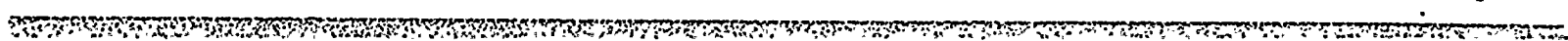


DIABLO CANYON NUCLEAR POWER PLANT
INDEPENDENT DESIGN VERIFICATION PROGRAM
SEMIMONTHLY REPORT
IDVP - SM - OCTOBER
OCTOBER 8, 1982

UNCONTROLLED COPY

PREPARED BY:
TELEDYNE ENGINEERING SERVICES
IDVP PROGRAM MANAGER

8210250201 821008
PDR ADDCK 05000275
R PDR



PROGRAM RESOLUTION REPORT

File No. 961

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 820921
4. Scheduled for TES Semimonthly Report No. October
5. Resolution based on the following documentation:

Support 11/59SL is shown to be active in the vertical direction on PG&E Design Review Isometric 445884 Revision 8. RLCA field inspection showed two skewed snubbers 20 and 25 degrees respectively from vertical. The seismic load computed (RLCA) is greater than that computed in the design analysis.

6. Program Resolution is:

Based on PG&E Presentations (August 6, 1982 and August 26, 1982) of their Internal Technical Program of Piping, this File combines with Files 1021, 1058, 1059, and 1098 into one Error Class A or B File.

File 1098 includes all concerns of these Files and has been designated as an Error Class A or B.

7. Potential Program Resolution
Report signed by Edward Denison/RLCA on 820913
Type Name/Organization Date
8. Signature: *Edward Denison* 820921 (Approved/Program Manager)

File No. 961

File Revision No. 6

IDVP COMPLETION REPORT

1

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

1. The action which completes the IDVP effort is:

File Revision No. 5 is a Program Resolution Report which 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. Cozart* 820961
Approved/Program Manager

ERROR REPORT

File No. 1003

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

File Revision No. 5

PG&E Task No. 70075

- 1. Dates: Reported to Program Review Committee 820929
 Program Review Committee Action 820929
 Reported to PG&E and Originator 821005
- 2. Scheduled for TES Semimonthly Report No. October
- 3. Structure(s), system(s), or component(s) involved:

HVAC Duct Support

4. Description of Error:

EOI 1003 Revision 2: Hosgri duct support qualifications for the Turbine Building 4KV Switchgear Room HVAC Systems have not been located as of October 28, 1981 (Area A).

The PG&E duct support calculations dated prior to October 28, 1981 are included in the PG&E resolution package (Fray to Denison - 6/15/82) P105-4-1003-008. These calculations are applicable to detail 5/440 and are titled "Ventilation Duct Seismic Support 'Hosgri Evaluation' Auxiliary Building - Diablo Canyon

Revision 4 to this file was a Potential Error Report Class C. Based on the 9/17/82 submittal of the DCP Phase I Final Report in which the DCP has stated that the HVAC supports are being reanalyzed, the IDVP Program Review Committee on 9/29/82 decided to change this to an Error A or B. The IDVP also decided to combine File 1077 with this file.

5. Recommendation:

Error A or B, based on the ITP reanalysis effort stated in the DCP Phase I Final Report (9/17/82 submittal). Because of ITP reanalysis the IDVP Program Review committee changed to this from a Potential Error C (Revision 4 of this file). The IDVP will also combine File 1077 on HVAC supports into this file.

6. Potential Error Report signed by Edward Denison on 820825
Type Name/Organization Date

7. Signatures: Ronald Fray 821005 R. E. Coyle 821005
For Program Review Committee Approved/Program Manager

PROGRAM RESOLUTION REPORT

File No. 1021

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 820921
4. Scheduled for TES Semimonthly Report No. OCTOBER
5. Resclution based on the following documentation:

PG&E piping analysis number 4-3 (Revision 16, 3/4/80) represents the Component Cooling Water Heat Exchanger as a rigid anchor. The Hosgri Report (Table 7-5) lists natural frequencies of 9 hertz (horizontal and vertical) for this heat exchanger. The modeling of a nonrigid piece of equipment as a rigid anchor may not be conservative.

