TELEDYNE ENGINEERING SERVICES

DIABLO CANYON NUCLEAR POWER PLANT INDEPENDENT DESIGN VERIFICATION PROGRAM

SEMIMONTHLY REPORT

TES - SM - JANUARY

JANUARY 14, 1983

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TES SEMIMONTHLY REPORT

JANUARY 14, 1983

This document includes, in numerical order, all Open Item Report System Forms issued by TES since our Second Friday Semimonthly Report of December 10, 1982.

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

Appendix A to this document is a "Lookahead Report" as requested by the Commission in its September 29, 1982 letter (Denton to Cooper). This Report is intended to provide a schedule (as presently known) of events occuring 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.

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.

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	•	ERROR REPORT	File No	• <u>1014</u>
		Class: <u>A/B</u>	File Revision No	. 9
	• •	A,B,C or D	PG&E Task No	•
		ogram Review Committee	<u> </u>	
		/ Committee Action &E and Originator	<u>N/A</u> 830105	
,	 Scheduled for TES Semi Structure(s), system(s) 	monthly Report No. Janu	uary ,	
	Containment Structure	I.	· · ·	-
	4. Description of Error:			

EOI 1014 Revision 6: Spectra have not been provided or scaling criteria defined for the pipe rack attached to the Containment Exterior.

5. Significance of Error:

Spectra used in the design analysis of the pipe rack attached to the Containment Exterior may not be applicable.

6. Recommendation:

Based on the PG&E presentation on August 6 and September 1, 1982, the Containment Structure is being reanalyzed or reviewed in the P&GE Internal Technical Program. EOIS 977 and 1009, which also concern the Containment Structure, were combined into this file 1014. Revision 8 was issued to combine 3006 and 3007 into this error file. Revision 9 is issued to combine 3008 into this error file.

 Potential Error Report signed by <u>N/A</u> on Type Name/Organization Date
 Signatures: <u>N/A</u> *Kulnay for KiEley*830105 For Program Review Committee Approved/Program Manager -2-

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•	PROGRAM RESOLUTION REPORT
	File No. <u>1074</u>
	File Revision No. 5
1. 2.	Resolution of an: Ø Open Item: D Class Error Independent Design Verification Program Resolution is as: a. Ø Closed Item
3.	b. □ Deviation c. □ Open Item with future action by PG&E: Task Date Reported to PG&E B30/05
4. 5.	Scheduled for TES Semimonthly Report No. <u>January</u> Resolution based on the following documentation:
	RLCA Piping Analysis 101 (Initial Sample)
x	The verification piping stresses differ from those in the design analysis (prior to 11/30/81) by more than 15%. Reasons for the differences are as follows:
•	1. Spectra
ł	 Mass Lumping (EOI 1060) Valve 8821A orientation (EOI 947) Flange Weight
	· · ·
•	
6.	Program Resolution is:
:	Based on PG&E Completion Sheet 1074, Rev. 2, 11/4/82, there are no modifications required.
	Closed Item.
•	
7.	Potential Program Resolution
•	Report signed byEdward_Denison/RLCA on 821217
8.	Signature: Rungfor Wif Cooper (Approved/Program Manager)
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8.	Signatu	m
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File No. 1074

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:

X File Revision No. <u>5</u> 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:

Reuron for W.E. Cooper 030105 Approved/Program Manager

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File No. 1094 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. _____ is a Program Resolution Report which recategorized this item as a Closed Item.

Signature: <u>Sources for Wellerprogram</u> Manager 2. 821220

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ERROR REPORT File No. 109	
ERROR REPORT File No. 109	6
Class: <u> </u>	
A;B,C or D 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 830113	
2. Scheduled for TES Semimonthly Report No.	
3. Structure(s), system(s), or component(s) involved:	
Supply Fan S-31	
4. Description of Error:	
The bolts between the base angles and wide flange beams are shown in t design analysis to be 7/8 inches. RLCA field verification showed the bolts to be 5/8 inches.	
The design analysis computer model restrains the fan support frames fr translational motion and assumes that the 2 shaft bearings share t axial load.	
The length of the base angle bending moment arm is 5.833 inches in t design analysis computer model. The design analysis hand calculation for bending stress utilize a length of 2.08 inches. The 5.833 in length is correct.	ns
5. Significance of Error:	
The verification analysis shows all stresses to be below the allowabl	e.

6. Recommendation:

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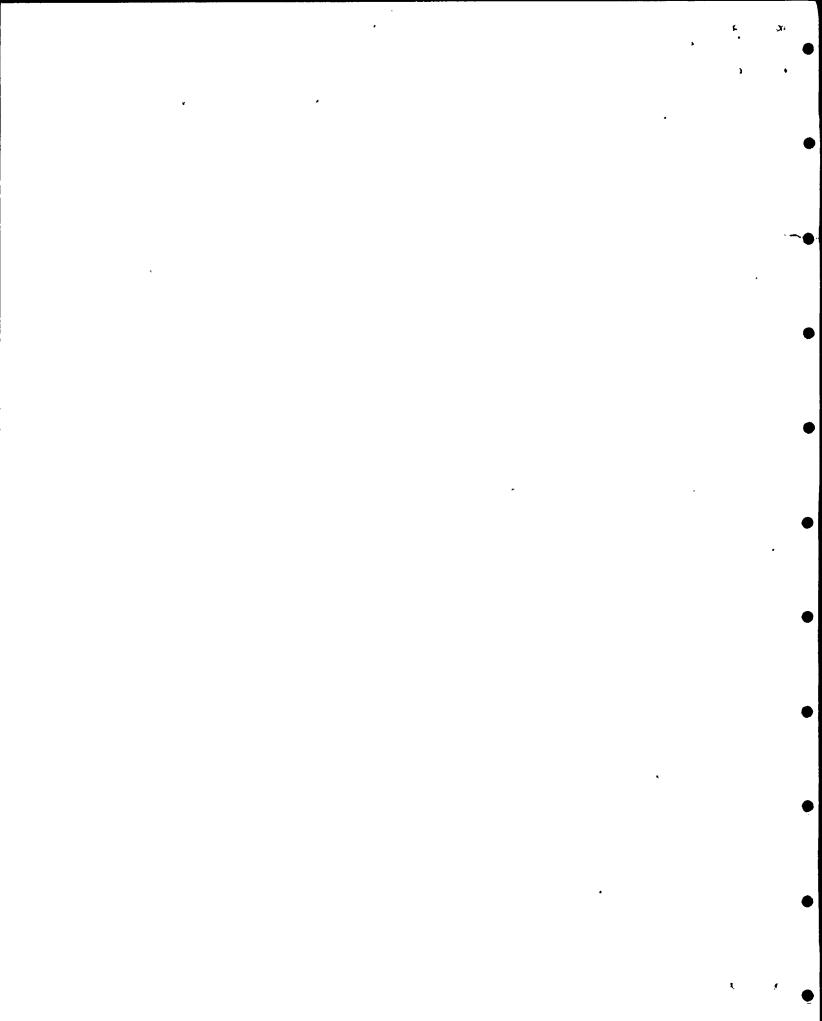
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Error Class C.

