

**DIABLO CANYON NUCLEAR POWER PLANT  
INDEPENDENT DESIGN VERIFICATION PROGRAM**

**SEMIMONTHLY REPORT**

**TES - SM - MAY**

**MAY 13, 1983**

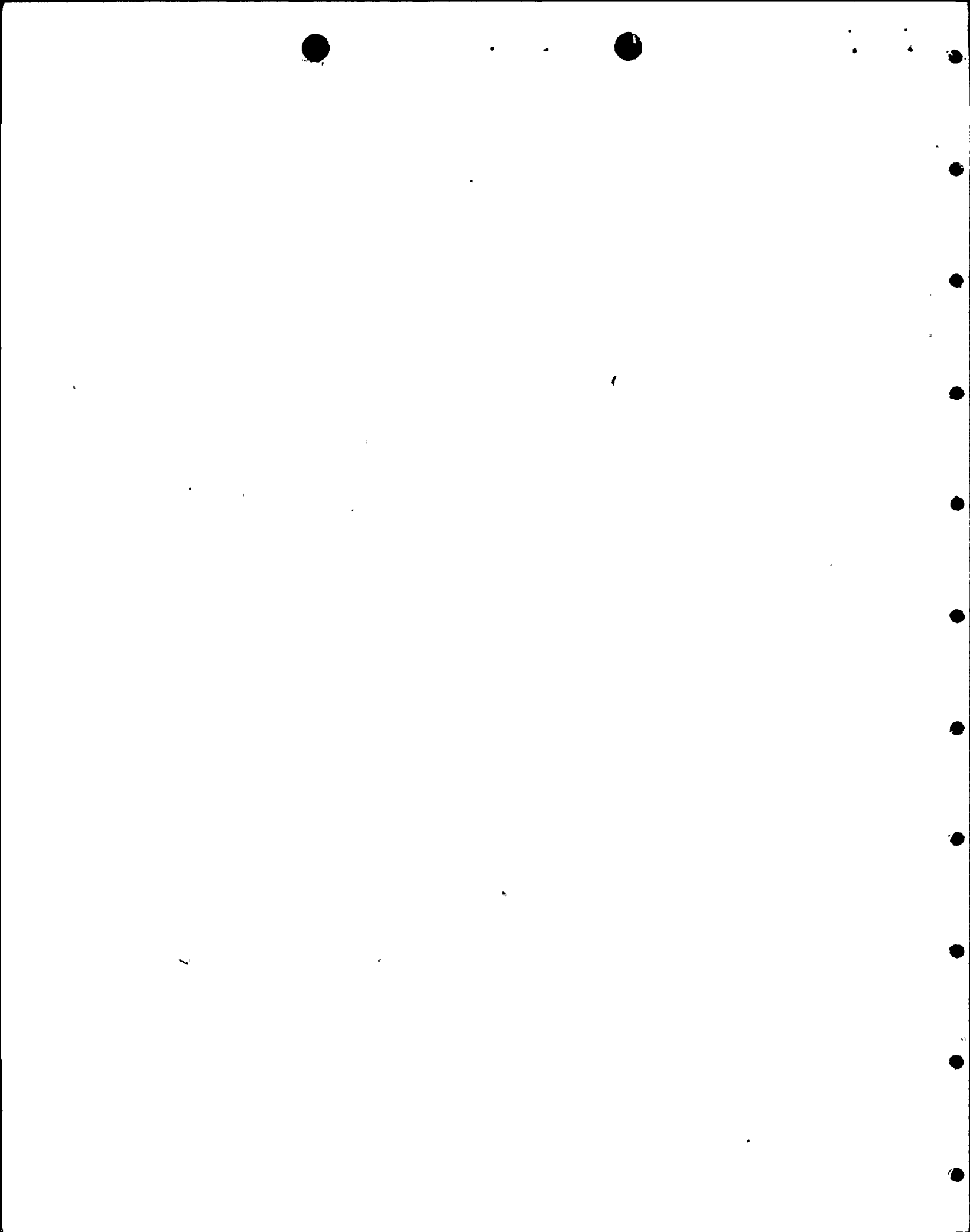
**UNCONTROLLED COPY**

**PREPARED BY:**

**TELEDYNE ENGINEERING SERVICES**

**IDVP PROGRAM MANAGER**

8305180403 830513  
PDR ADOCK 05000275  
R PDR



TES SEMIMONTHLY REPORT

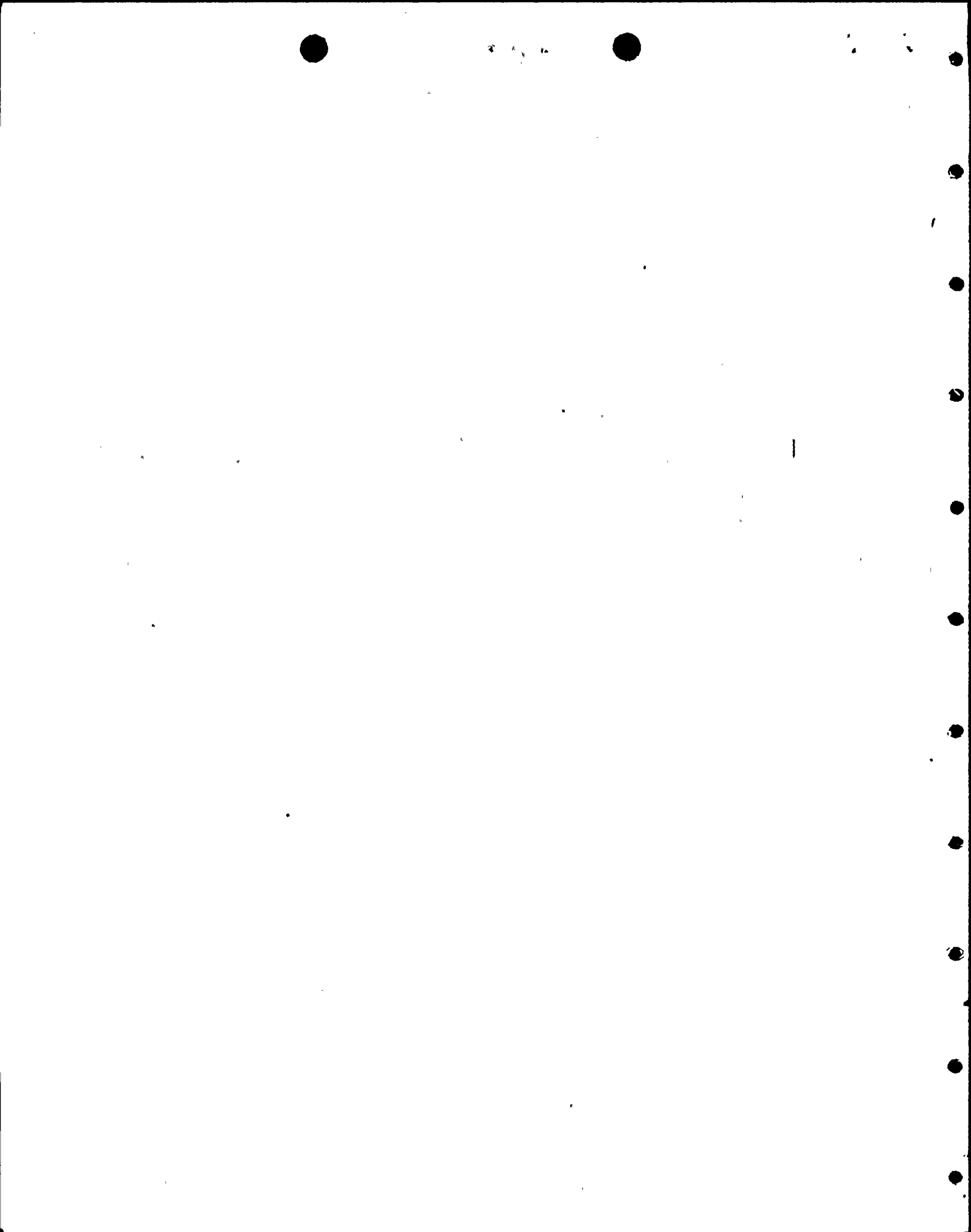
MAY 13, 1983

This document includes, in numerical order, all Open Item Report System Forms issued by TES since our Second Friday Semimonthly Report of April 8, 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.



1. Date reported to PG&E and ~~TES~~ RLCA 830422
2. Scheduled for TES (Originator) Semimonthly Report No. May 1983
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:

Valve FCV-37

6. Description of Concern:

DCP discrepancy report 4540 (P105-4-950-015 830104) states that six of the seven valves included on change order DCO-G-M-876 were correctly modified with 1/2" stiffener plates. The modification to the seventh valve FCV-95 was field verified and reported on EOI 950 Revision 5. During field verification by the IDVP for other equipment, it was observed that the FCV-37 stiffener plates were 3/8" not 1/2" as specified in DCO-G-M-876.

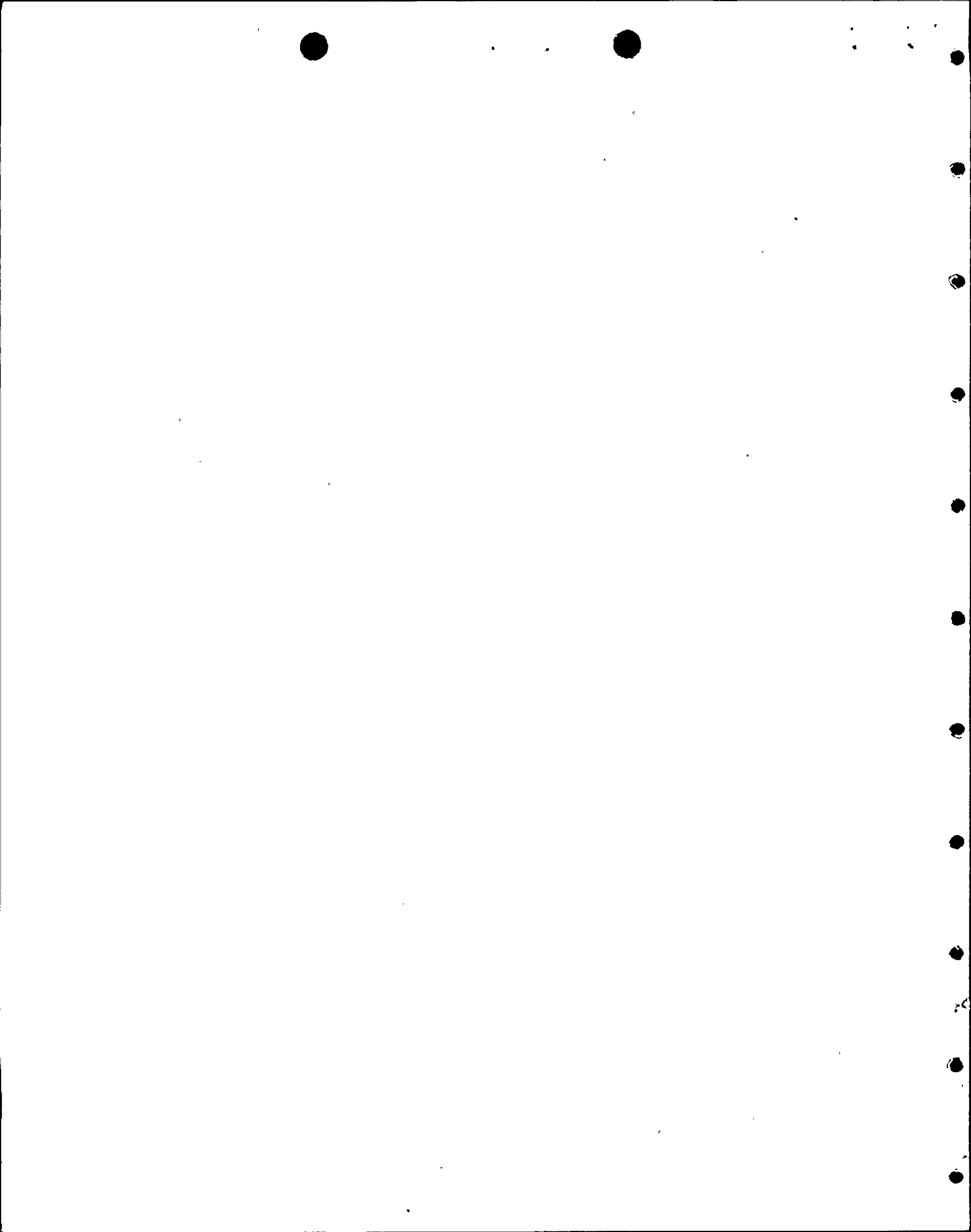
7. Significance of Concern:

The required modification for at least one valve has not been implemented, therefore the design analyses for these valves may not reflect the as-built conditions.