6. Program Resolution is:

Based on PG&E presentations (August 6, 1982 and August 26, 1982) of their Internal Technical Program of Piping, this File combines with Files 961, 1058, 1059, and 1098 into one Error Class A or B File.

File 1098 includes all concerns of these Files and has been designated as an Error Class A or B.

7. Potential Program Resolution
Report signed by Edward Denison/RICA on 820913
Type Name/Organization Date
8. Signature: WE Logan 820921 (Approved/Program Manager)

File No. 1021

File Revision No. 6

IDVP COMPLETION REPORT

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

1. The action which completes the IDVP effort is:

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

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

2. Signature: WE Coyle 820921

Approved/Program Manager

PROGRAM RESOLUTION REPORT

File No. 1047

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 821005
4. Scheduled for TES Semimonthly Report No. October
5. Resolution based on the following documentation:

Small Bore Piping

EOI 1047 Revision 3: Lines 32, 1550 and 30 are shown on PG&E design review isometric 447115 Revision 6 to have no supports. RLCA field inspection showed these line segments to have untagged supports.

P105-4-591.5-138 RLCA field notes.

P105-4-454-287, 289 and 290 small bore isometrics H8-223 (Revision 5 1/19/82), H08-228 (Revision 5 11/14/79) and H08-230 (Revision 3 11/7/79).

P105-4-1047-010 PG&E response to EOI 1047 (Fray to Denison 7/20/82): "Details of small bore lines, including support type and location, are shown on small bore isometrics not large bore design review isometrics." Lines 32, 1550 and 30 are small bore lines.

6. Program Resolution is:

The small bore isometrics supplied by PG&E show the supports indicated by RLCA field notes. This EOI is therefore closed.

7. Potential Program Resolution
Report signed by Edward Denison on 820911
Type Name/Organization Date
8. Signature: W P Coy 821005 (Approved/Program Manager)

File No. 1047

File Revision No. 6

IDVP COMPLETION REPORT

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

1. The action which completes the IDVP effort is:

File Revision No. 5 is a Program Resolution Report which 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 821005
Approved/Program Manager

PROGRAM RESOLUTION REPORT

File No. 1058

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 820921
4. Scheduled for TES Semimonthly Report No. October
5. Resolution based on the following documentation:

Small Bore Piping-Load Combinations at single lug design locations were found to exceed the allowable criteria in several cases. For two lug design, all met criteria except 4 inch 10S. Both cases were analyzed assuming worst case seismic loads. Application of the PG&E spacing rules for small bore piping may lead to cases where lug stresses exceed the allowable.

6. Program Resolution is:

Based on PG&E Presentations (August 6, 1982 and August 26, 1982) of their Internal Technical Program of Piping, this File combines with Files 961, 1021, 1059, and 1098 into one Error Class A or B File.

File 1098 includes all concerns of these Files and has been designated as an Error Class A or B.

7. Potential Program Resolution

Report signed by Edward Denison/RICA on 820913
Type Name/Organization Date

8. Signature: [Signature] 820921 (Approved/Program Manager)

File No. 1058

File Revision No. 6

IDVP COMPLETION REPORT

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

1. The action which completes the IDVP effort is:

File Revision No. 5 is a Program Resolution Report which 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 C... 820921
Approved/Program Manager

File No. 1059

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 820921
4. Scheduled for TES Semimonthly Report No. October
5. Resolution based on the following documentation:

Small Bore Piping - The PG&E Small Bore Report (11/17 A.G. Walther) noted overstress in the 2½ inch S40 pipe. The Hosgri Report cites the 1969 Blume Report as showing span conservatism. The preliminary Blume Report does not address this item. The span tables do not address insulated pipe. (The Hosgri Report cites hot piping supported by span tables.)

6. Program Resolution is:

Based on PG&E Presentations (August 6, 1982 and August 26, 1982) of their Internal Technical Program of Piping, this File combines with Files 961, 1021, 1058, and 1098 into one Error Class A or B File.

File 1098 includes all concerns of these Files and has been designated as an Error Class A or B.