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7.	Potential Error Report		E. Denison/RLCA	on 830113
8.	Signatures:		Type Name/Organizatio	n Date
		am Review Com	nittee Approved	Program Manager
	4	-6- '		,



PROGRAM RESOLUTION REPORT

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	File No. 1108
	File Revision No. 3
2. 3. 4.	Resolution of an: XI Open Item: I Class Error Independent Design Verification Program Resolution is as: a. I Closed Item b. D Deviation c. XI Open Item with future action by PG&E: Task Date Reported to PG&E 821217 Scheduled for TES Semimonthly Report No. January
5.	Resolution based on the following documentation:
	RLCA Piping Sample 110 (Additional 5 lines); Design Analysis 7-1 Revision 5 (Prior to 11/30/81).
•	The design analysis of the RTD lines does not include the effects of the attachment to the reactor coolant system at the following locations:
n •	Line 1141 node 515, Line 1140 node 107, Line 1137 node 27, Line 1136 node 12, and Line 1138 node 1.
-	The verification analysis included SAM effects at these locations.
•	
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<u>.</u> 6.	Program Resolution is:
·	EOI 1107 notes an overstress in the verification analysis. This overstress is not caused by the inclusion of these SAM effects in the verification analysis. The licensing criteria does not address small bore piping attached to the reactor coolant system.

Open Item with future action by PG&E - clarify the licensing criteria with respect to small bore piping attached to the RCS.

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7.	Potential Program Resolution		
	Report signed byEdward_Denison/RLCA	on	821213
	Report signed by <u>Edward Depison/RLCA</u> Type Name/Organization	·····	Date
8.	Signature: Z.S. Garagen - 32/212	(Approved/Prog	
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PROGRAM RESOLUTION REPORT

File No. 1110

File Revision No. 2

- ` Error 1. Resolution of an: 🖾 Open Item: Class Independent Design Verification Program Resolution, is as: 2. a. 🗆 Closed Item
 - b. □ Deviation
 - c. 🖾 Open Item with future action by PG&E: Task
- Date Reported to PG&E 830107 3.
- Scheduled for TES Semimonthly Report No. <u>January</u> Resolution based on the following documentation: 4.
- 5.

Class 1 36" x 16" Rectangular HVAC duct from Fan S-69 to 4.16 kv switchgear.

Wall penetration described in PG&E drawing 59322, Revision 17, Detail 3/322 specifies $2-1/2 \times 1-1/2 \times 3/16$ inch angle installed on top and two sides of duct on West side of wall. Field inspection shows the angles not to be installed.

6. Program Resolution is:

Open Item with future action by PG&E.

7.	Potential Program Resolution		
	Report signed by <u>E. Denison/RLCA</u>	,	on 821208
8.	Type Name/Organization	(Approved	Date J/Program Manager)
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OPEN ITEM REPORT.

- File Revision No. 2 RLCA
- Date reported to PG&E and THES . 830107 2. Scheduled for (Originator) Semimonthly Report No. January TES

3. 'Responsive to PG&E Technical Program: Task (if applicable)

- Prepared as a result of:
 - a.
 OA Audit and Review Report of
 - b.
 Field Inspection Deficiency
 - .c. D Independent Calculation Deficiency
 - d.
 Seismic Input Deficiency
 - e. Design Methodology Deficiency

f. 凶 Other *Defficiency* Structure(s), system(s) or component(s) involved: 5.

Phase II Piping and Pipe Support Initial Sample

Description

A number of previously issued IDVP Phase I Error Reports and DCP Open Items are applicable to the planned IDVP Phase II piping and pipe support independent calculations. As a result of these items, the DCP will review the piping and supports for both Phase I and Phase II criteria. Comparison of IDVP independent calculations to superseded DCP work will not provide meaningful results.

7. Recommendation:

> Since the subject is related to the Phase II effort, it should be issued as a 6000 series EOI. Recommend RLCA issue a new EOI and close File 1111 out.

9. Signature: Rulling for 10. E. Corpson: 830107 -9-

(Originator/Organization)

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PROGRAM RESOLUTION REPORT

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		C : 1	File No.	
2. Independent Design Ve		🗆 Class	e Revision No Error . Ion is as:	
a. □ Closed Item b. □ Deviation c. XX Open Item with		y PG&E: Tas	;k	
 Date Reported to PG&E Scheduled for TES Sen Resolution based on t 	nimonthly Report	No. Janu cumentation:		
OI 1112, Revision 1: Soi	ls - Intake [;] Stru	ucture.		
orings 18 through 22 inc		· .	•	
Associates Soils Report ar Plate I-1) to be in the				
ooring logs included in t	•			
lischarge line area (Secti	on B-B, Plate I	-1).	۵ ۲	
RLCA to assess the signific	cance of this it	em at the com	nclusion of tl	ne soils
eview.		•	•	· ·
	• •	-	. ·	
6. Program Resolution is	· · · ·	•		·
				•
CP to clarify the locatio	on of borings 18	3 through 22	included in	the May
.968 soils report.				
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· · ·	• • •		• • •	· .
 Potential Program Res 	· · · · · · · · · · · · · · · · · · ·		•	• •

8.	Signature:	Runny for	Name/Organization	Date (Approved/Program Manage	er

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PROGRAM RESOLUTION REPORT

	File	No.	3008	
File	Revision	No.	1	

Resolution of an: 🕮 Open Item: 🗇 Class Error Independent Design Verification Program Resolution is as:

- a. XX Closed Item
 - b. D Deviation

1.

2.

- c. □ Open Item with future action by PG&E: Task
- 3. Date Reported to PG&E 821220
- Scheduled for TES Semimonthly Report No. 4. January
- Resolution based on the following documentation: 5.

Based upon TES field inspection and Bostrom - Bergen Metal Products, Drawing No. DC663243-465-2, there is a discrepancy at the beam to column connection - bottom flange at elevation 106' column line 10. The field inspection recorded a weld size of 1/4"-1" long while the drawing called for the weld to be 3/8"-3" long.

This concern will be transferred to and addressed in the DCP ITP on the Containment Structure.

6. Program Resolution is:

File 3008 is combined into File 1014, which has been classified an Error A or B and which pertains to the Containment Structure. Hence File 3008 is closed but the concern will be addressed in File 1014.

