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 RECIP. NAME RECIPIENT AFFILIATION
 EISENHUT, D. G. Division of Licensing

SUBJECT: Forwards project pressure & temp transient analysis results
 in plant Areas GE/GW of auxiliary bldg resulting from main
 stream line break in Area GW. Calculations & results reflect
 current as-built conditions.

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5. The fifth part of the document is a list of names and addresses. The names are written in a cursive script, and the addresses are written in a more formal, printed script. The list is organized into columns, with names in the first column and addresses in the second column.

List 1		List 2		List 3		List 4	
Name	Address	Name	Address	Name	Address	Name	Address
John Doe	123 Main St	John Doe	123 Main St	John Doe	123 Main St	John Doe	123 Main St
Jane Smith	456 Elm St	Jane Smith	456 Elm St	Jane Smith	456 Elm St	Jane Smith	456 Elm St
Bob Johnson	789 Oak St	Bob Johnson	789 Oak St	Bob Johnson	789 Oak St	Bob Johnson	789 Oak St
Alice Brown	101 Pine St	Alice Brown	101 Pine St	Alice Brown	101 Pine St	Alice Brown	101 Pine St
Charlie White	202 Cedar St	Charlie White	202 Cedar St	Charlie White	202 Cedar St	Charlie White	202 Cedar St
Diana Green	303 Birch St	Diana Green	303 Birch St	Diana Green	303 Birch St	Diana Green	303 Birch St
Frank Black	404 Spruce St	Frank Black	404 Spruce St	Frank Black	404 Spruce St	Frank Black	404 Spruce St
Grace Hall	505 Willow St	Grace Hall	505 Willow St	Grace Hall	505 Willow St	Grace Hall	505 Willow St
Henry King	606 Ash St	Henry King	606 Ash St	Henry King	606 Ash St	Henry King	606 Ash St
Ivy Lee	707 Hickory St	Ivy Lee	707 Hickory St	Ivy Lee	707 Hickory St	Ivy Lee	707 Hickory St
Jack Miller	808 Sycamore St	Jack Miller	808 Sycamore St	Jack Miller	808 Sycamore St	Jack Miller	808 Sycamore St
Karen Wilson	909 Magnolia St	Karen Wilson	909 Magnolia St	Karen Wilson	909 Magnolia St	Karen Wilson	909 Magnolia St
Leo Taylor	1010 Poplar St	Leo Taylor	1010 Poplar St	Leo Taylor	1010 Poplar St	Leo Taylor	1010 Poplar St
Mia Adams	1111 Cherry St	Mia Adams	1111 Cherry St	Mia Adams	1111 Cherry St	Mia Adams	1111 Cherry St
Noah Baker	1212 Walnut St	Noah Baker	1212 Walnut St	Noah Baker	1212 Walnut St	Noah Baker	1212 Walnut St
Olivia Clark	1313 Chestnut St	Olivia Clark	1313 Chestnut St	Olivia Clark	1313 Chestnut St	Olivia Clark	1313 Chestnut St
Peter Davis	1414 Elm St	Peter Davis	1414 Elm St	Peter Davis	1414 Elm St	Peter Davis	1414 Elm St
Quinn Evans	1515 Oak St	Quinn Evans	1515 Oak St	Quinn Evans	1515 Oak St	Quinn Evans	1515 Oak St
Rachel Foster	1616 Pine St	Rachel Foster	1616 Pine St	Rachel Foster	1616 Pine St	Rachel Foster	1616 Pine St
Samuel Green	1717 Cedar St	Samuel Green	1717 Cedar St	Samuel Green	1717 Cedar St	Samuel Green	1717 Cedar St
Tina Harris	1818 Birch St	Tina Harris	1818 Birch St	Tina Harris	1818 Birch St	Tina Harris	1818 Birch St