7. Potential Program Resolution

Report signed by Edward Denison/RLCA on 820913
Type Name/Organization Date

8. Signature: W. George 820921 (Approved/Program Manager) -

File No. 1059

File Revision No. 6

IDVP COMPLETION REPORT

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

1. The action which completes the IDVP effort is:

File Revision No. 5 is a Program Resolution Report which 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. [Signature] 960921
Approved/Program Manager

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 820921
4. Scheduled for TES Semimonthly Report No. OCTOBER
5. Resolution based on the following documentation:

PIPESD provides the user with two options with regard to tributary pipe mass associated with support nodes. Masses assigned to support nodes may either be deleted (option A) or distributed to adjacent node points (option B).

The design analyses corresponding to the initial RLCA sample delete masses assigned to support nodes. A comparison case run by RLCA shows these two options produce results that differ by more than 15%. In general, the support loads obtained by option B are higher than those obtained by option A.

Rev. 2 of this file was a PPRR from RLCA for an Open Item with future action by PG&E. TES and RLCA agreed in a Program Review Committee action to modify this recommendation to that shown below.

6. Program Resolution is:

Based on PG&E Presentations (August 6, 1982 and August 26, 1982) of their Internal Technical program on Piping, this file has been transferred into file 1098 Rev. 5.

7. Potential Program Resolution
Report signed by Edward Denison/RLCA on 820913
Type Name/Organization Date
8. Signature: W.L. King 820921 (Approved/Program Manager)

File No. 1060

File Revision No: 4

IDVP COMPLETION REPORT

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

1. The action which completes the IDVP effort is:

- File Revision No. 3 is a Program Resolution Report which recategorized this item as a Closed Item.
- The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. _____, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is _____

2. Signature: *W.E. Coyne*
Approved/Program Manager

OPEN ITEM REPORT

File No. 1077

File Revision No. 5

1. Date reported to PG&E and YCS 821005
2. Scheduled for RLCA (Originator) Semi-monthly Report No. October
3. Responsive to PG&E Technical Program: Task 70173 (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 ~~DP/FA/CA/DA/DA/DA~~ DCP Phase I Final Report (September 17, 1982 Submittal)
5. Structure(s), system(s) or component(s) involved:

HVAC Duct Support

6. Description of Concern:

Based on the ITP effort on HVAC Supports which is described in DCP Phase I Final Report (9/17/82 Submittal), the IDVP Program Review Committee decided to combine this file with File 1003 which in turn was classified an Error A or B.

7. Significance of Concern:

8. Recommendation:

IDVP to reconsider and combine this file with File 1003 (Error A or B) based on ITP effort on HVAC supports

9. Signature: NE Cox 821005 (Originator/Organization)

OPEN ITEM REPORT

File No. 1094

RLCA

820927

File Revision No. 4

1. Date reported to PG&E and ~~TES~~ RLCA
2. Scheduled for TES (Originator) Semimonthly Report No. October
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 ~~XXXXXXXXXX~~ PG&E Corrective Action.
5. Structure(s), system(s) or component(s) involved:

Intake Structure - Soils Review.

6. Description of Concern:

EOI 1094 Revision 3: Intake Structure - Soils Review.

The location of borings 2 and 3 as presented in "A Geophysical Investigation of Compacted Earth Fill at Diablo Canyon Nuclear Power Plant, March 8, 1978" is not consistent. Plate 1 shows boring 3 to be west of boring 2. Plate 6, which agrees with the field boring logs, shows boring 3 to be east of boring 2.

7. Significance of Concern:

8. Recommendation:

Based on PGandE resolution sheet, a correction to plate 1 was made. TES and RLCA will reconsider this file.

9. Signature: R. Wray for W. E. Cooper 820927 (Originator/Organization)

1. Date reported to PG&E and ~~TES~~ 821006
2. Scheduled for TES (Originator) Semimonthly Report No. October
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:

Supply Fan S-31.

6. Description of Concern:

Overstress calculated in structural members of Fan may have resulted from judging welds between housing and base structural member neglectable. Quality and size of weld should be checked.

Ref: RLCA P105-4-561-006, Rev. 0

7. Significance of Concern:

Existing welds could be adequate to render stresses in structural members well below allowables.

8. Recommendation:

Assess strength of existing welds and include their effect in stiffening and strengthening the connection of fan to base.