- 7. Potential Program Resolution Report signed by NA '
- `8. Signature:

Type Name/Organization . 10 ang for Web Corpses 821220 . (Approved/Program Manager)

Date

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	File	No.	3008
ile	Revision	No,	2

IDVP COMPLETION REPORT

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

1. The action which completes the IDVP effort is:

X File Revision No. <u>1</u> 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

Signature: Rulan W.F. 821222 Approved/Program Manager

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PROGRAM RESOLUTION REPORT

File No. ______6001_

	File Revision No2
1. 2.	Resolution of an: 的 Open Item: 口 Class Error Independent Design Verification Program Resolution is as: a. 函 Closed Item
•	b. 🖸 Deviation
3.	c. □ Open Item with future action by PG&E: Task Date Reported to PG&E _ <u>830113.</u>
4.	. Scheduled for TES Semimonthly Report No. January
5.	Resolution based on the following documentation:
	A number of previously issued IDVP Phase I Error Reports and DCP Open
	Items are applicable to the planned IDVP Phase II Piping and Pipe Support
	independent calculations. As a result of these items, the DCP will review the piping and supports for both Phase I and Phase II criteria.
٣	Comparison of IDVP independent calculations to superseded DCP work will not provide meaningful results.
	The DCP will review the piping to address the previously identified IDVP Error Reports (Phase I only prior to 11/30/81) and ITP Open Items.
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6.	Program Resolution is:
٩	This item combines with EOI 1098 as an Error Class A or B. The IDVP will prepare a program similar to ITR-8; Revision O, "Verification of DCP Corrective Action" for verification of Phase II Piping and Pipe Supports through review of the DCP current activities.
•	
-	
7.	Potential Program Resolution
	Report signed by <u>Edward Denison/RLCA</u> on <u>830111</u>
8.	Signature: Current Manager (Approved/Program Manager)
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	File	No:	6001
ile	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:

X 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

Signature: <u>A. Wrang for W.E. Coop</u>

Approved/Program Manager

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•	OPEN ITEM REPORT	File No.	8006
1	Date reported to PG&E and XXXXX 830111	File Revision No.	6
2.	Scheduled for <u>TES</u> (Originator)	emimonthly Report No.	January
4.	Prepared as a result of:	(11 app 11cc	
	 a. □ QA Audit and Review Report of b. □ Field Inspection Deficiency 		
	c. D'Independent Calculation Deficiency d. D Seismic Input Deficiency	. .	• •
•'	e. 口 Design Methodology Deficiency f. 凶 Other Deficiency		•
5.	Structure(s), system(s) or component(s) inv	olved: -	
Co	ontrol Room Ventilation and Pressurization Sy	stem.	

6. Description of Concern:

PGandE did not provide calculations which determined the input for the evaluation of environmental parameters in the Turbine Building.

Significance of Concern: 7.

The evaluation of the environmental parameters (P/T transients) in the Turbine Building (building volume, heat sink data and ventilation area). It is considered that this concern will be addressed in the response to EOI 8001.

Recommendation: 8.

TES request SWEC to issue a Potential Program Resolution Report to process this file as a closed item.

9. Signature: Quinay fa W.E.C. 830111 (Originator/Organization)

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	OPEN ITEM REPORT File No. 8009
·	SWEC File Revision No. 3
1.	Date reported to PG&E and XXX 830113
2.	Scheduled for TES (Originator) Semimonthly Report No. January
3.	Responsive to PG&E Technical Program: Task (if applicable)
4.	Prepared as a result of:
	a. 🗆 QA Audit and Review Report of
	b. D Field Inspection Deficiency
	c. 🗆 Independent Calculation Deficiency
	d. 🛄 Seismic Input Deficiency
	e. XX Design Methodology Deficiency
•	f. 🗆 Other Deficiency
5.	Structure(s), system(s) or component(s) involved:
•	
	W System Discharge Pining Unstream of Last Manual Icolation Value before

Arw System Discharge Piping Upstream of Last Manual Isolation Valve before the Feedwater System.

6. Description of Concern:

The design pressure shown in the Line Designation Table does not meet the requirements of the ANSI Code.

7. Significance of Concern:

ANSI B31.7 Class III Code requirements were not met. The occasional load of Turbine overspeed must be reviewed to assure compliance with B31.1 par. 102.2.4.

8. Recommendation:

TES requests SWEC to review the PGandE Resolution Sheet IDVP File No. 8009 Revision 2 signed 830103 and provide recommendation for future disposition.

830113(Originator/Organization)

9. Signature: Running for W.E.C. -16-

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,	OPEN ITEM REPORT	File No	8010
	SWEC	File Revision No:	6
1. Date reported to PG&E and	XKX 830113		
2. Scheduled for TES			
3.' Responsive to PG&E Techni	cal Program: Task	(if appli	icable)
4: Prepared as a result of:			
a. 🖾 QA Audit and Review	Report of	•	
b. D Field Inspection De	ficiency		
c. 🗆 Independent Calcula	tion Deficiency		-
d. 🗆 Seismic Input Defic			
e. XX Design Methodology			•
f. 🗆 Other Deficiency			•
.5. Structure(s), system(s) o	r component(s) invo	vlved:	•
AFW Turbine Bearing Coolers	and Supply Piping.	•	٨
۰			•
6. Description of Concern:	`		
or bescription of concern.			

DCO-E-M-472 added a valve that provides additional back pressure and flow through the Turbine Bearing Coolers.

7. Significance of Concern:

The piping and components do not appear adequately protected against surges and a variety of operating conditions.

• B31.7 CL III requirements were not met.

• Turbine driver could be rendered inoperable.

8. Recommendation:

TES requests SWEC to review the PGandE Resolution Sheet IDVP File NO. 8010 Revision 5 signed 821221 and provide recommendation for future disposition.

9. Signature: Runayfor W.E. Lunger 830113 (Originator/Organization). -17-

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OPEN ITEM REPORT

SWEC Lile Revision No. 5
 Date reported to PG&L and XXX 830103 Scheduled for TES (Originator) Semimonthly Report No. January
3. Responsive to PG&E Technical Program: Task (if applicable)
4. Prepared as a result of:
a. 1.1 QA Audit and Review Report of
b. 🗆 Field Inspection Deficiency
c. 🖾 Independent Calculation Deficiency
d. 囗 Seismic Input Deficiency e. 凶 Design Methodology Deficiency
f. D Other Deficiency
5. Structure(s), system(s) or component(s) involved:
Auxiliary Feedwater System Flow Capacity.
Maximaly reconater by seein from bupacters.
6. Description of Concern:
The response in PGandE Completion Sheet IDVP File No. 8015, Revision 4 is
not adequate.
•
• • •
7. Significance of Concern:
The tests performed on the AFW System did not consider the flow of 50 gpm
as defined in Section 10.4.8 of the FSAR.
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• •
8. Recommendation:
SWEC should request PGandE to submit more responsive information.

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9. Signature:

830103 (Originator/Organization)

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	OPEN ITEM REPORT	File No	8019
•	SWEC 1	File Revision No	3
1.	Date reported to PG&E and XRS 830111		•
2.	Scheduled for TES (Originator) Ser	mimonthly Report No.	January
3.	Responsive to PG&E Technical Program: Task	(if applic	able)
4.		· ·	
	a. 🗆 QA Audit and Review Report of		<u>.</u>
	b. XX 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) invo	lved:	

AFW Fire Protection.

6. Description of Concern:

Fire zone 3-Q-2 (el. 100'-0" in the Auxiliary Building), contains both motor driven AFW pumps and control circuitry (CND K8317) for FCV-95 which is required for operation of the turbine driven AFW pump.