8. Recommendation:

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

9. Signature: W.E. Coyn 830422 (Originator/Organization)



PROGRAM RESOLUTION REPORT

File No. 950

File Revision No. 10

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 830504
4. Scheduled for TES Semimonthly Report No. May
5. Resolution based on the following documentation:

Valve FCV-37

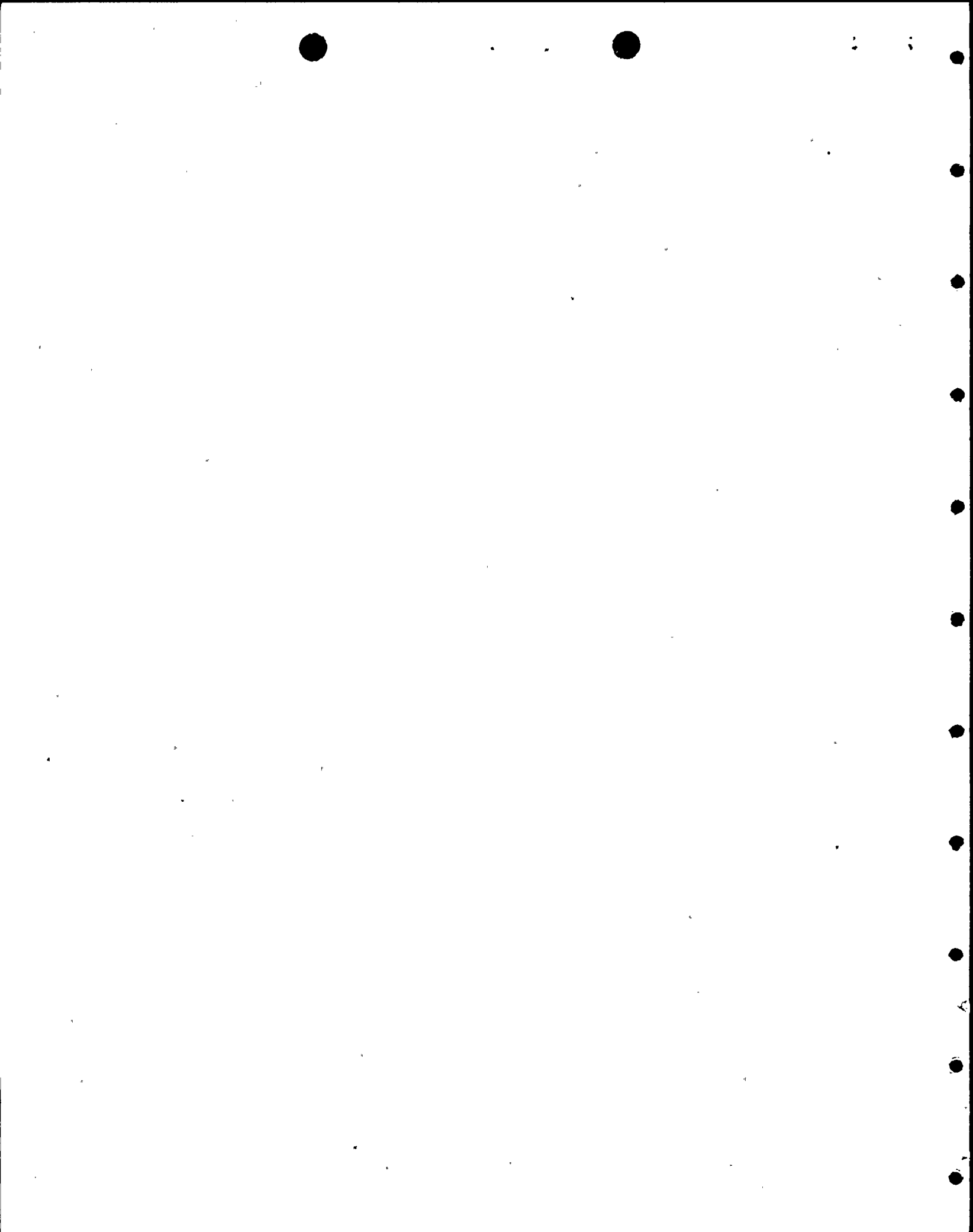
DCP discrepancy report 4540 (P105-4-950-015 830104) states that six of the seven valves included on change order DCO-G-M-876 were correctly modified with 1/2" stiffener plates. The modification to the seventh valve FCV-95 was field verified and reported on EOI 950, Revision 5. During field verification by the IDVP for other equipment, it was observed that the FCV-37 stiffener plates were 3/8" not 1/2" as specified in DCO-G-M-876.

The required modification for at least one valve has not been implemented, therefore the design analyses for these valves may not reflect the as-built conditions.

6. Program Resolution is:

Open item with future PGandE action - re-examine the as-built configuration and respond.

7. Potential Program Resolution Report signed by Edward Denison (RLCA) on 830429
8. Signature: *Edward Denison* 830504 (Approved/Program Manager)





OPEN ITEM REPORT

File No. 1013

RLCA  
~~XXS~~ 830425

File Revision No. 8

1. Date reported to PG&E and ~~XXS~~ 830425
2. Scheduled for TES (Originator) Semimonthly Report No. May
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:

Group VI Electrical Equipment.

6. Description of Concern:

The test spectra completely envelopes the required Hosgri spectra only above 15 Hz. as shown in Figures 4-219 and 4.228 of Wyle Report 58255. A sine sweep from the same report shows all equipment resonances to be above 29 Hz. Since the equipment resonance areas are enveloped the equipment is considered qualified.

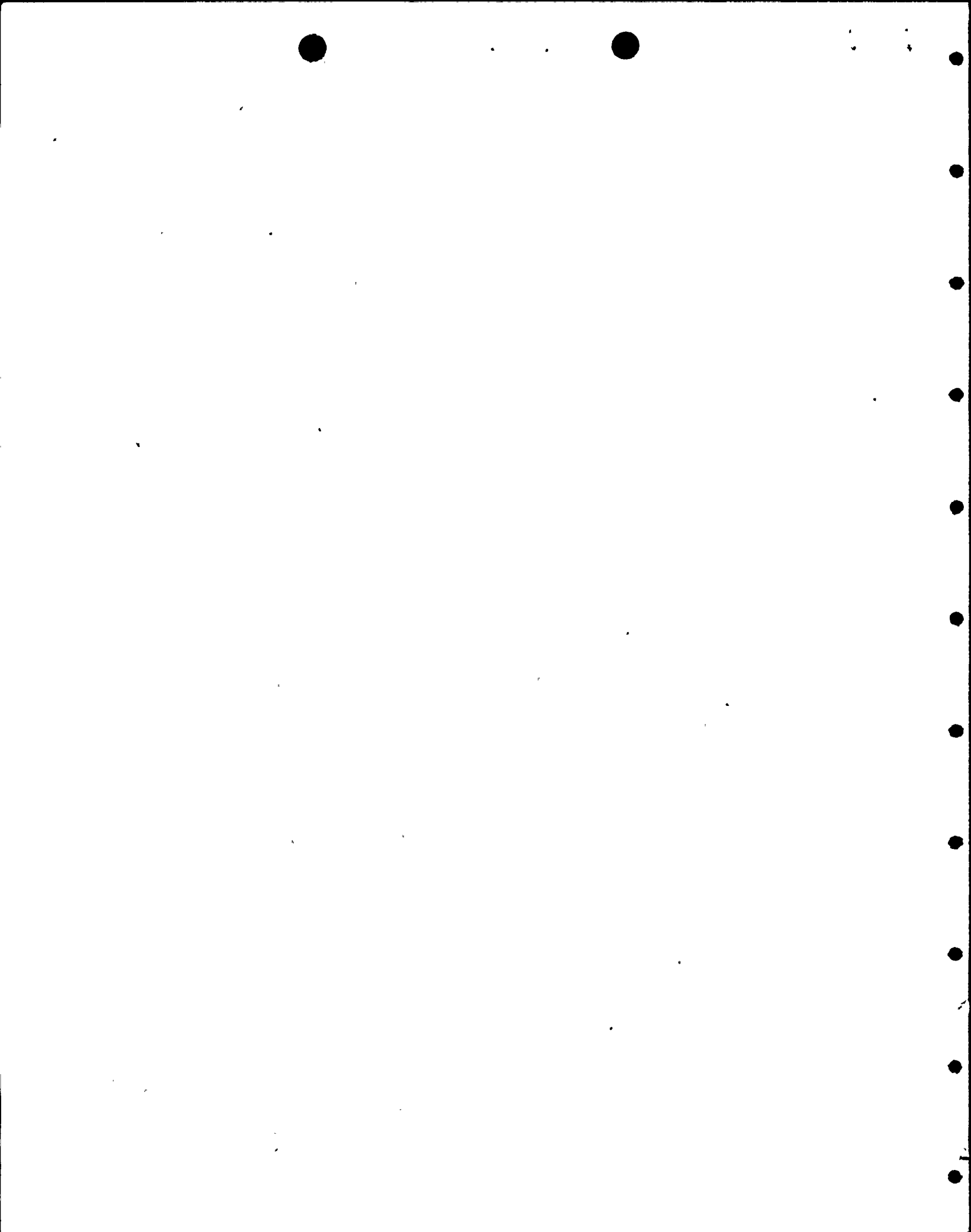
7. Significance of Concern:

This file is reopened to review the assigned Error classification, currently Error B. The equipment is considered qualified. All data required to make that determination was in the original test report. No design criteria or operating limits were exceeded. The evaluation required to consider the equipment qualified did not include a refined analysis.

8. Recommendation:

TES recommends RLCA to review this file and consider downgrading it from an Error B to an Error C or Deviation.

9. Signature: *NE Coyne* 830425 (Originator/Organization)



ERROR REPORT

File No. 1013

Class: C  
A,B,C or D

File Revision No. 10

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

- 1. Dates: Reported to Program Review Committee NA  
 Program Review Committee Action NA  
 Reported to PG&E and Originator 830504
- 2. Scheduled for TES Semimonthly Report No. May
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

Group VI Electrical Equipment.

4. Description of Error:

The target test spectra and the SSE test response spectra taken from the test table (Wyle Report 58255) used to qualify the Group VI Electrical Equipment did not envelop the required Hosgri spectra (Figures 4-219 and 4-228). The test spectra completely envelopes the required Hosgri spectra only above 15 Hz.

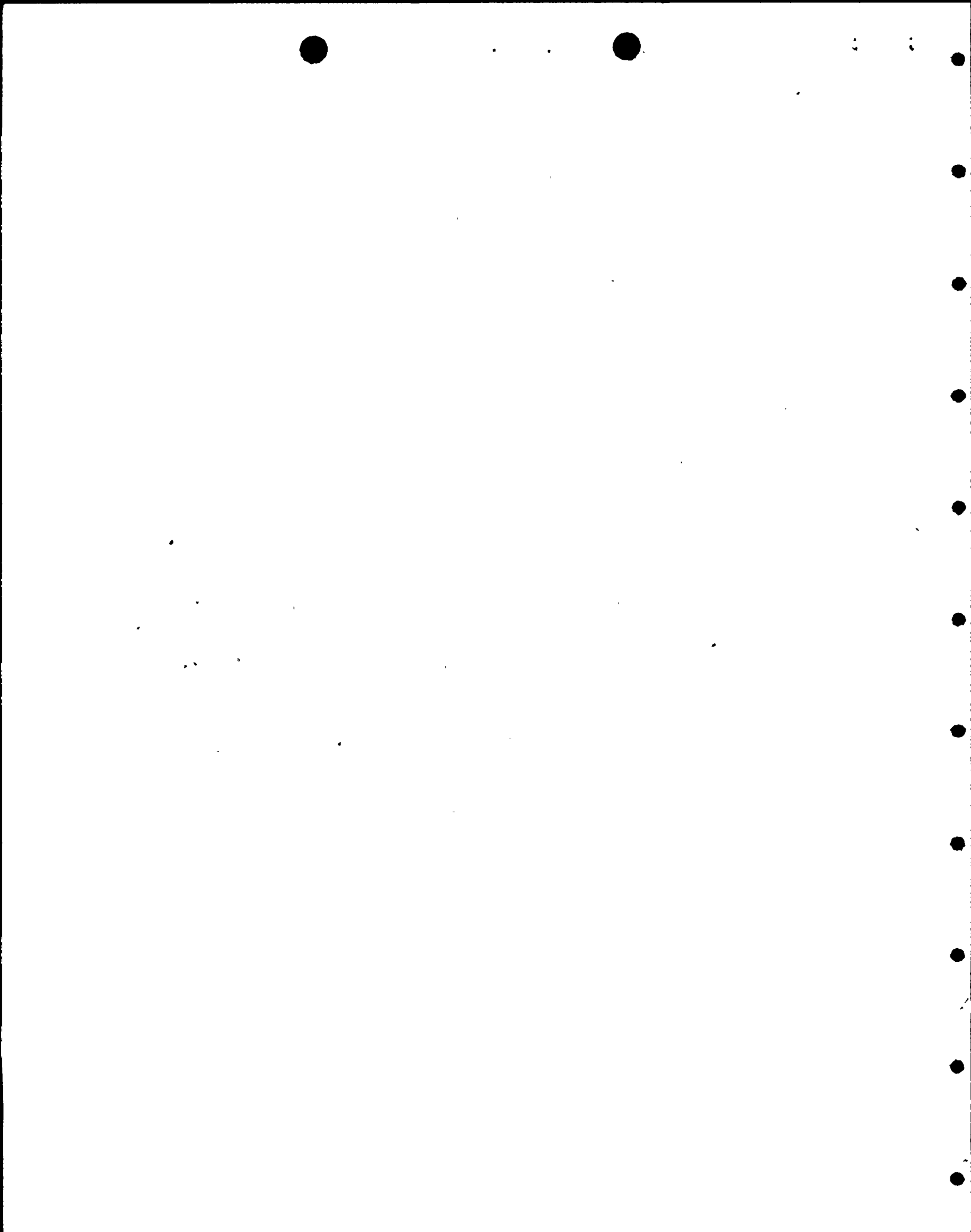
5. Significance of Error:

A sine sweep from the same report shows all equipment resonances to be above 29 Hz. Since the SSE test response spectra completely envelopes the required Hosgri spectra at all equipment resonant frequencies, this equipment is considered qualified. All data required to make that determination was in the original test report. No design criteria or operating limits were exceeded. The evaluation required to consider the equipment qualified did not require retesting.

6. Recommendation:

This file is reclassified from Error B to Error C.

- 7. Potential Error Report signed by E. Denison (RLCA) on 830428  
 Type Name/Organization Date
- 8. Signatures: NA 830504  
 For Program Review Committee Approved/Program Manager



File No. 1013  
File Revision No. 11

IDVP COMPLETION REPORT

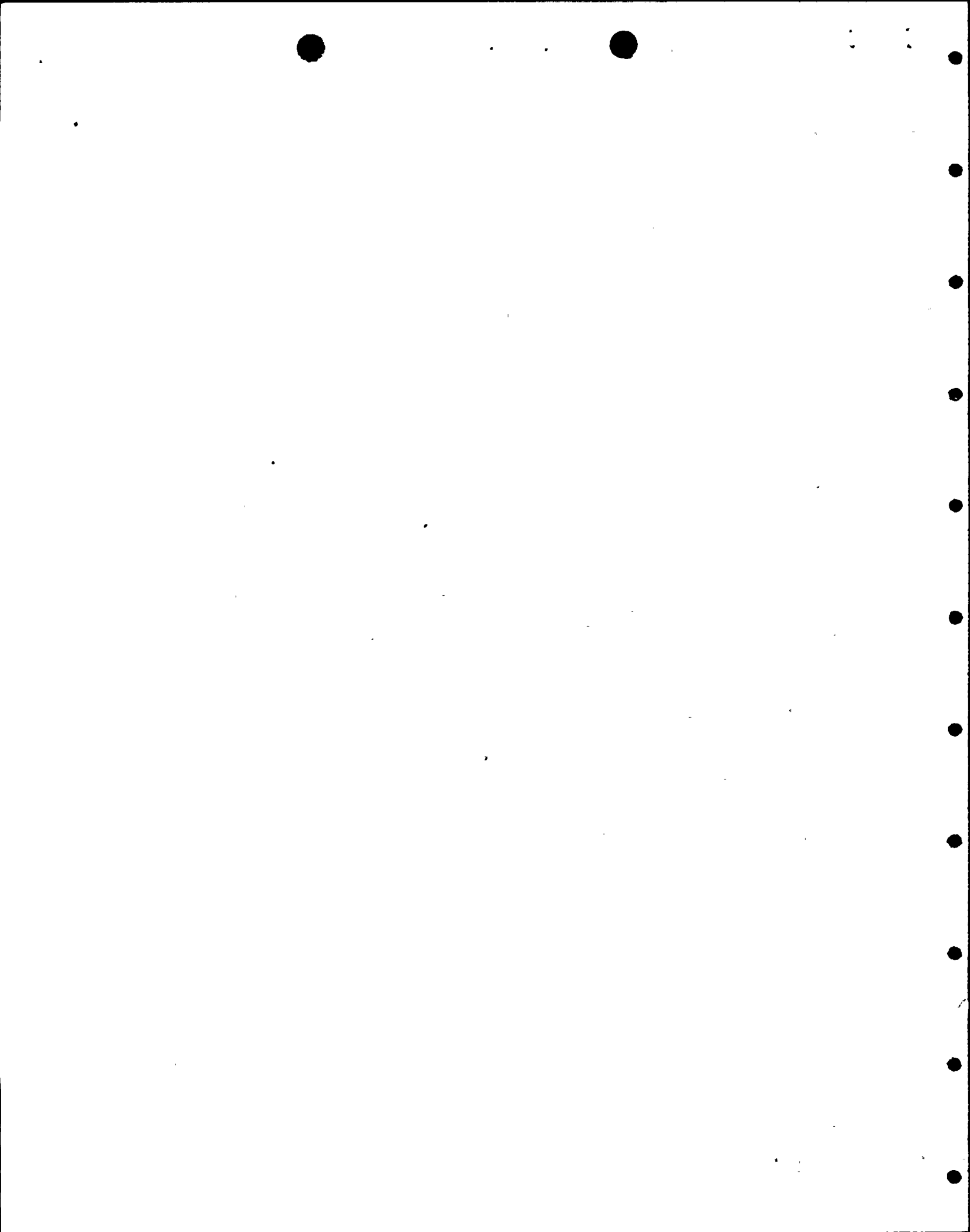
The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

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. 10, which recategorized this item as ~~XXXXXXXXXXXXXXXXXXXX~~ a Class C ~~XXXXXXXX~~ Error. The PG&E document so informing the IDVP is PGandE Completion Sheet, IDVP File 1013, dated 820715.

