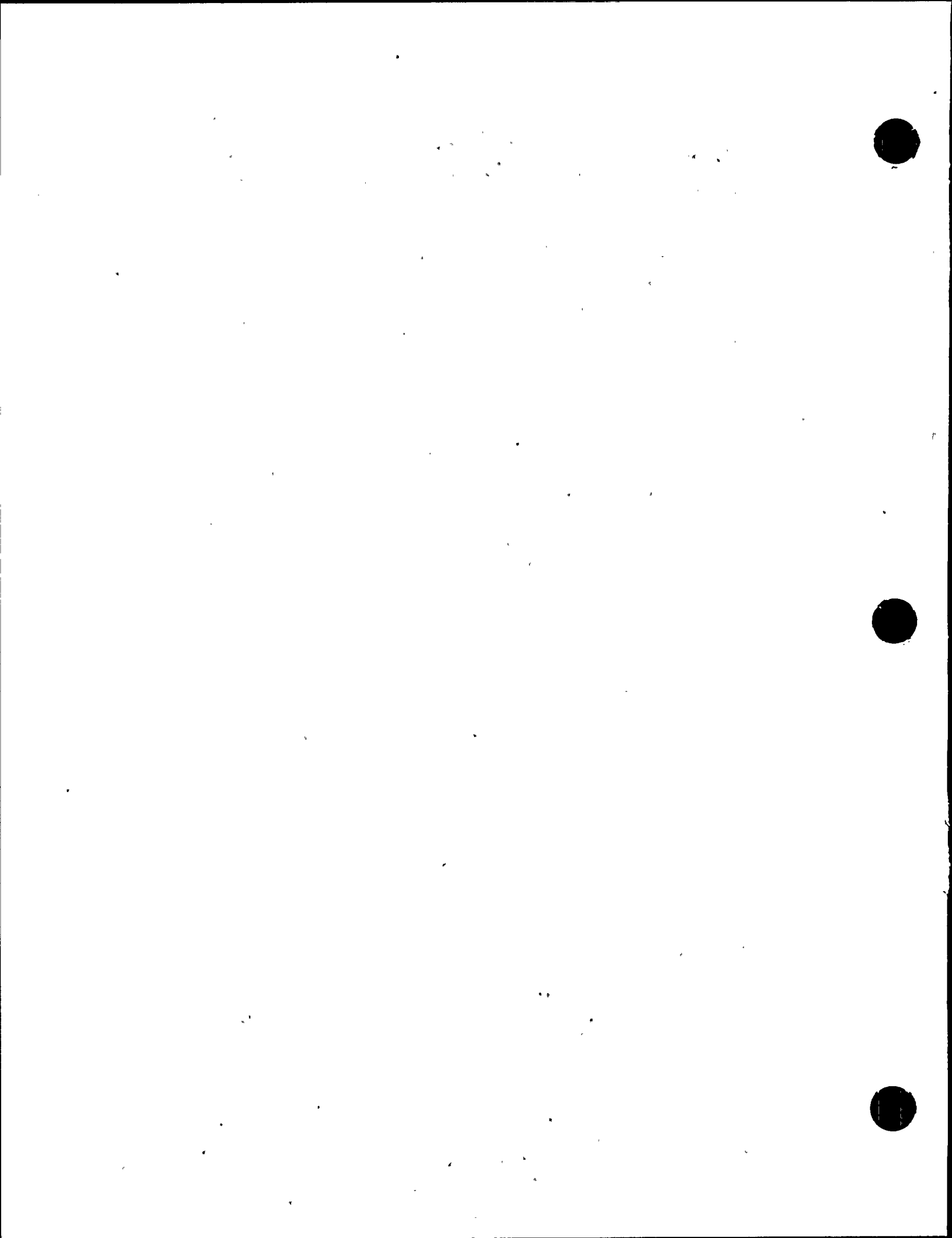
7. Significance of Concern:

Refer to EOI 8021, Revision 0.

8. Recommendation:

SWEC to perform a field verification review of the AFW System circuit routings.

9. Signature: *W. E. Cozart* 830323 (Originator/Organization)





OPEN ITEM REPORT

File No. 8022

File Revision No. 7

1. Date reported to PG&E and X&X SWEC 830407
2. Scheduled for TES (Originator) Semimonthly Report No. April
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:

4160 Volt Circuit Breakers

6. Description of Concern:

Calculated worst case short circuit current exceeds breaker nameplate rating. A concern arises that other safety related breakers may be subject to short circuit duty in excess of nameplate ratings.

7. Significance of Concern:

Possible forced outage of safety related buses.

8. Recommendation:

This file is re-opened for SWEC to review other safety related breakers for this condition and provide recommendation for future disposition.