7. Significance of Concern:

A single fire in zone 3-Q-2 could adversely affect operation of all three AFW pumps. This event could endanger safe shutdown of the plant. PGandE has stated in "Supplementary Information for Fire Protection Review" (SIFPR), November 13, 1978, that a single fire in any fire zone will not adversely affect safe shutdown capability.

PGandE should determine if the control circuitry in CND K8317 is required for safe operation of FCV-95 and if a fire could prevent the proper operation of FCV-95.

8. Recommendation:

TES requests SWEC to review the DCP Completion Sheet IDVP File No. 8019 Revision 2 dated 12/16/82 and provide recommendation for future disposition.

Signature: Runayfor W.C. Lucque -19-830111 (Originator/Organization) 9.

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	8027
SWEC File Revision No.	3
 Date reported to PG&E and XXX 830113 Scheduled for TES (Originator) Semimonthly Report 	No January
3. Responsive to PG&E Technical Program: Task (if app	1101
4. Prepared as a result of:	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
a. 🗔 QA Audit and Review Report of	
b. XX 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 Steam Supply to the AFW Turbine.	

6. Description of Concern:

7. Significance of Concern:

8. Recommendation:

TES requests SWEC to issue a Potential Program Resolution Report to process this file as a closed item.

9. Signature: Whay for W.E. Corpus 830113 (Originator/Organization) -20-

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	OPEN ITEM REPORT File No. 8028
•	SWEC File Revision No. 3
1.	Date reported to PG&E and X&S 830111
2.	Scheduled for TES (Originator) Semimonthly Report No. January
3.	Responsive to PG&E Technical Program: Task (if applicable)
•4.	Prepared as a result of:
	a. 🗇 QA Audit and Review Report of
	b. 赵 Field Inspection Deficiency
	c. 🗆 Independent Calculation Deficiency
•	d. 🗆 Seismic Input Deficiency
	e. XX Design Methodology Deficiency
	f. 🗆 Other Deficiency
5.	Structure(s), system(s) or component(s) involved:

AFW System - Failure by Postulated Pipe Crack.

6. Description of Concern:

FSAR addresses high energy line cracks in line 760. The postulated event, indirectly, may cause failure of the two AFW pump motors. A postulated single failure of the Turbine, or the necessity to isolate steam line 760 results in failure of the AFW System.

7. Significance of Concern:

An evaluation of the crack effect on the motors was not given.

The postulated crack in line 760 could result in the loss of three AFW pumps, which does not meet the licensing commitment.

8. Recommendation:

TES requests SWEC to review the PGandE Completion Sheet IDVP File No. 8028 Revision 2 signed 830104 and provide recommendation for future disposition.

9. Signature: <u>*R. Wray for W. E. Computer* 830111</u> (Originator/Organization) -21-

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		<u>OPEN</u>	ITEM REPOR	<u>T</u> ,	F	ile. No.	•	0029
_		SWEC		File	Revis	ion No.		3.
1.	Date reported to PG&E and	XXX	830113					
2.	Scheduled for TES	(Or	iginator)	Semimor	nthly	Report	No.	January
3.	Responsive to PG&E Technic	cal Pr	ogram: Ta	sk ·		(if app	olica	ble)
4.	Prepared as a result of:		·			• • • •		·
	a. 💭 QA Audit and Review							-
	b. 🖾 Field Inspection De	ficien	су					
	c. 🗆 Independent Calcula	tion D	Deficiency	•				
	d. 🛛 Seismic Input Defic		· ·					
	e. 🕅 Design Methodology	Defici	ency	•		1		
• • •	f. 🗆 Other Deficiency							
• 5.	Structure(s), system(s) or	r comp	onent(s) i	nvolved	:		•	· ·
AF	W System - Piping Crack An	alvsis	PT-434					
			, , , , ,, ,, ,,		'e			
			•					

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6. Description of Concern:

FSAR addresses high energy line cracks in line 760. An evaluation should have been made of the effects of a crack break from line 760 on point 434 and on the effects of a single crack from line 760 on point 434 and pump 1-3 simultaneously.

The jet could envelop PT-434 (calculated temperature approximately $268^{\circ}F$) resulting in the potential failure of LCV113 and LCV115. Blowdown through the crack can be isolated by closing FCV37 and FCV38 or FCV95 rendering the turbine driven pump 1-1 inoperable. A postulated single failure of purple power results in the loss of pump 1-2, and loss of power to LCV110 and LCV111.

In a separate, but similar, pipe crack break incident the following event should have been postulated. The crack is postulated to envelop portions of pump 1-3 motor and PT-434. High environmental temperatures may result in their failure. The turbine is isolated as in the first case. Failure of pumple power results in loss of pump 1-2.

7. Significance of Concern:

An evaluation of the crack effect on the targets was not given.

A postulated crack in line 760 and a postulated single failure could result in loss of AFW flow which does not meet the licensing commitment.

8. Recommendation:

TES requests SWEC to review the PGandE Completion Sheet IDVP File No. 8029 Revision 2 signed 830104 and provide recommendation for future disposition.

9. Signature:

ture: <u>Rungforw. E. Compu</u> 830113 (Originator/Organization) -22-

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		OPEN ITEN	1 REPORT	File No	8030
1.	Date reported to PG&E and	SWEC	File 30113	Revision No	
2. 3. 4.	Scheduled for <u>TES</u> Responsive to PG&E Techn	(Origin ical Progra W Report of eficiency ation Defic ciency Deficiency	ator) Semimo m: Task 	(if ap 1	
	FW System - Piping Crack A	nalysis, PT	-433.	· · .	· · ·
P1 0] D1 pc th cc re t	Description of Concern: 433 is not identified in 1-29, "Jet Analysis of Po- iablo Canyon Unit 1", Tab- ostulated in line #760 by t ne effect of a crack break ould envelop PT 433 (ca esulting in the potential the he crack can be isolated b- ne turbine driven pump 1-2	stulated P le B-13). he FSAR, an from line lculated f ailure of l y closing l	ipe Break Ou Since high e evaluation sh #760 on this cemperature a _CV110 and LCV FCV37 and FCV	tside Contai energy line nould have be transmitter approximately /111. Blowdo 38 or FCV95,	nment at cracks are en made of . The jet / 268°F) wn through rendering

7. Significance of Concern:

and LCV115.

The Table B-13 did not address this target. An evaluation of the crack effect on the target was not given.

orange power results in the loss of pump 1-3 and loss of power to LCV113

A postulated crack in line #760 and a postulated single failure could result in loss of AFW flow which does not meet the licensing commitment.

8. Recommendation:

TES requests SWEC to review the PGandE Completion Sheet IDVP File No. 8030 Revision 2 signed 830104 and provide recommendation for future disposition.