2. Signature: Raymond W. E. Cooper 830504  
Approved/Program Manager



File No. 1088  
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:

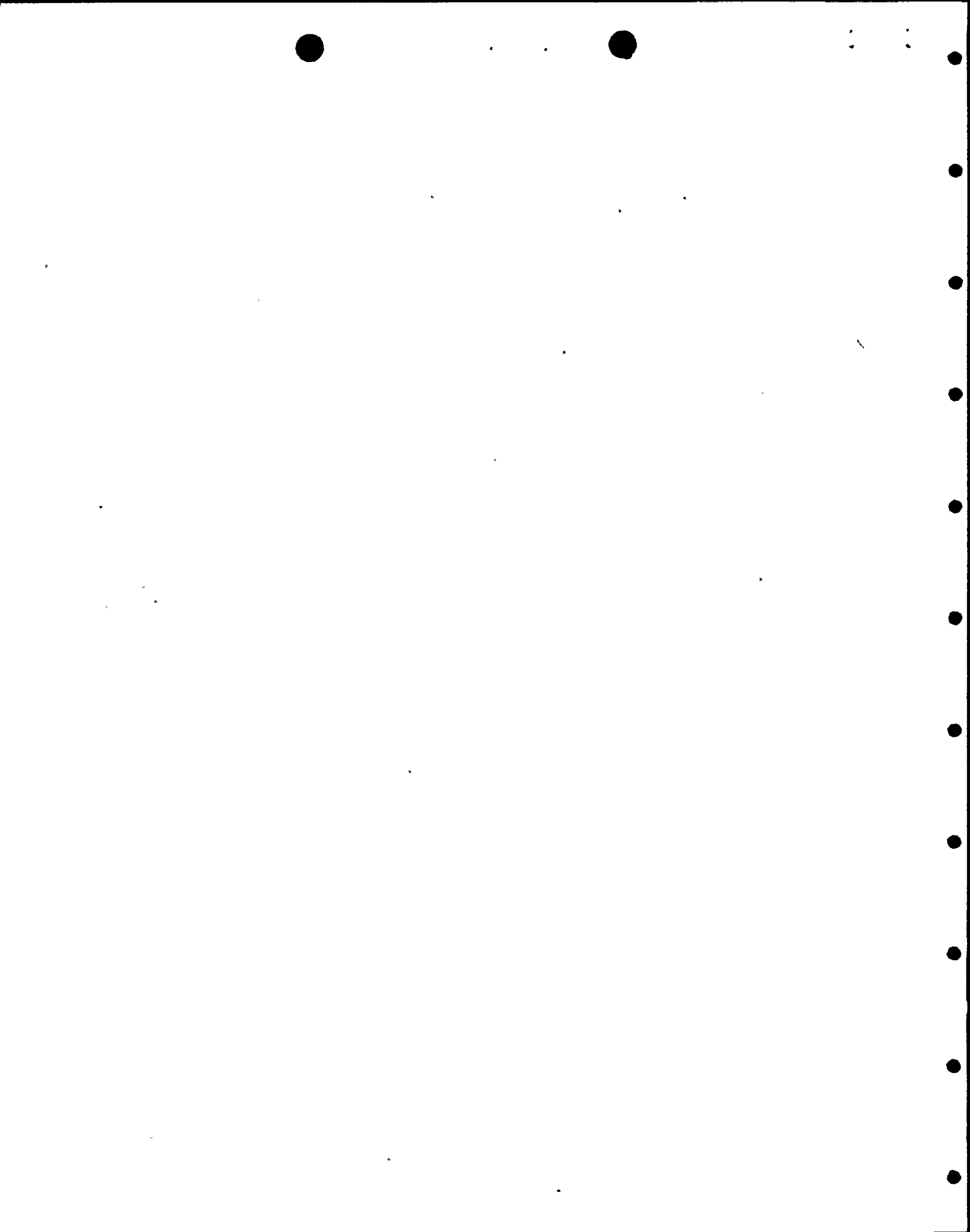
File Revision No. \_\_\_\_\_ is a Program Resolution Report which recategorized this item as a Closed Item.

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 ~~an~~ a Class C ~~or~~ ~~Class~~ Error. The PG&E document so informing the IDVP is DCP Completion Sheet dated 830413.

2. Signature: \_\_\_\_\_

*N. E. Cooper* 830414

Approved/Program Manager





PROGRAM RESOLUTION REPORT

File No. 1103

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 830415
4. Scheduled for TES Semimonthly Report No. May
5. Resolution based on the following documentation:

EOI 1103 Revision 1: Concern is that local pipe support loads are addressed in the qualification of supporting steel and that supporting steel is considered in the frequency calculation.

The IDVP verification program includes review of structural member qualifications for inclusion of local pipe support loads.

P105-4-1103-005 and 009 (DCP 11/3/82 and 3/21/83 responses).

The DCP considers all supporting steel between the piping and the building structure for the 20 hertz frequency criteria.

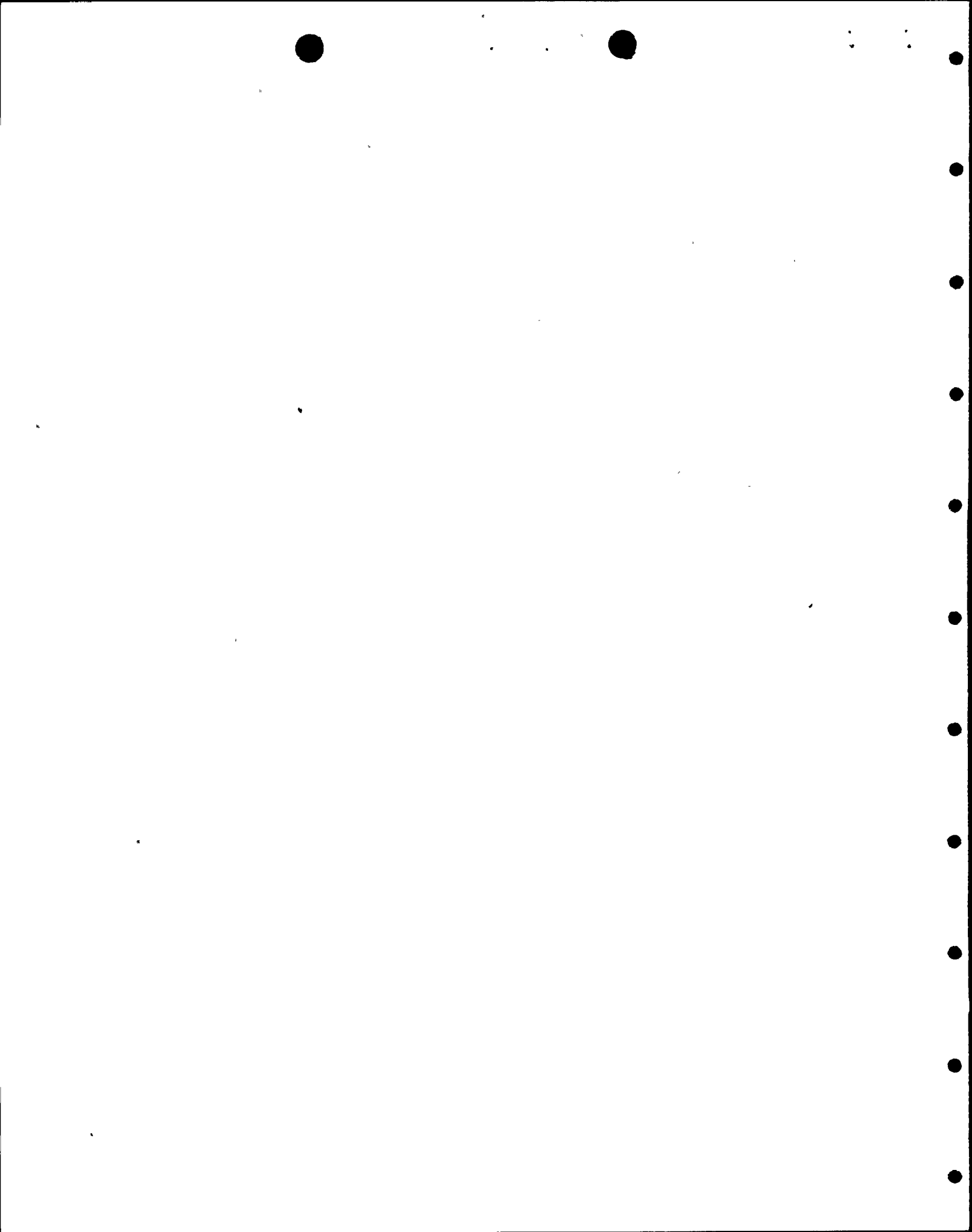
Rupture restraints between pipe supports and the building structure are considered rigid.

The DCP has provided rupture restraint frequency calculations and judged the frequencies of rupture restraints to be "...considerably greater than 33 hz." The IDVP concurs with this judgement.

6. Program Resolution is:

Closed Item.

7. Potential Program Resolution Report signed by Edward Denison/RLCA on 830407
8. Signature: *W.E. Gony* 830415 (Approved/Program Manager)



File No. 1103  
File Revision No. 9

IDVP COMPLETION REPORT

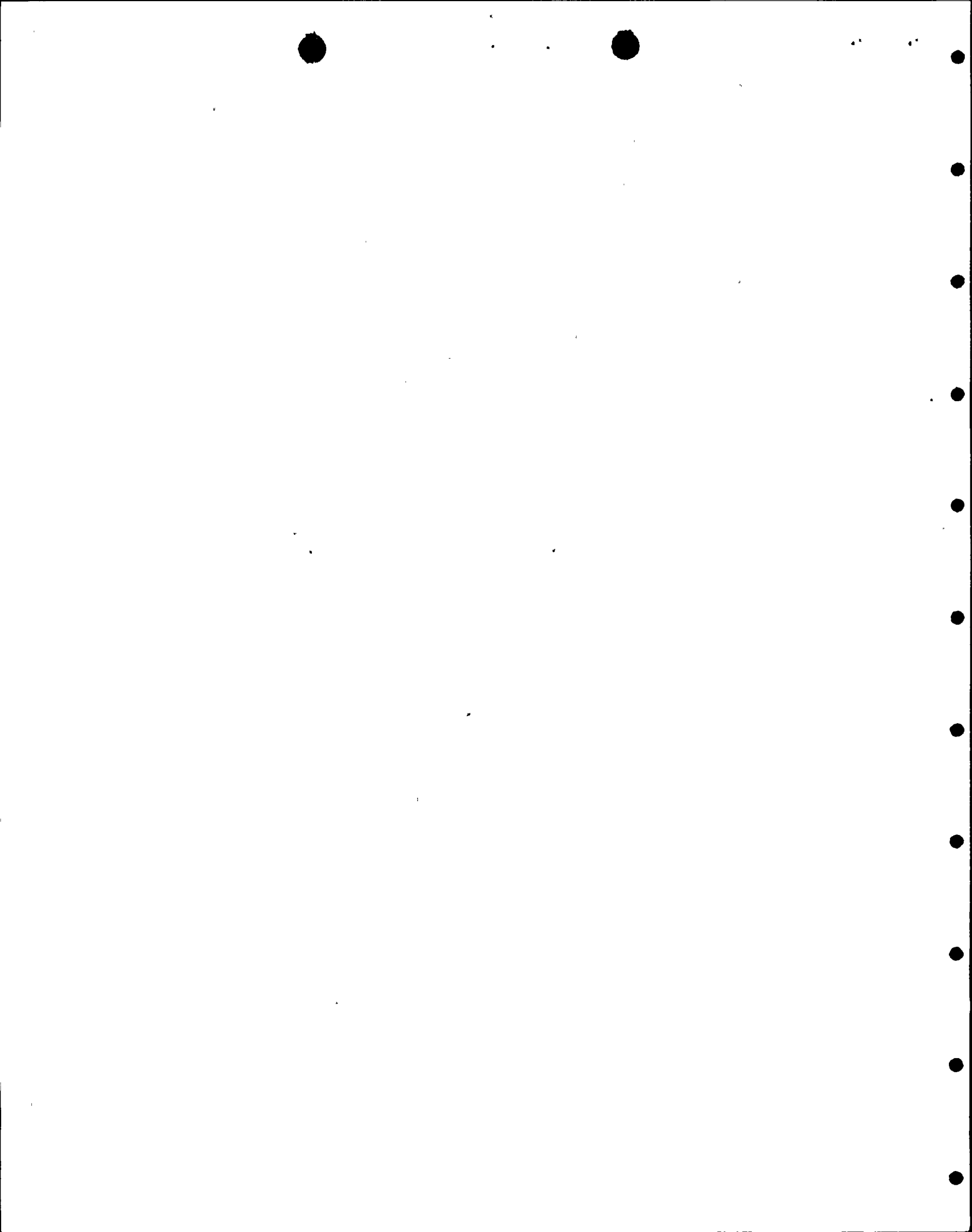
The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