9. Signature: W.F. Cooper for 830407 (Originator/Organization)

W.F. COOPER



PROGRAM RESOLUTION REPORT

File No. 8023

File Revision No. 5

1. Resolution of an:  Open Item:  Class B 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 830316
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

PGandE Completion Package, IDVP File No. 8023, signed January 3, 1983.

The documentation referenced above includes system data, load data and power system load flow calculations representing the operation of the system after LOCA. SWEC concurs with PGandE's conclusion that, with the 230KV start-up transformer and load center transformers at the adjusted taps and with the system operating as described, the calculated voltages at the Engineered Safeguards 4.16KV and 480V systems are above the required minimum for continuous operation of motors.

Final adjustment of tap settings is normally performed during plant test and start-up operations. This file identified the proper adjustments.

6. Program Resolution is:

Acceptable based on the following:

PGandE to adjust 230KV start-up transformer tap to 215KV and load center transformer tap on Buses 1F, 1G, 1H, to 4056V in order to compensate for system voltage drops.

No modifications are required.

This file is downgraded from an ER/B to a Deviation to more accurately reflect the area of concern. The basis is that since the transformer taps are adjusted, the voltage levels are acceptable.

7. Potential Program Resolution  
Report signed by John Krechting (SWEC) on 830311
8. Signature: *W. P. [unclear]* 830316 (Approved/Program Manager)



File No. 8023

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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~either~~ a Deviation ~~XXXXXXXXXX~~ ~~XXXXXXXXXX~~. The PG&E document so informing the IDVP is PGandE Completion Sheet signed 830103.

2. Signature: *J.P. Long* 830316  
Approved/Program Manager



File No. 8024  
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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~XXXXX~~ a Deviation ~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXX~~. The PG&E document so informing the IDVP is PGandE Completion Sheet, IDVP File 8024, signed 830202.

2. Signature: W E Cooney 830316  
Approved/Program Manager





PROGRAM RESOLUTION REPORT

File No. 8025

File Revision No. 5

1. Resolution of an:  Open Item:  Class B 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 830316
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

PGandE Completion Package, IDVP File No. 8025, signed February 2, 1983.

The documentation referenced above includes system data, load data and power system load flow calculations representing the operation of the power system after LOCA and transfer to the 230KV system. With the described sequencing of 4KV motors and the 215KV start-up transformer and load center transformers set at the described taps, the calculated voltages on the Engineered Safeguards 4.16KV and 480V systems will be satisfactory for continuous operation of motors.

Final adjustment of tap settings is normally performed during plant test and start-up operations. This file identified the proper adjustments.

6. Program Resolution is:

Acceptable based on the following:

PGandE to adjust 230KV start-up transformer tap to 215KV and load transformer tap on Buses 1F, 1G, 1H, to 4056V in order to compensate for system voltage drops.

No modifications are required.

This file is downgraded from an ER/B to a Deviation to more accurately reflect the area of concern. The basis is that since the transformer taps are adjusted, the voltage levels are acceptable.

7. Potential Program Resolution  
Report signed by John Krechting (SWEC) on 830311
8. Signature: *John Krechting* 830316 (Approved/Program Manager)



PROGRAM RESOLUTION REPORT

File No. 8024

File Revision No. 5

1. Resolution of an:  Open Item:  Class B 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 830316
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

PGandE Completion Package, IDVP File No. 8024, signed February 2, 1983.

The documentation referenced above includes system data, load data and power system load flow calculations representing the operation of the system from the 230KV source during starting of large motors. SWEC concurs with PGandE's conclusion that with the transformers at the adjusted tap setting and the system operating as described, the calculated voltages at the Engineered Safeguards 480V systems will not cause dropout of the 460V motor starters.

Final adjustment of tap settings is normally performed during plant test and start-up operations. This file identified the proper adjustments.

6. Program Resolution is:

Acceptable based on the following:

PGandE to adjust 230KV start-up transformer tap to 215KV and load center transformer tap on Buses 1F, 1G, 1H, to 4056V in order to compensate for system voltage drops.

No modifications are required.

This file is downgraded from an ER/B to a Deviation to more accurately reflect the area of concern. The basis is that since the transformer taps are adjusted, the voltage levels are acceptable.

7. Potential Program Resolution  
Report signed by John Krechting (SWEC) on 830311  
Type Name/Organization Date
8. Signature: *John Krechting* 830316 (Approved/Program Manager)



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File No. 8025

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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~XXXX~~ a Deviation ~~XXXXXXXXXX~~ ~~XXXXXXXXXX~~. The PG&E document so informing the IDVP is PGandE Completion Sheet, IDVP File 8025, signed 830202.