Uma Ivers	1919 Spruce St	Uma Ivers	1919 Spruce St	Uma Ivers	1919 Spruce St	Uma Ivers	1919 Spruce St
Victor Jones	2020 Willow St	Victor Jones	2020 Willow St	Victor Jones	2020 Willow St	Victor Jones	2020 Willow St
Wendy King	2121 Ash St	Wendy King	2121 Ash St	Wendy King	2121 Ash St	Wendy King	2121 Ash St
Xavier Lee	2222 Hickory St	Xavier Lee	2222 Hickory St	Xavier Lee	2222 Hickory St	Xavier Lee	2222 Hickory St
Yara Miller	2323 Sycamore St	Yara Miller	2323 Sycamore St	Yara Miller	2323 Sycamore St	Yara Miller	2323 Sycamore St
Zoe Wilson	2424 Magnolia St	Zoe Wilson	2424 Magnolia St	Zoe Wilson	2424 Magnolia St	Zoe Wilson	2424 Magnolia St
Adam Taylor	2525 Poplar St	Adam Taylor	2525 Poplar St	Adam Taylor	2525 Poplar St	Adam Taylor	2525 Poplar St
Bella Adams	2626 Cherry St	Bella Adams	2626 Cherry St	Bella Adams	2626 Cherry St	Bella Adams	2626 Cherry St
Carl Baker	2727 Walnut St	Carl Baker	2727 Walnut St	Carl Baker	2727 Walnut St	Carl Baker	2727 Walnut St
Dora Clark	2828 Chestnut St	Dora Clark	2828 Chestnut St	Dora Clark	2828 Chestnut St	Dora Clark	2828 Chestnut St
Ethan Davis	2929 Elm St	Ethan Davis	2929 Elm St	Ethan Davis	2929 Elm St	Ethan Davis	2929 Elm St
Fiona Evans	3030 Oak St	Fiona Evans	3030 Oak St	Fiona Evans	3030 Oak St	Fiona Evans	3030 Oak St
George Foster	3131 Pine St	George Foster	3131 Pine St	George Foster	3131 Pine St	George Foster	3131 Pine St
Helen Green	3232 Cedar St	Helen Green	3232 Cedar St	Helen Green	3232 Cedar St	Helen Green	3232 Cedar St
Ian Harris	3333 Birch St	Ian Harris	3333 Birch St	Ian Harris	3333 Birch St	Ian Harris	3333 Birch St
Julia Ivers	3434 Spruce St	Julia Ivers	3434 Spruce St	Julia Ivers	3434 Spruce St	Julia Ivers	3434 Spruce St
Kyle Jones	3535 Willow St	Kyle Jones	3535 Willow St	Kyle Jones	3535 Willow St	Kyle Jones	3535 Willow St
Laura King	3636 Ash St	Laura King	3636 Ash St	Laura King	3636 Ash St	Laura King	3636 Ash St
Mason Lee	3737 Hickory St	Mason Lee	3737 Hickory St	Mason Lee	3737 Hickory St	Mason Lee	3737 Hickory St
Nora Miller	3838 Sycamore St	Nora Miller	3838 Sycamore St	Nora Miller	3838 Sycamore St	Nora Miller	3838 Sycamore St
Oscar Wilson	3939 Magnolia St	Oscar Wilson	3939 Magnolia St	Oscar Wilson	3939 Magnolia St	Oscar Wilson	3939 Magnolia St
Pamela Taylor	4040 Poplar St	Pamela Taylor	4040 Poplar St	Pamela Taylor	4040 Poplar St	Pamela Taylor	4040 Poplar St
Quinn Adams	4141 Cherry St	Quinn Adams	4141 Cherry St	Quinn Adams	4141 Cherry St	Quinn Adams	4141 Cherry St
Rachel Baker	4242 Walnut St	Rachel Baker	4242 Walnut St	Rachel Baker	4242 Walnut St	Rachel Baker	4242 Walnut St
Samuel Clark	4343 Chestnut St	Samuel Clark	4343 Chestnut St	Samuel Clark	4343 Chestnut St	Samuel Clark	4343 Chestnut St
Tina Davis	4444 Elm St	Tina Davis	4444 Elm St	Tina Davis	4444 Elm St	Tina Davis	4444 Elm St
Uma Evans	4545 Oak St	Uma Evans	4545 Oak St	Uma Evans	4545 Oak St	Uma Evans	4545 Oak St