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: W E Coyne 330410  
Approved/Program Manager



File No. 1117

File Revision No. 3

IDVP COMPLETION REPORT

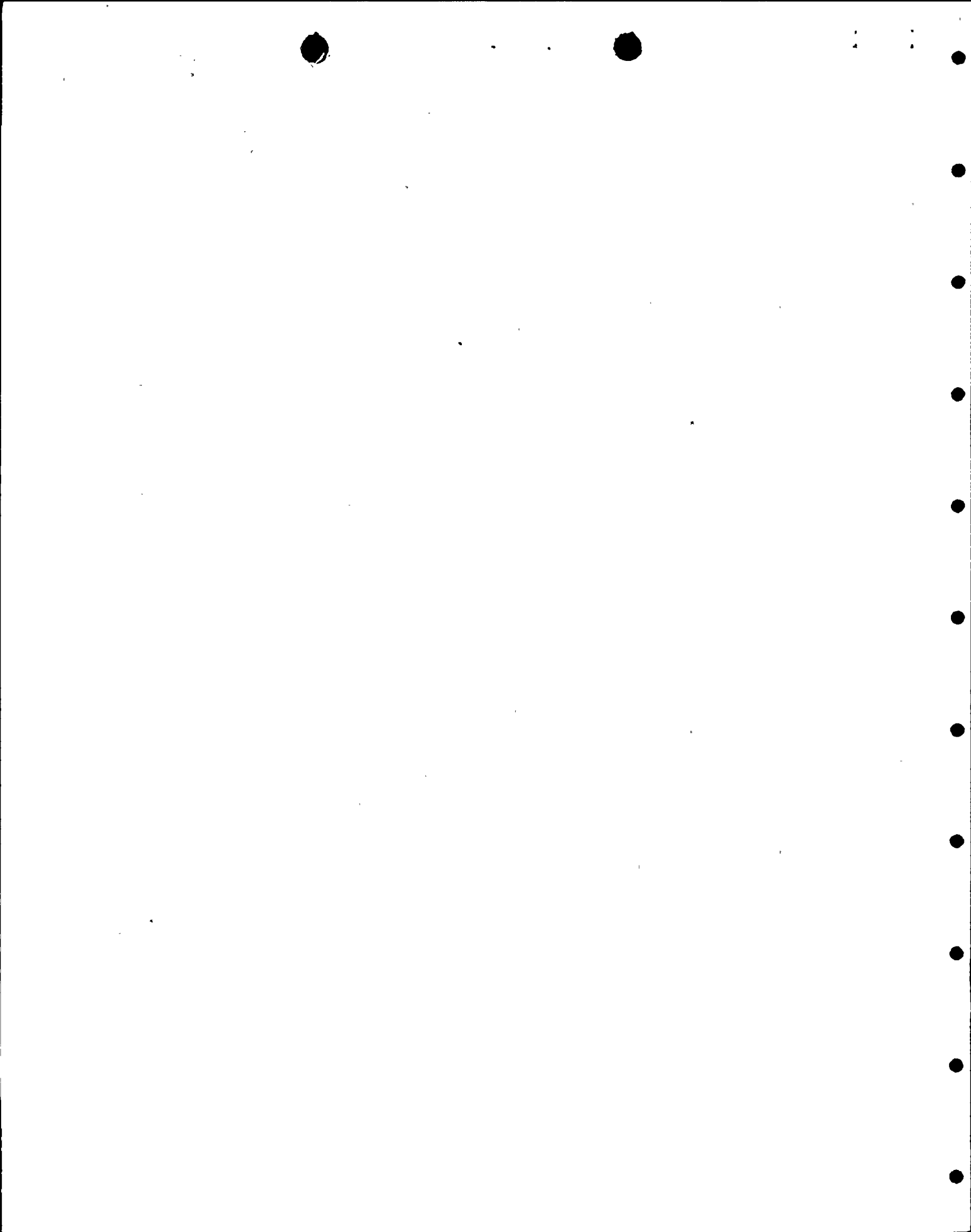
The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

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 ~~either a Degradeable or as~~ a Class C ~~or Class D~~. The PG&E document so informing the IDVP is DCP Completion Sheet dated 830418.

2. Signature: W.E. Coon 830419  
Approved/Program Manager



PROGRAM RESOLUTION REPORT

File No. 1118

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

480 VOLT VITAL LOAD CENTER

- (a) File Revision 4 was a Potential Error-Class C for the following reasons:

The original (pre 11/30/81) shake table test of this equipment noted only the wall and floor attachment at elevation 100 ft.

Field verification shows attachment to the ceiling at elevation 115 feet.

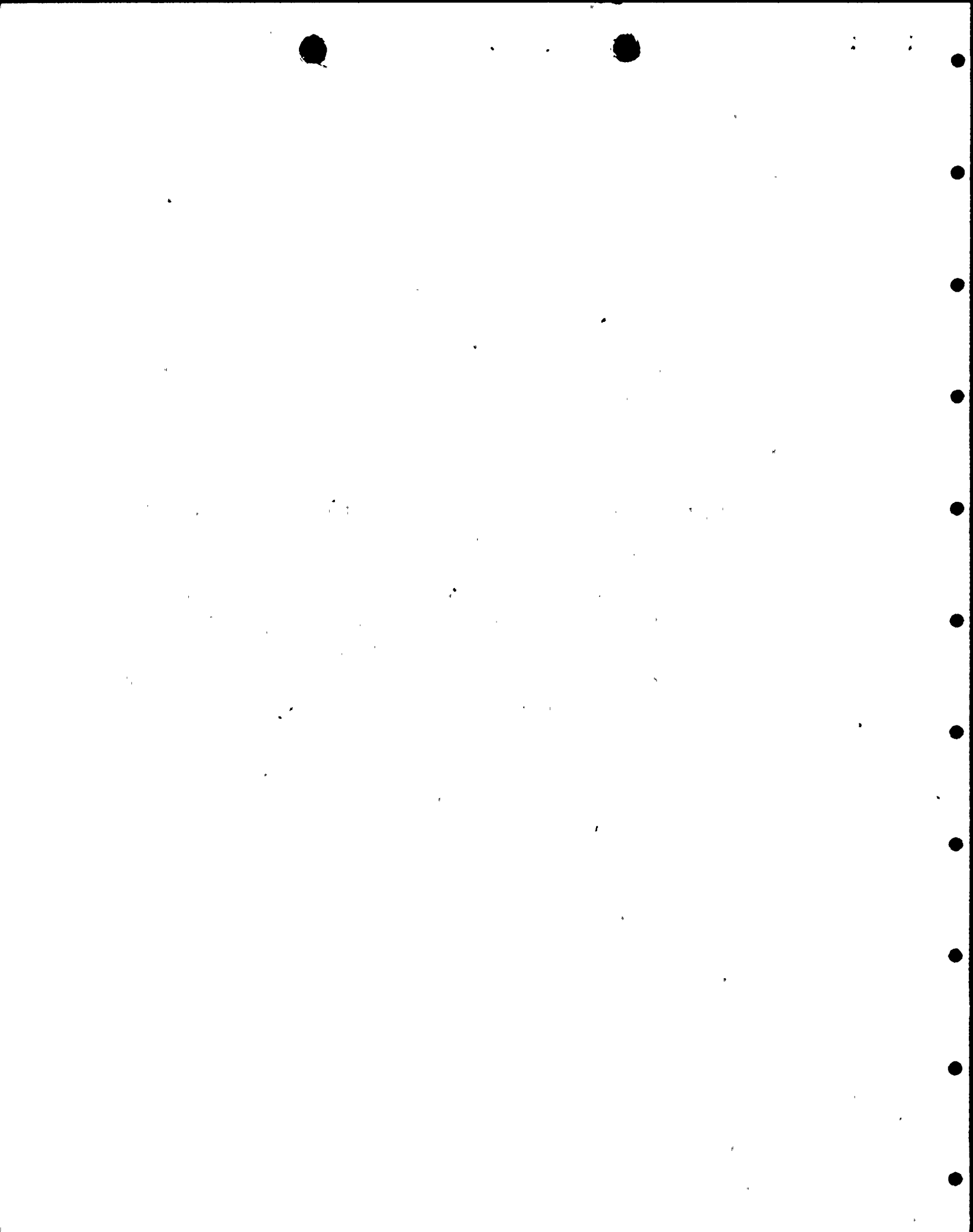
This attachment imposes higher seismic inputs to the equipment than exists at elevation 100 ft.

- (b) RLCA, however, had determined that the test response spectra does envelope the pre and post 11/31/81 Hosgri floor spectra at both elevations 100 and 115 feet. Consequently, this file was changed to a deviation based on discussions of the Program Review Committee on 4/15/83.

6. Program Resolution is:

Deviation. Original test report and results failed to acknowledge attachment to ceiling at elevation 115 feet where higher seismic inputs exist than at elevation 100 feet.

7. Potential Program Resolution Report signed by E. Denison/RLCA on 4/11/83  
Type Name/Organization Date
8. Signature: W. E. Coyle 830415 (Approved/Program Manager)





File No. 1118

File Revision No. 6

IDVP COMPLETION REPORT

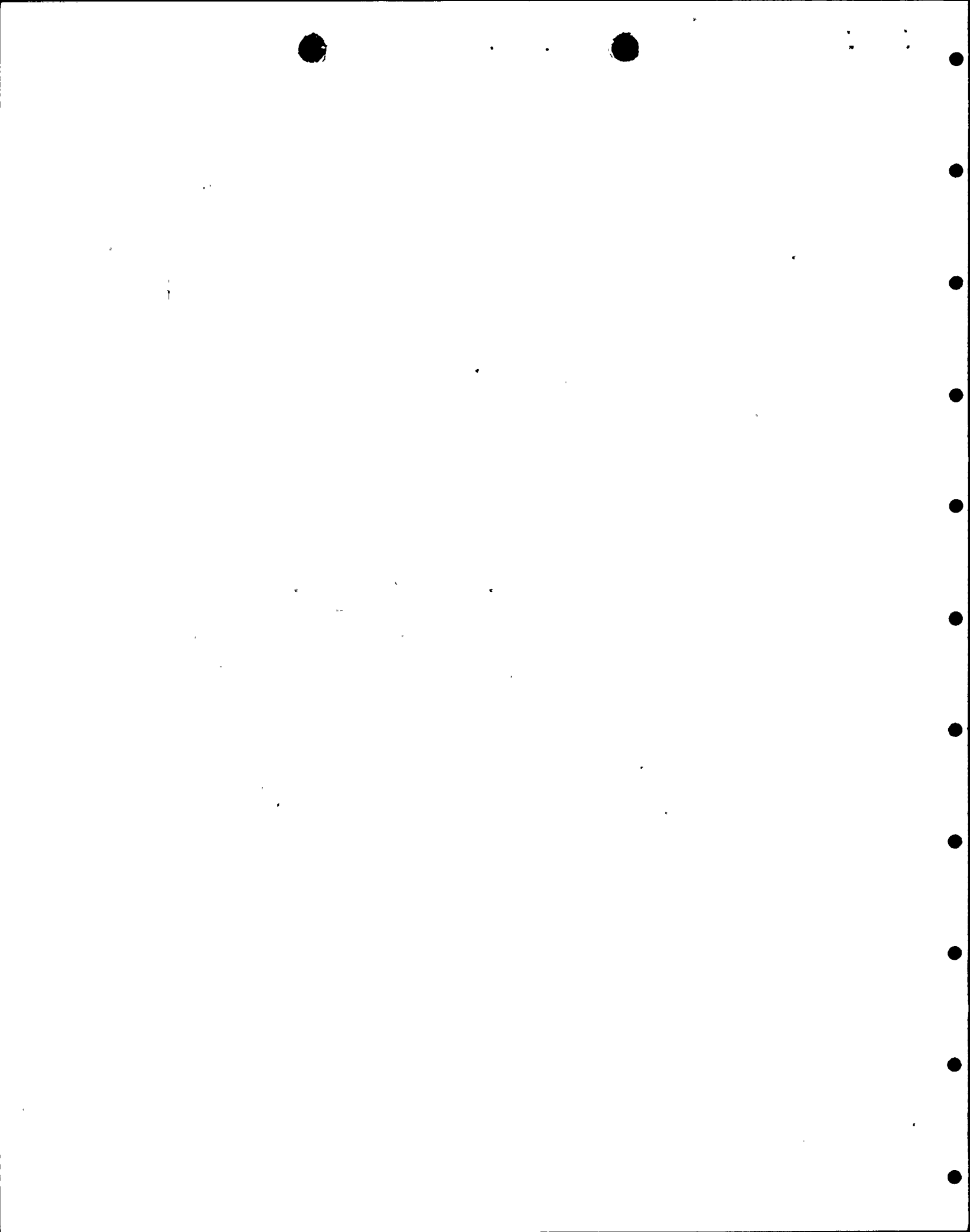
The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

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 ~~by response to~~ File Revision No. 5, ~~which~~ recategorized this item as ~~either~~ a Deviation ~~or as a Class~~ ~~ification~~. The PG&E document so informing the IDVP ~~is~~ That no modifications will be applied is DCP Completion Sheet dated 4/6/83.