2. Signature: W.E. Coyle 830316  
Approved/Program Manager



PROGRAM RESOLUTION REPORT

File No. 8026

File Revision No. 5

1. Resolution of an:  Open Item:  Class B 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 830316
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

- A. PGandE Resolution Sheet, IDVP File No. 8026, dated March 2, 1983.
- B. PGandE Completion Package, IDVP File No. 8026, dated February 2, 1983
- C. PGandE Completion Package, IDVP File No. 8026, dated March 10, 1983.

The documentation referenced above includes system data, load data and power system load flow calculations representing the operation of the power system, including full auxiliary system load, from the 230KV off-site power source at minimum normal voltage. SWEC concurs with PGandE's conclusion that with the transformers at the adjusted tap settings and with the system operating as described, the calculated voltages at the Engineered Safe-guards 4.16KV and 480V systems are above the required minimum for continuous operation of electrical loads.

Final adjustment of tap settings is normally performed during plant test and start-up operations. This file identified the proper adjustments.

6. Program Resolution is:

Acceptable based on the following:

PGandE to adjust 230KV start-up transformer tap to 215KV and load transformer tap on buses 1F, 1G, and 1H to 4056V in order to compensate for system voltage drops. In addition, PGandE to adjust the 230KV line voltage between 224V and 227.5KV when plant load is light.

No modifications are required.

This file is downgraded from an ER/B to a Deviation to more accurately reflect the area of concern. The basis is that since the transformer taps are adjusted, the voltage levels are acceptable.

7. Potential Program Resolution  
Report signed by John Krechting (SWEC) on 830311
8. Signature: *W.E. G...* 830316 (Approved/Program Manager)





File No. 8026  
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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~either a Deviation or as a Class~~ ~~XXXXXX Class XXXX Error~~. The PG&E document so informing the IDVP is PGandE Resolution Sheet, IDVP 8026, signed 830302 and Completion Sheets, IDVP 8026, signed 830202 and 830310 respectively.

2. Signature: W. E. Coogan 830316  
Approved/Program Manager







File No. 8035  
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. \_\_\_\_\_ 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 were ~~XXXXXX~~ applied by PG&E in response to File Revision No. 7, which recategorized this item as ~~XXXXXX DEVIATION~~ a Class C ~~XXXXXX~~ Error. The PG&E document so informing the IDVP is DCP Completion Sheet, IDVP File No. 8035, signed 830321.

2. Signature: D.C. Healy for W.E. COOPER 830407  
Approved/Program Manager

NOTE: THIS REV IS ISSUED TO CLARIFY THE STATUS OF THIS FILE AS AN ERROR CLASS C.



PROGRAM RESOLUTION REPORT

File No. 8041

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 830311
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

- (a) DCP Completion Sheet, IDVP File 8041, signed 821215.
- (b) DCP Completion Sheet, IDVP File 8041, signed 830302.

6. Program Resolution is:

The response satisfies the concerns of this EOI File. No modifications are required. This file will be closed as a Deviation.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830309
8. Signature: *J.C. Krechting* for 830311 (Approved/Program Manager)





File No. 8041

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. \_\_\_\_\_ 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. 7, which recategorized this item as ~~either~~ a Deviation ~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXX~~. The PG&E document so informing the IDVP is DCP Completion Sheets, IDVP File No. 8041, signed 830302.

2. Signature: *W. E. Cowen* 830311  
Approved/Program Manager



OPEN ITEM REPORT

File No. 8044

SWEC

File Revision No. 7

1. Date reported to PG&E and ~~XXX~~ 830316
2. Scheduled for TES (Originator) Semimonthly Report No. April
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, Cable Splices in Control Circuits.

6. Description of Concern:

Refer to EOI 8044, Revision 0.

7. Significance of Concern:

Refer to EOI 8044, Revision 0.

8. Recommendation:

SWEC to perform a field verification review of splice locations provided by DCP response, IDVP File No. 8044, signed 830218.

9. Signature: *W Cooper* for 830316 (Originator/Organization)

*W COOPER*



PROGRAM RESOLUTION REPORT

File No. 8044

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 \_\_\_\_\_
4. Scheduled for TES Semimonthly Report No. \_\_\_\_\_
5. Resolution based on the following documentation:

- a) PG&E Completion Package, IDVP File No. 8044, signed February 18, 1983 and addendum signed March 1, 1983.
- b) IDVP field inspection of splice locations, which has verified that no splices are located in areas subject to pipe crack temperatures higher than 340°F.

6. Program Resolution is:

A deviation, because of the lack of previous documentation identifying the locations and potential environments of cable splices in the AFW and CRVP electrical systems.

7. Potential Program Resolution Report signed by John E. Krechting / SWEC on 4/7/83
8. Signature: *W. E. Cooper* 830407 (Approved/Program Manager) Date \_\_\_\_\_



File No. 8044

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~~ Deviation.