9. Signature: *R. Wray for W. E. Cooper* 821006 (Originator/Organization)

ERROR REPORT

File No. 1098

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

File Revision No. 5

PG&E Task No. _____

- 1. Dates: Reported to Program Review Committee 820917
 Program Review Committee Action 820917
 Reported to PG&E and Originator 820922
- 2. Scheduled for TES Semimonthly Report No. October
- 3. Structure(s), system(s), or component(s) involved:

CVCS Separator/Stabilizer

4. Description of Error:

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

5. Significance of Error:

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

6. Recommendation:

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

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

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

7. Potential Error Report signed by Edward Denison/RLCA on 820913

8. Signatures: Ronald Young 820922 W. E. Long

For Program Review Committee Approved/Program Manager

1. Date reported to PG&E and ~~TES~~ RLCA 821006
2. Scheduled for TES (Originator) Semimonthly Report No. October
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:

HVAC Damper 7A

6. Description of Concern:

Examination of 1/2" (5/8") bolts had been transferred to 1102 from 1083 (See Revs. 2, 3, 4 of 1083)

7. Significance of Concern:

Loads to moments at the bolted connection appear to be underestimated (Node 14) by the Stardyne Model since one of the moments was evidently released at this node. Ref: RLCA P105-4-561-001, Rev. 1.

8. Recommendation:

Rerun computer model with proper pin code at Node 14 and evaluate bolts.

9. Signature: R. Wang for W. E. Cooper 821006 (Originator/Organization)

PROGRAM RESOLUTION REPORT

File No. 1103

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 821005
4. Scheduled for TES Semimonthly Report No. October
5. Resolution based on the following documentation:

Pipe supports attached to auxiliary steel.

Supports 18/1SL, 18/4R, 10/2SL, 10/1SL, and 5/10R are attached to rupture restraints, steel plate and building structural steel. Two concerns are noted: overall qualification of the supporting steel and 20 Hertz flexibility criteria for these pipe supports.

6. Program Resolution is:

Open Item with future action by PG&E subject to IDVP verification. PG&E to define procedures on the treatment and evaluation of such piping supports as above which may not be attached to rigid structures.

7. Potential Program Resolution Report signed by Edward Denison/RLCA on 820831
Type Name/Organization Date
8. Signature: *U.P. Goy* 821005 (Approved/Program Manager)

PROGRAM RESOLUTION REPORT

File No. 1104

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 820922
4. Scheduled for TES Semimonthly Report No. OCTOBER
5. Resolution based on the following documentation:

RLCA Piping Analysis 110 - Lines 4260 and 3078

One support on line 3078 adjacent to the line 4259 tee and two supports on line 4260 adjacent to line 3078 are missing the U-bolts required to provide bilateral restraint.

RLCA will model these lines assuming bilateral restraint at these locations. As noted in the progress report, RLCA will not issue EOIs concerning 79-14 walkdown items noted for the additional five lines. These lines will be modeled using RLCA field information excepting the above supports.

Rev. 1 of this file was a PPRR from RLCA for an Open Item with future action by PG&E. TES and RLCA agreed in a Program Review Committee action to modify this recommendation to that shown below.

6. Program Resolution is:

Based on PG&E Presentation (August 6, 1982 and August 26, 1982) of their Internal Technical program on Piping, this file has been transferred into file 1098 Rev. 5.

7. Potential Program Resolution
Report signed by Edward Denison/RLCA on 820910
Type Name/Organization Date
8. Signature: W.P. Coy 820922 (Approved/Program Manager)

File No. 1104

File Revision No. 3

IDVP COMPLETION REPORT

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

1. The action which completes the IDVP effort is:

- File Revision No. 2 is a Program Resolution Report which recategorized this item as a Closed Item.
- The IDVP has been informed by PG&E that no physical modifications will be applied by PG&E in response to File Revision No. _____, which recategorized this item as either a Deviation or as a Class C or Class D Error. The PG&E document so informing the IDVP is _____

2. Signature: W E Cooper 821922
Approved/Program Manager

OPEN ITEM REPORT

File No. 3006

RLCA
~~XXX~~ 821005

File Revision No. 0

1. Date reported to PG&E and ~~XXX~~ RLCA 821005
2. Scheduled for TES (Originator) Semimonthly Report No. October
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 ~~XXXXXXXXXX~~ Review of 1981/82 URS/Blume analysis of Containment.
5. Structure(s), system(s) or component(s) involved:

Containment Annulus Structure.