2. Signature: *NE Gryn* 830415  
Approved/Program Manager



File No. 1119  
File Revision No. 3

IDVP COMPLETION REPORT

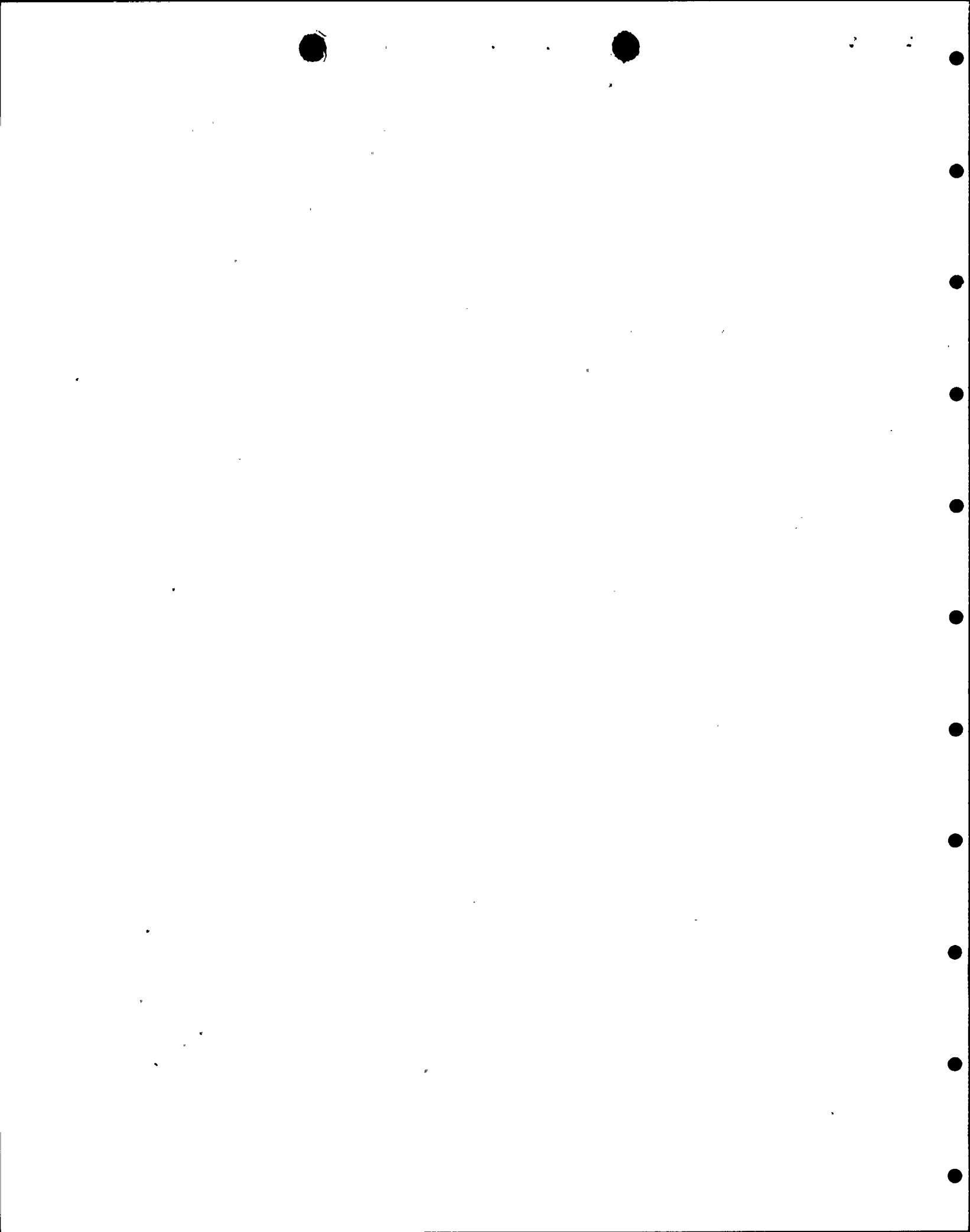
The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

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 ~~XXXXXX~~ a Class C ~~XXXXXX~~ Error. The PG&E document so informing the IDVP is DCP Completion Sheet, IDVP File No. 1119, dated 830408.

2. Signature: *R. Wray for W.C. Cooper* 830415  
Approved/Program Manager



OPEN ITEM REPORT

File No. 1120

File Revision No. 3

1. Date reported to PG&E and <sup>RLCA</sup>~~TES~~ 830420
2. Scheduled for TES (Originator) Semimonthly Report No. MAY
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~~ Downgrade of Error B.
5. Structure(s), system(s) or component(s) involved:

HVAC Component - Condenser CR-35

6. Description of Concern:

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.

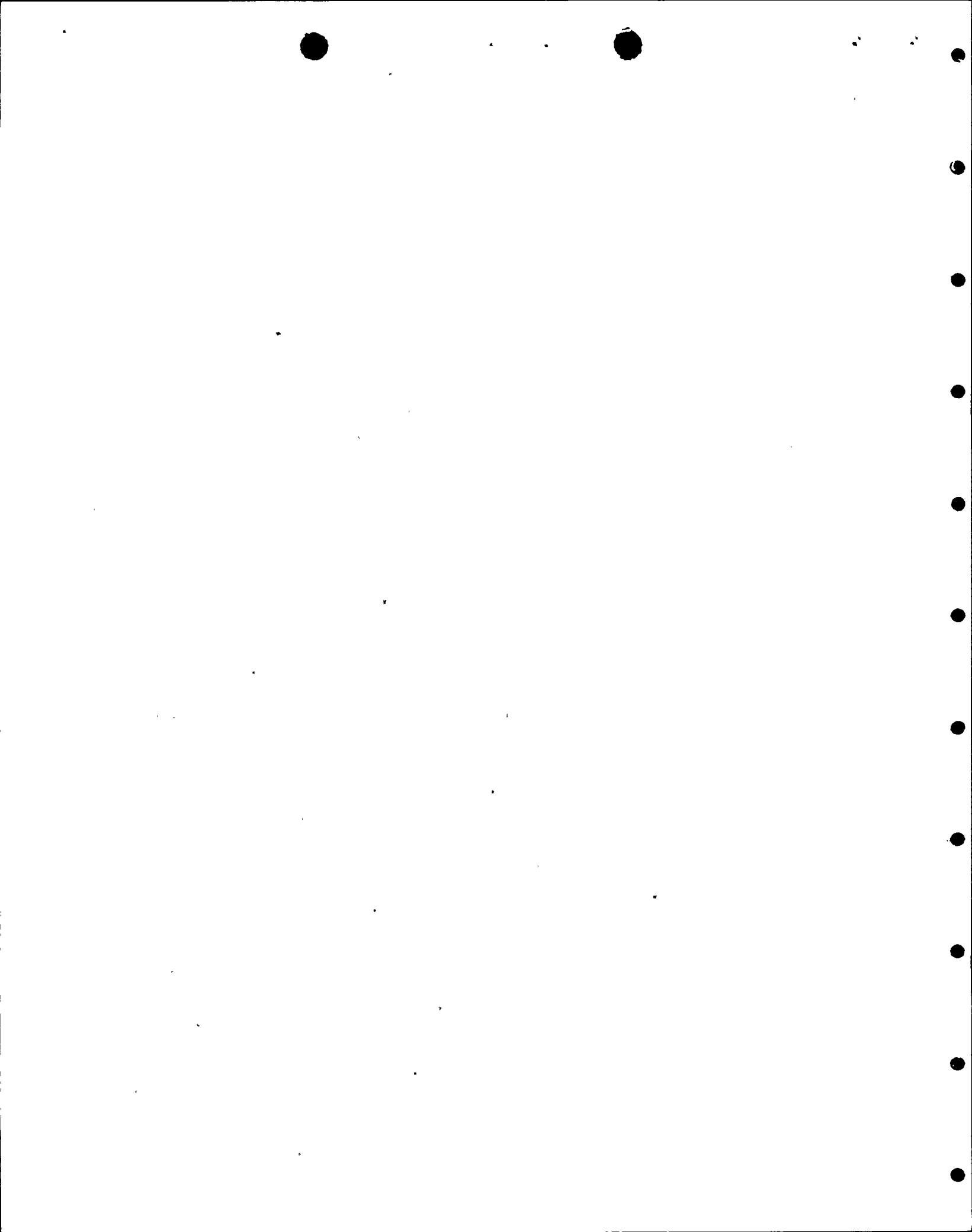
7. Significance of Concern:

The DCP included the original EDS bolt calculation in the DCP reanalysis package of the CR-35 condenser. The original EDS bolt calculation, however, did not reflect either the correct 1/2 inch bolt diameter or installed support configuration (original EDS analysis showed 4 bolts while the field verification revealed 6 bolts). The adverse effect of the lower bolt size on stress is compensated for by the increased number of bolts and overall bolt spacing. Consequently, the 1/2 inch bolt is not overstressed as an appropriate calculation, which is based on the installed configuration, demonstrated. In reviewing this file, TES now feels that this situation did not constitute a stress failure that had to be resolved by more realistic analysis, a condition which would have been an Error B. The use of incorrect field information contained in the DCP analysis package really constitutes an Error C since no design criteria or operating limits are exceeded.

8. Recommendation:

TES recommends RLCA review this file and consider downgrading it from an Error B to an Error C.

9. Signature: W E Coyne 830420 (Originator/Organization)



ERROR REPORT

File No. 1120

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 830504
- 2. Scheduled for TES Semimonthly Report No. May , \_\_\_\_\_
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

HVAC Component - Condenser CR-35.

4. Description of Error:

The Design Analysis of this component (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 incorrectly accepted as the as-built configuration in the Phase I DCP Corrective Action Program. IDVP field verification shows these bolts to be 1/2 inch.

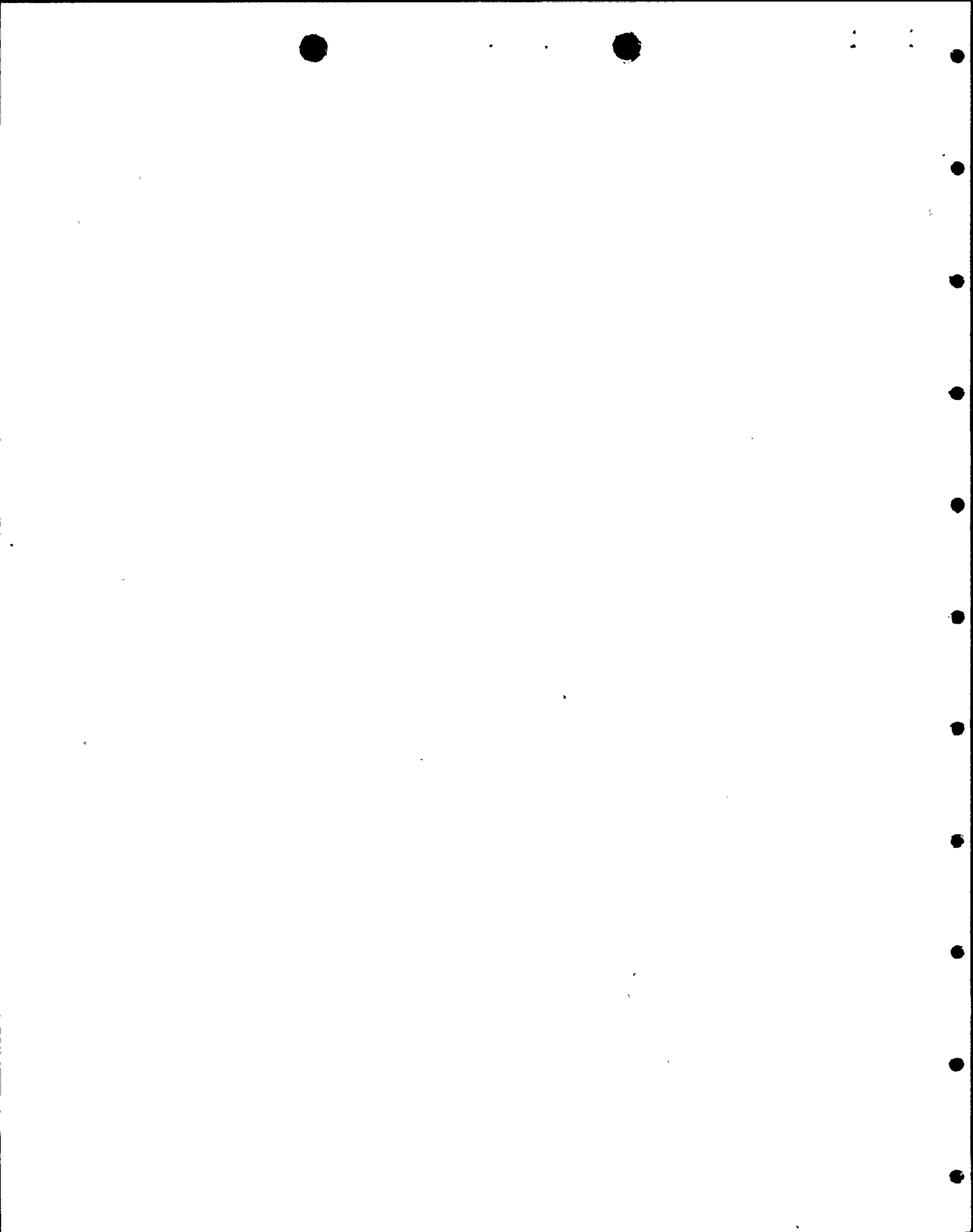
5. Significance of Error:

The DCP included the original EDS bolt calculation in the DCP reanalysis package of the CR-35 condenser. The original EDS bolt calculation, however, did not reflect either the correct 1/2 inch bolt diameter or installed support configuration (original EDS analysis showed 4 bolts while the field verification revealed 6 attachments). The adverse effect of the lower bolt size on stress is compensated for by the increased number of attachments and overall attachment spacing. Consequently, the 1/2 inch bolt is not overstressed as an appropriate calculation, which is based on the installation configuration, demonstrated. In reviewing this file, the IDVP now feels that this situation did not constitute a stress failure that had to be resolved by more realistic analysis, a condition which would have been an Error B. The use of incorrect field information contained in the DCP analysis package really constitutes an Error C since no design criteria or operating limits are exceeded.

6. Recommendation:

The IDVP originally factored the bolt stress in the Design Analysis by the difference in the bolt size (3/4 inch vs. 1/2 inch) to show an overstress. A more realistic approach by the IDVP would not yield an overstress condition. As a result, a downgrade is recommended to Error Class C (incorrect field information).