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. Cooper for 830407

Approved/Program Manager

W. E. COOPER





PROGRAM RESOLUTION REPORT

File No. 8046

File Revision No. 5

1. Resolution of an:  Open Item:  Class A/B 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 830315
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

- (a) PGandE Completion Sheet, IDVP File No. 8046, dated 821220.
- (b) PGandE Resolution and Completion Sheets, Revision 1, IDVP File No. 8046 dated 830131.
- (c) PGandE Completion Sheet, Revision 2, IDVP File No. 8046 dated 830225.
- (d) Telecons: R. Hurford (SWEC) and B. Smith (PGandE) on 830216 and 830228, documented in SWEC notes.

6. Program Resolution is:

The concern of this EOI is that control power for some safety-related devices is not supplied from the same or related bus as the device's power bus. PGandE recognized this problem and initiated changes (DCO-E-E-446, Rev. 52) on October 1, 1981. The modifications, however, were not completed until May 26, 1982.

1. A single failure analysis shows the control power question to have an insignificant effect on the safety related function of the CRVP system after the modification and meets the FSAR requirement. There exists an acceptable arrangement of the Train powering from buses.
2. The verification of the modification is transferred to EOI 8012 which is an Error A.
3. The generic concerns raised by this EOI are transferred to EOIs 8012 and 8016.
4. This EOI is reclassified from an Error A/B to a Deviation and is closed.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830311
8. Signature: *John Krechting* 830315 (Approved/Program Manager)



File No. 8046  
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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~EXXEX~~ a Deviation ~~XXXXXXXXXX~~ ~~XXXXXXXXXX~~. The PG&E document so informing the IDVP is DCP Completion Sheet, revision 2, IDVP File No. 8046, dated 830225

2. Signature:  830315  
Approved/Program Manager



PROGRAM RESOLUTION REPORT

File No. 8047

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 830407
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

DCP Resolution Sheet and PG & E completion sheet, IDVP File No. 8047  
Rev. 2 dated 830203 which states that:

1. Under accident conditions safety-grade signals, other than from Relay 3AFWP, are available to actuate Steam Generator Blowdown Valves and achieve isolation.
2. Under other conditions the AFW system has sufficient capacity, even assuming the failure of one auxiliary feedwater pump, to achieve minimum required flow.

6. Program Resolution is:

1. This file is classified as a deviation due to an inconsistency in the assumptions for the system design requirements.
2. No safety limits or design criteria have been exceeded and no modifications are required.

7. Potential Program Resolution

Report signed by John E. Krechting/SWEC on 830323  
Type Name/Organization Date

8. Signature: D.C. Strickland for 830407 (Approved/Program Manager)



File No. 8047

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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~with~~ a Deviation. ~~xxxxxx Class~~  
~~Class~~ ~~xxxxxx Class~~ ~~xxxxxx Class~~ ~~xxxxxx Class~~ The PG&E document so informing the IDVP is PG & E Completion Sheet, IDVP File No. 8047, dated 830203.

2. Signature: *W.F. Cooper* 830407

Approved/Program Manager

*W.F. COOPER*





OPEN ITEM REPORT

File No. 8049

SWEC File Revision No. 10

1. Date reported to PG&E and ~~TES~~ 830406
2. Scheduled for TES (Originator) Semimonthly Report No. April
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 System - Pipe Break in Line 594.

6. Description of Concern:

Refer to EOI 8049, revision 6.

DCP Completion Sheet signed 830126 stated that conduit KK792 is flush mounted on the ceiling and jet impingement from longitudinal break on line 594 will not result in any lateral force on this conduit. During Field walkdown by the IDVP on 830330 it was observed that this conduit is not flush but is mounted approximately 12 inches off the ceiling.

7. Significance of Concern:

A postulated break in line 594 and a postulated single failure, i.e. purple power could result in loss of AFW flow.

8. Recommendation:

TES requests SWEC to review this condition and provide recommendation for future disposition.

9. Signature: Dean Johnson 830406 (Originator/Organization)

for W. E. COOPER



PROGRAM RESOLUTION REPORT

File No. 8049

File Revision No. 12

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 830406
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

Refer to EOI File No. 8049, Revision 5.

6. Program Resolution is:

To demonstrate compliance with licensing commitments in FSAR Appendix 3.6 the DCP should provide the following:

Re-evaluation of the effects of jet impingement thrust force from postulated break 1800 in line 594, on conduit KK792. The re-evaluation should address the vertical component of the jet force on the conduit, since the as-built condition of the conduit is not flush-mounted on the ceiling as previously indicated in DCP Completion Sheet, IDVP File No. 8049, Revision 5 dated 830126.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830406
8. Signature: DC Krechting for 830406 (Approved/Program Manager) Date

W. E. COOPER



PROGRAM RESOLUTION REPORT

File No. 8050

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 830315
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

DCP Completion Sheet, signed 830310.