Victor Foster	4646 Pine St	Victor Foster	4646 Pine St	Victor Foster	4646 Pine St	Victor Foster	4646 Pine St
Wendy Green	4747 Cedar St	Wendy Green	4747 Cedar St	Wendy Green	4747 Cedar St	Wendy Green	4747 Cedar St
Xavier Harris	4848 Birch St	Xavier Harris	4848 Birch St	Xavier Harris	4848 Birch St	Xavier Harris	4848 Birch St
Yara Ivers	4949 Spruce St	Yara Ivers	4949 Spruce St	Yara Ivers	4949 Spruce St	Yara Ivers	4949 Spruce St
Zoe Jones	5050 Willow St	Zoe Jones	5050 Willow St	Zoe Jones	5050 Willow St	Zoe Jones	5050 Willow St
Adam King	5151 Ash St	Adam King	5151 Ash St	Adam King	5151 Ash St	Adam King	5151 Ash St
Bella Lee	5252 Hickory St	Bella Lee	5252 Hickory St	Bella Lee	5252 Hickory St	Bella Lee	5252 Hickory St
Carl Miller	5353 Sycamore St	Carl Miller	5353 Sycamore St	Carl Miller	5353 Sycamore St	Carl Miller	5353 Sycamore St
Dora Wilson	5454 Magnolia St	Dora Wilson	5454 Magnolia St	Dora Wilson	5454 Magnolia St	Dora Wilson	5454 Magnolia St
Ethan Taylor	5555 Poplar St	Ethan Taylor	5555 Poplar St	Ethan Taylor	5555 Poplar St	Ethan Taylor	5555 Poplar St
Fiona Adams	5656 Cherry St	Fiona Adams	5656 Cherry St	Fiona Adams	5656 Cherry St	Fiona Adams	5656 Cherry St
George Baker	5757 Walnut St	George Baker	5757 Walnut St	George Baker	5757 Walnut St	George Baker	5757 Walnut St
Helen Clark	5858 Chestnut St	Helen Clark	5858 Chestnut St	Helen Clark	5858 Chestnut St	Helen Clark	5858 Chestnut St
Ian Davis	5959 Elm St	Ian Davis	5959 Elm St	Ian Davis	5959 Elm St	Ian Davis	5959 Elm St
Julia Evans	6060 Oak St	Julia Evans	6060 Oak St	Julia Evans	6060 Oak St	Julia Evans	6060 Oak St
Kyle Foster	6161 Pine St	Kyle Foster	6161 Pine St	Kyle Foster	6161 Pine St	Kyle Foster	6161 Pine St
Laura Green	6262 Cedar St	Laura Green	6262 Cedar St	Laura Green	6262 Cedar St	Laura Green	6262 Cedar St
Mason Harris	6363 Birch St	Mason Harris	6363 Birch St	Mason Harris	6363 Birch St	Mason Harris	6363 Birch St
Nora Ivers	6464 Spruce St	Nora Ivers	6464 Spruce St	Nora Ivers	6464 Spruce St	Nora Ivers	6464 Spruce St
Oscar Jones	6565 Willow St	Oscar Jones	6565 Willow St	Oscar Jones	6565 Willow St	Oscar Jones	6565 Willow St
Pamela King	6666 Ash St	Pamela King	6666 Ash St	Pamela King	6666 Ash St	Pamela King	6666 Ash St
Quinn Lee	6767 Hickory St	Quinn Lee	6767 Hickory St	Quinn Lee	6767 Hickory St	Quinn Lee	6767 Hickory St
Rachel Miller	6868 Sycamore St	Rachel Miller	6868 Sycamore St	Rachel Miller	6868 Sycamore St	Rachel Miller	6868 Sycamore St
Samuel Wilson	6969 Magnolia St	Samuel Wilson	6969 Magnolia St	Samuel Wilson	6969 Magnolia St	Samuel Wilson	6969 Magnolia St
Tina Taylor	7070 Poplar St	Tina Taylor	7070 Poplar St	Tina Taylor	7070 Poplar St	Tina Taylor	7070 Poplar St
Uma Adams	7171 Cherry St	Uma Adams	7171 Cherry St	Uma Adams	7171 Cherry St	Uma Adams	7171 Cherry St
Victor Baker	7272 Walnut St	Victor Baker	7272 Walnut St	Victor Baker	7272 Walnut St	Victor Baker	7272 Walnut St
Wendy Clark	7373 Chestnut St	Wendy Clark	7373 Chestnut St	Wendy Clark	7373 Chestnut St	Wendy Clark	7373 Chestnut St