9. Signature: <u>CUray for W.E.</u> -23-

830113 (Originator/Organization)

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	• •	OPEN ITEM REPORT	<u> </u>	ilė No	8031
•		SWEC	File Revis	ion No.	3
1.	Date reported to PG&E and	XXX 830113 ·		`, · _	
2.	Scheduled for TES	(Originator)			
3	Responsive to PG&E Technic	cal Program: Tasl	<	(if appli	cable)
4:	Prepared as a result of:				
•	a. 🗆 QA Audit and Review				
	b. XX Field Inspection De				
	c. 🗆 Independent Calcula			•	•
	d. 🖾 Seismic Input Defic				
	e XX Design Methodology	Deficiency			

f. 🗆 Other Deficiency

5. Structure(s), system(s) or component(s) involved:

AFW System - Piping Crack Analysis LCV113 & LCV115.

6. Description of Concern:

Targets listed below were not identified in FSAR, Appenix 3.6 Reference 5 (NSC Report PGE-01029, "Jet Analysis of Postulated Pipe Break Outside Containment at Diablo Canyon Unit 1," Table B-12). An evaluation should have been made of the effect of a crack break on these targets. A crack break should have been postulated to occur in line #594 downstream of the check valve and FCV38. The jet could envelop POM-113 and POM-115 (calculated temperature = 210° F) or LCV113 and LCV115 (calculated temperature = 217° F) resulting in potential failure of the valves. Blowdown through the crack can be isolated by closing FCV37 & FCV38, rendering the turbine pump inoperable. A postulated single failure of purple power results in loss of pump 1-2 and loss of power to valves LCV110 and LCV111.

7. Significance of Concern:

The table B-12 did not address these targets. An evaluation of the crack effect on these targets was not given.

A postulated crack in line #594 and a postulated single failure could result in loss of AFW flow which does not meet the licensing committment.

8. Recommendation:

TES requests SWEC to review the PGandE Completion Sheet IDVP File No. 8031 Revision 2 signed 830104 and provide recommendation for future disposition.

K. Whay for W F.

9. Signature:

830113 (Originator/Organization)

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OPEN ITEM REPORT File No.	8036
SWEC File Revision No.	3
1. Date reported to PG&E and X&S 830113	
2. Scheduled for TES (Originator) Semimonthly Report N	o. January
3. Responsive to PG&E Technical Program: 'Task (if appl	icable)
4. Prepared as a result of:	•
a. 🔲 QA Audit and Review Report of	
b. XX Field Inspection Deficiency	
c. 🗆 Independent Calculation Deficiency	
d. 🛛 Seismic Input Deficiency	۰.
e. 🛛 Design Methodology Deficiency	
f. D Other Deficiency	•
5. Structure(s), system(s) or component(s) involved:	•
AFW Fire Protection - Hydrogen Lines.	Ŧ
· · · · · · · · · · · · · · · · · · ·	

6. Description of Concern:

7. Significance of Concern:

8. Recommendation:

TES requests SWEC to issue a Potential Program Resolution Report to process this file as a closed item.

9. Signature:

Cultary for 11 Elegen 830113 (Originator/Organization) -25-

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		OPEN ITEM REPOR	T File No.	8038
1.	Date reported to PG&E and		File Revision No.	<u> </u>
2.	Scheduled for TES Responsive to PG&E Techn			No. <u>January</u> Dicable)
4.	a. □ QA Audit and Review b. ¼ Field Inspection De c. □ Independent Calcula d. □ Seismic Input Defic	eficiency ation Deficiency ciency	ų.	
.5.	e. □ Design Methodology f. □ Other Deficiency Structure(s), system(s) (-	nvolved:	
				ħ
A	FW Fire Portection.		· · · · · ·	
6,	Description of Concern:		•	
	he ceiling in fire zone 3- as a large opening (with gi			100'-0")

7. Significance of Concern:

A fire in zone 3-R could propagate into zone 3-Q-2. The introduction to * "Supplementary Information for Fire Protection Review," November 13, 1978 (SIFPR), states "The assuption has been made that any fire stays confined to its fire zoné;...".

8. Recommendation:

TES requests SWEC to review the PGandE Completion Sheet IDVP File No. 8038 Revision 2 signed 830103 and provide recommendation for future disposition.

9.

Signature: R. Wnay for W.E. Con -26-1 830111 (Originator/Organization)

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•	ITEM REPORT	File No.	8039
SWEC 1. Date reported to PG&E and XXX	Fil 830113	e Revision No.	3
		onthly Report N	o. Januar
3. Responsive to PG&E Technical Pro		(if appl	
4. Prepared as a result of: a. [] QA Audit and Review Report	t of		
b. W Field Inspection Deficient			
c. 🗆 Independent Calculation De	eficiency	•	
d. □ Seismic Input Deficiency e. □ Design Methodology Deficie	encv		,
f. 🗆 Other Deficiency	-		
.5. Structure(s), system(s) or compo	onent(s) involve		
4160 V Fire Protection - Zone Barrie	rs.		
· ·		χ.	•
6. Description of Concern:	·	:	
• •		•	
The ceilings in each room (fire zon grated openings up to the 4160 V Swi and 13-C).			-
grated openings up to the 4160 V Swi			-
grated openings up to the 4160 V Swi			-
grated openings up to the 4160 V Swi			-
grated openings up to the 4160 V Swi and 13-C).			-
grated openings up to the 4160 V Swi			-
<pre>grated openings up to the 4160 V Swi and 13-C). 7. Signif.icance of Concern:</pre>	tchgear Rooms (f	fire zones 13-A,	, 13-B,.
<pre>grated openings up to the 4160 V Swi and 13-C). 7. Significance of Concern: A fire in one of the 4160 V Cable Spi A fire in one of the 4160 V</pre>	tchgear Rooms (f preading Rooms c	fire zones 13-A, could propagate	, 13-B,. into a
<pre>grated openings up to the 4160 V Swi and 13-C). 7. Signif.icance of Concern:</pre>	tchgear Rooms (f preading Rooms c	fire zones 13-A, could propagate	,13-B,. into a
<pre>grated openings up to the 4160 V Swi and 13-C). 7. Significance of Concern: A fire in one of the 4160 V Cable Spi A fire in one of the 4160 V</pre>	tchgear Rooms (f preading Rooms c	fire zones 13-A, could propagate	, 13-B,. into a
<pre>grated openings up to the 4160 V Swi and 13-C). 7. Significance of Concern: A fire in one of the 4160 V Cable Spi A fire in one of the 4160 V</pre>	tchgear Rooms (f preading Rooms c	fire zones 13-A, could propagate	, 13-B,. into a
<pre>grated openings up to the 4160 V Swi and 13-C). 7. Significance of Concern: A fire in one of the 4160 V Cable Spi A fire in one of the 4160 V</pre>	tchgear Rooms (f preading Rooms c	fire zones 13-A, could propagate	,13-B,. into a
<pre>grated openings up to the 4160 V Swi and 13-C). 7. Significance of Concern: A fire in one of the 4160 V Cable Spi A fire in one of the 4160 V</pre>	tchgear Rooms (f preading Rooms c	fire zones 13-A, could propagate	, 13-B,. into a
<pre>grated openings up to the 4160 V Swi and 13-C). 7. Significance of Concern: A fire in one of the 4160 V Cable Spi A fire in one of the 4160 V</pre>	tchgear Rooms (f preading Rooms c	fire zones 13-A, could propagate	, 13-B,. into a

TES requests SWEC to review the PGandE Completion Sheet IDVP File No. 8039 Revision 1 signed 821204 and provide recommendation for future disposition.