6. Program Resolution is:

The IDVP has reviewed the document above and concluded that the logic as described satisfies the original concern.

No physical modifications are required.

An IDVP Completion Report will be issued.

This File will be closed as a Deviation.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830311
8. Signature: *J. E. Payne* 830315 (Approved/Program Manager)



File No. 8050  
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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~error~~ a Deviation ~~XXXXXXXXXX~~ ~~Class Error~~. The PG&E document so informing the IDVP is DCP Completion Sheet dated 830310.

2. Signature:                     *JWE Gay*                     830315  
Approved/Program Manager





PROGRAM RESOLUTION REPORT

File No. 8054

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 830315
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

DCP response to EOI File 8054:

- A. Resolution and Completion Sheets, dated 830128.
- B. Resolution and Completion Sheets, Revision 1, dated 830304.
- C. Telecon: R. Reed (SWEC), W. Valstrom (PGandE) on 830301.

6. Program Resolution is:

Based on the above, it has been determined that the control circuits identified in the applicable DCP drawings as Class 1E are, in fact, not Class 1E. Therefore:

1. This EOI is reclassified from an Error A/B to a Deviation since the drawings reflect incorrect designation.
2. No error or violation of the FSAR was made with regard to the separation of cabling.
3. No physical modifications or additional verification is required.
4. This file will be closed.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830311
8. Signature: *W E Boyer* 830315 (Approved/Program Manager)



File No. 8054  
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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~either a Deviation~~ ~~XXXXXXXXXX~~ ~~XXXXXXXXXX~~. The PG&E document so informing the IDVP is DCP Completion Sheet, IDVP File 8054, dated 830304.

2. Signature: *NE Long* 830315  
Approved/Program Manager



ERROR REPORT

File No. 8055

Class: C  
A,B,C or D

File Revision No. 5

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

- 1. Dates: Reported to Program Review Committee NA  
 Program Review Committee Action NA  
 Reported to PG&E and Originator 830311
- 2. Scheduled for TES Semimonthly Report No. April
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

Auxiliary Feedwater Controls.

4. Description of Error:

Mutually Redundant Class 1 pressure indicators P153A and P152A located on the main control board are not installed according to FSAR installation and separation criteria.

5. Significance of Error:

The PGandE response is contained in their Resolution Sheet and supporting material for File No. 8055, Revision 2, and their Completion Sheet, dated 830310.

PGandE responded that the FSAR commitment to separation of mutually redundant Class 1 devices was intended to apply to current carrying portions of mutually redundant controls, and not to low energy and voltage signals. Additional supporting information in PGandE's response included an Interoffice Memo dated February 3, 1983, identified as Letter ICE-2697 requested PGandE's Licensing Group to revise the FSAR to reflect the as-built installation, and the approval of the FSAR revision by the Plant Safety Review Committee contained in the Completion Report.

6. Recommendation:

It is concluded that the modification to the FSAR is a satisfactory resolution to this file. The modification to the FSAR in lieu of a physical modification eliminates the generic concern. This Open Item is downgraded to an error Class "C" which more accurately describes the concern. As no physical modifications are required, no further verification is necessary. This File will be closed.

- 7. Potential Error Report signed by John Krechting (SWEC) on 830222  
 Type Name/Organization \_\_\_\_\_ Date \_\_\_\_\_
- 8. Signatures: NA \_\_\_\_\_  
 For Program Review Committee \_\_\_\_\_  
 Approved/Program Manager W E COOPER  
830311



File No. 8055  
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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~XXXXXXXXXXXXXXXXXXXX~~ as a Class C ~~XXXXXXXXXX~~ Error. The PG&E document so informing the IDVP is PGandE Completion Sheet, IDVP File No. 8055, dated 830310.

2. Signature: *W E Cooper* for W E COOPER 830311  
Approved/Program Manager





OPEN ITEM REPORT

File No. 8057

SWEC  
~~TES~~ 830311

File Revision No. 3

1. Date reported to PG&E and ~~TES~~ 830311
2. Scheduled for TES (Originator) Semimonthly Report No. April
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:

Control panels for Auxiliary Feedwater System and Control Room Ventilation and Pressurization.

6. Description of Concern:

See EOI File 8057, Revision 0.

7. Significance of Concern:

See EOI File 8057, Revision 0.

8. Recommendation:

SWEC to review PGandE response (Ref. Resolution Sheet, IDVP File No. 8057, dated 830307) and recommend disposition.