6. Description of Concern:

After review of the 1981/82 URS/Blume calculation package of the Containment Annulus Structure (calculation #JAB-8168-02-CA-06) and PGandE Drawing Nos. 447245 change 6 and 438281 change 9 the following concern is noted.

1. Whether the frame consolidation by computing stiffnesses of the radial beams accurately represents the various sections of the Containment Annulus Structure.

7. Significance of Concern:

8. Recommendation:

The IDVP is continuing its review and a recommendation will be provided at conclusion of this review.

9. Signature: N. E. Coyne 821005 (Originator/Organization)

RLCA 821005

File Revision No. 0

1. Date reported to PG&E and ~~TES~~ 821005
2. Scheduled for TES (Originator) Semimonthly Report No. October
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 ~~XXXXXXXXXX~~ Review of 1981/82 URS/Blume analysis of Containment.
5. Structure(s), system(s) or component(s) involved:

Containment Annulus Structure.

6. Description of Concern:

After review of the 1981/82 URS/Blume calculation package of the Containment Annulus Structure (calculation #JAB-8168-02-CA-06) and PG&E Drawing Nos. 447245 change 6 and 438281 change 9 the following concern is noted.

1. The effect of the tangential beams, which do not appear to have been represented, on the local Amplified Response Spectra.

7. Significance of Concern:

Higher local response spectra may exist.

8. Recommendation:

The IDVP is continuing its review and a recommendation will be provided at conclusion of this review.

9. Signature: W.E. Gougeon 821005 (Originator/Organization)

ERROR REPORT

File No. 8001

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

File Revision No. 2

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 821004
- 2. Scheduled for TES Semimonthly Report No. October
- 3. Structure(s), system(s), or component(s) involved:

Safety-related equipment outside containment which must function in a severe environment.

4. Description of Error:

Inappropriate application of computer code, CONTEMPT, by Nuclear Services Corporation (NSC) for calculation of environments outside containment for equipment qualification in area GW results in too low of an equilibrium temperature. SWEC's calculation using computer code THREED results in a temperature of 313⁰F as compared to NSC's temperature of 200⁰F. The reason for this significant difference is due to the manner in which the CONTEMPT code calculates the venting flow.

5. Significance of Error:

Safety-related equipment outside Containment which must function in a severe environment experiences temperatures on the order of 100⁰F greater than reported.

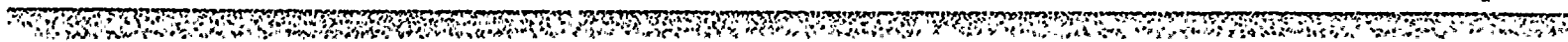
6. Recommendation:

- 1. Reanalysis by PG&E using an appropriate computer code.
- 2. Report by PG&E of results to IDVP for review.

7. Potential Error Report signed by Frank Sestak (SWEC) on 820909

8. Signatures: N/A _____ _____
 For Program Review Committee Approved/Program Manager 821004

APPENDIX A



DCNPP-IDVP

LOOK AHEAD REPORT

OCTOBER 8, THROUGH NOVEMBER 12, 1982

<u>DATE(S)</u>	<u>LOCATION</u>	<u>TOPIC</u>	<u>PARTICIPANTS</u>
10/13-14/82	DCNPP-1 Site	Review Open Items	TES
10/14/82	DCNPP-1 Site	Review Open Items	TES
10/11-15/82	DCNPP-1 Site	Review Open Items	SWEC