9. Signature: <u>Runay for WE. Compu</u>-27-830113

(Originator/Organization)

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PROGRAM RESOLUTION REP	ORT File No.	8041
•	File Revision No.	· · · · · · · · · · · · · · · · · · ·
 Resolution of an: XX Open Item: □ Class Independent Design Verification Program Reso a. □ Closed Item Deviation 		÷
 c. XX Open Item with future action by PG&E: 3. Date Reported to PG&E <u>821214</u> 4. Scheduled for TES Semimonthly Report No. 5. Resolution based on the following documentat 	January	. • .

Refer to Open Item Report, EOI 8041 Revision 0.

6. Program Resolution is:

To demonstrate compliance to the licensing commitments, PG&E to provide the following:

- 1). definition of "mutually redundant" as it applies to individual components, circuits, subsections of systems, etc.
 - design procedures which control the separation of mutually redundant circuits in raceway and equipment enclosures. (i.e. manual check, computer check, etc.)
 - 3). justification that the use of a common switch for two vital sources will not result in a common mode failure.

7.	Potential Program Re	esolution	•	٦			
	Report signed by	John Kusshhime	(SWEC)	•	ón	821207	
8.	Signature: 28	Type Name/Organ	nization 821214	(Approved	/Prog	Date ram Manag	er)
		<i>°</i> -28-			Ŭ		/

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PROGRAM RESOLUTION REPORT

	File No. 0042
File Revi	sion No. 4
 Resolution of an: X Open Item: □ Class Independent Design Verification Program Resolution is a. □ Closed Item b. □ Deviation c. X Open Item with future action by PG&E: Task 	Error as:
3. Date Reported to PG&E <u>821214</u> 4. Scheduled for TES Semimonthly Report No. January 5. Resolution based on the following documentation:	
• • •	

Refer to Open Item Report, EOI 8042, Revision 0.

6. Program Resolution is:

To demonstrate compliance to the licensing commitments, PG&E to provide the following:

- .1). definition of "mutually redundant" as it applies to individual components, circuits, subsections of systems, etc.
 - design procedures which control the separation of mutually redundant circuits in raceway and equipment enclosures. (i.e. manual check, computer check, etc.)
 - 3). justification that single failure criteria is met. Response shall address breaker positions (open or closed) for alternative gray power source from bus 1G.
- 7. Potential Program Resolution Report signed by <u>John Krechting (SWEC)</u> on <u>821207</u>
 8. Signature: <u>75</u> (STOR - 821213 (Approved (Program Manager))

<u>821213</u> (Approved/Program Manager)

-29-

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PROGRAM RESOLUTION REPORT.

File No. 8043

File Revision No. _____

January

Resolution of an: 公 Open Item: □ Class ____ Error
 Independent Design Verification Program Resolution is as:
 a. □ Closed Item

b. D Deviation.

- c. XX Open Item with future action by PG&E: Task _____ 3. Date Reported to PG&E 821214 _____
- . 4. Scheduled for TES Semimonthly Report No.
- 5. Resolution based on the following documentation:

Refer to Open Item Report, EOI 8043 Revision O.

6. Program Resolution is:

To demonstrate compliance to the licensing commitments, PG&E to provide the following:

- definition of "mutually redundant" as it applies to individual components, circuits, subsections of systems, etc.
- design procedures which control the separation of mutually redundant circuits in raceway and equipment enclosures. (i.e. manual check, computer check, etc.)

3). justification that the circuits in the identified equipment do not require separation.

7. Potential Program Resolution Report signed by <u>John Krechting (SWEC)</u> on <u>821207</u> Type Name/Organization Date

-30-

821213

(Approved/Program Manager)

8. Signature:

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POGRAM RESOLUTION REPORT

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	File No.	0044	
	File Revision No.	4	
1. 2.	Resolution of an: 凶 Open Item: □ Class Error Independent Design Verification Program Resolution is as:		
٤.	a. D Closed Item b. D Deviation		
3.	c. XX Open Item with future action by PG&E: Task Date Reported to PG&E 830104		
4.	Scheduled for TES Semimonthly Report No. January	•	
5.	Resolution based on the following documentation:	×	

Refer to Open Item Report EOI-8044, Rev. 0 for Description of Concern (Item 6) and Significance of Concern (Item 7).

6. Program Resolution is:

- Verify that additional splices were not used in the two sample systems (AFW & CRVP) in safety-related circuits. Describe how this verification was accomplished.
- Where splices are identified above, furnish documentation that splice material used is qualified to the pipe crack environment (Temperature & Humidity).

7.	Potential Program Resolution		•
	Report signed by <u>John Krechting</u> (SWEC)	, on	821203
8.	Signature: <u>Survey for W6 (approve</u> -31-	d/Prog	Date ram Manager)
•	-31-		,

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PROGRAM RESOLUTION REPORT

8045

File Revision No. · 4

File No.

Resolution of an: XX Open Item:
 Class Error
 Independent Design Verification Program Resolution is as:

 a.
 Closed Item
 b.
 Deviation
 c. XX Open Item with future action by PG&E: Task

3. Date Reported to PG&E 821214

4. Scheduled for TES Semimonthly Report No. January

5. Resolution based on the following documentation:

Refer to Open Item Report, EOI 8045 Revision O.

6. Program Resolution is:

To demonstrate compliance to the licensing commitments, PG&E to provide the following:

- definition of "mutually redundant" as it applies to individual components, circuits, subsections of systems, etc.
- design procedures which control the separation of mutually redundant circuits in raceway and equipment enclosures. (i.e. manual check, computer check, etc.)
- justification that failure of protective devices will not result in a common mode failure.

· 7.	Rotential Program	Resolution		•	
	Report signed by	John Krechting	(SWEC)		821207
		Type Name/Organi			Date
8.	Signature:	WE Gog	821213	(Approved/Prog	ram Manager)
		-32-		-	

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	OPEN ITEM REPORT File No. 8048
	SWEC File Revision No. 3
1.	Date reported to PG&E and X&X 830111
2.	Scheduled for TES (Originator) Semimonthly Report No. January
3.	Responsive to PG&E Technical Program: Task (if applicable)
4.	Prepared as a result of:
	a. 🗆 QA Audit and Review Report of
	b. XX Field Inspection Deficiency
	c. 🗆 Independent Calculation Deficiency
	d. 🗆 Seismic Input Deficiency
	e. 🛛 Design Methodology Deficiency
,	f. 🗆 Other Deficiency
	Structure(s), system(s) or component(s) involved:

AFW Long Term Cooling Water Supply System.

6. Description of Concern:

Significance of Concern: 7.