9. Signature: *W.F. Cooper* for 830311 (Originator/Organization)

W.F. COOPER



ERROR REPORT

File No. 8057

Class: A  
A,B,C or D

File Revision No. 5

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

- 1. Dates: Reported to Program Review Committee NA  
 Program Review Committee Action NA  
 Reported to PG&E and Originator 830315
- 2. Scheduled for TES Semimonthly Report No. April
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

AFW and CRVP System Controls.

4. Description of Error:

Control panels associated with the AFW System and the CRVP System contain circuits which do not meet the separation criteria established in FSAR section 8.3.3.

5. Significance of Error:

Class IE circuits do not meet single failure criteria due to lack of physical separation.

The DCP response, PGandE Resolution Sheet, IDVP File No. 8057, dated 830307, has been reviewed and found to address the Concern of the Open Item. The proposed modification to each of specific discrepancies identified, is adequate. The DCP also proposed (Ltr. DCVP-TES-869, dated 830308) that the generic concerns of the Open Item and their resolution be the subject of additional verification.

6. Recommendation:

PGandE to comply with the separation criteria established in FSAR section 8.3.3.

The Open Item is reclassified from an Error A/B to an Error A since modifications are required. The modifications made to correct the specific Errors identified by this EOI File will be verified.

- 7. Potential Error Report signed by John Krechting (SWEC) on 830311
- 8. Signatures: NA Type Name/Organization \_\_\_\_\_ Date 830315  
 For Program Review Committee \_\_\_\_\_ Approved/Program Manager WE COOPER