Xavier Davis	7474 Elm St	Xavier Davis	7474 Elm St	Xavier Davis	7474 Elm St	Xavier Davis	7474 Elm St
Yara Evans	7575 Oak St	Yara Evans	7575 Oak St	Yara Evans	7575 Oak St	Yara Evans	7575 Oak St
Zoe Foster	7676 Pine St	Zoe Foster	7676 Pine St	Zoe Foster	7676 Pine St	Zoe Foster	7676 Pine St
Adam Green	7777 Cedar St	Adam Green	7777 Cedar St	Adam Green	7777 Cedar St	Adam Green	7777 Cedar St
Bella Harris	7878 Birch St	Bella Harris	7878 Birch St	Bella Harris	7878 Birch St	Bella Harris	7878 Birch St
Carl Ivers	7979 Spruce St	Carl Ivers	7979 Spruce St	Carl Ivers	7979 Spruce St	Carl Ivers	7979 Spruce St
Dora Jones	8080 Willow St	Dora Jones	8080 Willow St	Dora Jones	8080 Willow St	Dora Jones	8080 Willow St
Ethan King	8181 Ash St	Ethan King	8181 Ash St	Ethan King	8181 Ash St	Ethan King	8181 Ash St
Fiona Lee	8282 Hickory St	Fiona Lee	8282 Hickory St	Fiona Lee	8282 Hickory St	Fiona Lee	8282 Hickory St
George Miller	8383 Sycamore St	George Miller	8383 Sycamore St	George Miller	8383 Sycamore St	George Miller	8383 Sycamore St
Helen Wilson	8484 Magnolia St	Helen Wilson	8484 Magnolia St	Helen Wilson	8484 Magnolia St	Helen Wilson	8484 Magnolia St
Ian Taylor	8585 Poplar St	Ian Taylor	8585 Poplar St	Ian Taylor	8585 Poplar St	Ian Taylor	8585 Poplar St
Julia Adams	8686 Cherry St	Julia Adams	8686 Cherry St	Julia Adams	8686 Cherry St	Julia Adams	8686 Cherry St
Kyle Baker	8787 Walnut St	Kyle Baker	8787 Walnut St	Kyle Baker	8787 Walnut St	Kyle Baker	8787 Walnut St
Laura Clark	8888 Chestnut St	Laura Clark	8888 Chestnut St	Laura Clark	8888 Chestnut St	Laura Clark	8888 Chestnut St
Mason Davis	8989 Elm St	Mason Davis	8989 Elm St	Mason Davis	8989 Elm St	Mason Davis	8989 Elm St
Nora Evans	9090 Oak St	Nora Evans	9090 Oak St	Nora Evans	9090 Oak St	Nora Evans	9090 Oak St
Oscar Foster	9191 Pine St	Oscar Foster	9191 Pine St	Oscar Foster	9191 Pine St	Oscar Foster	9191 Pine St
Pamela Green	9292 Cedar St	Pamela Green	9292 Cedar St	Pamela Green	9292 Cedar St	Pamela Green	9292 Cedar St
Quinn Harris	9393 Birch St	Quinn Harris	9393 Birch St	Quinn Harris	9393 Birch St	Quinn Harris	9393 Birch St
Rachel Ivers	9494 Spruce St	Rachel Ivers	9494 Spruce St	Rachel Ivers	9494 Spruce St	Rachel Ivers	9494 Spruce St
Samuel Jones	9595 Willow St	Samuel Jones	9595 Willow St	Samuel Jones	9595 Willow St	Samuel Jones	9595 Willow St
Tina King	9696 Ash St	Tina King	9696 Ash St	Tina King	9696 Ash St	Tina King	9696 Ash St
Uma Lee	9797 Hickory St	Uma Lee	9797 Hickory St	Uma Lee	9797 Hickory St	Uma Lee	9797 Hickory St
Victor Miller	9898 Sycamore St	Victor Miller	9898 Sycamore St	Victor Miller	9898 Sycamore St	Victor Miller	9898 Sycamore St
Wendy Wilson	9999 Magnolia St	Wendy Wilson	9999 Magnolia St	Wendy Wilson	9999 Magnolia St	Wendy Wilson	9999 Magnolia St
Xavier Taylor	10000 Poplar St	Xavier Taylor	10000 Poplar St	Xavier Taylor	10000 Poplar St	Xavier Taylor	10000 Poplar St