8. Recommendation:

TES requests SWEC to issue a Potential Program Resolution Report to process this file as a closed item.

9.

Signature: Runay for W.E. Corps 830111

(Originator/Organization)

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PROGRAM RESOLUTION REPORT

,	File	No.	804
File Revi	sion	No.	5

- 1. Resolution of an: XX Open Item: Class Error
 2. Independent Design Verification Program Resolution is as:
 a. Closed Item
 - `b. □ Deviation
 - c. XX Open Item with future action by PG&E: Task
 - 3. Date Reported to PG&E ____830103
 - 4. Scheduled for TES Semimonthly Report No. January
 - 5. Resolution based on the following documentation:
- A). FSAR Section 3.6.4 Specific Criteria Piping Outside Containment. Systems, location, loads as applicable to jet impingement from a longitudial break in line 594 (mode 1800) postulated to hit Orange Conduit KK792 and damage Cable No. IO053PIO3A (from XPT434 to Rack NU Set 1 CUB.B) such that LCV113 and LCV115 close. LCV113 and LCV115 are associated with Pump 1-3. Postulated failure of purple power causes loss of power to FCV37, LCV110, LCV111, and Pump 1-2. FCV37 stays open and blows down S G-2 in area GE. Pump 1-1 does not function due to the break in Line 594. A postulated break in Line 594 and a postulated single failure, i.e. purple power could result in loss of AFW flow.
- B). PGandE Completion Sheet IDVP File No. EOI-8049 Rev. 3 dated 12/15/82 is not responsive to the cited concern.
 - 6. Program Resolution is:

To demonstrate compliance with licensing commitments in FSAR Appendix 3.6, and in Ref. 5 to Appendix 3.6, the DCP should provide the following:

- a). Evaluation of the effects of jet impingement forces, i.e., blowdown thrust from break 1800 in line 594, on conduit KK 792.
- b). Re-evaluation of the jet envelopment temperature effects on conduit KK 792 resulting from break 1800 in line 594. The method of temperature calculation to be used should be the method outlined in PGE-01-29, Rev. 1, "Jet Effects Analysis of Postulated Pipe Break Outside Containment at Diablo Canyon Unit 1". PGE-01-29, Rev. 1 (Ref. 5 in FSAR Appendix 3.6) has been submitted to NRC by PG&E, and is considered to be the licensing basis for temperature calculations resulting from jet envelopment.

7.	Potential Program Re	solution			
	Report signed by	John Krechting		on	821215
8.	Signature:	Type Name/Organ	ization 830103	(Approved/Pro	Date gram Manager)
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	OPEN ITEM REPORT	File No	049
	SWEC	File Revision No.	6
1.	Date reported to PG&E and XEX 830111	•	
2.	Scheduled for TES (Originator) S	semimonthly Report No.	January
3.	Responsive to PG&E Technical Program: Task	(if applica	ble)
<u></u> 4.	Prepared as a result of:	· · ·	
	a. □ QA Audit and Review Report of	· · ·	
	b. XX 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) inv	volved:	

AFW System - Pipe Break in Line 594.

6. Description of Concern:

Jet Impingment from a longitudinal break in Line 594 (Node 1800) is postulated to hit Orange Conduit KK792 and damage Cable No. IOO53PIO3A (from XPT434 to Rack NU Set 1 CUB.B) such that LCV113 and LCV115 close. LCV113 and LCV115 are associated with Pump 1-3. Postulated failure of purple power causes loss of power to FCV37, LCV110, LCV111, and Pump 1-2. FCV37 stays open and blows down S G-2 in area GE. Pump 1-1 does not function due to the break in Line 594.

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 the PGandE Completion Sheet IDVP File No. 8049 Revision 2 signed 830103 and provide recommendation for future disposition.

Cursy for w. C. 1-35.

9. Signature:

830111(Originator/Organization)

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OPEN ITEM REPORT File No. 8053
<pre>SWEC File Revision No. 3 1. Date reported to PG&E and XKX 821217 2. Scheduled for TES (Originator) Semimonthly Report No. January 3. Responsive to PG&E Technical Program: Task (if applicable) 4. Prepared as a result of: a. □ QA Audit and Review Report of b. □ Field Inspection Deficiency c. □ Independent Calculation Deficiency d. □ Seismic Input Deficiency e. XX Design Methodology Deficiency f. □ Other Deficiency</pre>
5. Structure(s), system(s) or component(s) involved:
Control Room Ventilation and Pressurization System Instrumentation. 6. Description of Concern:
Designation of Class I devices (see 8053, Rev. 0.)

7. Significance of Concern:

Installation may not be Class I.

8. Recommendation:

SWEC to review PG&E response (Reference PG&E Resolution Sheet, IDVP File No. 8053, Rev. 1) and provide recommendation for future disposition.

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9. Signature:

821217 (Originator/Organization)

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PROGRAM RESOLUTION REPORT

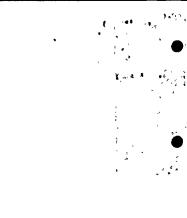
	File No.	8063 ·
	File Revision No.	4
1.	Resolution of an: ₩ Open Item: □ Class Error	
2.	Independent Design Verification Program Resolution is as:	
	a. 🗆 Closed Item	
,	b. 🗆 Deviation 🦾 👘 👘	
	c. XX Open Item with future action by PG&E: Task	
3.	Date Reported to PG&E 830103	1
4.	Scheduled for TES Semimonthly Report No. January	
5.	Resolution based on the following documentation:	

Overcurrent relays for the Auxiliary Feedwater Pump Motors should be reset at a tap high enough to prevent relay operation under normal operating conditions. Tap 4.5 is recommended as a minimum which will provide overcurrent protection at 120 percent of motor full load rating.

6. Program Resolution is:

PGandE should report on the action taken concerning the accomplishment of the work specified by their memo Cove/Vahlstrom dated 2/24/82 for relay tap settings.

7.	Potential Program Res	olution				
		John Krechting	(SWEC)		o'n_	821202
8.	Signature: <u>218</u> 6	Type Name/Org	anization 830103	(Approved	- /Progr	Date am Manager)
	•	-37-				