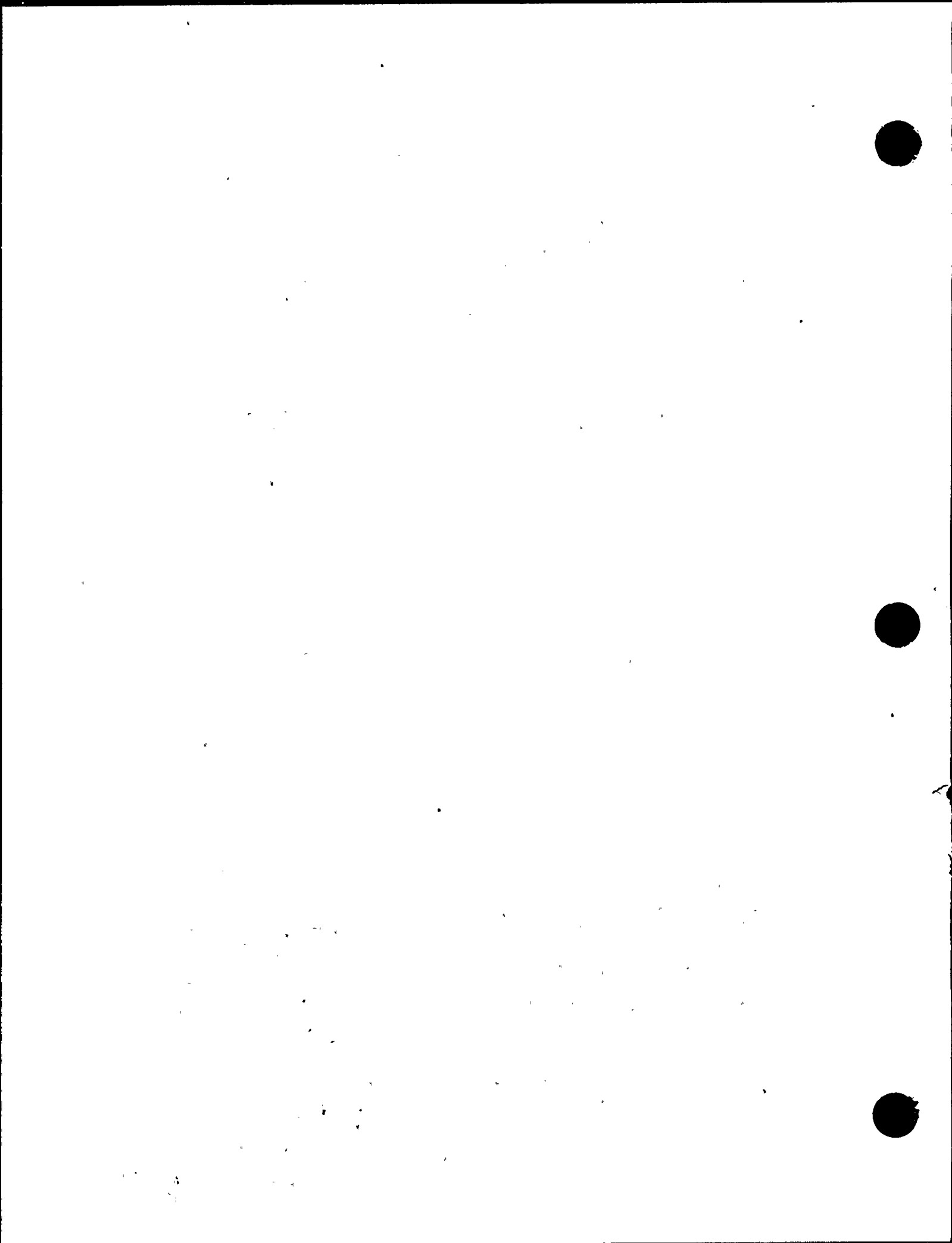
OPEN ITEM REPORT

File No. 8059

SWEC

File Revision No. 3

1. Date reported to PG&E and ~~XXX~~ 830401
2. Scheduled for TES (Originator) Semimonthly Report No. April
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, Control Room Ventilation,  
Pressurization System Control Panels and Raceways
6. Description of Concern:
- See EOI 8059, Rev.0
7. Significance of Concern:
- See EOI 8059, Rev.0
8. Recommendation:
- SWEC to review DCP Resolution Sheet, IDVP File 8059, signed 830210 and DCP letter, Files 8055 and 8059 dated 830311, and provide recommendation for disposition.
9. Signature: *W. E. Coyne* (830401) (Originator/Organization)



ERROR REPORT

File No. 8059

Class: C  
A, B, C or D

File Revision No. 5

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 830407

2. Scheduled for TES Semimonthly Report No. April

3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

AFW and CRVP system control panels and raceways.

4. Description of Error:

Color coding of some non-safety-related circuits affiliated with safety-related devices conflicts with the general description of the identification of electrical circuits in Section 8.3-3 of the FSAR.

5. Significance of Error:

Safety-related circuits are not readily identifiable from non-safety related circuits. A unique identification system for safety-related circuits is necessary for proper installation and maintenance of such circuits.

6. Recommendation:

The DCP completion sheet IDVP-8059 signed 830325 provided additional wording for the FSAR Section 8.3-3 which describes the method of color coding of circuits affiliated with safety-related devices, trains, or circuits, and also an explanation that the color-coding of these circuits is not based solely on their electrical power source. The IDVP has determined that this modification to the FSAR will accurately reflect the as-built condition of the plant. This open item is classified as an Error C because the electrical system identification defined in FSAR Section 8.3-3 did not accurately reflect the actual installed control wiring for equipment in the CRVP and AFW systems.

7. Potential Error Report signed by John E. Krechting/SWEC on 830404

8. Signatures: N/A  
For Program Review Committee  
Type Name/Organization/ Date  
W E Cooper 830407  
Approved/Program Manager  
for W E COOPER





File No. 8059

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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~XXXXXXXXXXXXXXXXXXXX~~ a Class C ~~XXXXXXXXXX~~ Error. The PG&E document so informing the IDVP is DCP completion sheet, Rev.1, IDVP-8059 signed 830325.

2. Signature:

W. F. COOPER  
*for* Approved/Program Manager

830407



ERROR REPORT

File No. 8060

Class: C  
A,B,C or D

File Revision No. 5

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

- 1. Dates: Reported to Program Review Committee NA  
 Program Review Committee Action NA  
 Reported to PG&E and Originator 830315
- 2. Scheduled for TES Semimonthly Report No. April ,
- 3. Structure(s), system(s), or component(s) involved:

Auxiliary Feedwater System Controls for limiting flow to a depressurized Steam Generator.

4. Description of Error:

PGandE committed to provide a safety grade flow limiting control scheme to prevent the motor driven auxiliary feedpumps from running out on its pump curve in the event of a depressurized steam generator. The system as designed may result in the level control signal and the pressure control signal to command the valve to perform opposite functions simultaneously. The original setpoints for the runout control system could have adversely affected the AFW system operation due to runout control system interaction (pressure and level control loops linked to one valve) with normal function of the valves. This could have resulted in limiting AFW flow to less than the minimum acceptable flow under certain conditions. The effected electrohydraulic valves, as originally designed, and as shown on the instrument loop diagrams may also have been dynamically unstable due to the specified setpoints during certain accident conditions.

5. Significance of Error:

The runout control design could have limited auxiliary feedwater flow to less than minimum values under certain operating conditions. This adverse interaction or potential dynamic instability could have compromised the ability of the AFW system to perform its safety function.

6. Recommendation:

The DCP Completion sheets dated March 8, 1983 and March 10, 1983 and the DCP Resolution Sheet dated February 17, 1983 have been reviewed. The DCP has completed calculations determining revised runout control setpoints and has instructed the field to complete modifications. These calculations were reviewed by the IDVP and were found to adequately address the concerns identified by this EOI file. The setpoint change also opened the proportional band of the runout control pressure controllers, decreasing the probability of dynamic instability. PGandE has further committed to verify system stability during AFW system startup testing.