PACIFIC GAS AND ELECTRIC COMPANY

PG&E +

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April 13, 1983

Mr. D. G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Re: Docket No. 50-275, OL-DPR-76
Diablo Canyon Unit No. 1
Pressure and Temperature Data
for Pipe Break Outside Containment

Dear Mr. Eisenhut:

Pursuant to PGandE's letter dated March 22, 1983, enclosed are the Diablo Canyon Project pressure and temperature transient analysis results in areas GE/GW of the auxiliary building resulting from a main steam line break in area GW. As described in Enclosure 1, the information responds to the NRC letter dated January 19, 1983. It is our understanding that this information will be used by the NRC to determine temperature and pressure profiles for comparison with IDVP results.

The blowdown input data is for dry steam and was furnished by Westinghouse Electric Corporation. The calculations and results reflect the current plant as-built conditions. We are currently evaluating these results to determine any impact on the plant.

Very truly yours,

Philip A. Crane, Jr.
for Philip A. Crane, Jr.

Boo!

Enclosure

cc: Service List (w/o enc.)

8304180582 830413
PDR ADOCK 05000275
P PDR



Enclosure 1

This submittal contains the following four attachments:

1. Summary - Discussion
2. Pressure and Temperature Curves and Tables for Area GE/GW
3. CHTG Calculation No. 15320-2203-0
4. FLUD Code Description

The following table correlates the attachments with the requested NRC information:

<u>NRC January 19, 1983, Letter Request</u>	<u>Date Previously Submitted</u>	<u>Location in this Submittal (Attachment No.)</u>
1. With respect to the pipe to be broken:		
a. type of fluid (water or steam)	2/25/83	3
b. temperature	2/25/83	3
c. pressure	2/25/83	3
d. source of the fluid	2/25/83	3
e. flow rate (or assumed flow rate) as a function of time	2/25 and 3/4/83	3
f. enthalpy as a function of time	2/25 and 3/4/83	3

Enclosure 1 (Continued)

<u>NRC January 19, 1983, Letter Request</u>	<u>Date Previously Submitted</u>	<u>Location in this Submittal (Attachment No.)</u>
2. With respect to the compartments being analyzed:		
a. number of compartments analyzed	2/25/83	3 (Notes 3 and 4)
b. for each compartment:		
(1) initial temperature	2/25/83	3
(2) initial pressure	2/25/83	3
(3) initial humidity	2/25/83	3
(4) Floor area including floor space taken by equipment (square feet)	2/4 and 2/25/83	3 (Notes 3 and 4)
(5) number of vents and vent areas (square feet) for each vent	2/4 and 2/25/83	3 (Notes 3 and 4)
(6) compartment wall height (feet)	2/4/83	3 (Note 3)
c. simple compartment and interconnection diagram	2/4 and 2/25/83	2 (Notes 3 and 4)
3. All assumptions used, including but not limited to:		
a. orifice coefficient	2/25/83	3 (Note 4)
b. fluid expansion factor	2/25/83	3 (Note 4)
c. heat transfer coefficient for heat through the walls	2/25/83	3 (Note 4)