- 7. Potential Error Report signed by E. Denison (RLCA) on 830429
- 8. Signatures: NA Type Name/Organization Date  
For Program Review Committee Approved/Program Manager 830504





File No. 1120  
File Revision No. 6

IDVP COMPLETION REPORT

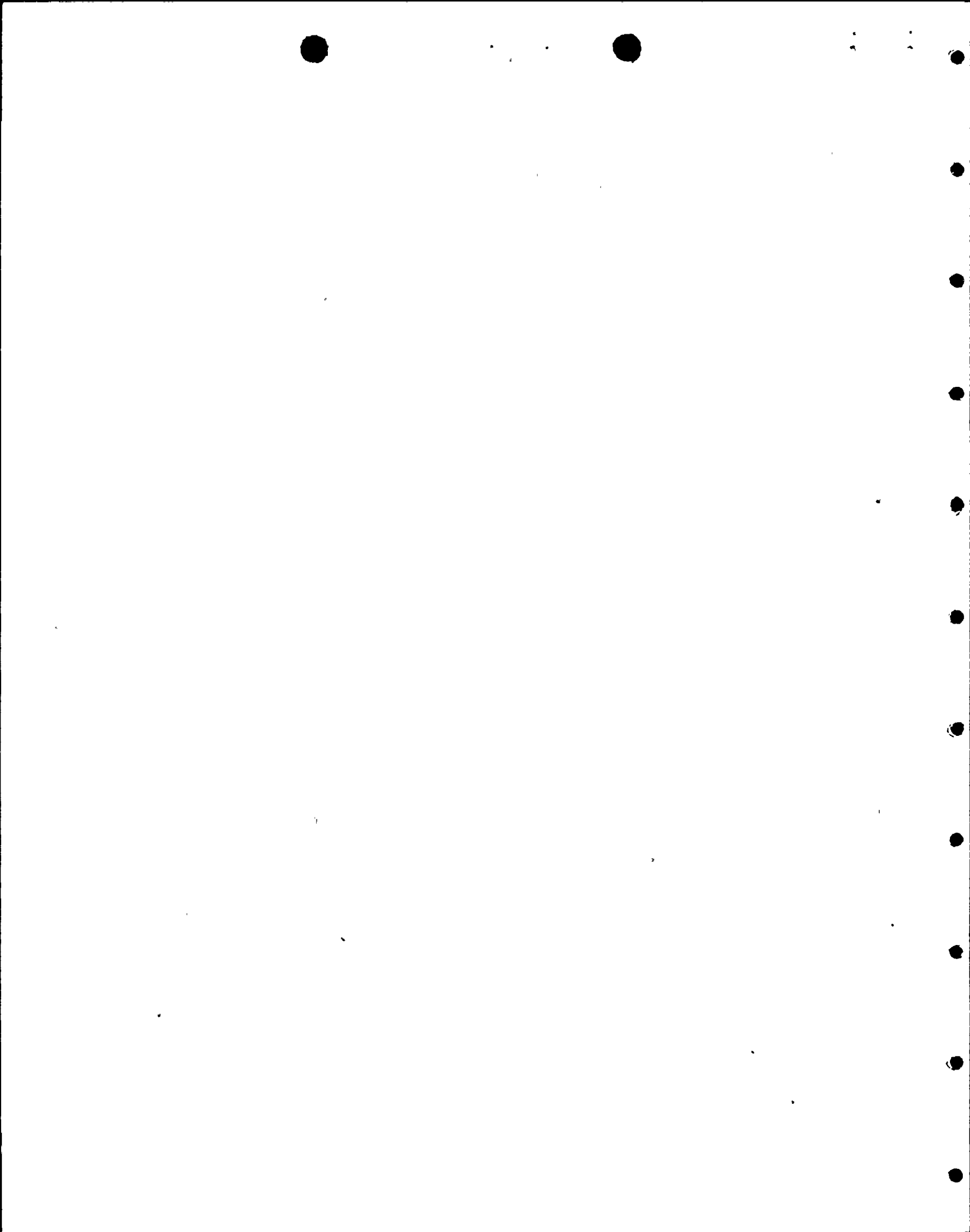
The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

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 ~~XXXXXX Deviation XXXX~~ a Class C ~~XXXXXXX~~ Error. The PG&E document so informing the IDVP is DCP Completion Sheet, IDVP File No. 1120.

2. Signature: *J E Coyne* 830507  
Approved/Program Manager



PROGRAM RESOLUTION REPORT

File No. 8021

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 830419
4. Scheduled for TES Semimonthly Report No. May
5. Resolution based on the following documentation:

EOI 8021, Revision 5.

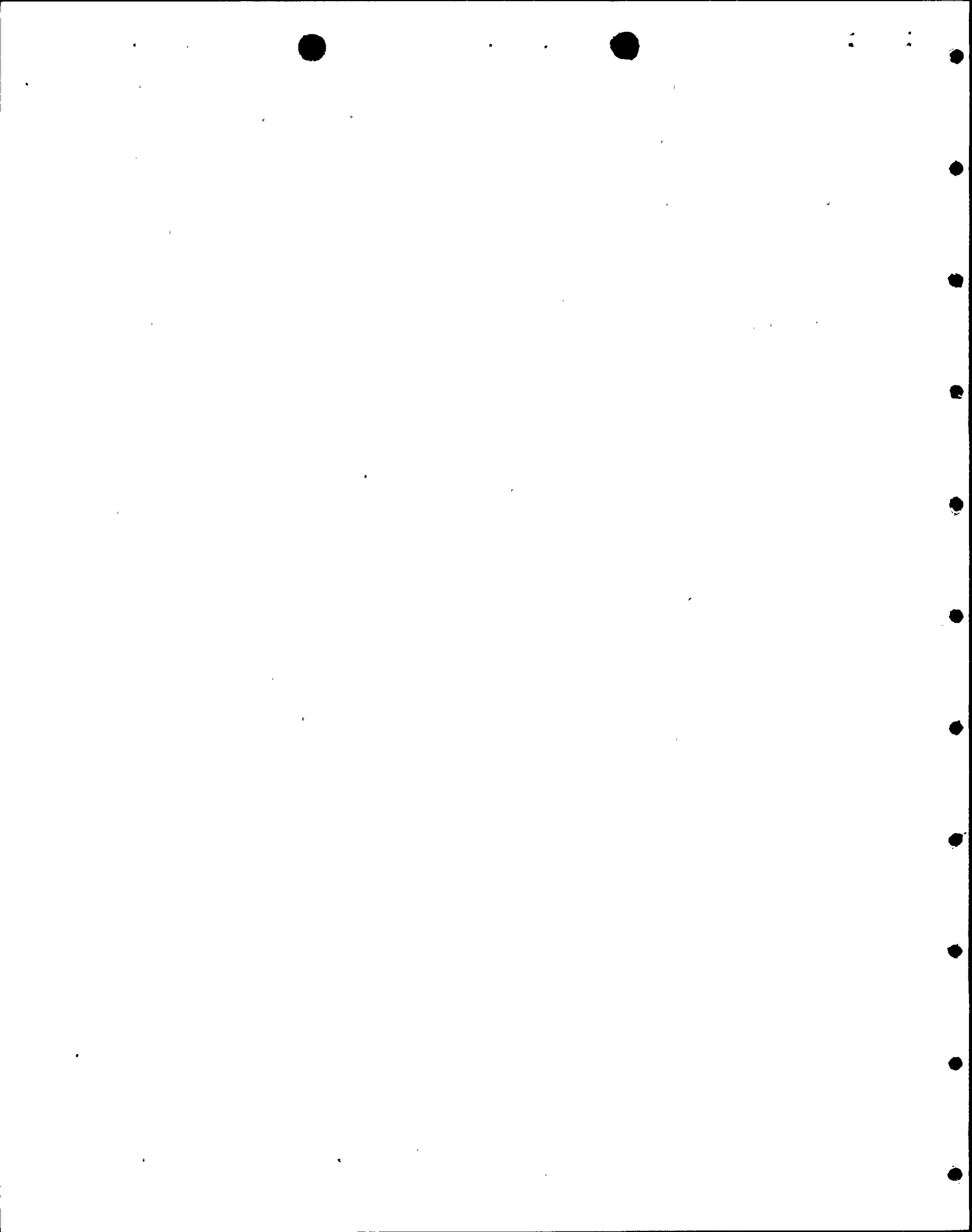
A field verification and review was performed of the AFW circuit routings as described in File Revision 5. A matrix analysis was performed based on this review and one fire zone was identified where circuitry required for operation of all three AFW trains is located such that a postulated fire could adversely affect the automatic operation of the AFW system. The fire zone is 3BB at elevation 100 ft. (Refer to File Revision 5 for sketch).

The conduit identified as being in this zone is K3482 which contains DC circuits 230D1 and 230D2. These are required for operation of FCV-95.

6. Program Resolution is:

The DCP should evaluate this concern and provide the IDVP with the results.

7. Potential Program Resolution Report signed by John Krechting (SWEC) on 830413
8. Signature: *John Krechting* 830419 (Approved/Program Manager)



OPEN ITEM REPORT

File No. 8021

~~TEX~~ SWEC 830428

File Revision No. 9

1. Date reported to PG&E and ~~TEX~~ 830428
2. Scheduled for TES (Originator) Semimonthly Report No. May
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.

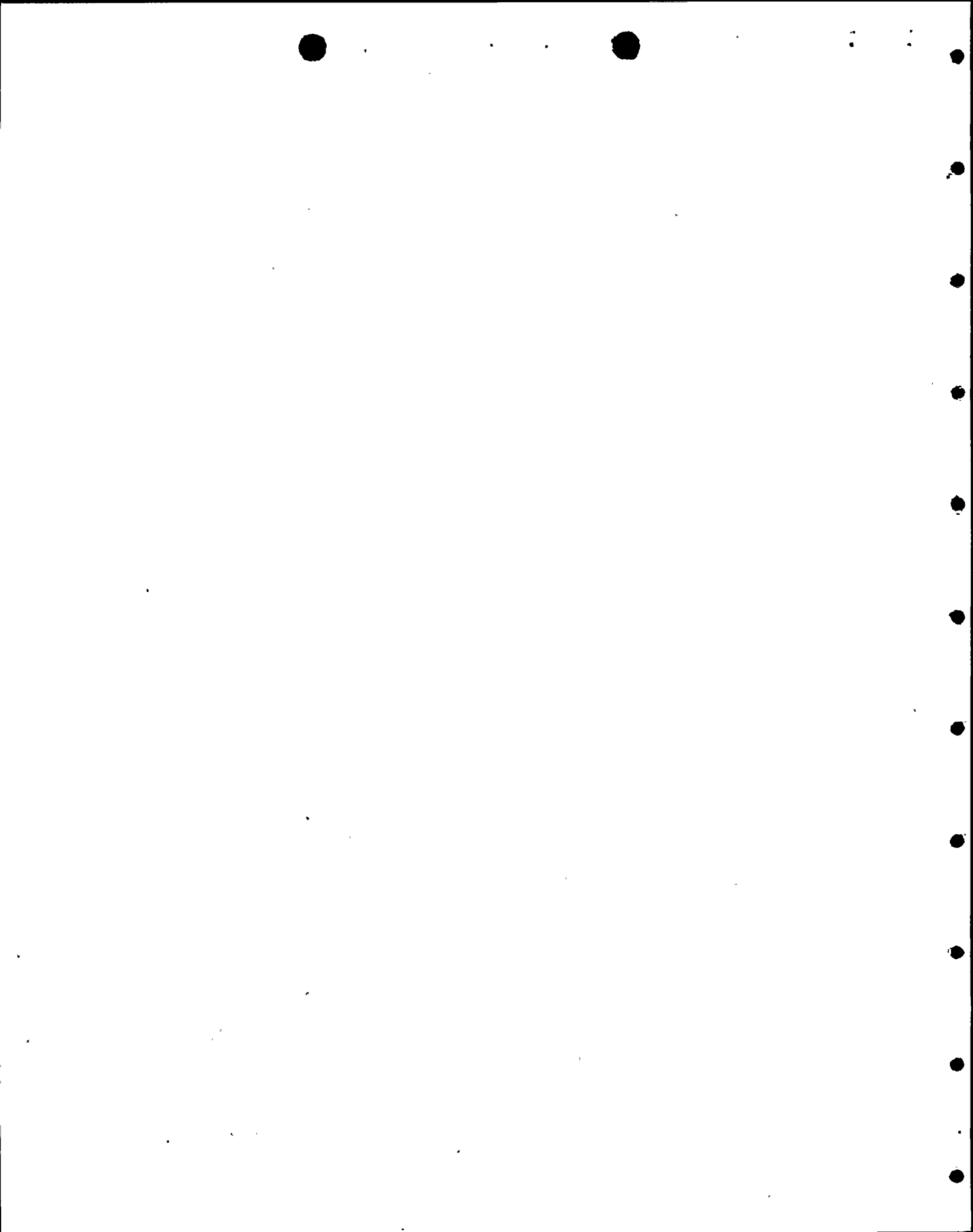
7. Significance of Concern:

Refer to EOI 8021, Revision 0.

8. Recommendation:

SWEC to review DCP response, IDVP File 8021 signed 830419, for future disposition.

9. Signature: *W. E. Cooney* 830428 (Originator/Organization)



ERROR REPORT

File No. 8021

Class: C  
A,B,C or D

File Revision No. 11

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

- 1. Dates: Reported to Program Review Committee NA  
 Program Review Committee Action NA  
 Reported to PG&E and Originator 830509
- 2. Scheduled for TES Semimonthly Report No. May
- 3. Structure(s), system(s), or component(s) involved: \_\_\_\_\_

AFW System Fire Protection.

4. Description of Error:

A fire in zone 3BB elevation 100 ft. (between column lines K and L) could adversely affect the automatic operation of all three AFW system trains. This concern is described in detail in Revision 7 of this EOI file.

5. Significance of Error:

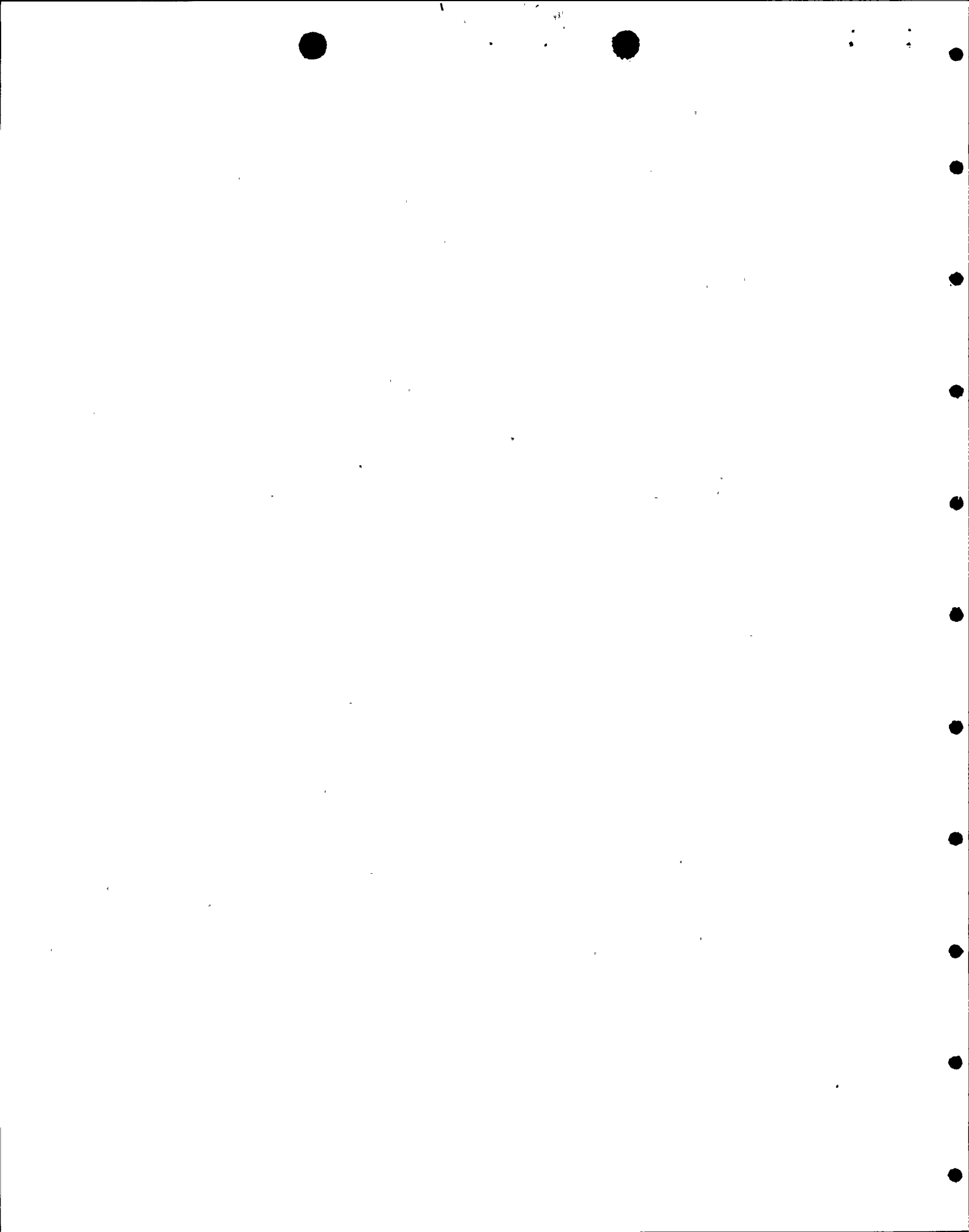
Loss of automatic function of all three AFW system trains could have an adverse effect on safe shutdown capability of DCNPP-1.