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APPENDIX A LOOKAHEAD

LOOKAHEAD

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APPENDIX A

LIST OF TABLES

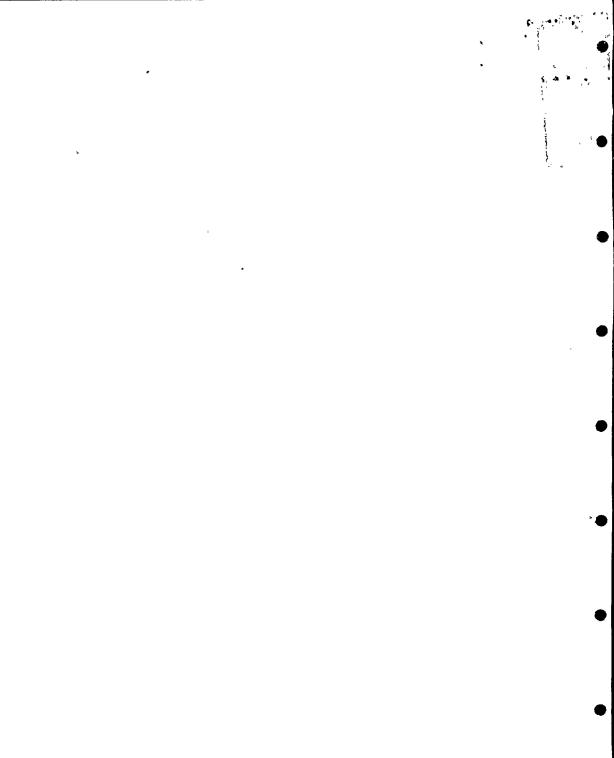
. A-1 Lookahead Report

A-2 IDVP Schedule Relative to DCNPP-1 3-Step Licensing

LIST OF FIGURES

Phase I Schedule

Phase II Schedule



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TABLE A-1

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LOOKAHEAD REPORT

JANUARY 14, 1983 THROUGH FEBRUARY 11, 1983

There are no activities scheduled for the above period.

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• TABLE A-2

IDVP SCHEDULE RELATIVE TO

DCNPP-1 3-STEP LICENSING

	IDVP REPORTS			
ACTIVITY	FUEL LOAD	LOW POWER	FULL POWER	
Phase I	Status 3-1-83	Final 4-15-83	-	
Phase II	Status 2 - 15-83	Status 4-30-83	Final 6-1-83	
ITP-QA	Status 1-28-83	-	Final 3-18-83	
Construction QA	Status 2-7-82		Final 4-1-83	
PG&E/ <u>W</u> Interface	Final 1-28-83		-	
Hosgri Spectra	Final 3-1-83	-	-	
Non-Hosgri Spectra	Status 2-7-83	-	Final 4-1-83	
Verification of ITP Action	Status 3-15-83	Status 4-30-83	Status 6-15-83	

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PHASE I IDVP SCHEDULE AS OF JANUARY 14, 1983

NO ORGAN SUBJECT OCTOBER NOVENBER DECEMBER JANUARY APRIL I FEBRUARY HARCH 1 8 15 22 29 5 12 19 26 3 10 17 24 31 7 14 21 28 4 11 18 25 11 18 25 8 15 22 29 RLCA DESIGN CHAIN 1 15 2 TES QA AUDIT 1 REVIE.12 2.11 RFR ITP-QA 154----2 3 RLCA BUILDINGS -130-130 HOSGRI SPECTRA-3.11 RLCA 15 3.21 RLCA NON - HOSGRI 151 -155----12 17 . RLCA PIPING 4 103 . IS1103-103 119-119 5 RLCA PIPE SUPPORTS IS 3-138 ۰. RLCA SHALL BORE PIPG. IS δ. 105-105 105 -139 RLCA EQUIP.(ANAL.) 7 7.11 RLCA VALVES -108-7.21 RLCA ELECT. EQUIPHENT IS1110----I---121--A 110-7.31 RLCA TANKS 131 7.41 RLCA HEAT EXCHANGER 151 107-7.51 RLCA PUHPS 151 109 109 7.61 RLCA HVAC COMPONENTS ISI 111-111----1 8 RLCA EQUIPHENT (TEST) 14 144-4 -9 RECA CONDUIT SUPPORT 17 113 10 RLCA HVAC DUCT SUPT. 113-11 11 TES PGLE TO NSSS INT. IS 126 12 TES CONTAIN. ANNULUS -127---A 13 VERIF. OF SOILS RLCA 113:11 RLCA INTAKE STRUCTURE 132-132 113.21 RLCA OWST -133---16 IS 113.31 RLCA BURIED TANKS 113.41 RLCA BURIED PIPING IS: 14 RLCA ADD. VERIF. 1 SAMPLE 111 15 RLCA VERIF.CORRECTIVE ISI--131 ACTION REL. TO FUEL TES 16 İSÌ LUADING 20 TES PHASE I REPORT İSİ (ter) 11 LEGEND :-ISSUE OR REVISION OF DRAFT ITR ISSUE OR REVISION OF ITR ITR IN RESPONSE TO ADDITIONAL SAMPLE OR ADDITIONAL VERIFICATION ITR IN RESPONSE TO CORRECTIVE ACTION ITR IN RESPONSE TO INITIAL SAMPLE START 106-199 1-99 A Ĉ Ī TELEDYNE



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PHASE 'II' 'IDVP 'SCHEDULE AS OF JANUARY 14, 1983

ז מא ORGAN SUBJECT OCTOBER NOVENBER APRIL DECEMBER JANUARY FEBRUARY MARCH 1 8 15 22 29 12 19 26 3 10 17 5 24 31 7 14 21 28 4 11 18 25 11 18 25 8 15 22 29 1 RFR DES.CH (NON-SWEC) 1 201 201 RFR 1.11 CONTRACTOR LIST 151 2 SWEC DES. CHAIN (SWEC)ISH 202 З RFR QA. & DESIG.PRAC.ISI 203--203-4 SHEC AFW RPT. 204 İSİ 27 S SWEC AFW POW.DIV.RPT. 205-15 205 22 AFW ELECTRICAL DIVISION RPT. CRVP POWER DIV. SWEC 206 6 isi 25 7 SWEC 207-İS 207-·20· RPT. CRVP ELECT. DIV. 8 SWEC İS -208-26. RPT 9 SWEC 4160 V DIST. RPT. IS 209-24 10 SWEC RAD. ANAL. RPT. 210 IS. -210--19 SWEC 11 P/T ANAL. RPT. IS -212--212--14 PIPE BREAK POWER BIVISION RPT. CONST.QUAL.ASSUR SWEC 12 213--213-15 13 SWEC 214 13.1 SWEC CONST.QUAL.ASSUR 228 İS 14 RLCA PIPING İSİ 15 RLCA PIPE SUPPORTS is ٠. RLCA 16 EQUIPMENT IS. 17 SWEC CRVP I/C DIV. İS ·218-28 RPT. FIRE PROT, POWER SWEC 18 219 219 15 DIV. RPT. PIPE LINE CRACKS POWER DIV. RPT. PHASE II REPORT 19 SWEC 221 15 221 21 20 TES S . RPT(6-1 & 6-15 REL. TO FUEL LOADING ADD VERIFICATION AND SAMPLING VERIF. OF ITP EFFORTS RELATIVE TO LOW . 21 TES 22 SWEC 224. 224--I-226----226-----I 23 SWEC 225----I 24 TES S -------227 POWER LEGEND :- 200-299 ISSUE OR REVISION OF DRAFT ITR ISSUE OR REVISION OF ITR ITR IN RESPONSE TO ADDITIONAL SAMPLE OR ADDITIONAL VERIFICATION ITR IN RESPONSE TO CORRECTIVE ACTION ITR IN RESPONSE TO INITIAL SAMPLE 1-99 Á С Ī TELEDYNE START S ENGINEERING SERVICES