Based on the above, the DCP response is acceptable. No generic concern exists due to the uniqueness of the runout control system and no further verification is required. This file will be closed.

- 7. Potential Error Report signed by John Krechting (SWEC) on 830311  
 Type Name/Originator John Krechting (SWEC) Date 830311
- 8. Signatures: NA  
 For Program Review Committee Approved/Program Manager  
WE COOPER



File No. 8060  
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. \_\_\_\_\_ 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. 5, which recategorized this item ~~XXXXXXXXXXXXXXXXXXXX~~ as a Class C ~~XXXXXXXXXX~~ Error. The PG&E document so informing the IDVP is DCP Completion Sheet, IDVP File No. 8060, dated 830310.

2. Signature: *[Handwritten Signature]* 830315

Approved/Program Manager

*W E COOPER*



PROGRAM RESOLUTION REPORT

File No. 8061

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 830315
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

DCP Completion Package, IDVP File No. 8061, signed 830307.

6. Program Resolution is:

Acceptable based on referenced documentation which indicates the satisfactory capability of the safety related motors to start and accelerate to rated speeds with 80% rated voltage applied at the terminals.

File is reclassified as a Deviation to more accurately reflect the significance of concern, and on the basis that there is no mistake in analysis, design, or construction.

This file will be closed.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830311
8. Signature: *NE Bay* 830315 (Approved/Program Manager)





File No. 8061  
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. \_\_\_\_\_ 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. 9, which recategorized this item as ~~XXXXXX~~ a Deviation ~~XXXXXXXXXXXX~~ ~~XXXXXXXXXXXX~~. The PG&E document so informing the IDVP is DCP Completion Sheet, IDVP File No. 8061, signed 830307.

2. Signature:  830315  
Approved/Program Manager







PROGRAM RESOLUTION REPORT

File No. 8064

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 830407
4. Scheduled for TES Semimonthly Report No. April
5. Resolution based on the following documentation:

PG&E Resolution Sheet, IDVP File No. 8064 Rev. 2 and PG&E Completion Sheet, IDVP File No. 8064 dated 830322:

1. Moore Industries Potentiometer Transmitters, Tag POM 110, 111, 113 and 115 are not classified as Class 1E devices since they do not have a safety-related function.
2. There is sufficient documentation of testing and analysis to assure that they will not fail in such a way as to jeopardize the safety-related circuit to which they are connected.
3. No significant threat to the safety-related circuit arises from these devices.

6. Program Resolution is:

This file is classified as a deviation since the design documents improperly reported the classification of the POM's as safety-related. PG&E to revise Environmental Qualification files and Instrument Schematic 102036 to reflect Class II status for POM's.

This file will be closed.

7. Potential Program Resolution Report signed by John Krechting / SWEC on 830328
8. Signature: OC Steatley for 830407 (Approved/Program Manager) Date

W. F. COOPER



File No. 8064

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. \_\_\_\_\_ 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. 5, which recategorized this item as ~~either~~ a Deviation. ~~xxxxxx Class~~  
~~Class~~ ~~xxxxxx~~ The PG&E document so informing the IDVP is PG & E Completion Sheet, IDVP File 8064 dated 830322.

2. Signature: *W. F. Cooper* 830407

Approved/Program Manager

*W. F. COOPER*





APPENDIX A  
LOOKAHEAD



TABLE A-1  
LOOKAHEAD REPORT  
APRIL 8, 1983 THROUGH MAY 13, 1983

<u>DATE(S)</u>	<u>LOCATION</u>	<u>SUBJECT</u>	<u>PARTICIPANTS</u>
4/11/83	San Francisco	Technical Meeting - Piping	TES/RLCA/DCP
4/26-27/83	San Francisco	Status of All Structures	TES/RLCA/DCP

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TABLE A-2  
IDVP SCHEDULE RELATIVE TO  
DCNPP-1 3-STEP LICENSING

<u>ACTIVITY</u>	<u>IDVP REPORTS</u>		
	<u>FUEL LOAD</u>	<u>LOW POWER</u>	<u>FULL POWER</u>
Phase I	Status 4-30-83	Final 6-15-83	-
Phase II	Status 4-30-83	Status 5-15-83	Final 6-30-83
ITP-QA	Final 4-15-83	-	-
Construction QA	Final* 3-18-83	-	-
PG&E/W Interface	Final* 3-23-83	-	-
Hosgri Spectra	Final 5-20-83	-	-
Non-Hosgri Spectra	Final 5-20-83	-	-
Supplement for As-Built Verification	Status 6-15-83	Status 6-30-83	Status 6-30-83

\* Completed