6. Recommendation:

The IDVP concurs that the circuit routing described in the DCP completion sheet, IDVP File 8021, Revision 3 signed 830419 will resolve this concern. This file will be closed after the FCV-95 d.c. circuit routing modifications are completed and field verified.

This file is downgraded from Error A/B to Error C because, although the as-built condition was not accurately described in the licensing documents, no violations of safety issues were revealed by the review.

- 7. Potential Error Report signed by J. Krechting (SWEC) on 830503  
 Type Name/Organization Date
- 8. Signatures: NA 830509  
 For Program Review Committee Approved/Program Manager





PROGRAM RESOLUTION REPORT

File No. 8022

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 830412
4. Scheduled for TES Semimonthly Report No. May
5. Resolution based on the following documentation:
  - a. DCP Completion Sheet, IDVP File 8022 signed 830207
  - b. DCP Completion Sheet, IDVP File 8022 signed 830302
  - c. DCP Completion Sheet, IDVP File 8022 signed 830323

File Revisions 5 and 7 addressed the concern that other safety-related circuit breakers may be subjected to excessive short circuit currents.

The above documentation confirms the adequacy of the 4160 V switchgear and the 480 V load center circuit breakers to interrupt the available short circuit currents.

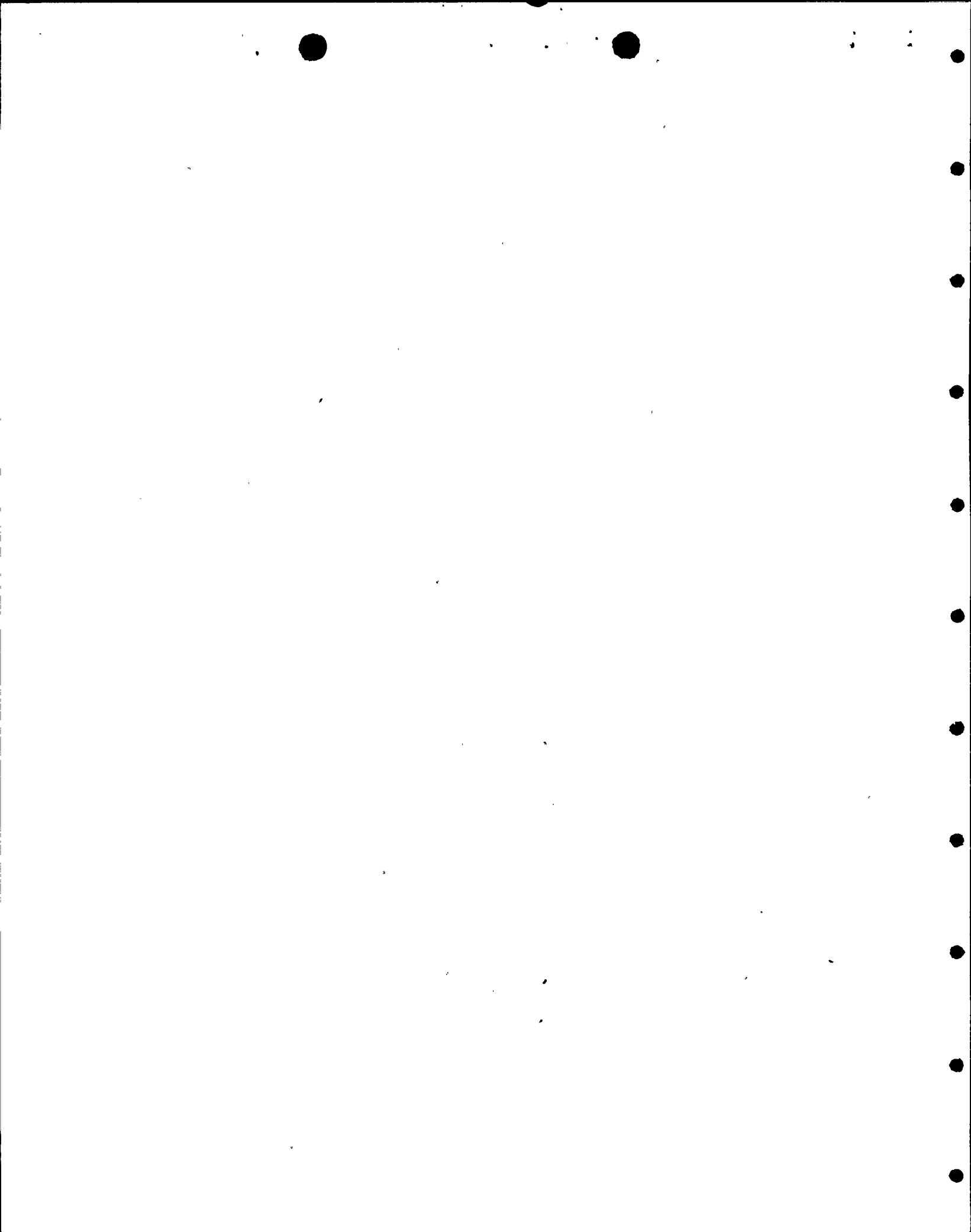
6. Program Resolution is:

This File is closed as a Deviation with no modifications required based on the DCP provided documentation confirming the suitability of the circuit breakers. This classification more appropriately indicates the significance of the concern.

The basis is that use of circuit breakers whose adequacy of interrupting capability is not indicated by the nameplate rating (4160 V System), but which has been confirmed by manufacturer's test, is a departure from standard procedure, but is not an error in analysis, design, or construction.

This File will be closed since no modifications are required.

7. Potential Program Resolution  
Report signed by John Krechting/SWEC on 830407  
Type Name/Organization Date
8. Signature: W. E. Boyer 830412 (Approved/Program Manager)



File No. 8022  
File Revision No. 10

IDVP COMPLETION REPORT

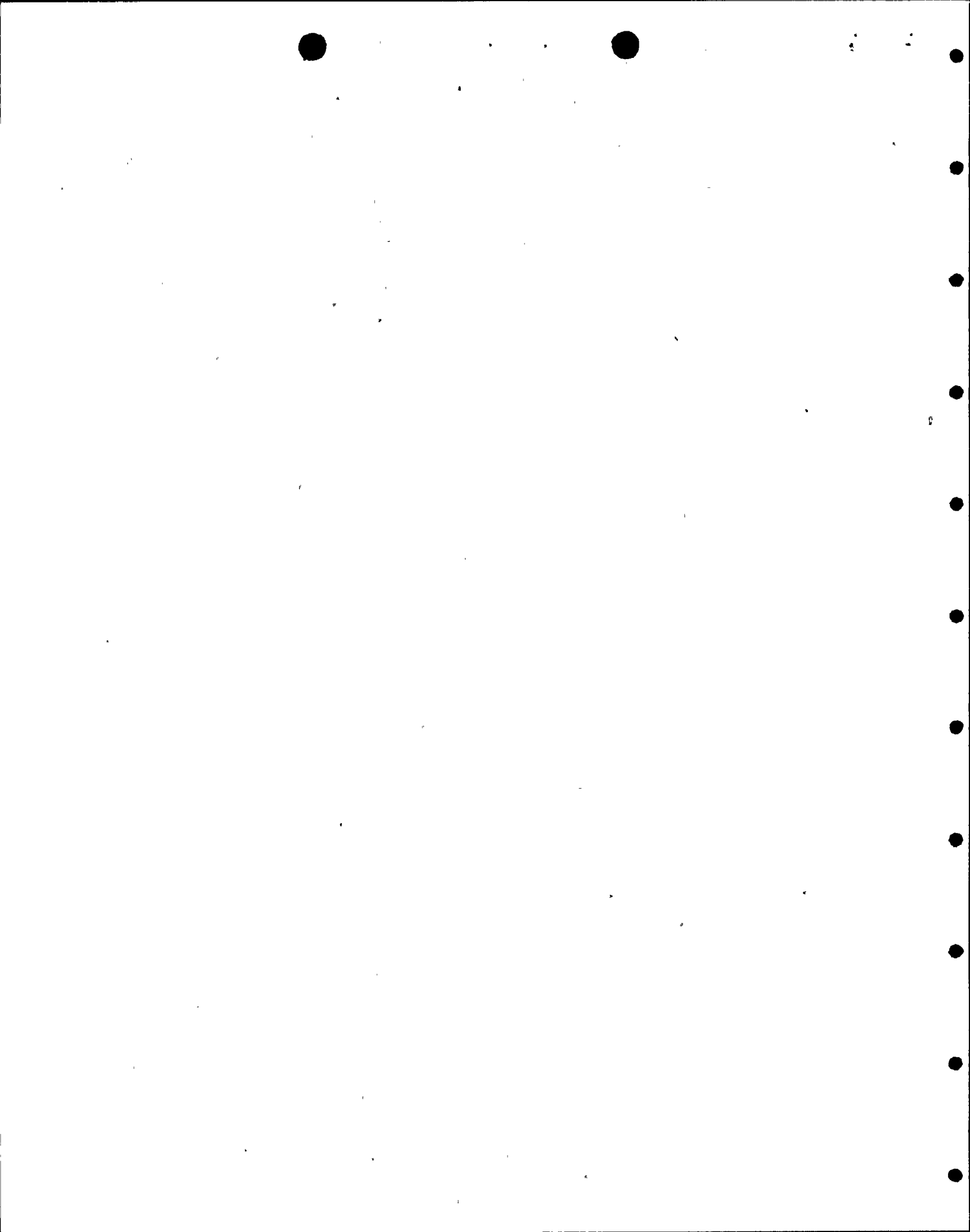
The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

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 ~~either~~ a Deviation ~~or~~ ~~as~~ ~~a~~ ~~Class~~ ~~ification~~ ~~or~~ ~~as~~ ~~a~~ ~~Class~~ ~~ification~~. The PG&E document so informing the IDVP is DCP Completion Sheet IDVP File 8022 signed 830323.

2. Signature: *W E Coogan* 830412  
Approved/Program Manager



OPEN ITEM REPORT

File No. 8049

SWEC

File Revision No. 13

1. Date reported to PG&E and ~~TES~~ SWEC 830428
2. Scheduled for TES (Originator) Semimonthly Report No. May
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 10.

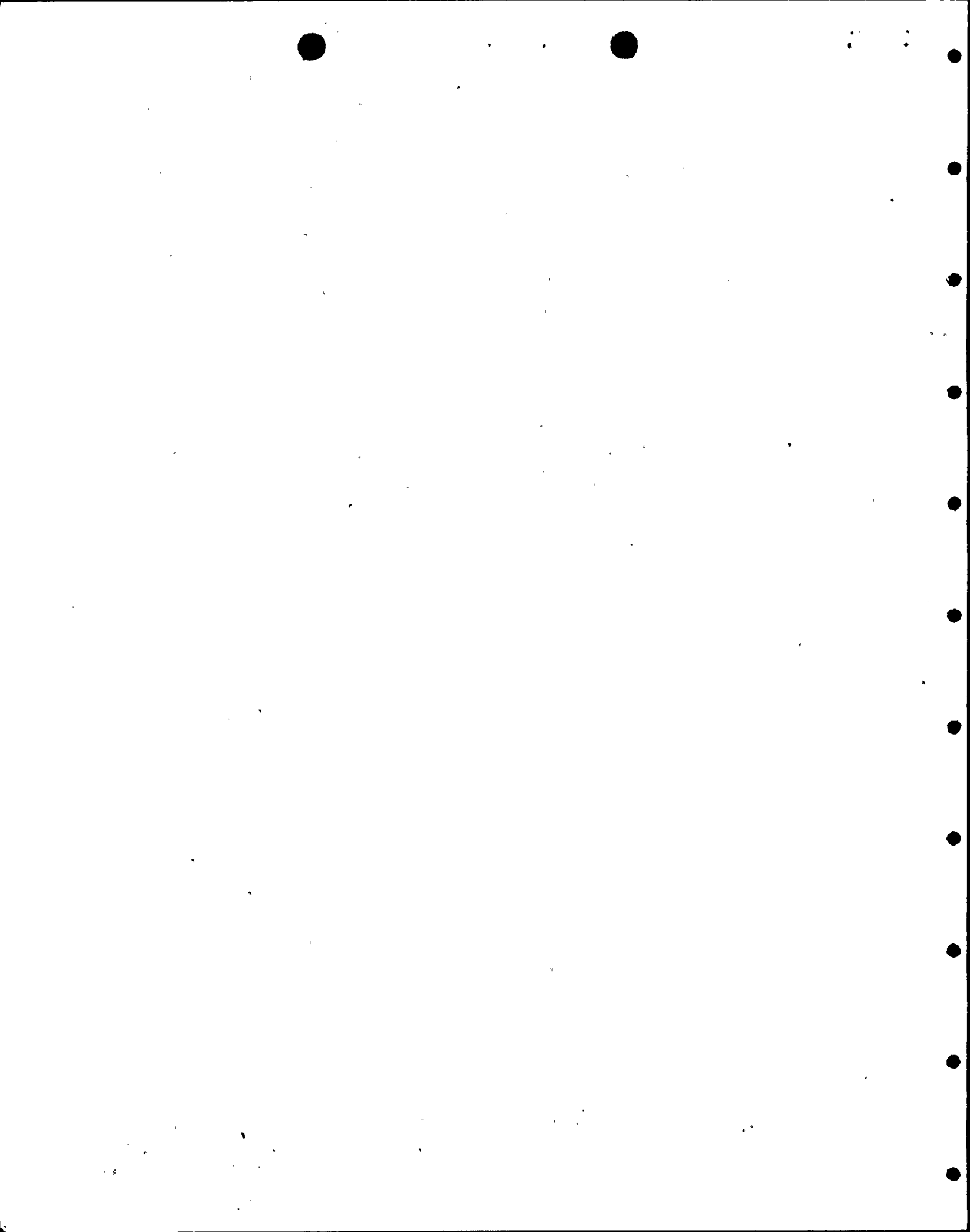
7. Significance of Concern:

Refer to EOI 8049, Revision 10.