1. The first part of the document is a list of names and addresses of the members of the committee.

2. The second part of the document is a list of names and addresses of the members of the committee.

3. The third part of the document is a list of names and addresses of the members of the committee.

4. The fourth part of the document is a list of names and addresses of the members of the committee.

5. The fifth part of the document is a list of names and addresses of the members of the committee.

6. The sixth part of the document is a list of names and addresses of the members of the committee.

7. The seventh part of the document is a list of names and addresses of the members of the committee.

8. The eighth part of the document is a list of names and addresses of the members of the committee.

9. The ninth part of the document is a list of names and addresses of the members of the committee.

10. The tenth part of the document is a list of names and addresses of the members of the committee.

11. The eleventh part of the document is a list of names and addresses of the members of the committee.

12. The twelfth part of the document is a list of names and addresses of the members of the committee.

13. The thirteenth part of the document is a list of names and addresses of the members of the committee.

14. The fourteenth part of the document is a list of names and addresses of the members of the committee.

15. The fifteenth part of the document is a list of names and addresses of the members of the committee.

16. The sixteenth part of the document is a list of names and addresses of the members of the committee.

Enclosure 1 (Continued)

<u>NRC January 19, 1983, Letter Request</u>	<u>Date Previously Submitted</u>	<u>Location in this Submittal (Attachment No.)</u>
4. Results of Diablo Canyon Project analysis:		
a. temperature versus time curve (peak temperature specified)	-	2
b. pressure versus time curve (peak pressure specified)	-	2
c. humidity versus time curve (Peak humidity specified)	-	Note 2
5. FSAR references to above information as appropriate.	2/25/83	Note 5

Notes:

1. Attachment 2 is a summary of Attachment 3. Therefore, information contained in Attachment 2 is also provided in Attachment 3.
2. Humidity is 100%
3. Basic reference data were previously submitted in Calculation Nos. M-222 and M-287.
4. This information supercedes previously submitted information due to a change in modelling.
5. The correct FSAR references are Section 3.6.4 and Appendix 3.6.

1. The first part of the report is a general description of the project and its objectives. It includes a brief history of the project and a statement of the problem being studied.

2. The second part of the report is a description of the methods used in the study. It includes a description of the experimental design and the data collection procedures.

3. The third part of the report is a description of the results of the study. It includes a description of the data and a discussion of the findings.

4. The fourth part of the report is a discussion of the implications of the study. It includes a discussion of the limitations of the study and suggestions for future research.

5. The fifth part of the report is a conclusion. It includes a summary of the findings and a statement of the overall conclusions.

6. The sixth part of the report is a list of references. It includes a list of the books, articles, and other sources used in the study.

7. The seventh part of the report is an appendix. It includes a list of the tables, figures, and other materials used in the study.

8. The eighth part of the report is a glossary. It includes a list of the terms used in the study and their definitions.

ATTACHMENT 1

SUMMARY - DISCUSSION

Main Steam Line Break Pressure and Temperature Transient Analysis (without water entrainment) in Area GE/GW of the Auxiliary Building

The Diablo Canyon Project has completed the auxiliary building area GE/GW pressure and temperature transient analysis. The Bechtel computer code FLUD 6 was used to predict the pressure and temperature transients. There were 8 cases considered; 17, 18, 19, 20, 33, 34, 35, and 36 from Westinghouse blowdown data. Cases 17, 18, 19, and 20 were main steam line split breaks with power levels at 102%, 70%, 30% and 0% respectively. Cases 33, 34, 35, and 36 were main steam line double-ended ruptures with power levels at 102%, 70%, 30% and 0% respectively. The worst compartment peak temperatures were generated by split break cases, while the worst compartment peak pressures were generated by double-ended rupture cases.

The computer model was based on PGandE equipment location drawings and was confirmed by an as-built walkdown. In order to avoid flow oscillations between the north pipeway and the south pipeway, the split break model was modified by combining the north pipeway and the south pipeway into one pipeway compartment. The effect of this modification on compartment temperature was negligible. Please note that only compartment temperatures were of concern for split break cases.

The results for all cases, i.e. the tables of peak pressure and temperature, the pressure and temperature curves for each compartment, and the maximum and minimum pressures and temperatures, are extracted from Calculation No. 2203, Rev.0, and included in Attachment 2. Attachment 3 contains a complete copy of Calculation No. 2203, Rev.0.

The FLUD 6 Code Description is included as Attachment 4.