PHASE I ITRVP SCHEDULE AS OF OCTOBER 8, 1982

NO	ORGAN	SUBJECT		JULY		AUGUST			SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER				JANUARY							
				2	9	16	23	30	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12	19	26	1	3	10	17	24	30	1
1	RLCA	DESIGN CHAIN	S	115		5																										
2	TES	QA AUDIT & REVIE.	2																													
3	RLCA	BUILDINGS	S	102		6							P				C															
3.1	RLCA	HOSGRI SPECTRA	S	130 - A																												
4	RLCA	PIPING	S			103			103				103				103				103			103			103			103		
5	RLCA	PIPE SUPPORTS	S	104 - P-I - C																												
6	RLCA	SMALL BORE PIPG.	S	105 - I - P - C																												
7	RLCA	EQUIP. (ANAL.)	S																													
7.1	RLCA	VALVES	S	108 - I - C																												
7.2	RLCA	ELECT. EQUIPMENT	S	109 - C - I - A																												
7.3	RLCA	TANKS	S	106-3																												
7.4	RLCA	HEAT EXCHANGER	S	107 - C - I																												
7.5	RLCA	PUMPS	S	109 - C - I - A																												
7.6	RLCA	HVAC COMPONENTS	S	111 - I																												
8	RLCA	EQUIPMENT (TEST)	S	114-4									4				125				A											
9	RLCA	CONDUIT SUPPORT	S			112			7												P - C											
10	RLCA	HVAC DUCT SUPT.	S	113 - I - P - C																												
11	TES	PG&E TO NSSS INT.	S	126 - I																												
12	TES	CONTAIN. ANNULUS	S	127 - I																												
13	RLCA	INTAKE STRUCTURE	S	132 - A																												
14	RLCA	DWST	S	133 - A																												
15	RLCA	BURIED TANKS	S	134 - A																												
16	RLCA	BURIED PIPING	S	135 - A																												
17	RLCA	ADD. VERIF. & SAMPLE	1	1																												
18	RLCA	VERIF. CORRECTIVE ACTION	S			131			131				131				131				131			131			131					
19	YES	REL. TO FUEL LOADING	S														128				I											
20	YES	PHASE I REPORT	S																													

LEGEND :-

- 100-199 ISSUE OR REVISION OF DRAFT ITR
- 1-99 ISSUE OR REVISION OF ITR
- A ITR IN RESPONSE TO ADDITIONAL SAMPLE OR ADDITIONAL VERIFICATION
- C ITR IN RESPONSE TO CORRECTIVE ACTION
- I ITR IN RESPONSE TO INITIAL SAMPLE
- S START
- P PG&E SCHEDULED INFORMATION RELEASE DATE.
- N DEPENDENT ON NRC ACTION

TELETYPE
ENGINEERING SERVICES

PHASE II IDVP SCHEDULE AS OF OCTOBER 8, 1982

NO	ORGAN	SUBJECT	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	JANUARY
			2 9 16 23 30	6 13 20 27	3 10 17 24	1 8 15 22 29	5 12 19 26	3 10 17 24 31	7 14 21 28
1	RFR	DES.CH (NON-SWEC) S		201-201	201	I			
2	SWEC	DES. CHAIN (SWEC) S				202	I		
3	RFR	QA. & DESIG.PRAC. S				203	I		
4	SWEC	AFS & CRVP RPT. S				204	I	A	
5	SWEC	AFS POW.DIV.RPT. S				205	I	A	
6	SWEC	AFS ELECTRICAL DIVISION RPT. S				206	I		
7	SWEC	CRVP POWER DIV. RPT. S				207	I	A	
8	SWEC	CRVP ELECT. DIV. RPT. S				208	I		
9	SWEC	4160 V DIST. RPT. S				209	I	A	
10	SWEC	RAD. ANAL. RPT. S				210	I		
11	SWEC	DES. CHAIN DEVEL. & EVAL. RPT. S							
12	SWEC	P/T ANAL. RPT. S				212	I	A	
13	SWEC	PIPE BREAK POWER DIVISION RPT. S					213	I	A
14	SWEC	CONST.QUAL.ASSUR			S		214	I	(P)
15	RLCA	PIPING			S		215	I	
16	RLCA	EQUIPMENT			S		216	I	
17	RLCA	PIPE SUPPORTS			S		217	I	
20	TES	PHASE II REPORT				S			(P)

LEGEND :-

- 200-299 ISSUE OR REVISION OF DRAFT ITR
- 1-99 ISSUE OR REVISION OF ITR
- A ITR IN RESPONSE TO ADDITIONAL SAMPLE OR ADDITIONAL VERIFICATION
- C ITR IN RESPONSE TO CORRECTIVE ACTION
- I ITR IN RESPONSE TO INITIAL SAMPLE
- S START
- P PG&E SCHEDULED INFORMATION RELEASE DATE.
- N DEPENDENT ON NRC ACTION

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ENGINEERING SERVICES