8. Recommendation:

SWEC to review DCP response, IDVP File 8049 signed 830402, for future disposition.

9. Signature: *W E Long* 830428 (Originator/Organization)



PROGRAM RESOLUTION REPORT

File No. 8049

File Revision No. 15

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 830509
4. Scheduled for TES Semimonthly Report No. May
5. Resolution based on the following documentation:

DCP Completion Sheet, IDVP File 8049, Revision 10 signed 830422.

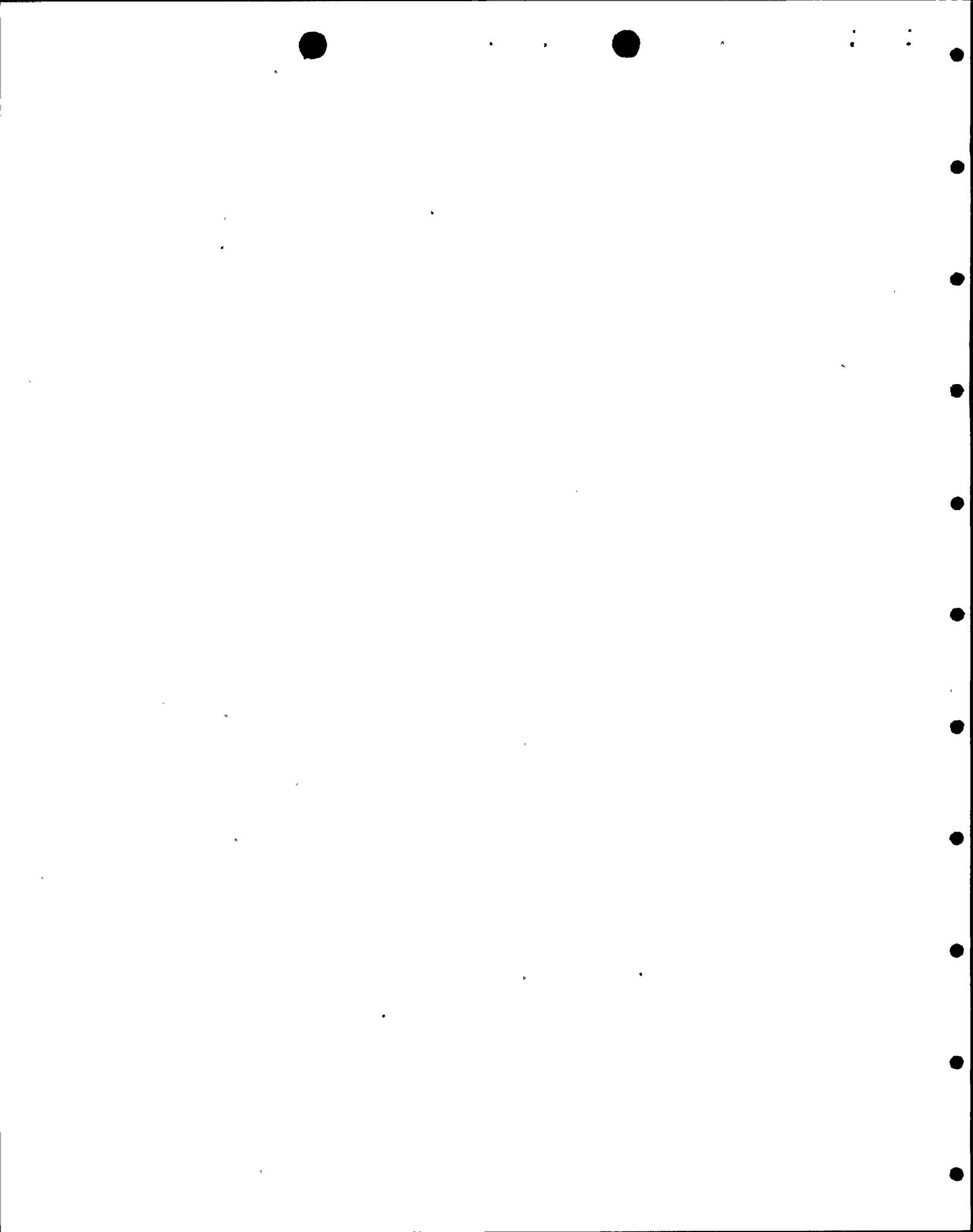
The longitudinal split location proposed by the DCP, i.e., at the mid-point of the bend of the elbow, does not correspond to node 1800 on line 594 (see Fig. 7-12 of FSAR Appendix 3.6). The IDVP's interpretation of the NSC break postulations outside containment is that both circumferential and longitudinal breaks were taken at the nodal points shown on the isometric drawings included in FSAR Appendix 3.6. Consequently, with the longitudinal split assumed to be at node 1800, i.e., at the end of the elbow, of line 594, the resulting vertical jet blowdown is considered to interact with conduit KK792. However, since the DCP calculated jet pressure on conduit KK792 is below the DCP allowable jet pressure (42PSIG) it can be concluded that jet impingement from the longitudinal split at node 1800 will have no adverse affect on conduit KK792.

6. Program Resolution is:

Acceptable since the jet impingement has no adverse affect on conduit KK792.

This file is closed.

7. Potential Program Resolution Report signed by J. Krechting (SWEC) on 830502
8. Signature: *J. Krechting* 830509 (Approved/Program Manager) Date





File No. 8049  
File Revision No. 16

IDVP COMPLETION REPORT

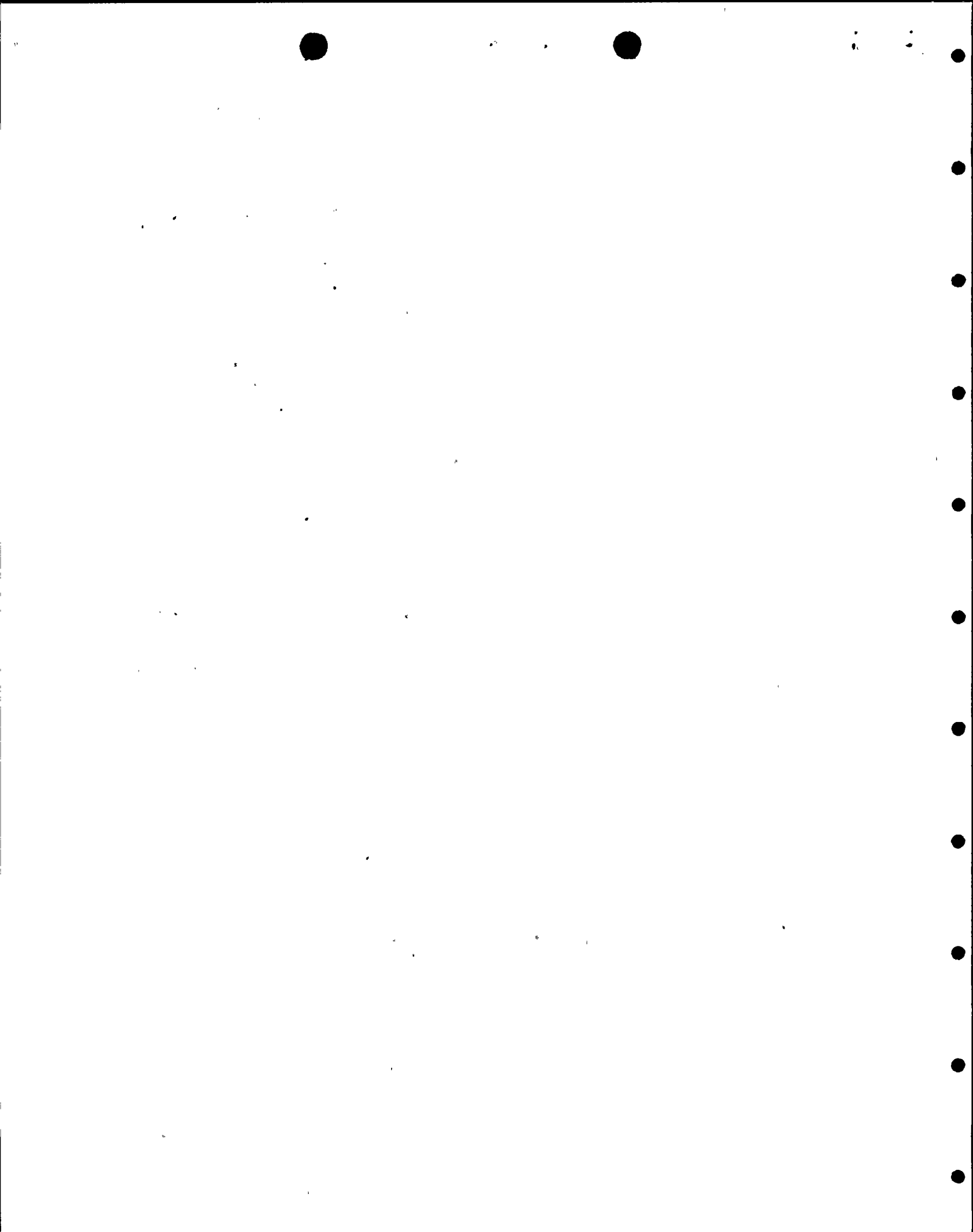
The DCNPP Independent Design Verification Program (IDVP) effort related to the above File Number is complete.

1. The action which completes the IDVP effort is:

File Revision No. 15 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 Cooy* 830509  
Approved/Program Manager



File No. 8063  
File Revision No. 9

IDVP COMPLETION REPORT

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

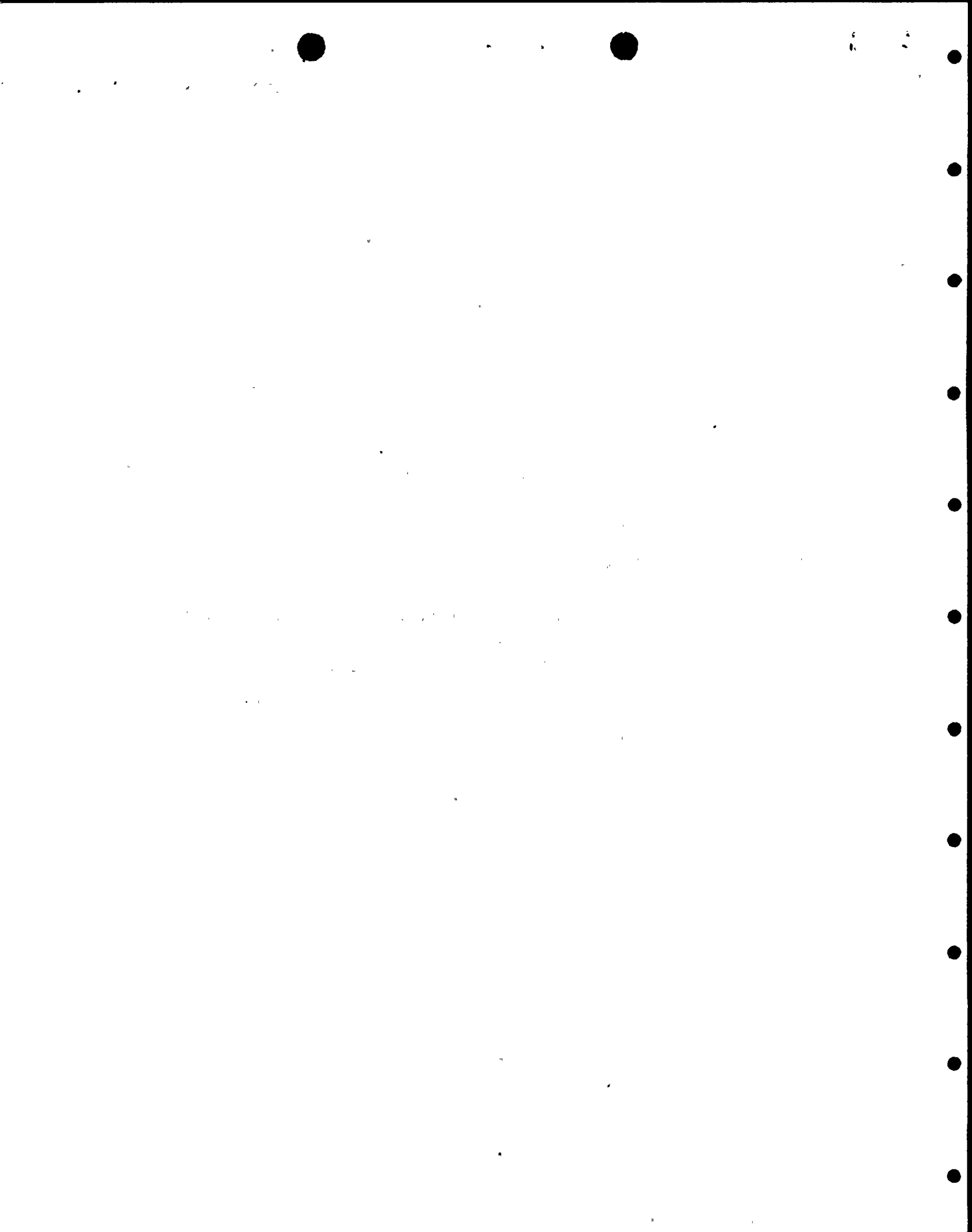
1. The action which completes the IDVP effort is:

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 will be applied by PG&E in response to File Revision No. 7, which recategorized this item as ~~either~~ a Deviation ~~or a~~ ~~Deviation~~ ~~or a~~ ~~Deviation~~ ~~or a~~ ~~Deviation~~. The PG&E document so informing the IDVP is DCP Completion Sheet IDVP File 8063 signed 830321.

2. Signature:  830412  
Approved/Program Manager

Note: This revision is issued to clarify the category of this File as a Deviation.



APPENDIX A  
LOOKAHEAD



TABLE A-1

LOOKAHEAD REPORT

MAY 13, 1983 THROUGH JUNE 10, 1983

| <u>DATE(S)</u> | <u>LOCATION</u> | <u>SUBJECT</u>                                                                                                                                                                                             | <u>PARTICIPANTS</u> |
|----------------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 5/19/83        | Site Visit      | Examine Electrical Raceway and Instrumentation Supports                                                                                                                                                    | TES/RLCA            |
| 5/24-26/83     | Site Visit      | <ol style="list-style-type: none"> <li>1. Examine Electrical and I&amp;C Devices and Enclosures</li> <li>2. Jet Impingement Walkdown Review</li> <li>3. Verification of Completed Modifications</li> </ol> | TES/SWEC            |

